THB

HUI BAO ENTERPRISE CO.,LTD









CE UV afaq ISO 9001 Quality AFNOR CERTIFICATION RoHS

http://www.thb.com.tw

2025

THB Company Profile

QUALITY AND INNOVATION ARE EVERYTHING TO THB

Company Name: Hui Bao Enterprise Co., Ltd.

Brand Name : THB

Established since 1988

Product range :

- Air Tools (Tire Gauge, Air Blower)
- Air Hoses
- Air Quick Couplers
- F.R.L. Air Control Unit
- Solenoid Valve
- Cylinder
- Air Compressor Components

Certificates : ISO 9001:2015

Head Quarter

Factory

DIE CASTING

CNC MACHINE

CASTING MACHINE

TAPPING CENTER

HOSE PRODUCTION LINE

INDEX

AIR TOOLS

AIR HOSE

F.R.L. AIR CONTROL UNIT

QUICK COUPLERS

AIR QUICK COUPLERS

PUSH-TO-CONNECT-FITTING

AIR COMPRESSOR COMPONENTS

SOLENOID VALVE

CYLINDER

Gravity Flow Cup Spray Gun

BS10

BS10(MP)

TW Pat. I730844
CN Pat. ZL202010685231.6
JP Pat. 特許714921
US Pat. 11654446B2
EP Pat. 3939707B1

THB unique design "Build-in regulator".
Additional Pressure regulator is unnecessary.

SPECIFICATION：

Part No.	BS10	BS10 - A	BS10 - B
Proof Input Pressure	57~145PSI / 4 ~ 10Bar / 0.4 ~ 1.0 MPa		
Working Pressure	7 ~36 PSI / 0.5 ~ 2.5Bar / 0.05 ~ 0.25MPa		
Max Input Pressure	232PSI / 16Bar / 1.6MPa		
Body Material	Aluminum alloy		
Air Inlet	1/4"		
Fluid Inlet	3/8″		
Temp Range	5 ～ 40 ℃ (41 ～ 104 ℉)		
Style	Gravity		
Bottle Capactity	600ml	400ml	

FEATURES：

1. Aluminum body for light weight and durable and user-friendly
2. Built-in regulator for stabilizing output pressure and better atomization
3. Stainless trigger and nozzle, which is designed for water-based paint
4. Trigger shields parts well to lessen dirty and wear and tear
5. Transparent cup with scale for checking paint easily

Fluid nozzle orifice (mm)	1.0	1.3	1.4	1.5	1.8	2.0	2.5
Spray Pressure Bar	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Spray distance (mm)	200	200	200	200	200	200	200
Pattern width (mm)	280	300	300	300	320	320	320
Air consumption (l/min)	340	340	340	340	340	340	360
Paint consumption (ml/min)	125	170	180	200	240	280	330

Paint viscosity：20 sec/NK-2（22 sec / Ford 4）

APPLICATIONS:

1. Coating
2. Sheet metal part painting
3. Wall painting

BS11

Gravity Flow Cup Spray Gun

BS11(HVLP)

THB unique design "Build-in regulator".
Additional Pressure regulator is unnecessary.

SPECIFICATION：

Part No.	BS11	BS11 - A	BS11 - B
Proof Input Pressure	57~145PSI / 4 ~ 10Bar / 0.4 ~ 1.0 MPa		
Working Pressure	6 ~12 PSI / 0.4~0.8 Bar / 0.04~0.08 MPa		
Max Input Pressure	232PSI / 16Bar / 1.6MPa		
Body Material	Aluminum alloy		
Air Inlet	1/4"		
Fluid Inlet	3/8″		
Temp Range	5 ～ 40 ℃ (41 ～ 104 ℉)		
Style	Gravity		
Bottle Capactity	600ml	400ml	

FEATURES：

1.Aluminum body for light weight and durable and user-friendly
2.Built-in regulator for stabilizing output pressure and better atomization
3.Stainless trigger and nozzle, which is designed for water-based paint
4.Trigger shields parts well to lessen dirty and wear and tear
5.Transparent cup with scale for checking paint easily

APPLICATIONS:

1.Coating
2.Sheet metal part painting
3.Wall painting

Fluid nozzle orifice (mm)	1.3	1.5	1.8	2.0
Spray Pressure Bar	0.7	0.7	0.7	0.7
Spray distance (mm)	150 ～170			
Pattern width (mm)	300	300	320	320
Air consumption (l/min)	360	360	360	360

Paint viscosity：20 sec/NK-2（22 sec / Ford 4）

Flow Cup Spray Gun

BS20 / BS30

BS20(MP)
Suction Flow Cup Spray Gun

BS30(MP)
Gravity Flow Cup Spray Gun

THB unique design "Build-in regulator" .
Additional Pressure regulator is unnecessary.

SPECIFICATION :

Part No.	BS20	BS30	BS30 - A	BS30 - B
Proof Input Pressure	57~145PSI / 4 ~ 10Bar / 0.4~ 1.0 MPa			
Working Pressure	25~36PSI / 1.7~2.5Bar / 0.17~0.25MPa	7~36PSI / 0.5~2.5Bar / 0.05~0.25MPa		
Max Input Pressure	232PSI / 16Bar / 1.6MPa			
Body Material	Aluminum alloy			
Air Inlet	1/4"			
Fluid Inlet	3/8″	1/4″		
Temp Range	5 ~ 40 ℃ (41 ~ 104 ℉)			
Style	Suction	Gravity		
Bottle Capactity	1000ml	400ml	600ml	

Fluid nozzle orifice(mm)	1.3	1.5	1.8	2.0	2.5	1.3	1.5	1.8	2.0	2.5
Spray Pressure (Bar)	2	2	2	2	2	1.5	1.5	1.5	1.5	1.5
Spray distance (mm)	250	250	250	250	250	200	200	200	200	200
Pattern width(mm)	260	260	280	280	300	280	300	300	300	320
Air consumption (l/min)	360	360	360	360	360	320	320	320	320	320
Paint consumption(ml/min)	160	175	200	230	280	170	210	270	320	380

Paint viscosity : 20 sec/NK-2 (22 sec / Ford 4)

BS21 / BS31

Flow Cup Spray Gun

BS21(HVLP)
Suction Flow Cup Spray Gun

TW Pat. I730844
CN Pat. ZL202010685231.6
JP Pat. 特許714921
US Pat. 11654446B2
EP Pat. 3939707B1

BS31 (HVLP)
Gravity Flow Cup Spray Gun

THB unique design "Build-in regulator".
Additional Pressure regulator is unnecessary.

SPECIFICATION :

Part No.	BS21	BS31	BS31 - A	BS31 - B
Proof Input Pressure	57~145PSI / 4 ~ 10Bar / 0.4~ 1.0 MPa			
Working Pressure	6 ~12 PSI / 0.4 ~ 0.8 Bar / 0.04 ~0.08 MPa			
Max Input Pressure	232PSI / 16Bar / 1.6MPa			
Body Material	Aluminum alloy			
Air Inlet	1/4"			
Fluid Inlet	3/8″	1/4″		
Temp Range	5 ~ 40 ℃ (41 ~ 104 ℉)			
Style	Suction	Gravity		
Bottle Capactity	1000ml	400ml	600ml	

Fluid nozzle orifice (mm)	1.0	1.3	1.5	1.8	2.0	1.3	1.5	1.8	2.0
Spray Pressure (Bar)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Spray distance (mm)	200	200	200	200	200	150 ~170			
Pattern width (mm)	360	360	360	360	360	300	300	300	300
Air consumption (l/min)	360	360	360	360	360	360	360	360	360

Paint viscosity : 20 sec/NK-2 (22 sec / Ford 4)

SPECIFICATION：

Products Model	Type of Feed	Nozzle orifice ϕ mm(in)	Atomizing Air pressure Mpa (bar/psi)	Fluid Output ml/min	Air consumption l/min(cfm)	Pattern Width mm(in)
BSA10-1.0	Pressure	1.0(0.039)	0.29(3.0/43)	250	80(2.8)	250(9.8)
BSA10-1.3	Pressure	1.3(0.051)	0.29(3.0/43)	360	100(3.5)	350(13.8)
BSA10-2.0	Pressure	2.0(0.079)	0.29(3.0/43)	600	140(4.9)	400(15.7)

FEATURES：

1.Light,compact and simple,easy operation and set-up.

2.Wide scope of purpose, and ideal for various industries.

3.Nozzle and needle are made of stainless steel for anti-wear and extend the service life of tool.

BC10

Turbo Power Cleaning Gun

TW Pat. M65077
TW Pat. I775388

SPECIFICATION :

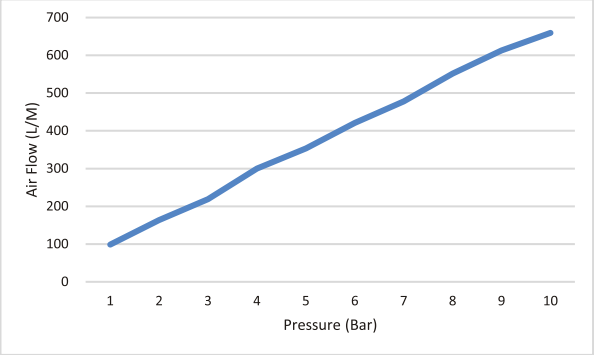
Part No. / Description	BC10
Minimum Input Pressure	73PSI / 5Bar / 0.5Mpa
MAX. Working Pressure	218PSI/ 15 Bar/ 1.5Mpa
Body Material	Aluminum alloy
HDPE Bottle Capacity	1000 ml
Air Inlet	1/4"
Temp Range	-5~+80°c (23~176°F)(Non frozen)
Air Consumption	225 L/M (6Bar)

FEATURES :

1. Exclusive Patent Rights 360° Rotating Vibration Cleaning
2. Aluminum body -Light and durable
3. Dust Removal Effectively
4. Deep Cleaning
5. Strong Wind

APPLICATIONS:

Detergent / alcohol can be used to do environment disinfection, vehicle, furniture, floor, or wall cleaning.



Turbo Power Foam Gun

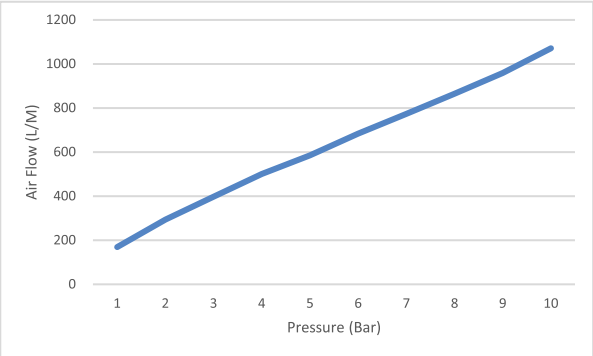
BC20

SPECIFICATION：

Part No. / Description	BC20
MAX.Working Pressure	218PSI / 15Bar / 1.5Mpa
Body Material	Aluminum alloy
HDPE Bottle Capacity	1000 ml
Air Inlet	1/4"
Temp Range	-5~+80°c(23~176℉) (Non frozen)
Air Consumption	260 L/M (6Bar)

FEATURES：

1. Aluminum body -Light and durable
2. With rich and fluffy foam, which can well cover the dirt to maximum the removal performance



APPLICATIONS:

1. The removal of automobile/scooter body dirt and stain
2. Professional automobile detailing
3. Buildings, wall bricks and wall dirt removed

BC30

Air Sand Blast Gun

SPECIFICATION：

Part No.	BC30
MAX.Working Pressure	232PSI / 16Bar / 1.6Mpa
Body Material	Aluminum alloy
Hose Size & Length	ID3/8" * 3M
Air Inlet	1/4"
Nozzle Material	STEEL
Temp Range	-5~+80℃(23~176℉) (Non frozen)
Air Consumption	270 L/M (6Bar)

FEATURES：

THB Air Sand Blaster Gun for removing
the burr, rust, scale and paint coating and
other surface cleaning and surface treatment work.

APPLICATIONS:

1. The removal of car body paint and rust
2. The removal of ship body paint and rust
3. Buildings, wall bricks and wall graffiti removed
4. General iron, stainless steel, industrial products, rust, paint, and polishing

CAUTION:

1. Always wear gloves, goggles, earmuffs and mask when spraying.
2. Connect the steel hose with PVC hose before applying to the body part.
3. Connecting to compressor with inlet plug of sand blast gun.
   Note: This tool is rated between 0.3Mpa to 1.6Mpa(44PSI to 232PSI).
   Ensure your compressor is set no less than 0.3Mpa(44 PSI).
4. Press the trigger to start blasting sand.

Air Power Spraying Engine Cleaning Gun

BC40 / BC41

BC40

BC41

BC42

SPECIFICATION：

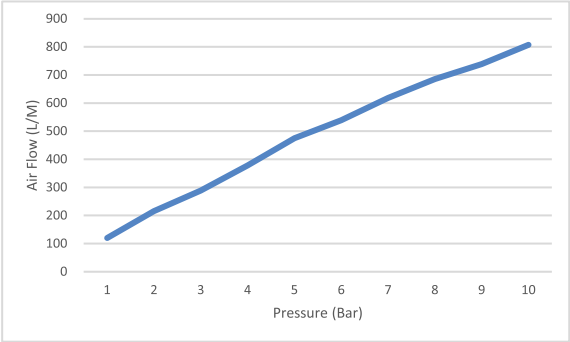
Part No. / Description	BC40	BC41	BC42
MAX.Working Pressure	232PSI / 16Bar / 1.6Mpa		
Body Material	Aluminum alloy		
Hose Size	5/8" (15.8mm)		
Steel Tube Length		6"(15CM)	36" (91.4 CM)
Port Size	1/4"		
Temp Range	-5~+80°c(23~176°F) (Non frozen)		
Air Consumption	270 L/M (6Bar)		

FEATURES：

1. Aluminum body -Light and durable
2. Water Conservation & Dirt Removal Effectively

APPLICATIONS:

1. The removal of automobile/ scooter body dirt and stain
2. Professional automobile detailing
3. Buildings, wall bricks and wall dirt removed



AIR TOOLS

BC50 & BC51

Air Power Spraying Engine Cleaning Gun

BC50

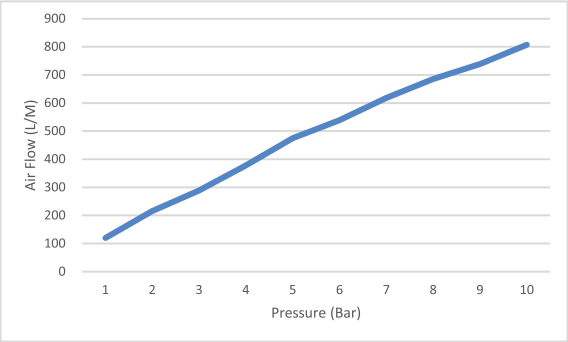
BC51

SPECIFICATION：

Part No. / Description	BC50	BC51
MAX.Working Pressure	232PSI / 16Bar / 1.6Mpa	
Body Material	Aluminum alloy	
HDPE Bottle Capacity	1000 ml	
Air Inlet	1/4"	
Temp Range	-5~+80°c(23~176°F) (Non frozen)	
Air Consumption	270 L/M (6Bar)	

FEATURES：

1. Aluminum body -Light and durable
2. Large capacity 1000 ml – fast and efficient
3. Can be used for both water and oil
4. Long nozzle can reach deep gap easily to clean dirt

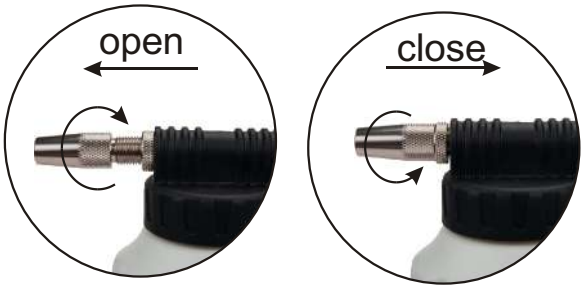


APPLICATIONS:

1. Factory and company cleaning oil pollution.
2. Buildings, wall bricks and wall dirt removed

Adjustable Soda Blaster

BC60



SPECIFICATION :

Part No.	BC60
MAX.Working Pressure	218PSI/15Bar/1.5MPa
Body Material	POM
HDPE Bottle Capacity	1000 ml
Air Inlet	1/4"
Temp Range	-5~60°c(23~140°F) (Non frozen)

FEATURES :

1. For removing the burr, rust, and paint coating on metal surface
2. Can use for cleaning, sand blaster and watering
3. Use control valve to adjust the powder output
4. Multiple materials can be used, ex baking soda, water, detergent, sand

APPLICATIONS:

Cleaning, removing of rust and gardening

B80F

Turbo Power Air Blower

TW Pat.M650077

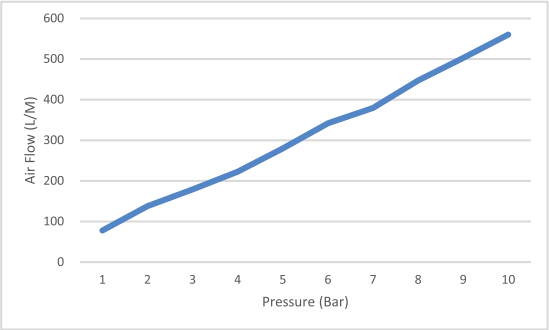
SPECIFICATION :

Part No.	B80F
Minimum Input Pressure	58PSI / 4Bar / 0.4Mpa
MAX. Working Pressure	174PSI/ 12 Bar/ 1.2Mpa
Body Material	PA6+30%GF
Noise Level	90PSI≤100dB
Air Inlet	1/4"
Temp Range	-15~60°c(5 ~ 140℉)
Air Consumption	175L/M (6 Bar)

Use with:1/4"Air tube

FEATURES :

1. The spiral air can be whirled and beaten to achieve a large-area cleaning effect and also to prevent rebound of scrap
2. Body with air control valve can adjust the cleaning intensity
3. Light and durable



APPLICATIONS:

1. Car interior cleaning
2. Motorcycle foot pad cleaning
3. Environment cleaning

Multi-function Cleaning Gun

B85

SPECIFICATION :

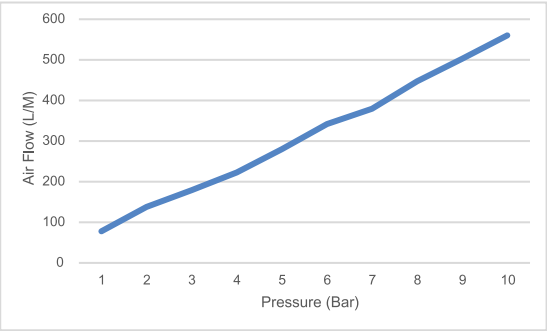
Part No.	B85
MAX. Working Pressure	232PSI / 16 Bar / 1.6Mpa
Material	Body: PA6+30%GF
	Bottle: HDPE (1000 ml)
Noise Level	90PSI ≤ 90dB
Air Inlet	1/4"
Temp Range	-5~+60℃(-23 ~140 ℉) (Non frozen)
Air Consumption	130L/M (6 Bar)

FEATURES :

1. Cleaning with four different methods - Foam gun mode/ Air blow gun mode/ Cleaning with tube/ Cleaning with bottle
2. High flow with great dirt removal performance
3. Adjust the foaming density & cleaning fluid concentration with flow control valve
4. Light and durable

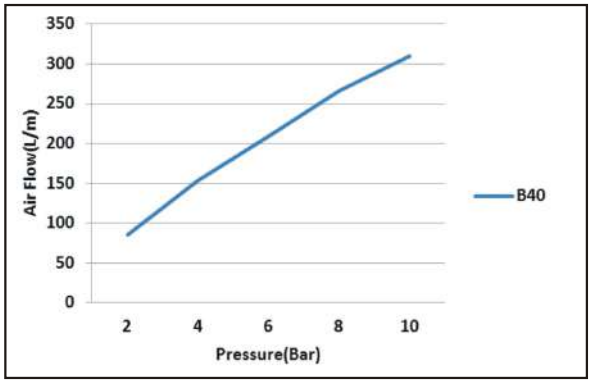
APPLICATIONS:

1. Professional automobile detailing
2. Home cleaning



SPECIFICATION :

Part No.	B40A
Max Working Pressure	225PSI / 16Bar / 1.6MPa
Body Material	Aluminum alloy
Air Consumption	70 L/M (6Bar)
PVC Hose Length	1.5M(59")



FEATURES :

1.Lightweight and easy to handle.
2.Using engine cleaning gun is a fast easy way to clean dirt, grease, and grime.etc.
3.An essential tool for truckers, shops and garages.
4.Can be used with a variety of solvents.

APPLICATIONS:

1.Engine cleaning
2.Washing automobiles
3.Spray paint
4.Washing fences and home

DIGITAL TIRE INFLATOR

TW Pat.M554139
P.R.C. Patent NO.CN201721244823.4
CE NO.OP180803.HBEDO47
CE NO.OP190927.HBECQ01

BG40

BG42

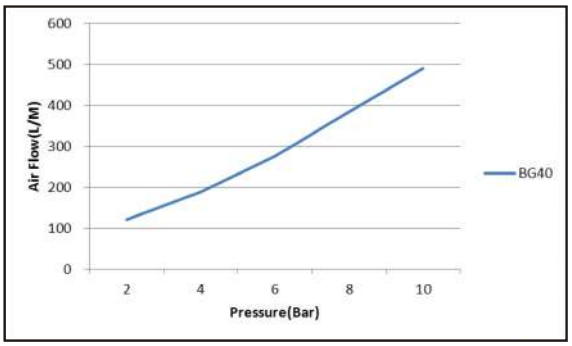
BG41

SPECIFICATION :

Description / Type	BG40-60	BG40	BG42	BG41
Scale	60 PSI (4.14 Bar / 414 Kpa)	200 PSI (13.8 Bar / 999 Kpa)		
		999 Kpa		
Accuracy	+/- 2% F.S.+/-1digit			
Hose Length	30cm			85cm
Dimensions	200L*65W*100H mm			
Supply Pressure Max.	232 PSI / 16 Bar / 1600 Kpa			
Supply Voltage	DC 3V (CR2032)			
Working Temperature	-10 ~ + 60 °C (14 ~ 140 °F)			
Air Flow	275 L/M (6Bar)			

FEATURES :

1. Easy to use
2. If the tire pressure is over 3PSI, it will automatically turn on.
3. Automatically shut down after 180 seconds working time.
4. Large easy to read LCD display.
5. PSI, Bar and Kpa-3kinds of measurement range.
6. BG42 with American and British air chuck.



3 FUNCTION TIRE INFLATOR

CE NO.OPv230327.HBEUT85
NO.09230829.HBEQS86

B20

B24A

B25A

SPECIFICATION :

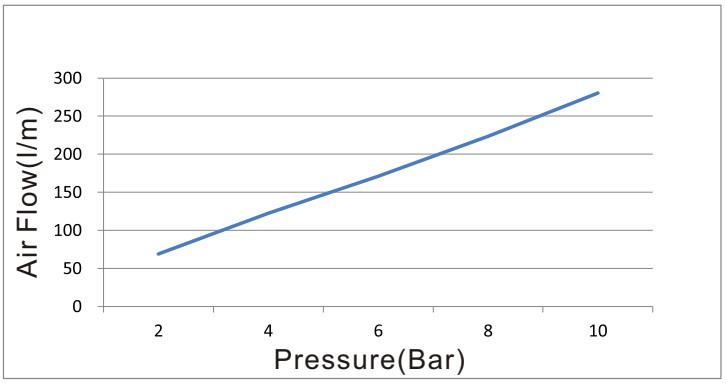
Description / Type	B20	B20A-60PSI	B24A	B25A
Port Size	1/4”			
Supply Pressure Max.	232PSI / 16Bar / 1.6MPa			
Measure Pressure Max.	218PSI / 15Bar / 1.5MPa			
Body Material	Aluminum alloy			
Temp Range	-20˚C～ +80˚C (-4˚F～176˚F)			
Hose Length	30cm		85cm	85cm
Pressure Gauge	2’’		2.5’’	3.5’’
Accuracy	+/- 2% F.S.			
Air Flow	390 L/M (6Bar)			

FEATURES :

1.Measure precisely the tire pressure.
2.Release unnecessary pressure.
3. Tire chuck can be changed easily.
(Optional clamp chuck 6" dual chuck & 12" dual chuck.)
4.Hose swivel connects the tire maneuverability.
5.Inflate the air into the tire.

APPLICATIONS:

1.Truck
2.Car
3.Motorcycle
4.Bicycle Tire
5.Inflating Toys



3 FUNCTION TIRE INFLATOR

BG30 | B50 | B51 | B54A

CE NO.OPv220906.HBEQT14

CE NO.OPv230103.HBE0030

TW Pat.M571804

SPECIFICATION :

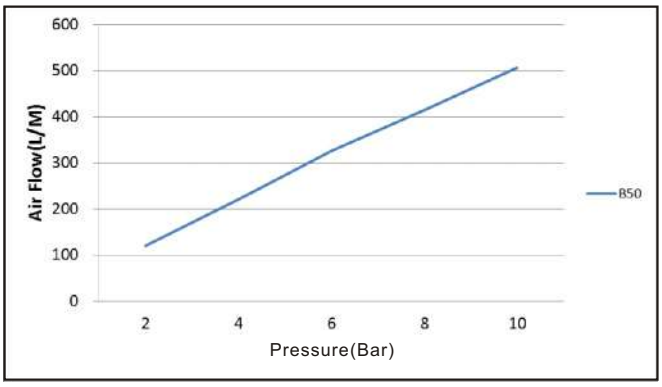
Description / Type	BG30	B50	B51	B54A
Port Size	1/4”			
Supply Pressure Max.	232PSI / 16Bar / 1.6Mpa			
Measure Pressure Max.	218PSI / 15Bar / 1.5MPa			
Temp Range	-20˚C～ +80˚C (-4˚F～176˚F)			
Hose Length	30cm			
Pressure Gauge	2’’			
Accuracy	F.S. +/-1%			

FEATURES :

1.Measure precisely the tire pressure.
2.Release unnecessary pressure.
3.Tire chuck can be changed easily.
(Optional clamp chuck 6" dual chuck & 12" dual chuck.)
4.Hose swivel connects the tire maneuverability.
5.Inflate the air into the tire.

APPLICATIONS:

1.Truck
2.Car
3.Motorcycle
4.Bicycle Tire
5.Inflating Toys



Part No.	Air Tool Accessories	Part No.	Air Tool Accessories
B21	6" Dual Chuck	B23	12" Air Chuck 3/8" hose size:10x14mm Max pressure:15Bar/230PSI/1.5Mpa
B29	8" Dual Chuck (Normally Closed)	B233-AS1	Ball Foot Chuck with 3/8" Hose Barb
B22	12" Dual Chuck (Normally Closed)	B23-AS3	Ball Foot Chuck 1/4" Female NPS
B22A	12" Straight Dual Chuck (ISO 3894:2015 Method Support) (Normally Closed)	B23-AS4	Ball Foot Chuck with 1/4" Japanese plug
B26	Tire Gauge	B50-AS1	Air Chuck
B27	Tire Pressure Gauge 60PSI (2")	B50-AS2	Air Chuck with 1/4" Hose Barb
B28-21	6" Dual Chuck + 2" Gauge	B2A	American type British type Air Chuck
B28-22A	12" Dual Chuck + 2" Gauge	B2A-S10	American type British type Air Chuck with 1/4" Japanese plug
B2B	Air Chuck		France type American type British type

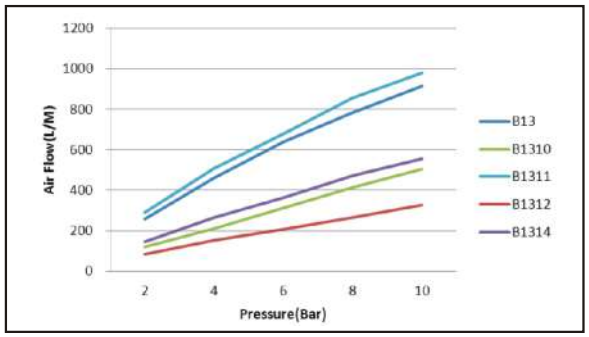
CE NO.OPv221111.HBECC38

B12 B13 B3A B3B B3C

B13-11 B33 B33-11

SPECIFICATION :

Part No.	Color	Nozzle(O.D)	Steel Tube Length(CM)/(inch)
B12	Red	6mm	10(4")
B30			27(10.6")
B13	Blue	8mm	10(4")
B33			27(10.6")
B31			38(15")
B34			48(18.9")
B32			76(30")
B39			100(39.4")
B13-11			10(4")
B33-11			27(10.6")



FEATURES :

1.With or without metal reinforced inlet
2.Light weight and easy operation
3.Body Material: POM
4.Port Size:1/4"(PT,NPT,G)
5.Max. Pressure:225PSI/15Bar/1.5MPa

B13-10

Universal Inflating For Bicycles (OSHA)

B13-12

Low Noise Level Air Blow (OSHA)

B13-14

Safety Air Blow (OSHA)

B13-13

Inflating Air Blow

B13-15

Rubber Nozzle AirBlow

B35

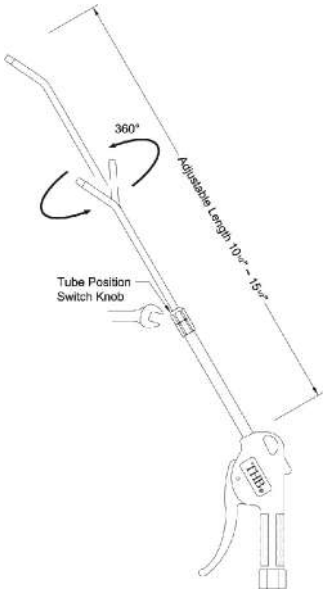
Extensible & Swivel-angle Blow

SPECIFICATION :

Part No.	Color	Steel Tube (O.D.)	Steel Tube Length(CM)/(inch)
B13-15	Blue	8mm	10(4")
B31-15			38(15")
B38-15			91(35.8")
B3A			25(9.8")
B3B			48(18.9")
B3C			100(39.4")
B13-10,12,13,14,15			8(3.1")
B33-10,12,13,14,15			25(9.8")
B34-10,12,13,14,15			47(18.5")

B35 Extensible & Swivel-angle Blow

- Extensible Tube --
  Twist the adjustable knob and lengthen the tube.
- Revolvable Angle --
  Tube can rotate to 360 degree freely and be stopped by locking the knob at required direction for easily dusting and cleaning.
- Inlet With Metal Reinforcement.
- Application For Cleaning Machinery and Equipment.
- Adjustable from 10.63"(270mm) to 15.35"(390mm)



B13-KIT14-THB

FEATURES：

1. Bundle with air tools or air compressor unit as gift set to add value
2. Port size: 1/4" (PT,NPT,G)
3. Max. Pressure: 175Psi (12Bar/ 1.2Mpa)
4. Contents:

(1) 12" Extension tip (OSHA)	
(2) B0832-AS1	Φ0.134"X 2-3/4"(Φ3.4X70mm)Needle Tip
(3) B0831-AS1	Φ0.095"X 2-15/32"(Φ2.4 X63mm)Needle Tip
(4) B0830-AS1	Φ0.072"X 1-3/4"(Φ1.8X45mm)Needle Tip
(5) B0829-AS1	Φ0.050"X 1-3/16"(Φ1.26X30mm)Needle Tip
(6) B0828-AS1	Φ0.040" Needle Tip
(7) B08-AS1-03	Φ0.040"X15/16"(Φ1.0X24mm)Needle Tip
(8) 20PMA-09	1/4" Male Plug
(9) B08-AS2	Tire Inflator
(10) BG0131	Safety booster Tip (OSHA)
(11) B0814	Safety tip (OSHA)
(12) B0822	Standard Tip
(13) B0822-AS1	Rubber Tip
(14) 1/4" (PT,NPT,G) Air blow gun	

TW Pat.M439517
US Patent NO.US8844845

B80S

B80

B80H

B80E

B81

SPECIFICATION :

Part No.	Port Size	Steel Tube Length	Steel Tube (O.D.)	Max Pressure
B80S	1/4" (PT,NPT,G)	5 CM (2")	Φ8mm	232PSI (16 Bar/1.6Mpa)
B80		10 CM (4")		
B80H		10 CM (4")		
B80E		10 CM (4")		
B81		36 CM(14")		
B84A/B/C		10 CM (4")		

FEATURES :

1. Can adjust the air flow from the adjustable screw on the body.
2. B80 /B81 Meets or exceeds OSHA regulations.
3. Nylon body for high impact, durability and weather resistance.

ADJUSTABLE HIGH FLOW AIR BLOWER

B80A

Low Noise Level
Air Blow (OSHA)

B80B

Centralized Nozzle
Air Blow (OSHA)

B80C

High Flow Nozzle
Air Blow (OSHA)

B84A

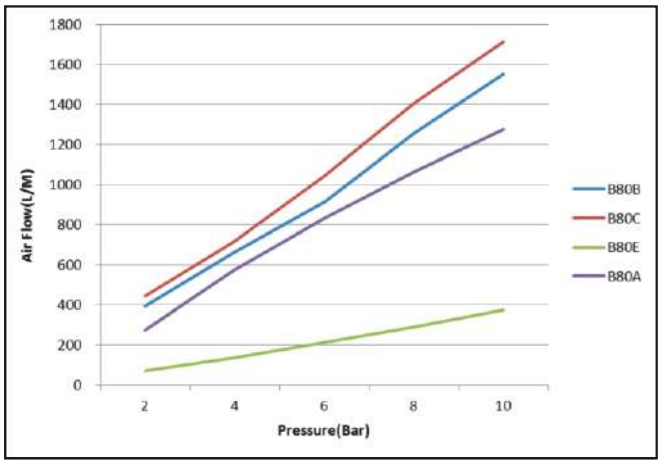
Low Noise Level
Air Blow (OSHA)

B84B

Centralized Nozzle
Air Blow (OSHA)

B84C

High Flow Nozzle
Air Blow (OSHA)



TW Pat.M461488
P.R.C. Patent NO.CN201320028497.9
CE NO.OPv221111.HBECC39

B90 B91 B92

B93

B90E

SPECIFICATION :

Part No.	Port Size	Steel Tube Length	Steel Tube (O.D.)	Max Pressure
B90	1/4" (PT,NPT,G)	5CM(2")	Φ8mm	213PSI (15Bar/1.5Mpa)
B91		25CM(9.8")		
B92		48CM(18.9")		
B93		12CM(4.7")		
B90E		10CM(4")		

FEATURES :

1. With metal reinforced inlet.
2. Light weight and durable.
3. High flow: The flow is higher than THB standard air blower >1200L/M@150PSI
4. Long life time: It is up-down type vavle structure design and it can reduce the wear of spring. Therefore, the life time can be longer.

HIGH FLOW AIR BLOWER

B90C-07

Low Noise Level
Air Blow (OSHA)

B90C-12

Centralized Nozzle
Air Blow (OSHA)

B90C-14

Adjustable Nozzle
Air Blow (OSHA)

B90C-20

High Flow Nozzle
Air Blow (OSHA)

B90B-24

3 Inch Nylon Tip
Air Blow

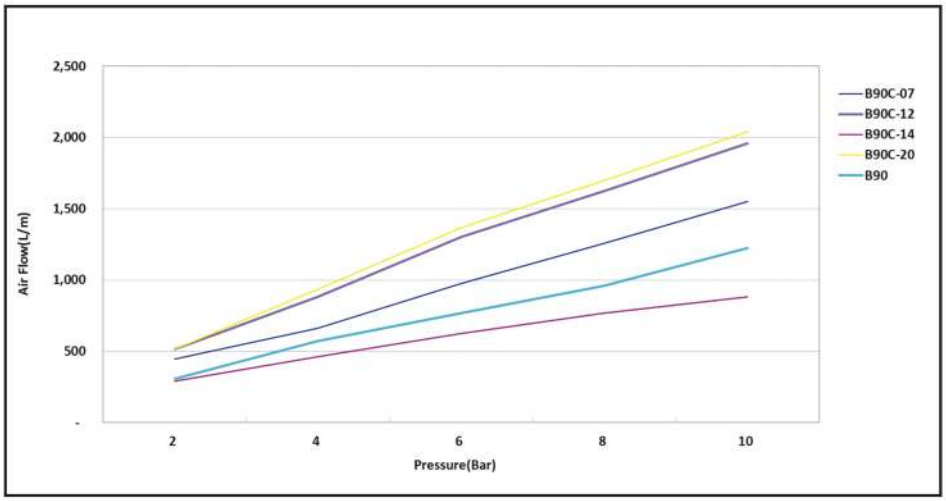
B90B-25

Safety Booster Tip
Air Blow (OSHA)

B90B-26

Air Screen Tip
Air Blow

B90B-27



CE NO.OPv230103.HBE0031

B61

B60

B60L AS1 Low Noise Nozzle

B60-AS1 Noise Reduction Nozzle

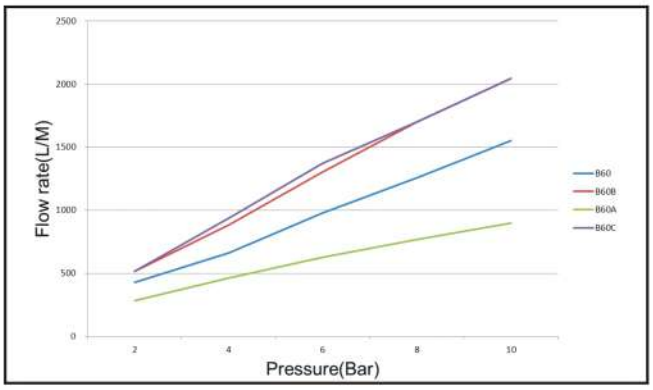
B60A-AS1 Adjustable Nozzle

B6012 Centralized Nozzle

B6020 High Flow Nozzle

SPECIFICATION :

Part No.	Port Size	Steel Tube Length	Max Working Pressure
B60	3/8" (PT,NPT,G)		16 Bar (232PSI/1.6MPa)
B61		25CM(10")	
B62		91CM(36")	
B63		121CM(48")	
B64		15CM(6")	
B60N12		30CM(12")	
B60N18		45CM(18")	
B60N24		61CM(24")	



FEATURES :

1.Different length nozzles for different purpose.
2.Aluminum body: light weight and durable.
3.Maximum flow for easy clean-up and blow off of even the heaviest shavings and chips.
4.Meets or exceeds OSHA regulations.

HIGH FLOW AIR BLOWER

B60

Noise Reduction Nozzle
Air Blow (OSHA)

B60A

Adjustable Nozzle
Air Blow (OSHA)

B60B

Centralized Nozzle
Air Blow (OSHA)

B60C

High Flow Nozzle
Air Blow (OSHA)

B62

High Flow Extension Air Blow

TW Pat.D175011
CE NO.OPv220906.HBEQT13

BG20

SPECIFICATION :

Description \ Type	BG20HA	BG20	BG20A	BG20B	BG20C	BG21
Air Inlet	1/4" G					
Max.Working Pressure	363PSI / 25Bar / 2.5MPa					
Body Material	Aluminum alloy					
OSHA STD 1-13.1(MAX30PSI)	< 30 PSI out					
Steel Tube Length						10CM(4 ")

FEATURES :

1. Aluminum body for light weight and durable.
2. Various nozzles are available
3. 25 bar high pressure type for superior efficiency and lower air consumption.
4. Upper or Lower Inlet port design
5. Meets OSHA regulations.

BG20

Centralized Nozzle
Air Blow (OSHA)

BG20A

Adjustable Nozzle
Air Blow (OSHA)

BG20B

Low Noise Level
Air Blow (OSHA)

BG20C

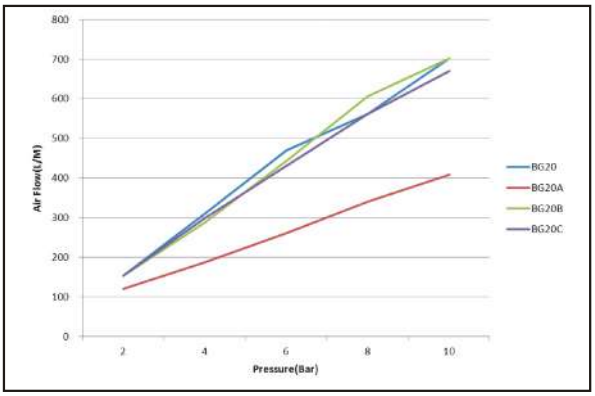
High Flow Nozzle
Air Blow (OSHA)

BG21

Rubber Nozzle
Air Blow

BG22

Adjustable Nozzle + Rubber Nozzle
+ Safety Nozzle Air Blow Set



AIR BLOWERS

BG01-13
Inflating Air Blow

BG01-14
Safety Air Blow (OSHA)

BG01-22
Rubber Tip Air Blow

BG01-25
Brass Tip Air Blow

BG01-27
Tamperproof Nozzle
Safety Air Blow (OSHA)

BG01-29
High Volume Safety
Air Blow (OSHA)

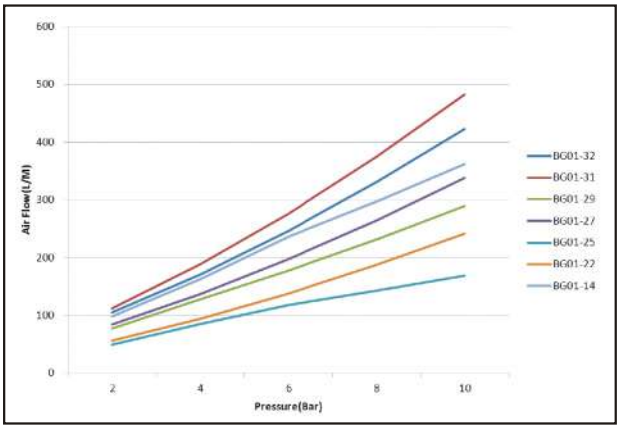
BG01-31
Safety Booster
Air Blow (OSHA)

BG01-32
High Flow Safety
Air Blow (OSHA)

Air Intake Thread : 1/4"(PT,NPT)
Maximum Pressure : 200 PSI / 14Bar / 1.4MPa

SPECIFICATION :

1.Various tips and extensions provide diversified functions.
2.Completed nozzle range for more options.
3.Meets or exceeds OSHA regulatoins.



B08

B08-60

B0822-A-Rubber Tip

B0814-Safety Nozzle

B0822-AS1-Rubber Tip

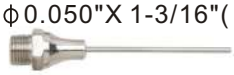
B0821-Adapters

B0813-Inflation Needle

B0820-Tapered Inflator

B0828-AS1-Needle Tip
ϕ0.040"X15/16"(ϕ1.0X24mm)

B0829-AS1-Needle Tip
ϕ0.050"X 1-3/16"(ϕ1.26X30mm)



B0830-AS1-Needle Tip
ϕ0.072"X 1-3/4"(ϕ1.8X45mm)

B0831-AS1-Needle Tip
ϕ0.095"X 2-15/32"(ϕ2.4 X63mm)

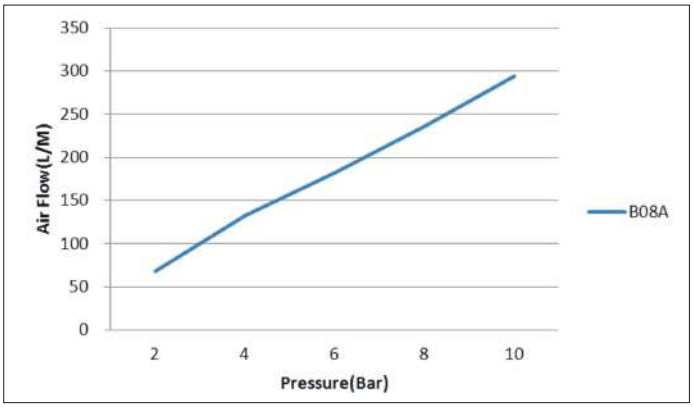
B0832-AS1-Needle Tip
ϕ0.134"X 2-3/4"(ϕ3.4X70mm)

SPECIFICATION :

Part No.	Air Inlet (PT.NPT.G)	Nozzle Length(CM)	Max Pressure
B08	1/4”	With different type nozzle	200PSI (14Bar/1.4MPa)
B08-60		60CM(23.6")	
B08-120		120CM(47")	
B08-12		12CM(4.7")	

FEATURES :

1.Various tips and extensions provide diversified functions.
2.Completed nozzle range for more options.
3.Meets or exceeds OSHA regulations.



B08 Series

BG01 Series

BG20 Series

B90 Series

SPECIFICATION :

Part No.	Nozzle Length(CM)	Max Pressure	Air Inlet (PT.NPT.G)
B08-28A	ϕ0.040"X15/16"(ϕ1.0X24mm)	200PSI (14Bar/1.4MPa)	1/4"
B08-29A	ϕ0.050"X 1-3/16"(ϕ1.26X30mm)		
B08-30A	ϕ0.072"X 1-3/4"(ϕ1.8X45mm)		
B08-31A	ϕ0.095"X 2-15/32"(ϕ2.4 X63mm)		
B08-32A	ϕ0.134"X 2-3/4"(ϕ3.4X70mm)		
BG01-28A	ϕ0.040"X15/16"(ϕ1.0X24mm)		
BG01-29A	ϕ0.050"X 1-3/16"(ϕ1.26X30mm)		
BG01-30A	ϕ0.072"X 1-3/4"(ϕ1.8X45mm)		
BG01-31A	ϕ0.095"X 2-15/32"(ϕ2.4 X63mm)		
BG01-32A	ϕ0.134"X 2-3/4"(ϕ3.4X70mm)		
BG20-28A	ϕ0.040"X15/16"(ϕ1.0X24mm)	363PSI (25Bar/2.5MPa)	
BG20-29A	ϕ0.050"X 1-3/16"(ϕ1.26X30mm)		
BG20-30A	ϕ0.072"X 1-3/4"(ϕ1.8X45mm)		
BG20-31A	ϕ0.095"X 2-15/32"(ϕ2.4 X63mm)		
BG20-32A	ϕ0.134"X 2-3/4"(ϕ3.4X70mm)		
B90-28A	ϕ0.040"X15/16"(ϕ1.0X24mm)	213PSI (15BAR/1.5MPa)	
B90-29A	ϕ0.050"X1-3/16"(ϕ1.26X30mm)		
B90-30A	ϕ0.072"X1-3/4"(ϕ1.8X45mm)		
B90-31A	ϕ0.095"X2-15/32"(ϕ2.4X63mm)		
B90-32A	ϕ0.134"X2-3/4"(ϕ3.4X70mm)		

AIR BLOWERS

Low Noise Nozzle
Level of noise below 85dB(A) at 90PSI

B8021(Optional)

B8020(Optional)
(OSHA)

BG21L

B80EL

B60EL

B90EL

B60L
(OSHA)

B13-22L

B70-S25
Industrial Type

B70-S31
Europe Type

B70-S10
Japanese Type

B70-S22
Aro Type

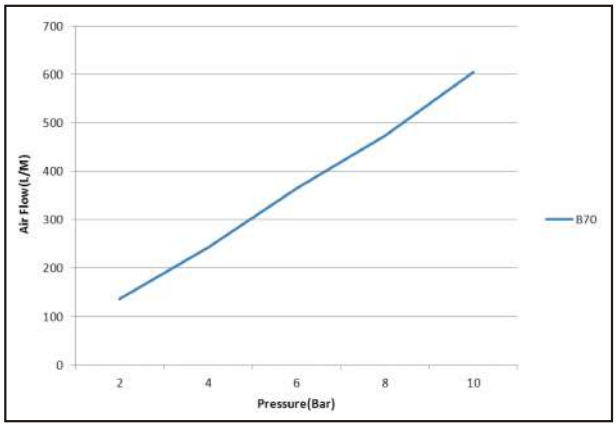
B70-S21
Truflate Type

SPECIFICATION :

Body Material	Aluminum
Max Input Pressure	150PSI / 10Bar / 1MPa
Max Output Pressure	90PSI / 6.2Bar / 0.62MPa
Max Input Air Flow	450 L/m @10 Bar
Temp. Range	-20℃～ +80℃ (-4℉～176℉)

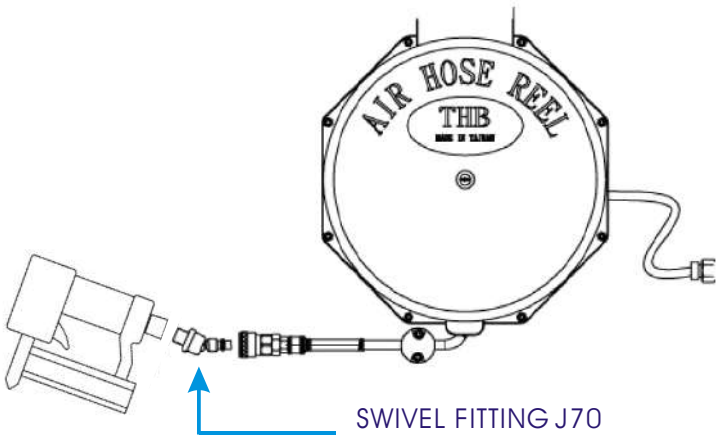
FEATURES :

1.Light weight and easy operation.
2.Pencil style design - easily carrying.



SWIVEL FITTING

Swivel Fitting	Part No.	Description
	J702	1/4" Japanese Type Plug + 1/4" PT Male
	J703	1/4" Japanese Type Plug + 3/8" PT Male
	J702N	1/4" Industrial Type Plug + 1/4" NPT Male
	J703N	1/4" Industrial Type Plug + 3/8" NPT Male
	J702G	1/4" Europe Type Plug + 1/4" G Male
	J703G	1/4" Europe Type Plug + 3/8" G Male
	J702NF	1/4" NPT Female + 1/4" NPT Male
	J702F	1/4" PT Female + 1/4" PT Male
	J712	1/4" Japanese Type Plug + 1/4" PT Female
	J713	1/4" Japanese Type Plug + 3/8" PT Female
	J712G	1/4" Europe Type Plug + 1/4" G Female
	J713G	1/4" Europe Type Plug + 3/8" G Female
Working Pressure	175PSI(12Bar/1.2MPa)	
Max Pressure	218PSI(15Bar/1.5MPa)	
Material	Steel	



SWIVEL FITTING J70

The ball swivel function can make it rotate to any direction.
It is lightwieght and durable.
Variety fitting types for different application.

Safety Fitting	Part No.	Size	Description
	VP20PH	1/4"	Japanese Type Hose Purge Plug
	VP25PH	5/16”	
	VP30PH	3/8”	
	VP40PH	1 /2"	
	VP30PM	3/8"PT	Japanese Type Male Purge Plug
	VP20PH-S31	1/4"	European Type Hose Purge Plug
	VP25PH-S31	5/16”	
	VP30PH-S31	3/8”	
	VP40PH-S31	1 /2"	
	VP20PM-S31	1/4"	European Type Male Purge Plug
	VP30PM-S31	3/8"	
Working Pressure	218PSI(15Bar/1.5MPa)		
Max Pressure	290PSI(20Bar/2MPa)		
Material	Steel		

FEATURES :

1.The unique pressure release design can release remain pressure quietly and safely.

2.No rebound.

3.Low noise level.

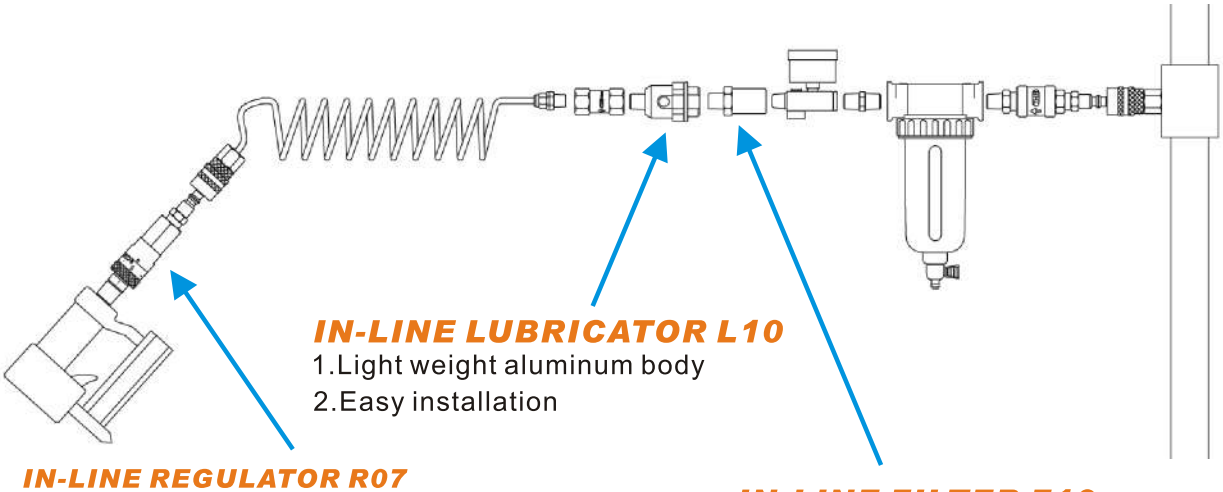
AIR FLOW VALVE & CONNECTOR

Air Flow Valve & Connector	Part No.	Description	Size
	V502	Air Flow Valve Max pressures 230PSI(15Bar/1.5Mpa)	1/4" PT
	V502G		1/4" G
	V502N		1/4" NPT
	V512	Air Flow Valve With Gauge Max pressures 230PSI(15Bar/1.5Mpa)	1/4" PT
	V512N		1/4" NPT
	V52-20PMA	Air Flow Valve With Japanese Type Plug Max pressures 230PSI(15Bar/1.5Mpa)	1/4" PT Male
	V52-20PFA	Air Flow Valve With Japanese Type Plug Max pressures 230PSI(15Bar/1.5Mpa)	1/4" PT Female
	V202	Swivel Connector Max pressures 150PSI(10Bar/1Mpa)	1/4" PT
	V202N		1/4" NPT
	V213		3/8" PT
	V213N		3/8" NPT
	V222		1/4" PT

IN-LINE F.R.L

TW Pat.M514530(R07)
TW Pat.M437406(RA07)

IN-LINE F.R.L	Part No.	Description	Size
	F102	In-Line Filter Max pressure 300PSI(21Bar/2.1MPa) Filter Element: 40u	1/4” PT
	F102N		1/4” NPT
	F103		3/8” PT
	F103N		3/8” NPT
	R072-43	Preset In-Line Regulator Input Max Pressure:16 Bar Output Pressure: 43PSI(3BAR),87PSI(6BAR), 94PSI(6.5BAR),116PSI(8BAR)	1/4” PT/NPT/G
	R072-87		
	R072-94		
	R072-116		
	RA072-3	Adjustable In-Line Regulator Input Pressure: 10Bar Output Pressure: 1 ~ 3 Bar(14 ~ 43psi), 3 ~ 6 Bar(43 ~ 87psi), 5 ~ 8 Bar(72 ~ 116psi)	1/4"PS Male + 1/4"NPS Female
	RA072-6		
	RA072-8		
	L102	In-Line Lubricator Max Pressure 150PSI(10Bar/1MPa) The Capacity of oil can: 5.5 c.c.	1/4" PT / NPT / G



IN-LINE LUBRICATOR L10

1.Light weight aluminum body
2.Easy installation

IN-LINE REGULATOR R07

1.Ensure optimal air tool efficiency by suppling a constant pre-set pressure to the tool.
2.Light weight, small and compact size.
3.Increase tool service life.

IN-LINE FILTER F10

1.It can be connected with air tools directly. Easy installation.
2.Light weight aluminum body.

ADJUSTABLE IN-LINE REGULATOR RA07

1.User can adjust the output pressure for variety application.
2.Light weight, compact size.
3.Increase air tool life time.

PU HOSE
(Polyurethane / Polyether)

STRAIGHT PU HOSE：

PU Tube(Ester Base) Model:HUS
PU Tube(Ether Base) Model:HUE

Metric Units

Part No.	I.D (mm)	O.D (mm)	Length	Temperature	Working Pressure at 23°C(73.4°F)	Bursting Pressure 23℃(73.4℉)	Bend radius (mm)
HUS2504	2.5	4	200M	-20°C ~ 60°C (-5°F ~ +140°F)	150PSI (10Bar/1MPa)	450PSI (31Bar/3.1Mpa)	10
HUE2504							
HUS0406	4	6	200M				20
HUE0406							
HUS0508	5	8	100M				30
HUE0508							
HUS6510	6.5	10	100M				35
HUE6510							
HUS0812	8	12	100M		135PSI (9Bar/0.9MPa)	400PSI (27.5Bar/2.75Mpa)	40
HUE0812							
HUS95135	9.5	13.5	50M		100PSI (7Bar/0.7MPa)	300PSI (20.7Bar/2.07Mpa)	45
HUE95135							
HUS1014	10	14	50M				50
HUE1014							
HUS1116	11	16	50M		135PSI (9Bar/0.9MPa)	400PSI (27.5Bar/2.75Mpa)	50
HUE1116							
HUS1319	13	19	50M		100PSI (7Bar/0.7MPa)	300PSI (20.7Bar/2.07Mpa)	60
HUE1319							

Imperial Units

Part No.	O.D (inch)	I.D (inch)	Length	Temperature	Working Pressure at 23°C(73.4°F)	Bursting Pressure 23℃(73.4℉)	Bend radius (inch)
HUS104160	1/4"	0.16"	100M	-20°C ~ 60°C (-5°F ~ +140°F)	150PSI (10Bar/1MPa)	450PSI (31Bar/3.1Mpa)	1/2
HUE104160							
HUS516187	5/16"	0.187"	100M		135PSI (9Bar/0.9MPa)	400PSI (27.5Bar/2.75Mpa)	1/2
HUE516187							
HUS308250	3/8"	0.25"	50M				1
HUE308250							
HUS102320	1/ 2"	0.32"	50M				1-1/8
HUE102320							
HUS916375	9/16"	0.375"	50M				2
HUE916375							

1.ESTER base is less expensive and generally stronger with higher tensile strength.
2.ETHER base will not break down or be affected in any way of moisture,more flexible at low temperature.
3. Standard Color: ● RD ● OR ● YL ● GN ● BS ● BK ○ CL

FEATURES：

1. Super mechanical strength and excellent abrasive resistance
2. Superior heat and cold resistance
3. Oil resistance
4. Light weight
5. Could accept custom-made (Packing, or Length and can connect with different fitting or coupler.)
6. Meet the international norms : ISO 14743 , ISO 14746

RECOIL PU HOSE :

Metric Units

Part No.	I.D (mm)	O.D (mm)	Length	Temperature	Working Pressure at 23°C(73.4°F)
HUR2504	2.5	4	5M 10M 15M	-20°C~ 60°C (-5°F~ +140°F)	150PSI (10Bar/1MPa)
HUR0406	4	6			
HUR0508	5	8			
HUR6510	6.5	10			
HUR0812	8	12			135PSI(9Bar/0.9MPa)
HUR95135	9.5	13.5			100PSI (7Bar/0.7MPa)
HUR1014	10	14			
HUR1216	12	16			
HUR1319	13	19			

Imperial Units

Part No.	O.D(inch)	I.D(inch)	Length(FT)	Temperature	Working Pressure at 23°C(73.4°F)
HUR104160	1/4"	0.16"	15/25/50	-20°C~ 60°C (-5°F~ +140°F)	150PSI(10Bar/1MPa)
HUR516187	5/16"	0.187"	15/25/50		135PSI (9Bar/0.9MPa)
HUR308250	3/8"	0.25"	15/25/50		
HUR102320	1/ 2"	0.32"	15/25/50		
HUR916375	9/16"	0.375"	15/25/50		

Standard Color : ●RD ●OR ●YL ●GN ●BS ●BK ○CL

FEATURES :

1. Super mechanical strength and excellent abrasive resistance
2. Superior heat and cold resistance
3. Oil resistance
4. Light weight
5. Could accept custom-made
6. Meet the international norms : ISO / TS 11619

PU BRAID AIR HOSE

Metric Units

Part No.	I.D (mm)	O.D (mm)	Length	Temperature	Working Pressure at 23˚C(73.4˚F)	Bursting Pressure 23℃(73.4℉)	Bend radius (mm)
HUB0508	5	8	100M	-20˚C~ 60˚C (-5˚F~ +140˚F)	175PSI(12Bar/1.2MPa)	700PSI(48Bar/4.8Mpa)	30
HUB6510	6.5	10	100M		200PSI (14Bar/1.4MPa)	800PSI (55Bar/5.5Mpa)	35
HUB0812	8	12	100M				40
HUB95135	9.5	13.5	50M				45
HUB1014	10	14	50M				50
HUB1116	11	16	50M				50
HUB1318	13	18	50M				60

Imperial Units

Part No.	O.D (inch)	I.D (inch)	Length (M)	Temperature	Working Pressure at 23˚C(73.4˚F)	Bursting Pressure 23℃(73.4℉)	Bend radius (inch)
HUB516187	5/16	0.187	100	-20˚C~ 60˚C (-5˚F~ +140˚F)	200PSI (14Bar/1.4MPa)	800PSI (55Bar/5.5Mpa)	1/2
HUB308250	3/8	0.25	100				1
HUB102320	1/2	0.32	100				1-1/8
HUB916375	9/16	0.375	50/100				2
HUB4564500	45/64	0.5	50				2.4

FEATURES：

1. Lighter weight
2. High flexibility even under 0˚C
3. High durability
4. Could accept custom-made
   (Packing, or Length and can connect with different fitting or coupler.)
5. Meet the international norms : ISO 11619

RECOIL PU BRAID AIR HOSE

Metric Units

Part No.	I.D(mm)	O.D(mm)	Length(M)	Temperature	Working Pressure at 23°C(73.4°F)
HUBR0508	5	8	5/10/15	-20°C~ 60°C (-5°F~+140°F)	175PSI(12Bar/1.2MPa)
HUBR6510	6.5	10			200PSI (14Bar/1.4MPa)
HUBR0812	8	12			
HUBR95135	9.5	13.5			
HUBR1014	10	14			
HUBR1116	11	16			

Imperial Units

Part No.	O.D(inch)	I.D(inch)	Length(FT)	Temperature	Working Pressure at 23°C(73.4°F)
HUBR516187	5/16"	0.187	15/20/50	-20°C~ 60°C (-5°F~ +140°F)	200PSI (14Bar/1.4MPa)
HUBR308250	3/8"	0.25			
HUBR102320	1/2"	0.32			
HUBR916375	9/16"	0.375			

FEATURES：

1. Lighter weight
2. High flexibility even under 0°C
3. High durability
4. Could accept custom-made
   (Packing, or length and can connect with different fitting or coupler)

STRAIGHT PU/PU TWIN HOSE

Part No.	I.D(mm)	O.D(mm)	Length(M)	Temperature	Working Pressure
HUM2504	2.5	4	100	-20˚C~ 60˚C (-5˚F~ +140˚F)	150PSI (10Bar/1MPa)
HUM0406	4	6	100		
HUM0508	5	8	50		
HUM6510	6.5	10	50		
HUM0812	8	12	50		135PSI(9Bar/0.9MPa)

STRAIGHT PU/PU BRAID TWIN HOSE

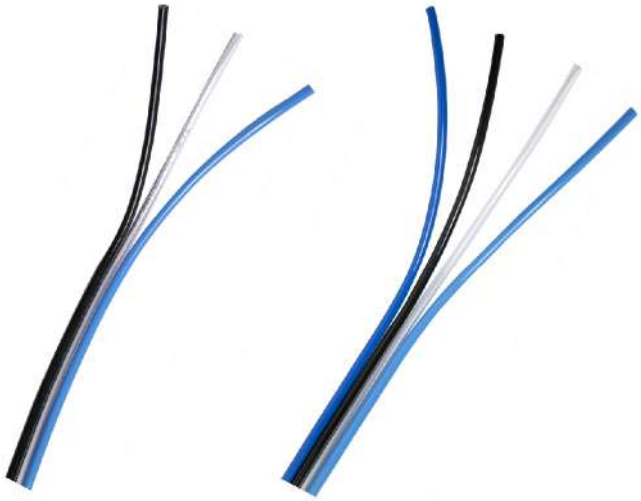
Part No.	I.D(mm)	O.D(mm)	Length(M)	Temperature	Working Pressure
HBM0508	5	8	50	-20˚C~ 60˚C (-5˚F~ +140˚F)	150PSI (10Bar/1MPa)
HBM6510	6.5	10	50		
HBM0812	8	12	50		135PSI(9Bar/0.9MPa)

STRAIGHT PU BRAID/PU BRAID TWIN HOSE

Part No.	I.D(mm)	O.D(mm)	Length(M)	Temperature	Working Pressure
HBBM0508	5	8	50	-20˚C~ 60˚C (-5˚F~ +140˚F)	200 PSI (14Bar/1.4MPa)
HBBM6510	6.5	10	50		
HBBM0812	8	12	50		

FEATURES :

1. Different size & colors are available
2. PU braid hose for high pressure air, PU air hose for water based paint
3. Uniweld hose can save space and prevent knot issue
4. Twin hose can be identified and managed easily
5. Meet the international norms : ISO 14743



RECOIL PU/PU TWIN HOSE

Part No.	I.D(mm)	O.D(mm)	Length(M)	Temperature	Working Pressure
HUMR2504	2.5	4	5	-20˚C~ 60˚C (-5˚F~ +140˚F)	150PSI (10Bar/1MPa)
HUMR0406	4	6	5		
HUMR0508	5	8	5		
HUMR6510	6.5	10	10		
HUMR0812	8	12	15		135PSI(9Bar/0.9MPa)

RECOIL PU/PU BRAID TWIN HOSE

Part No.	I.D(mm)	O.D(mm)	Length(M)	Temperature	Working Pressure
HBMR2504	2.5	4	5 10 15	-20˚C~ 60˚C (-5˚F~ +140˚F)	150PSI (10Bar/1MPa)
HBMR0406	4	6			
HBMR0508	5	8			
HBMR6510	6.5	10			
HBMR0812	8	12			135PSI(9Bar/0.9MPa)

RECOIL PU BRAID/PU BRAID TWIN HOSE

Part No.	I.D(mm)	O.D(mm)	Length(M)	Temperature	Working Pressure
HBBMR0508	5	8	5 10 15	-20˚C~ 60˚C (-5˚F~ +140˚F)	200 PSI (14Bar/1.4MPa)
HBBMR6510	6.5	10			
HBBMR0812	8	12			

FEATURES：

1. Different size & colors are available
2. PU braid hose for high pressure air, PU air hose for water based paint
3. Uniweld hose can save space and prevent knot issue
4. Twin hose can be identified and managed easily

NYLON HOSE (NYLON 6)/Straight Hose

Metric Units

Part No.	I.D (mm)	O.D (mm)	Length (M)	Temperature	Working Pressure at 23˚C(73.4˚F)	Bursting Pressure 23℃(73.4℉)	Bend radius (mm)
HNS2504	2.5	4	200	-40˚C~+80˚C (-40˚F ~ +176˚F)	500PSI(34Bar/3.4MPa)	1500PSI(103Bar/10.3Mpa)	30
HNS0406	4	6	100				45
HNS0608	6	8	100		340PSI(23Bar/2.3MPa)	1024PSI(71Bar/7.1Mpa)	65
HNS0810	8	10	100		300PSI(21Bar/2.1MPa)	900PSI(62Bar/6.2Mpa)	80
HNS0912	9	12	100		300PSI(21Bar/2.1MPa)	900PSI(62Bar/6.2Mpa)	100

Imperial Units

Part No.	O.D (inch)	I.D (inch)	Length (M)	Temperature	Working Pressure at 23˚C(73.4˚F)	Bursting Pressure 23℃(73.4℉)	Bend radius (inch)
HNS104180	1/4	0.18	100	-40˚C~+80˚C (-40˚F ~ +176˚F)	386PSI(26Bar/2.6MPa)	1160PSI(80Bar/8.0Mpa)	1.30
HNS308275	3/8	0.275	100		353PSI(24Bar/2.4MPa)	1060PSI(73Bar/7.3Mpa)	1.58
HNS102375	1/2	0.375	100		382PSI(26Bar/2.6MPa)	1148PSI(79Bar/7.9Mpa)	1.75
HNS508500	5/8	0.5	100		225PSI(15Bar/1.5MPa)	680PSI(47Bar/4.7Mpa)	4.90

NYLON HOSE (NYLON 6)/Recoil Hose

Metric Units

Part No.	I.D(mm)	O.D(mm)	Length(M)	Temperature	Working Pressure at 23˚C(73.4˚F)
HNR0406	4	6	7.5/15	-40˚C~+80˚C (-40˚F ~ +176˚F)	300PSI (21Bar/2.1MPa)
HNR0608	6	8			
HNR7510	7.5	10			
HNR0912	9	12			

Imperial Units

Part No.	O.D(inch)	I.D(inch)	Length(FT)	Temperature	Working Pressure at 23˚C(73.4˚F)
HNR104180	1/4	0.18	25/50	-40˚C~+80˚C (-40˚F ~ +176˚F)	300PSI (21Bar/2.1MPa)
HNR308275	3/8	0.275			
HNR102375	1/ 2	0.375			

FEATURES :

1. Light weight and permanently coiled.
2. Quality nylon formulation resists moisture absorption and abrasion.
3. Each assembly is supplied with durable brass compression fittings, tube inserts and hose Ferrules.
4. Material: Nylon6
5. Meet the international norms : ISO 14743

NYLON HOSE (NYLON 12)/Straight Hose

Metric Units

Part No.	I.D (mm)	O.D (mm)	Length (M)	Temperature	Working Pressure at 23˚C(73.4˚F)	Bursting Pressure 23℃(73.4℉)	Bend radius (mm)
HAS2504	2.5	4	200	-40˚C~+110˚C (-40˚F~ +230˚F)	500PSI(34Bar/3.4MPa)	1500PSI(103Bar/10.3Mpa)	25
HAS0406	4	6	100				35
HAS0608	6	8	100		300PSI(21Bar/2.1MPa)	900PSI(62Bar/6.2Mpa)	55
HAS0810	8	10	100		300PSI(21Bar/2.1MPa)	900PSI(62Bar/6.2Mpa)	60
HAS0912	9	12	100		300PSI(21Bar/2.1MPa)	900PSI(62Bar/6.2Mpa)	70

Imperial Units

Part No.	O.D (inch)	I.D (inch)	Length (M)	Temperature	Working Pressure at 23˚C(73.4˚F)	Bursting Pressure 23℃(73.4℉)	Bend radius (inch)
HAS104180	1/4	0.18	100	-40˚C~+110˚C (-40˚F~ +230˚F)	386PSI(26Bar/2.6MPa)	1160PSI(80Bar/8.0Mpa)	0.9
HAS308275	3/8	0.275	100		353PSI(24Bar/2.4MPa)	1060PSI(73Bar/7.3Mpa)	1.13
HAS102375	1/2	0.375	100		382PSI(26Bar/2.6MPa)	1148PSI(79Bar/7.9Mpa)	1.25
HAS508500	5/8	0.5	100		225PSI(15Bar/1.5MPa)	680PSI(47Bar/4.7Mpa)	1.25

NYLON HOSE (NYLON 12)/Recoil Hose

Metric Units

Part No.	I.D(mm)	O.D(mm)	Length(M)	Temperature	Working Pressure at 23˚C(73.4˚F)
HAR0406	4	6	7.5/15	-40˚C~+110˚C (-40˚F~ +230˚F)	300PSI (21Bar/2.1MPa)
HAR0608	6	8	7.5/15		
HAR7510	7.5	10	7.5/15		
HAR0912	9	12	7.5/15		

Imperial Units

Part No.	O.D(inch)	I.D(inch)	Length(FT)	Temperature	Working Pressure at 23˚C(73.4˚F)
HAR104180	1/4	0.18	25/50	-40˚C~+110˚C (-40˚F~ +230˚F)	300PSI (21Bar/2.1MPa)
HAR308275	3/8	0.275	25/50		
HAR102375	1/ 2	0.375	25/50		

Nylon hose 12 has excellent resistance to liquid and chemicals absorbing. It is suitable for fuel line pipe, oil pipeline, tank tube, olein line, air control, outfall pipe and brake control, etc....

FEATURES :

1. Excellent dimension stability
2. Superior heat and cold resistance
3. Lighter proportion
4. Excellent resistance to kinds of chemicals and liguids
5. Highly resistance to impact resilience in low temperature
6. Excellent durability
7. Low penetrability
8. Meet the international norms : ISO 14743

PAINTING TWIN HOSE:

STRAIGHT PU COVER PA6 / PU BRAID TWIN HOSE

Part No.	Hose	O.D(mm)	I.D(mm)	Length(M)	Temperature	Working Pressure
HNBM7565	Air	10	6.5	50	-20°C~ 60°C (-5 °F~140 °F)	150 PSI
	Painting	10.5	7.5			

FEATURES :

1. Different size & colors are available
2. PU braid hose for high pressure air , PU air hose for water based paint, PU cover nylon6 hose for oily paint
3. Twin hose can be identified and managed easily

HOSE OF AIR BRUSH

SPECIFICATION :

Part No.	O.D (mm)	I.D (mm)	Temperature	Working Pressure
HUS2504-M5	4	2.5	-20°C~ 60°C (-5°F ~140°F)	51PSI (3.5Bar/0.35MPa)

1. For Air Brush.
2. M5 Fitting.

Photo is for reference only.

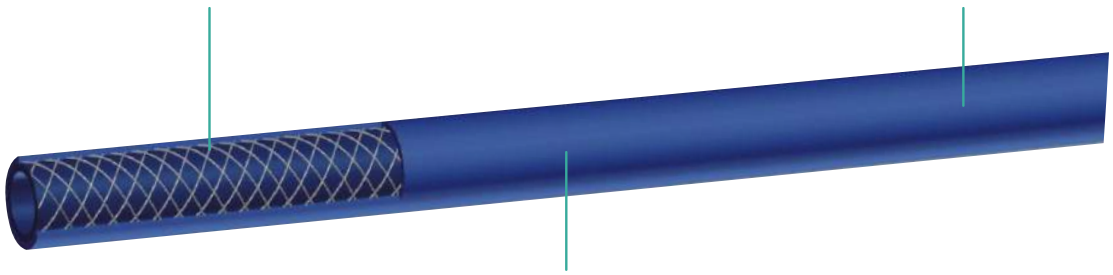
PREMIUM HYBRID POLYMER BLEND AIR HOSE

Part No.	I.D (mm)	O.D (mm)	Temperature	Working Pressure at 23°C (73.4°F)	Bursting Pressure 23℃(73.4℉)	Bend radius (mm)
HYB65107-BD	6.5	11.2	-40°C~65°C (-40℉~149℉)	300 PSI (20.7 Bar / 2.07 MPa)	900PSI (62Bar/6.2Mpa)	35
HYB0812-BD	8	12.5				40
HYB97155-BD	9.7	15.5				50
HYB12720-BD	12.7	20				60

FEATURES：

Low temperature against to -40°C
High flexible & High elastic
Provides the ultimate in flexibility and memory resistance even under extreme cold temperatures. Offers the best combination of strength and flexibility in the market.

- ***HEAVY DUTY REINFORCEMENT***
- ***LIGHT, FLEXIBLE ELASTICITY BEST***



- ***HYBRID CONSTRUCTION***

NYLON 12 AIR RECOIL HOSE

Standard Color : BD BK RD YL
Working Temperature :-40˚C~80˚C

SPECIFICATION :

Part No.	O.D (mm)	I.D (mm)	Length (M)	Working Length(M)	Number of turns	Straight (mm)	Working Pressure
HAR091207-M16*1.5	12	9	7	4.5	22	200	181PSI (12.5Bar/1.25MPa)
HAR091207-M22*1.5							
HAR091207-1/2"PT							
HAR091285-M16*1.5			8.5	5.5	27		
HAR091285-M22*1.5							
HAR091285-1/2"PT							

FEATURES :

1.100% Nylon 12 construction
2.UV Stabilized
3.Available in standard and custom colors
4.Meet DIN 74323 / DIN 73378 / ISO 7375 / ISO 7628 / SAE J844 specifications
5.Used in air brake systems in truck, trailer; Passed DOT FMVSS 49CFR 571.106 CERTIFIED

APPLICATION :

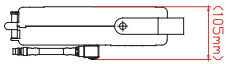
1.Truck Air Brake Systems
2.Trailer Air Brake Systems
3.Auxiliary Air Systems

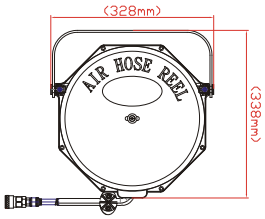
HAND CRANK HOSE REEL (PU BRAID)

Part NO.	Hose Size	Length (M)	Hose Color	Hose
HR06651030U-BD	6.5x10mm	30	Blue	PU Braid Hose
HR06081230U-BD	8x12mm	30	Blue	PU Braid Hose
HR069513530U-BD	9.5x13.5mm	30	Blue	PU Braid Hose
HR06101420U-BD	10x14mm	20	Blue	PU Braid Hose
HR06111620U-BD	11x16mm	20	Blue	PU Braid Hose

HAND CRANK HOSE REEL (HYBRID HOSE)

Part NO.	Hose Size	Length (M)	Hose Color	Hose
HR066510730YB-BD	6.5x11.2mm	30	Blue	Hybrid Hose
HR06081230YB-BD	8x12.5mm	30	Blue	Hybrid Hose
HR069715525YB-BD	9.7x15.5mm	25	Blue	Hybrid Hose



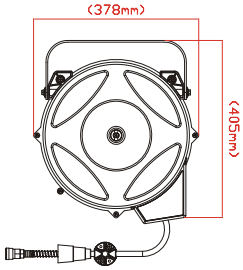


AIR HOSE REEL IN PLASTIC CASE

Part NO.	Hose Size (mm)	Hose Size (inch)	Length (FT/M)	Hose
HR01050812U	5x8	3/16"	40/12	PU Braid Hose
HR01651010U	6.5x10	1/4"	32/10	PU Braid Hose
HR01081208U	8x12	5/16"	26/8	PU Braid Hose

HR07

HR09



AIR HOSE REEL IN STEEL CASE

Part NO.	Hose Size (mm)	Hose Size (inch)	Length (FT/M)	Hose
HR070250U	6.5x10	1/4”	50/15	PU Braid Hose
HR072550U	8x12	5/16”	50/15	PU Braid Hose
HR070350U	9.5x13.5	3/8”	50/15	PU Braid Hose
HR090260U	6.5x10	1/4"	60/18	PU Braid Hose
HR090265U	6.5x10	1/4"	65/20	PU Braid Hose
HR092560U	8x12	5/16"	60/18	PU Braid Hose
HR092565U	8x12	5/16"	65/20	PU Braid Hose
HR090360U	9.5x13.5	3/8"	60/18	PU Braid Hose
HR090365U	9.5x13.5	3/8"	65/20	PU Braid Hose

FEATURES：

1.Steel case increases durability.
2.Easily installing on the wall or the ceiling.
3.Installed reel can rotate within 190°.
4.Spring with good quality & strength roll back quickly & efficiently without fatigue.
5.Rolling dual test:30,000 times
6.Designed 2 holes on the hand bar easily to fix for firm installation.
7.Hose color: blue

AIR HOSE

fixed male thread

Part No.	Description	
	H(OD)	TPI PE)
JPL30802N-DOT	3/8"	1/4"
JPL30803N-DOT	3/8"	3/8"
JPL30804N-DOT	3/8"	1/2"
JPL10202N-DOT	1/2"	1/4"
JPL10203N-DOT	1/2"	3/8"
JPL10204N-DOT	1/2"	1/2"

swivel male thread

Part No.	Description	
	H(OD)	TPI PE)
JPLS30802N-DOT	3/8"	1/4"
JPLS30803N-DOT	3/8"	3/8"
JPLS30804N-DOT	3/8"	1/2"
JPLS10202N-DOT	1/2"	1/4"
JPLS10203N-DOT	1/2"	3/8"
JPLS10204N-DOT	1/2"	1/2"

fixed male thread

Part No.	Description	
	H(OD)	TPI PE)
JPB10401N-DOT	1/4"	1/8"
JPB10402N-DOT	1/4"	1/4"
JPB30802N-DOT	3/8"	1/4"
JPB30803N-DOT	3/8"	3/8"
JPB10202N-DOT	1/2"	1/4"
JPB10203N-DOT	1/2"	3/8"

swivel male thread

Part No.	Description	
	H(OD)	TPI PE)
JPBS10402N-DOT	1/4"	1/4"
JPBS30802N-DOT	3/8"	1/4"
JPBS30803N-DOT	3/8"	3/8"
JPBS10202N-DOT	1/2"	1/4"
JPBS10203N-DOT	1/2"	3/8"
JPBS10204N-DOT	1/2"	1/2"

fixed male thread

Part No.	Description	
	H(OD)	TPI PE)
JPD10402N-DOT	1/4"	1/4"
JPD30801N-DOT	3/8"	1/8"
JPD30802N-DOT	3/8"	1/4"
JPD30803N-DOT	3/8"	3/8"
JPD10203N-DOT	1/2"	3/8"
JPD10204N-DOT	1/2"	1/2"

swivel male thread

Part No.	Description	
	H(OD)	TPI PE)
JPDS30802N-DOT	3/8"	1/4"
JPDS30803N-DOT	3/8"	3/8"
JPDS30804N-DOT	3/8"	1/2"
JPDS10202N-DOT	1/2"	1/4"
JPDS10203N-DOT	1/2"	3/8"
JPDS10204N-DOT	1/2"	1/2"

fixed female thread

Part No.	Description	
	H(OD)	TPI PE)
JPLF30802N-DOT	3/8"	1/4"
JPLF30803N-DOT	3/8"	3/8"
JPLF30804N-DOT	3/8"	1/2"
JPLF10202N-DOT	1/2"	1/4"
JPLF10203N-DOT	1/2"	3/8"
JPLF10204N-DOT	1/2"	1/2"

swivel female thread

Part No.	Description	
	H(OD)	TPI PE)
JPLFS10401N-DOT	1/4"	1/8"
JPLFS10402N-DOT	1/4"	1/4"
JPLFS51602N-DOT	5/16"	1/4"
JPLFS30802N-DOT	3/8"	1/4"
JPLFS30803N-DOT	3/8"	3/8"
JPLFS10204N-DOT	1/2"	1/2"

Part No.	Description	
	H(OD)	TP IPE)
JPC30802N-DOT	3/8"	1/4"
JPC30803N-DOT	3/8"	3/8"
JPC30804N-DOT	3/8"	1/2"
JPC10202N-DOT	1/2"	1/4"
JPC10203N-DOT	1/2"	3/8"
JPC10204N-DOT	1/2"	1/2"

Part No.	Description	
	H(OD)	TP IPE)
JPCF30802N-DOT	3/8"	1/4"
JPCF30803N-DOT	3/8"	3/8"
JPCF30804N-DOT	3/8"	1/2"
JPCF10202N-DOT	1/2"	1/4"
JPCF10203N-DOT	1/2"	3/8"
JPCF10204N-DOT	1/2"	1/2"

Part No.	Description
	H(OD)
JPV104-DOT	1/4"
JPV516-DOT	5/16"
JPV308-DOT	3/8"
JPV102-DOT	1/2"
JPV508-DOT	5/8"
JPV304-DOT	3/4"

Part No.	Description
	H(OD)
JPE104-DOT	1/4"
JPE516-DOT	5/16"
JPE308-DOT	3/8"
JPE102-DOT	1/2"
JPE508-DOT	5/8"
JPE304-DOT	3/4"

Part No.	Description
	H(OD)
JPU104-DOT	1/4"
JPU516-DOT	5/16"
JPU308-DOT	3/8"
JPU102-DOT	1/2"
JPU508-DOT	5/8"
JPU304-DOT	3/4"

- Maximum Pressure : 290 PSI (20Bar / 2Mpa)
- Working pressure: 232 psi (16 Bar / 1.6 Mpa)
- Working temperature range: -40°C to 93°C(-40°F to 200°F)

FEATURES :

- Air brake fittings manufacturing meets D.O.T. FMVSS 571.106
- Machined from brass alloy
- Pre-applied thread sealant on all male pipe threads
- One-touch connection reduces installation time and cost
- Various shapes and configurations to meet vehicle applications and make installation easier
- Recommended Tubing: SAE J844 nonmetallic air brake systems

HYB081215-BD-V60

GLAD HAND AIR HOSE

SPECIFICATION

Part No.	HYB081215-BD-V60
Valve Type	Aluminum alloy (1/2"NPT)
Hose Length	15M (8*12.5mm hybrid hose)
Dual Chuck	12" Straight
	(ISO 3894:2015 Method Support)
Max. Working Pressure	300PSI / 20.6Bar / 2.06Mpa
Medium	Non-corrosive Air
Temperature Range	-40℃~60℃

FEATURES :

1. Combined with dual chuck
2. Glad hand connection included
3. Low temperature against & easy to operate
4. Convenient for inflate tires

APPLICATIONS:

Truck with glad hand equipment

HOSE ACCESSORIES

Swivel Protector	Hose		Part Number				
	I.D.	O.D.	Series No.	M Male	Hose Type	Thread Type	Protector
	4	6	J6	1 (1/8") 2 (1/4") 3 (3/8") 4 (1/2")	1	Blank : PT N : NPT G : G	P : Plastic S : Spring
	5	8			2		
	6.5	10			3		
	8	12			4		
	10	14			30		
	11	16			35		
	6.5	11.2			20HY		
	8	12.5			25HY		
	9.7	15.5			30HY		
	12.7	20			40HY		

Material : Steel

Solid Protector	Hose		Part Number				
	I.D.	O.D.	Series No.	M Male	Hose Type	Thread Type	Protector
	4	6	J	01 (1/8") 02 (1/4") 03 (3/8") 04 (1/2")	01	Blank : PT N : NPT G : G	P : Plastic S : Spring
	5	8			02		
	6.5	10			03		
	8	12			04		
	10	14			45		
	11	16			50		
	6.5	11.2			20HY		
	8	12.5			25HY		
	9.7	15.5			30HY		
	12.7	20			40HY		

Material : Steel

Connector	Hose		Part Number	Thread Type	Material
	I.D.	O.D.			
	5	8	J02P02PA	Blank : PT N : NPT G : G	A : Steel
	6.5	10	J03P03PA		
	8	12	J04P04PA		
	10	14	J45P45PA		
	11	16	J50P50PA		
	6.5	11.2	J20P20HYPA		
	8	12.5	J25P25HYPA		
	9.7	15.5	J30P30HYPA		
	12.7	20	J40P40HYPA		

HOSE ACCESSORIES

Japanese Style Regular Type Swivel Socket	Part No.	I.D (mm)	O.D (mm)
	20SRA	5	8
	30SRA	6.5	10
	40SRA	8	12

Japanese Style One Touch Swivel Socket	Part No.	I.D (mm)	O.D (mm)
	20SRT	5	8
	30SRT	6.5	10
	40SRT	8	12

American Type Swivel Socket	Part No.	I.D (mm)	O.D (mm)
	S29-20SRA	5	8
	S29-30SRA	6.5	10
	S29-40SRA	8	12

European Type Swivel Socket	Part No.	I.D (mm)	O.D (mm)
	S31-20SRA	5	8
	S31-30SRA	6.5	10
	S31-40SRA	8	12

Japanese Style-Plastic Quick Coupler	Part No.	Hose O.D (mm)
	S1A-20SP	8
	S1A-30SP	10
	S1A-40SP	12

Bend Restrictors	Part No.	Hose O.D (mm)
	HUP21-BU	8
	HUP31-BU	10
	HUP41-BU	12

Hose Clamp	Part No.	I.D (mm)	O.D (mm)
	JC02	7/32”	5/8”
	JC03	5/16”	3/4”
	JC04	5/16”	7/8”

Cover	Part No.	Hose O.D (mm)
	PSH58A	8
	PSH610A	10
	PSH812A	12

Male Connector	Part No.	I.D (mm)	O.D (mm)
	JO2M02PA	5	8
	JO2M03PA	6.5	10
	JO2M04PA	8	12

Swivel Connector	Part No.	I.D (mm)	O.D (mm)
	J622	5	8
	J623	6.5	10
	J624	8	12
	J611	4	6

Male Nipple	Female Adaptor	Male Hose Barb	Hose Fitting
			
Pipe Bushing	**Reducing Adaptor**	**Female Hose Barb**	
			

ORDER INFORMATION

J	02	M	02	M	G
	Size	Style	Size	Style	Thread Type
Adapter	02 1/4"	M : Male F : Female H : hose	02 1/4"	M : Male F : Female H : hose	Blank:PT N:NPT G:G
	25 5/16"		25 5/16"		
	03 3/8"		03 3/8"		
	04 1/2"		04 1/2"		
	06 3/4"		06 3/4"		

F160 / FM160

F160A

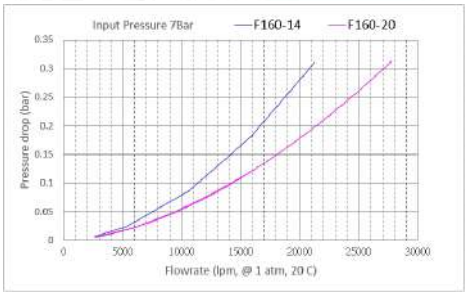
FM160A

SPECIFICATION :

Part No. / Description		F160-14A / F160-20A	FM160-14A / FM160-20A
Medium		Air	
Air Inlet (PT.NPT.G)		1.5",2"	
Filter Element		50μ	0.01μ
Operating Pressure Range	Auto Drain Valve	(43PSI/3Bar/0.3Mpa)~(175PSI/12Bar/1.2Mpa)	
	Manual Drain Valve	(0PSI/0Bar/0Mpa) ~ (230PSI/16Bar/1.6Mpa)	
Max Flow (L/min) at 7Bar △P 0.2 Bar		16800 , 21500	12000
Operation Temperature Range		-5℃ ~ 60℃	
Drain Capacity		30ml	
Meet the international norms		ISO 8573-1	

FEATURES :

1. Aluminum alloy body: light weight and better corrosion resistance
2. High air flow and low pressure drop
3. Indicator (FM160): red indicator will rise when filter element needs to be changed
4. User can check the water level from ullage scale
5. No steel material used and no rust will happen

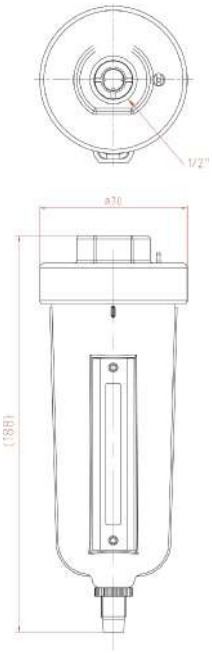


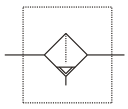
FM 160 - 14 A
- A: AUTO DRAINAGE (OPTION)
- 14: PORT SIZE 14:1-1/2" 20:2"
- 160: TYPE SERIES
- FM: F/FM COMBINATION

AUTOMATIC DRAIN DESICCANT FILTER

AUTOMATIC DRAIN CE

D704A





SPECIFICATION :

Description \ Part No.	D704A
Medium	Air
Air Inlet (PT, NPT)	1/2"
Proof Input Pressure	175PSI / 12Bar / 1.2Mpa
Drain Capacity	30ml
Meet The International Norms	JIS B 8371

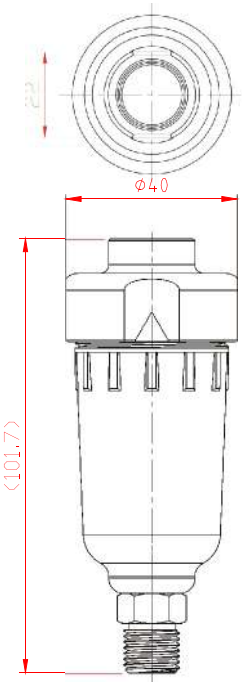
FEATURES :

1. High inlet pressure support
2. Longer life time
3. Auto drain design
4. Applicable for any end of pipe system

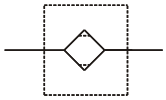
Auto Drain Valve

DESICCANT FILTER

LM262

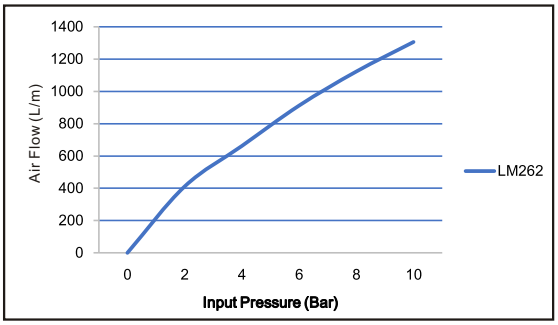


LM26



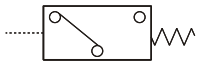
SPECIFICATION :

Part NO.		LM26
Medium		Air
Air Inlet	Female thread	1/4" NPS
	Male thread	1/4" PS
Pressure Max.		145PSI / 10Bar / 1Mpa
Operation Temperature Range		5~60°C



DIGITAL PRESSURE SWITCH

E301

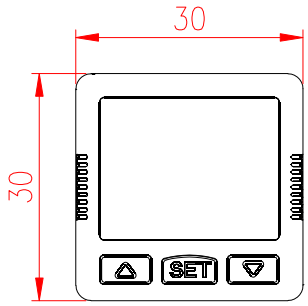


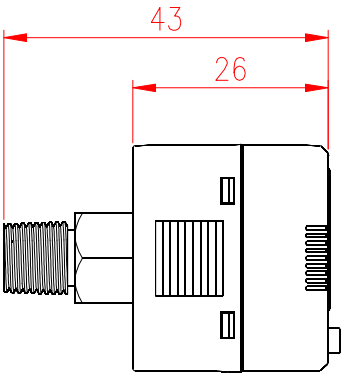
SPECIFICATION :

Part no.		E301N	E301P	E302N	E302P
Medium		Air (Non-flammable. Non-corrosive gas)			
Air Inlet		M5 female thread + R (PT) 1/8 male thread		1/4 male thread	
Transistor output		NPN	PNP	NPN	PNP
Rated & Set Pressure		-1BAR~10BAR			
Proof Pressure		217PSI / 15Bar / 1.5Mpa			
Power Requirement		12 ~ 24V DC ±10 %			
Degree Of Protection		IP40			
Ambient Temp	Operating Temp	0 ~ 50 °C			
	Storage Temp	-20~60 °C			

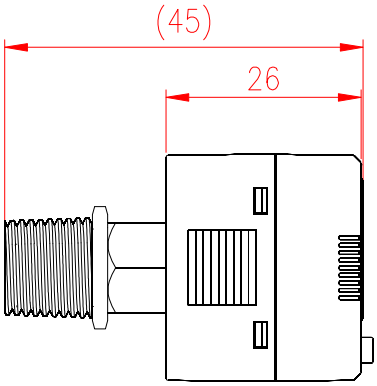
Application:

1. Pressure control
2. Machine tools
3. Hydraulics and pneumatic Pumps and compressors





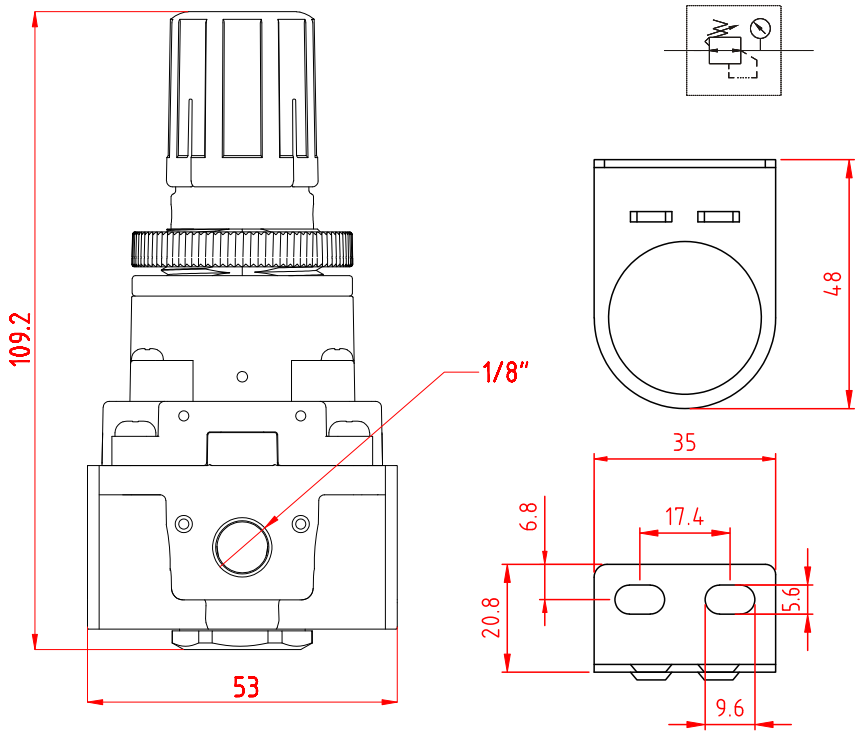
E301



E302

Precision Regulator

RT59



SPECIFICATION：

Description / Part NO.	RT59
Medium	Air
Max. Pressure	15Bar(218 PSI/1.5 Mpa)
Set pressure range	RT5900-4: 0.1 ~ 4 Bar / 1.45 ~ 58 PSI / 0.01 ~ 0.4MPa RT5900-8: 0.1 ~ 8 Bar / 1.45 ~ 116 PSI / 0.01 ~ 0.8MPa
Min. supply pressure Note1)	Set pressure+0.5 Bar (7.3PSI /0.05MPa)
Sensitivity	Within 0.2% of full span
Repeatabiltiy	Within ±0.5% of full span
Air consumption	1 L/min(ANR) or less
Port size	1/4"
Pressure gauge port	1/8"(2 locations)
Ambient and fluid temperature	-5 to 60℃(No freezing)

Note 1) When there is no flow rate on the outlet.

FEATURES：

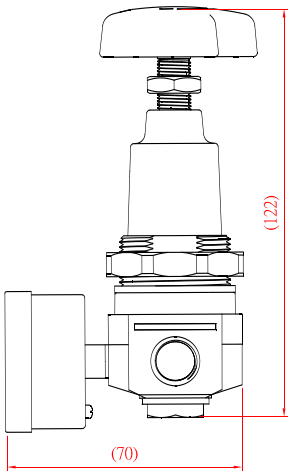
(1) Pressure regulating performance, using a special throttling method, the sensitivity is within 0.2% F.S., and the repeatability is within ±0.5% F.S. (F.S.: RT5900-4=4 bar, RT5900-8=8 bar)

(2) The flow characteristics, pressure regulation characteristics, repeatability, pressure drop, etc. are better than those of general pressure reducing valves.

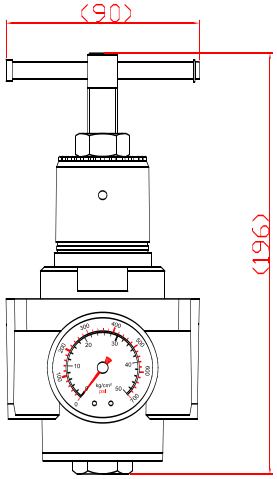
(3) Can be assembled with the 59 series, or can be installed on a bracket or panel.

(4) Compared with ordinary pressure reducing valves, it has a more stable output pressure.

HIGH PRESSURE REGULATOR

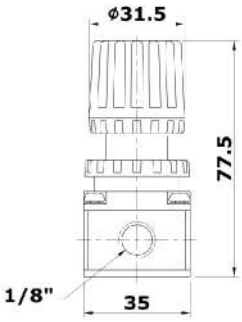


R302

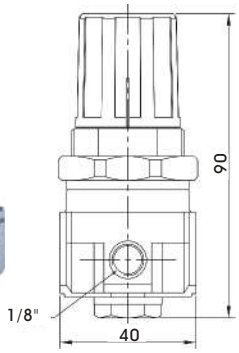


R93

R15

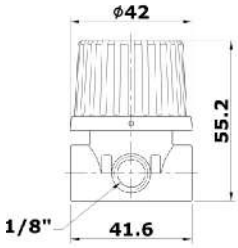


R20



R10

R102G-S



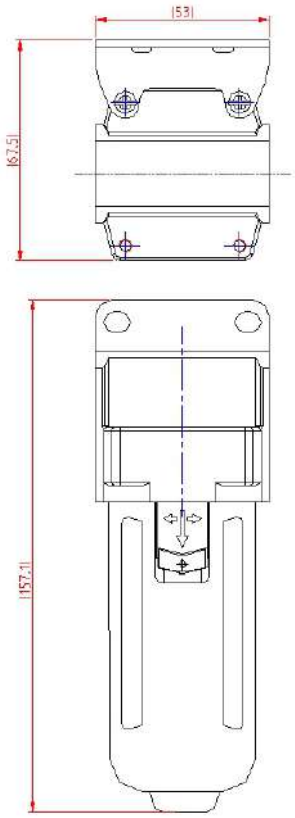
SPECIFICATION :

Description \ Part No.		R302	R938	R10				R15			R20		
				R102	R112	R332	R352	R152	R162	R182	R202	R422	R322
Medium		Air											
Air Inlet (PT.NPT.G)		1/4"	1"	1/4"									
Proof Input Pressure	Psi	570	725	150		215		150	185	70	150	225	115
	Bar	39.3	50	10		15		10	12.8	5	10	15.5	9.7
Proof Output Pressure	Psi	500	570	135		150		140	170	50	140	215	70
	Bar	34.5	40	9.3		10		9.6	12	3.4	9.6	14.8	4.8
Operation Temperature Range		- 5~ + 60 C (Non frozen)											
Gauge Port		1/8"	1/4"	1/8"									
Max Flow (L/min) at 10 Bar		2000	5200	700				1100			2000		
Meet The International Norms		JIS B 8372 / ISO 6953-1 ISO 6953-2											

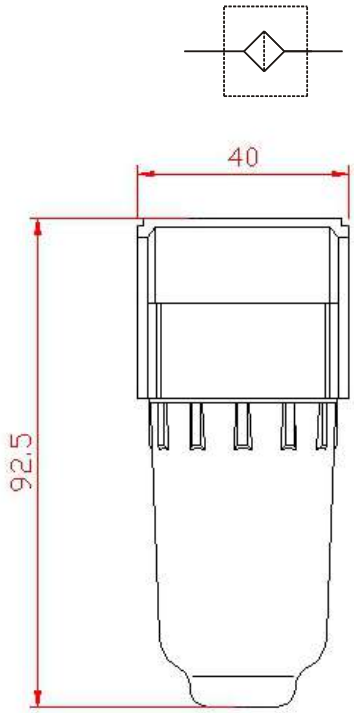
FEATURES :

Heavy duty design: Working pressure can come up to 570psi and high air flow.
It is suitable for any high flow air pressure equipment or system.

VACUUM FILTER



F52



F28

SPECIFICATION :

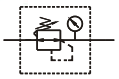
Part NO. / Description		F52			F28	
Medium		Air				
Air Inlet (PT.NPT.G)		1/4"	3/8"	1/2"	1/8"	1/4"
Working Pressure	Psi	-1.45~ 145 psi				
	Bar	-0.1~ 10 Bar				
Maximum Pressure	Psi	218 Psi				
	Bar	15 Bar				
Operation Temperature Range		- 5~ + 60 C (Non frozen)				
Filter Element		5u				

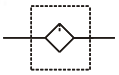
FEATURES :

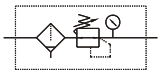
Remove water droplets and pollutants to ensure the quality of the vacuum gas supply system.

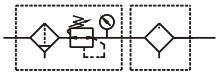
FRL20 / C20 CE

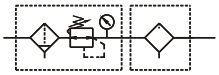
F20 

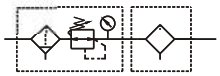
R20 

L22 

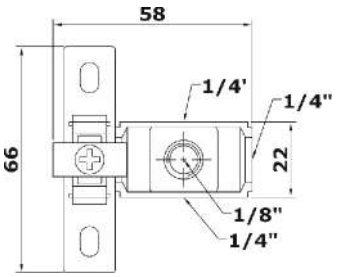
FR20 

FRL20 

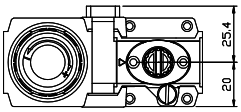
C20 

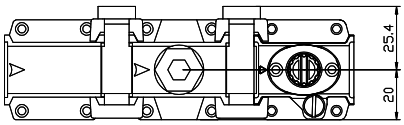
FRL20K 

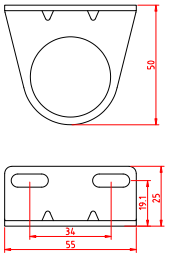
C20-AS1
C20-Manifold



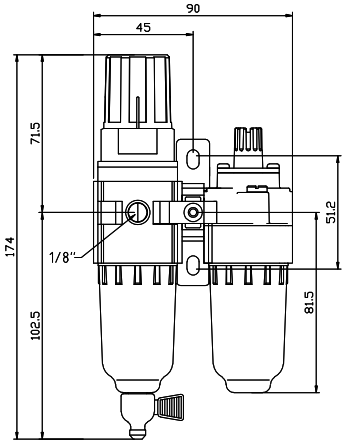
20 Series Drawing

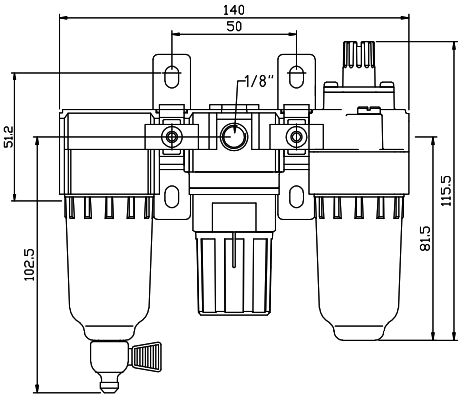


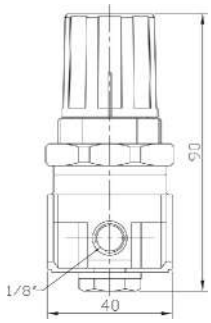




R2017







F.R.L. Air Control Unit

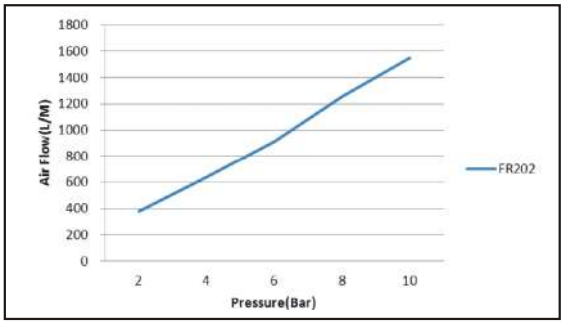
SPECIFICATION :

Part No. / Description		C201 / FRL201	C202 / FRL202	FRL212
Medium		Air		
Air Inlet (PT.NPT)		1/8"	1/4"	1/4"
Filter Element		5μ		
Operating Pressure Range	Semi-Auto Drain Valve	(14.5 PSI / 1Bar / 0.1Mpa) ~ (150PSI/10Bar/1Mpa)		(14.5 PSI / 1Bar / 0.1Mpa)~ (230PSI/16Bar/1.6Mpa)
	Manual Drain Valve	(0PSI/0Bar/0Mpa) ~ (150PSI/10Bar/1Mpa)		(0PSI/0Bar/0Mpa) ~ (230PSI/16Bar/1.6Mpa)
Max Flow (L/min) at 6 Bar		1000	1100	1100
Operation Temperature Range		5 ~ 60 ℃		
Drain Capacity		15ml		
Oil Capacity		30ml		
Minimum Dripping Flow Rate (L/min(ANR))*		15		
Recommendable Lubricants		ISO VG-32		
Meet the international norms		Air Filter:ISO 5782-1 & -2 / JIS B 8371 Regulator:ISO 6953-1 & -2 / JIS B 8372 Air Filter+Regulator:ISO 5782-1 & -2 / ISO 6953-1 & -2 JIS B 8372 / JIS B 8371 Lubricator:ISO 6301-1 & -2 / JIS B 8378		
More Options				
Air Filter		F201	F202	F212
Regulator		R201	R202	R422
Air Filter+Regulator		FR201	FR202	FR212
Lubricator		L221	L222	L212
Meet the international norms		Flow capacity : ISO 6358 / ISO 6953		

* The flow rate is 5 drops or greater/min under the following conditions : Inlet pressure of 0.5 MPa; Class 1 turbine oil (ISO VG32); Temperature at 20°C; Oil adjustment valve fully open.
* For a circuit that repeatedly turns ON and OFF on the outlet side, make the adjustment so that the average air consumption per minute becomes the minimum dripping flow rate or more.
*Lubrication cannot be properly performed if the operating flow rate is too low. Select an appropriately size lubricator by referring to the minimum dripping flow rate provided in the catalog.

FEATURES :

1. Compact design for limited space
2. Easy installation
3. Cost effective

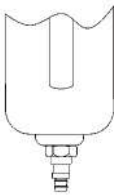


ORDER INFORMATION :

FRL 20 2 — PORT SIZE 1-1/8" 2-1/4" — TYPE SERIES — F/R.L. COMBINATION

C 20 2 — PORT SIZE 1-1/8" 2-1/4" — TYPE SERIES — F.R.L. COMBINATION

Semi-Auto Drain Valve
Adaptation ID 6.5mm or 1/4" hose



Manual Drain Valve
Adaptation ID 5mm or 3/16" hose

FRL53 / C53 CE


R53


F53


L53


FR53

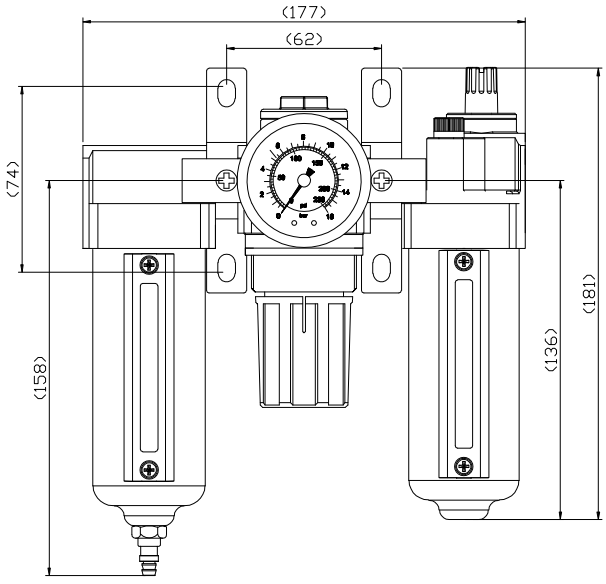

FR53-N/P

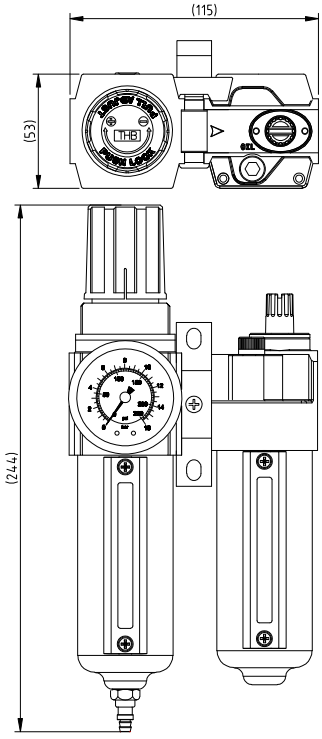

C53


FRL53


FRL53-N/P

50 Series Drawing





F.R.L. Air Control Unit

SPECIFICATION :

Part No. / Description		C532	C533	C534	C532A	C533A	C534A
		FRL532	FRL533	FRL534	FRL532A	FRL533A	FRL534A
Medium		Air					
Air Inlet (PT, NPT,G)		1/4”	3/8”	1/2”	1/4”	3/8”	1/2”
Filter Element		5μ					
Operating Pressure Range	Auto Drain Valve	(43PSI/3Bar/0.3Mpa)~ (175PSI/12Bar/1.2Mpa)					
	Manual Drain Valve	(0PSI/0Bar/0Mpa) ~ (230PSI/16Bar/1.6Mpa)					
Max Flow (L/min) at 6 Bar		2200	3000	3100	2200	3000	3100
Operation Temperature Range		5℃ ~ 60℃					
Drain Capacity		60 ml			12 ml		
Oil Capacity		85 ml			85 ml		
Minimum Dripping Flow Rate (L/min(ANR))*		1/4":30 3/8":40 1/2":50					
Recommendable Lubricants		ISO VG-32					
More Options							
Air Filter		F532	F533	F534	F532A	F533A	F534A
Air Filter + Regulator		FR532	FR533	FR534	FR532A	FR533A	FR534A
Lubricator		L532	L533	L534	L532A	L533A	L534A
Meet the international norms		JIS B 8371 / JIS B 8372 / JIS B 8378					

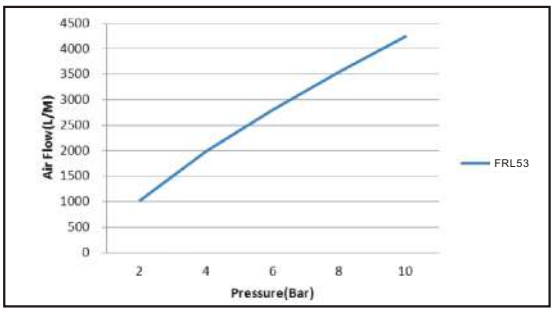
FEATURES :

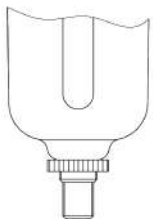
1. Quick release fixed by rotating 30° degrees
2. Anti-loosen from vibration

ORDER INFORMATION :

FRL 53 3-A
- 3-A: AUTO DRAINAGE (OPTION); PORT SIZE 2-1/4” 3-3/8” 4-1/2”
- 53: TYPE SERIES
- FRL: F/R.L. COMBINATION

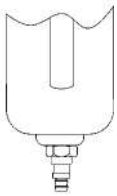
C 53 3-A
- 3-A: AUTO DRAINAGE (OPTION); PORT SIZE 2-1/4” 3-3/8” 4-1/2”
- 53: TYPE SERIES
- C: F.R.L. COMBINATION





Auto Drain Valve
1/8"PT Male thread

Semi-Auto Drain Valve
Adaptation ID 6.5mm or 1/4" hose



Manual Drain Valve
Adaptation ID 5mm or 3/16" hose

FRL59 / C59 CE


F59


R59


L59


FR59 – N / P


FR59


FRL59


C59

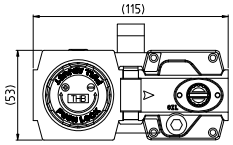

FRL59 – N / P

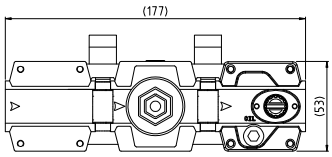

FRL59K

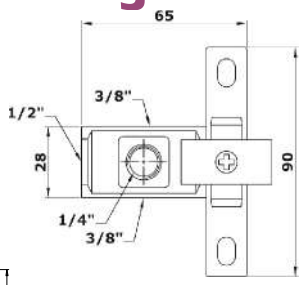
C50-AS1
C50-Manifold

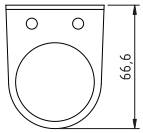

D51

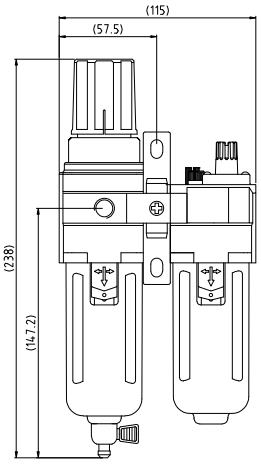
59 Series Drawing

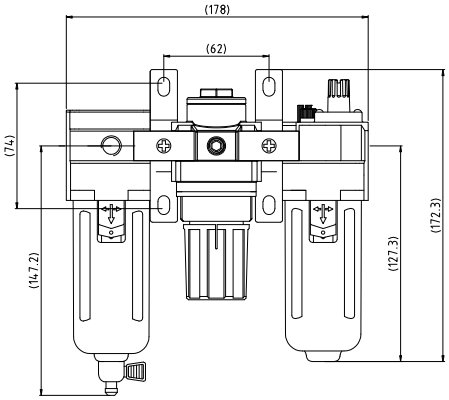


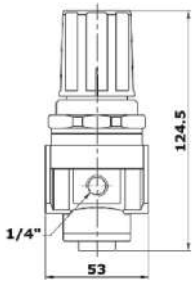


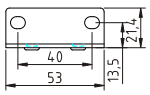












R5017

F.R.L. Air Control Unit

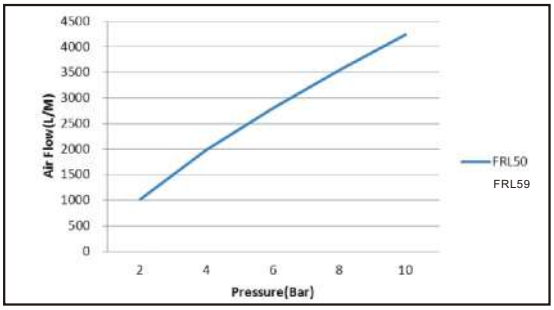
SPECIFICATION :

Part No. / Description	C592	C593	C594	C592A	C593A	C594A
	FRL592	FRL593	FRL594	FRL592A	FRL593A	FRL594A
Medium	Air					
Air Inlet (PT, NPT,G)	1/4”	3/8”	1/2”	1/4”	3/8”	1/2”
Filter Element	5μ					
Operating Pressure Range – Semi-Auto Drain Valve	(14.5 PSI / 1Bar / 0.1Mpa) ~ (160PSI/11Bar/1.1Mpa)					
Operating Pressure Range – Auto Drain Valve	(43 PSI / 3Bar / 0.3Mpa) ~ (160PSI / 11Bar / 1.1Mpa)					
Max Flow (L/min) at 6 Bar	2200	3000	3100	2200	3000	3100
Operation Temperature Range	5℃ ~ 60℃					
Drain Capacity	60 ml			12 ml		
Oil Capacity	85 ml			85 ml		
Minimum Dripping Flow Rate (L/min(ANR))*	1/4":30 3/8":40 1/2":50					
Recommendable Lubricants	ISO VG-32					
More Options						
Air Filter	F592	F593	F594	F592A	F593A	F594A
Air Filter + Regulator	FR592	FR593	FR594	FR592A	FR593A	FR594A
Lubricator	L592	L593	L594	L592A	L593A	L594A
Meet the international norms	JIS B 8371 / JIS B 8372 / JIS B 8378					

* The flow rate is 5 drops or greater/min under the following conditions : Inlet pressure of 0.5 MPa; Class 1 turbine oil (ISO VG32); Temperature at 20°C; Oil adjustment valve fully open.
* For a circuit that repeatedly turns ON and OFF on the outlet side, make the adjustment so that the average air consumption per minute becomes the minimum dripping flow rate or more.
*Lubrication cannot be properly performed if the operating flow rate is too low. Select an appropriately size lubricator by referring to the minimum dripping flow rate provided in the catalog.

FEATURES :

1. Steel guards offer better protection
2. Safe lockable buckles for firm installation



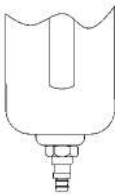
ORDER INFORMATION :

FRL 59 3-A
- AUTO DRAINAGE (OPTION)
- PORT SIZE
  - 2-1/4”
  - 3-3/8”
  - 4-1/2”
- TYPE SERIES
- F/R.L. COMBINATION

C 59 3-A
- AUTO DRAINAGE (OPTION)
- PORT SIZE
  - 2-1/4”
  - 3-3/8”
  - 4-1/2”
- TYPE SERIES
- F.R.L. COMBINATION

Auto Drain Valve
1/8"PT Male thread

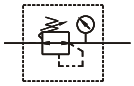
Semi-Auto Drain Valve
Adaptation ID 6.5mm or 1/4" hose

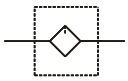


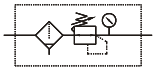
Manual Drain Valve
Adaptation ID 5mm or 3/16" hose

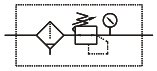
FRL70 / C70 CE

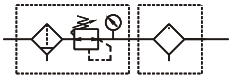
F70 

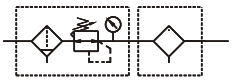
R70 

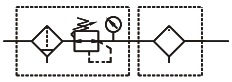
L70 

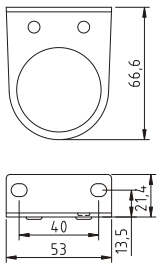
FR70 

FR72 

C70 

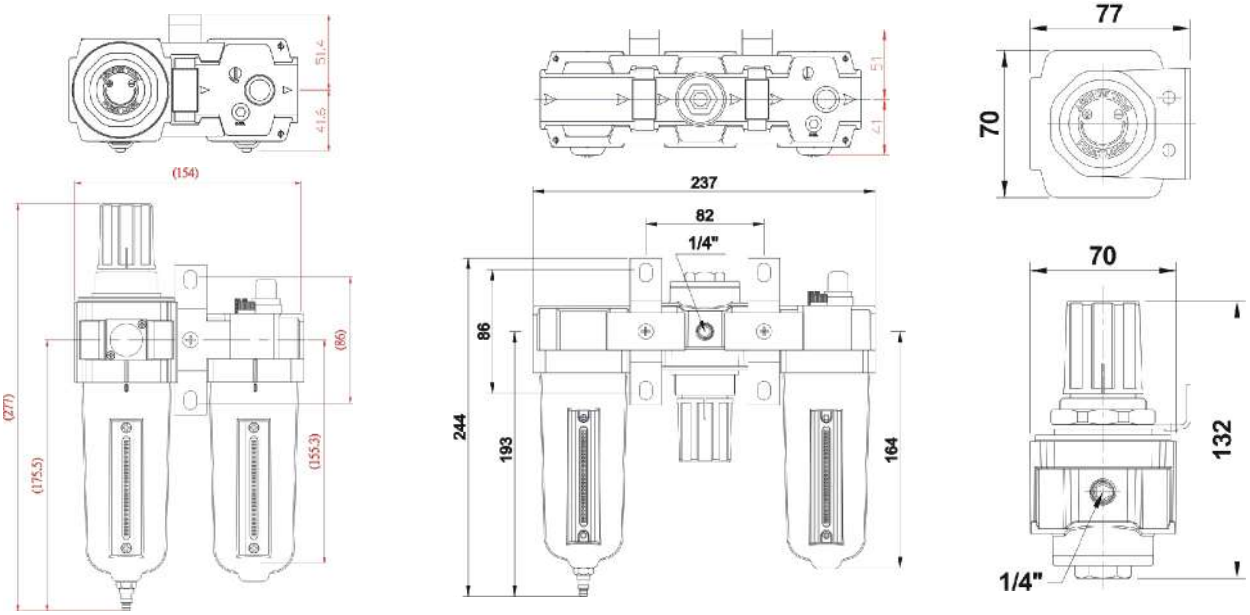
FRL72 

FRL70 



R5017

70 Series Drawing



F.R.L. Air Control Unit

SPECIFICATION :

Description \ Part No.		C704 FRL724 FRL704	CD704 FRLD704	CM704 FRLM704	C706 FRL726 FRL706	CD706 FRLD706	CM706 FRLM706
Medium		Air					
Air Inlet (PT.NPT.G)		1 /2”			3/4”		
Filter Element		5μ	0.3μ	0.01μ	5μ	0.3μ	0.01μ
Max Flow (L/min) at 6 Bar		4000		3900	4000		3900
Operating Pressure Range	Auto Drain Valve	(43PSI/3Bar/0.3Mpa)~(175PSI/12Bar/1.2Mpa)					
	Manual Drain Valve	(0PSI/0Bar/0Mpa) ~ (230PSI/16Bar/1.6Mpa)					
Operation Temperature Range		5 ~ 60 ℃					
Drain Capacity		Manual Drain Valve: 80 ml / Auto Drain Valve : 30 ml					
Oil Capacity		150ml					
Minimum Dripping Flow Rate (L/min(ANR))*		50					
Recommendable Lubricants		ISO VG-32					
More Options							
Air Filter		F704	FD704	FM704	F706	FD706	FM706
Regulator		R704			R706		
Air Filter+Regulator		FR724 FR704	FRD704	FRM704	FR726 FR706	FRD706	FRM706
Lubricator		L704			L706		

* The flow rate is 5 drops or greater/min under the following conditions : Inlet pressure of 0.5 MPa; Class 1 turbine oil (ISO VG32); Temperature at 20°C; Oil adjustment valve fully open.
* For a circuit that repeatedly turns ON and OFF on the outlet side, make the adjustment so that the average air consumption per minute becomes the minimum dripping flow rate or more.
*Lubrication cannot be properly performed if the operating flow rate is too low. Select an appropriately size lubricator by referring to the minimum dripping flow rate provided in the catalog.

FEATURES :

1. Gauge could be infixed as option for preventing damage and interference
2. Heavy duty type -- High Air flow and drain capacity
3. Transparent water level indicator for easy checking
4. Suitable for any high flow air pressure equipment or system

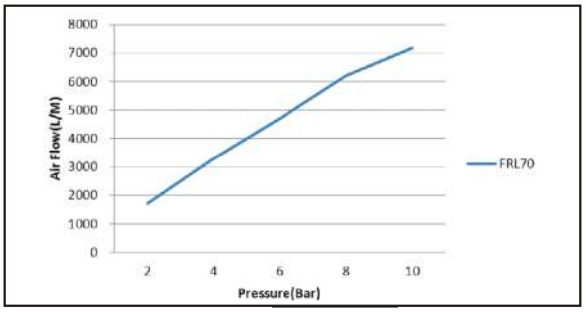
ORDER INFORMATION :

C D 70 6 - A

- A: AUTO DRAINAGE (OPTOIN)
- 6: PORT SIZE 6-3/4” 4-1/2”
- 70: TYPE SERIES
- D: FILTER ELEMENT D 0.3μ M 0.01μ
- C: F/R.L. COMBINATION

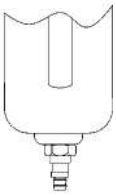
FRL D 70 6 - A

- A: AUTO DRAINAGE (OPTOIN)
- 6: PORT SIZE 6-3/4” 4-1/2”
- 70: TYPE SERIES
- D: FILTER ELEMENT D 0.3μ M 0.01μ
- FRL: F/R.L. COMBINATION



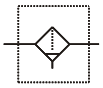
Auto Drain Valve
1/8"PT Male thread

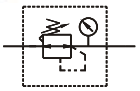
Semi-Auto Drain Valve
Adaptation ID 6.5mm or 1/4" hose

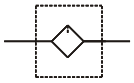


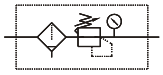
Manual Drain Valve
Adaptation ID 5mm or 3/16" hose

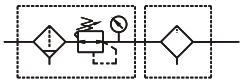
FRL89 / C89 CE

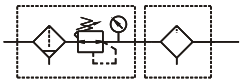
F89 

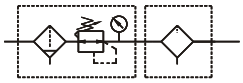
R89 

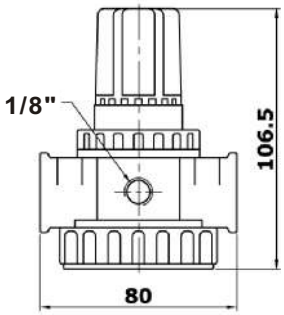
L89 

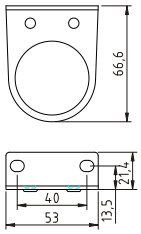
FR89 

FRL89 

FRL834H 

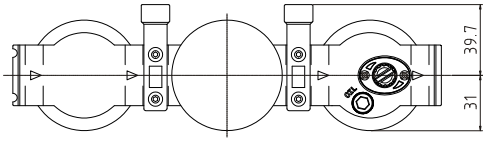
C89 

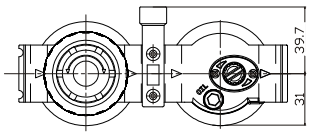


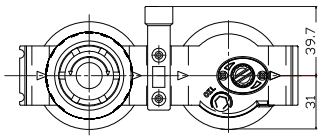


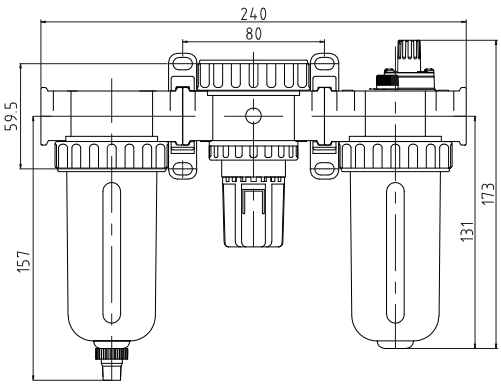
R5017

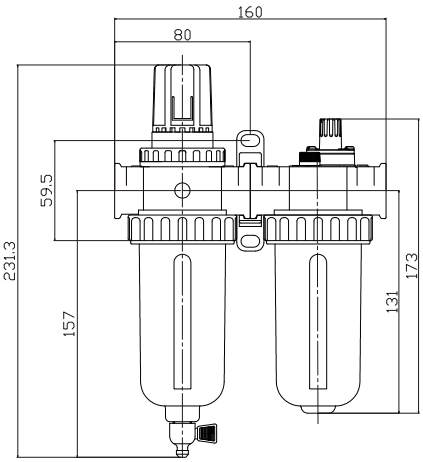
89 Series Drawing

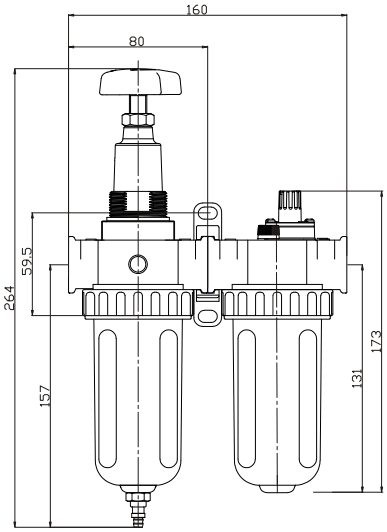












F.R.L. Air Control Unit

SPECIFICATION :

Part No. / Description		C892 / FRL892	C893 / FRL893	C894 / FRL894	C832 / FRL832	C833 / FRL833	C834 / FRL834	FRL834H
Medium		Air						
Air Inlet (PT.NPT)		1/4”	3/8”	1 /2”	1/4”	3/8”	1 /2”	1 /2”
Filter Element		5μ						
Operating Pressure Range	Semi-Auto Drain Valve	(14.5 PSI / 1Bar / 0.1Mpa) ~ (160PSI/11Bar/1.1Mpa)			(14.5 PSI / 1Bar / 0.1Mpa) ~ (230PSI/16Bar/1.6Mpa)			
	Auto Drain Valve	(43PSI / 3Bar / 0.3Mpa) ~ (160 PSI / 11Bar /1.1Mpa)			(43 PSI / 3 Bar / 0.3 Mpa) ~ (175 PSI / 12Bar / 1.2Mpa)			(43 PSI / 3 Bar/ 0.3 Mpa) ~ (175 PSI / 12Bar / 1.2Mpa)
	Manual Drain Valve	(0 PSI / 0 Ba r / 0 Mpa) ~ (160 PSI / 11Bar / 1.1Mpa)			(0 PSI / 0 Ba r / 0 Mpa) ~ (230 PSI / 16 Bar / 1.6 Mpa)			(0 PSI / 0 Bar / 0 Mpa) ~ (230PSI / 16Ba r/ 1.6M pa)
Max Flow (L/min) at 6 Bar		2250	2500	3000	2250	2500	3000	3000
Operation Temperature Range		5 ~ 60 ℃						
Drain Capacity		Semi-Auto Drain Valve & Manual Drain Valve: 80 ml / Auto Drain Valve : 23 ml						
Oil Capacity		150ml						
Minimum Dripping Flow Rate (L/min(ANR))*		1/4":30 3/8":40 1/2":50						
Recommendable Lubricants		ISO VG-32						
More Options								
Air Filter		F892	F893	F894	F832	F833	F834	
Regulator		R892	R893	R894	R832	R833	R834	
Air Filter+Regulator		FR892	FR893	FR894	FR832	FR833	FR834	
Lubricator		L892	L893	L894	L832	L833	L834	

* The flow rate is 5 drops or greater/min under the following conditions : Inlet pressure of 0.5 MPa; Class 1 turbine oil (ISO VG32); Temperature at 20°C; Oil adjustment valve fully open.
* For a circuit that repeatedly turns ON and OFF on the outlet side, make the adjustment so that the average air consumption per minute becomes the minimum dripping flow rate or more.
*Lubrication cannot be properly performed if the operating flow rate is too low. Select an appropriately size lubricator by referring to the minimum dripping flow rate provided in the catalog.

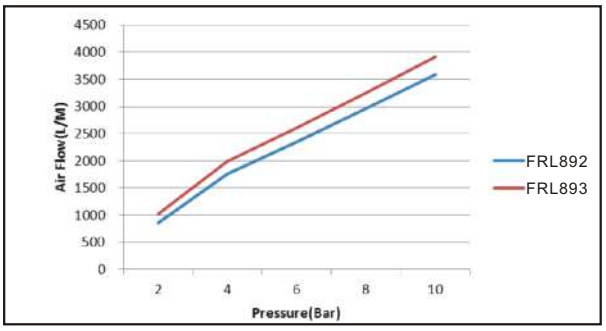
FEATURES :

1. Steel guards offer better protection
2. Easy to install and disassembly

ORDER INFORMATION :

FRL 89 3 - A
- A: AUTO DRAINAGE (OPTOIN)
- 3: PORT SIZE 2-1/4” 3-3/8” 4-1/2”
- 89: TYPE SERIES
- FRL: F/R.L. COMBINATION

C 89 3 - A
- A: AUTO DRAINAGE (OPTOIN)
- 3: PORT SIZE 2-1/4” 3-3/8” 4-1/2”
- 89: TYPE SERIES
- C: F/R.L. COMBINATION



Auto Drain Valve
1/8"PT Male thread

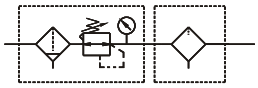
Semi-Auto Drain Valve
Adaptation ID 6.5mm or 1/4" hose

Manual Drain Valve
Adaptation ID 5mm or 3/16" hose

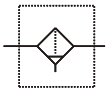
F.R.L. Air Control Unit

C90 CE

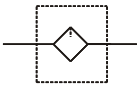
C90



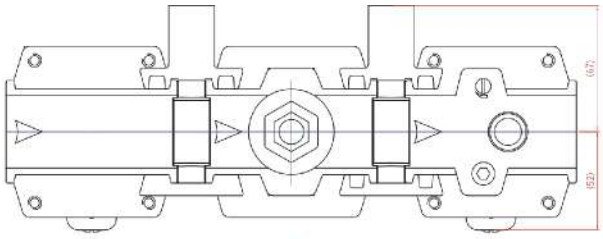
F90



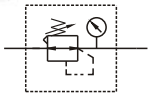
L90

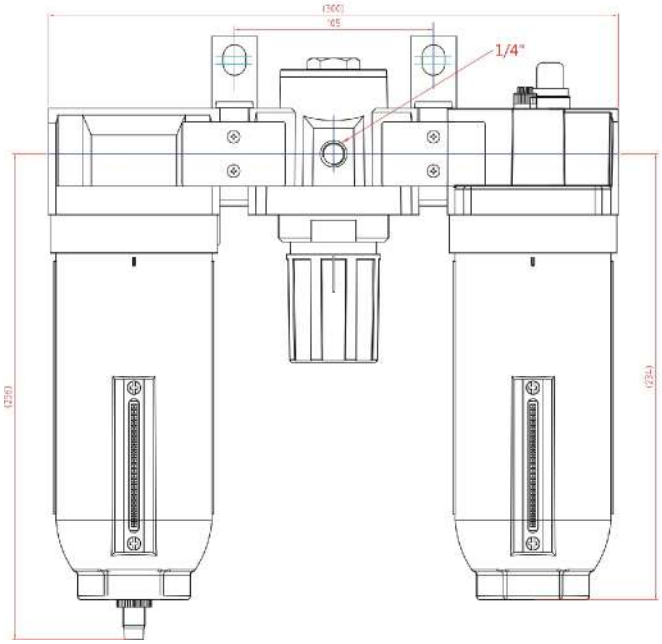


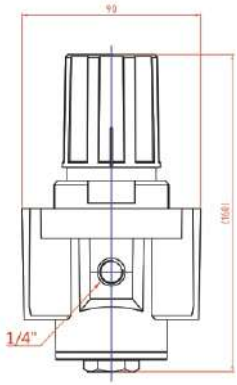
90 Series Drawing

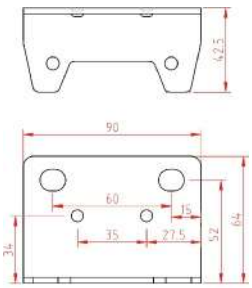


R90









F9018

F.R.L. Air Control Unit

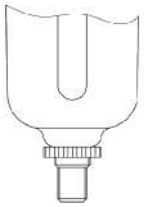
SPECIFICATION :

Description / Part No.	C904	C906	C908	C904A	C906A	C908A
Medium	Air					
Air Inlet (PT.NPT)	1/2"	3/4"	1"	1/2"	3/4"	1"
Filter Element	5μ					
Operating Pressure Range	(0PSI/0Bar/0Mpa) ~ (230PSI/16Bar/1.6Mpa)			(43PSI/3Bar/0.3Mpa) ~ (175PSI/12Bar/1.2Mpa)		
Max Flow (L/min) at 6 Bar	6000	6400	6800	6000	6400	6800
Operation Temperature Range	5 ~ 60 ℃					
Drain Capacity	300ml			70ml		
Oil Capacity	500ml					
Minimum Dripping Flow Rate (L/min(ANR))*	1/2" & 3/4" : 190 1": 200					
Recommendable Lubricants	ISO VG-32					
More Options						
Air Filter	F906	F908		F906A	F908A	
Regulator	R906	R908				
Lubricator	L906	L908				

* The flow rate is 5 drops or greater/min under the following conditions : Inlet pressure of 0.5 MPa; Class 1 turbine oil (ISO VG32); Temperature at 20°C; Oil adjustment valve fully open.
* For a circuit that repeatedly turns ON and OFF on the outlet side, make the adjustment so that the average air consumption per minute becomes the minimum dripping flow rate or more.
*Lubrication cannot be properly performed if the operating flow rate is too low. Select an appropriately size lubricator by referring to the minimum dripping flow rate provided in the catalog.

FEATURES :

1. Heavy duty type -- High Air flow and drain capacity
2. Transparent water level indicator for easy checking
3. Suitable for any high flow air pressure equipment or system



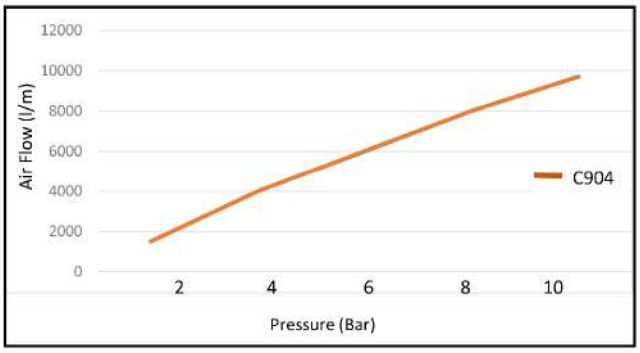
Auto Drain Valve
1/8"PT Male thread

ORDER INFORMATION :

C 90 6 - A

- A: AUTO DRAINAGE (OPTION)
- 6: PORT SIZE 6-3/4" 8-1"
- 90: TYPE SERIES
- C: F/R.L. COMBINATION

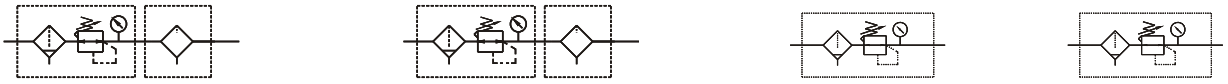
Semi-Auto Drain Valve
Adaptation ID 6.5mm or 1/4" hose



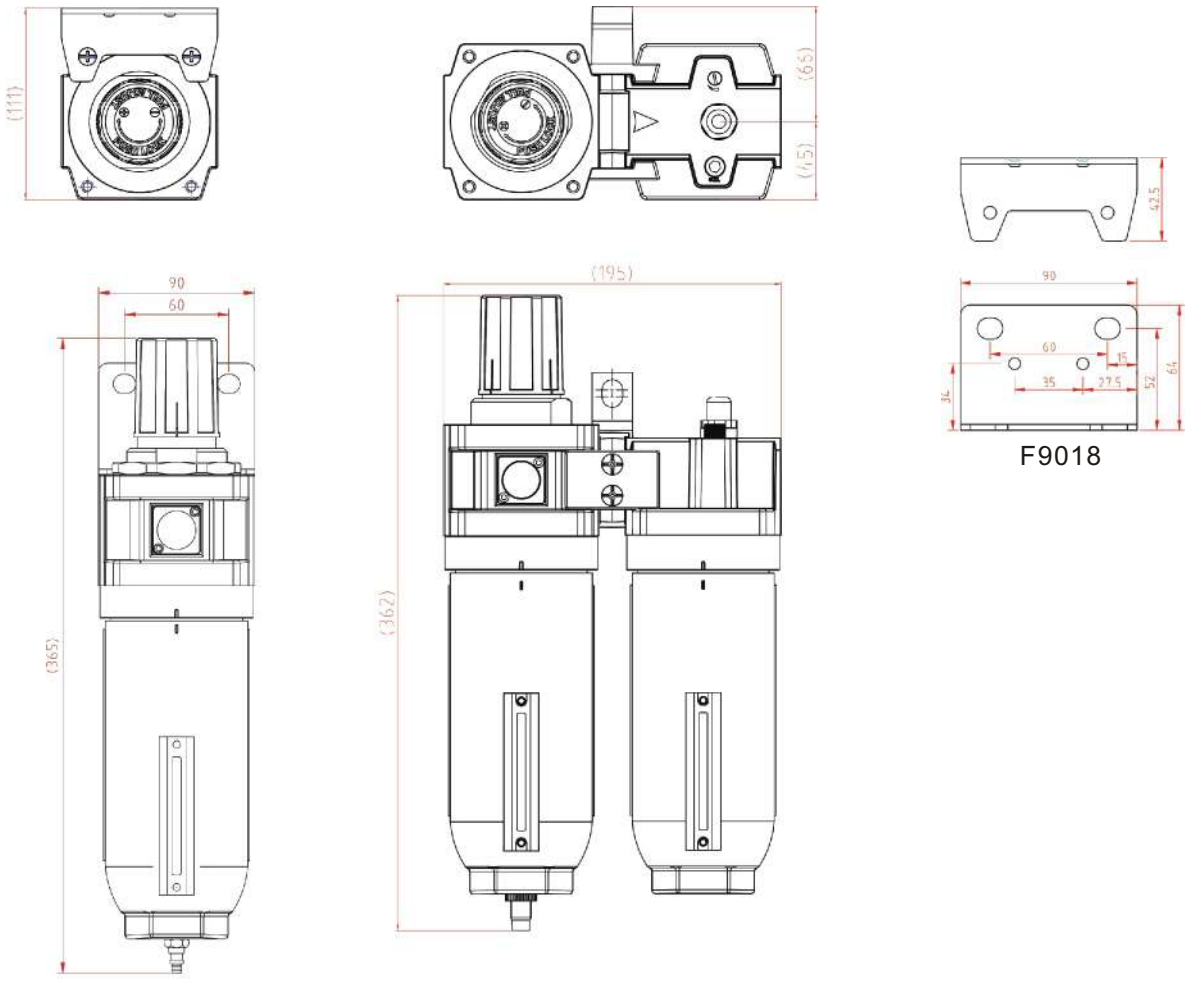
Manual Drain Valve
Adaptation ID 5mm or 3/16" hose

FRL90 CE

FRL90 | FRL92 | FR90 | FR92



FRL90 Series Drawing



F.R.L. Air Control Unit

SPECIFICATION :

Description / Part No.	FRL904	FRL906	FRL908	FRL904A	FRL906A	FRL908A
	FRL924	FRL926	FRL928	FRL924A	FRL926A	FRL928A
Medium	Air					
Air Inlet (PT.NPT.G)	1/2"	3/4"	1"	1/2"	3/4"	1"
Filter Element	5μ					
Operating Pressure Range	(0PSI/0Bar/0Mpa) ~ (230PSI/16Bar/1.6Mpa)			(43PSI/3Bar/0.3Mpa)~ (175PSI/12Bar/1.2Mpa)		
Max Flow (L/min) at 6 Bar	6000	6400	6800	6000	6400	6800
Operation Temperature Range	5℃ ~ 60 ℃					
Drain Capacity	300ml			70ml		
Oil Capacity	500ml					
Minimum Dripping Flow Rate (L/min(ANR))*	1/2" & 3/4" : 190 1": 200					
More Options						
Air Filter+Regulator	FR904	FR906	FR908	FR904A	FR906A	FR908A
	FR924	FR926	FR928	FR924A	FR926A	FR928A

* The flow rate is 5 drops or greater/min under the following conditions : Inlet pressure of 0.5 MPa; Class 1 turbine oil (ISO VG32); Temperature at 20°C; Oil adjustment valve fully open.
* For a circuit that repeatedly turns ON and OFF on the outlet side, make the adjustment so that the average air consumption per minute becomes the minimum dripping flow rate or more.
*Lubrication cannot be properly performed if the operating flow rate is too low. Select an appropriately size lubricator by referring to the minimum dripping flow rate provided in the catalog.

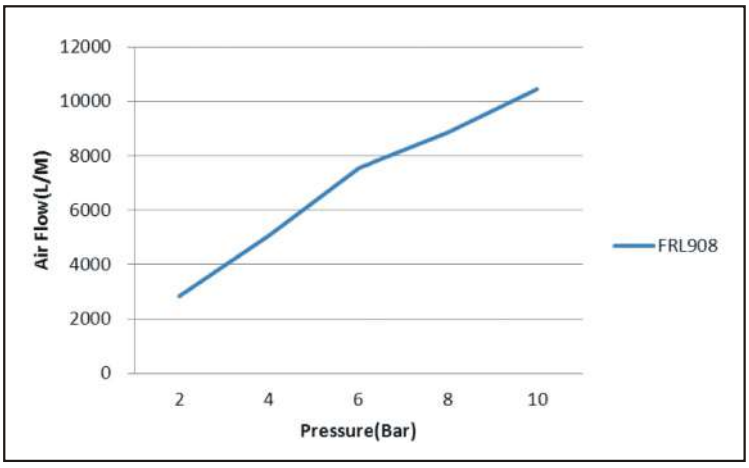
FEATURES :

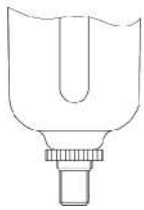
1. Heavy duty type -- High Air flow and drain capacity
2. Transparent water level indicator for easy checking
3. Suitable for any high flow air pressure equipment or system

ORDER INFORMATION :

FRL 9 0 6 - A

- A: AUTO DRAINAGE (OPTION)
- 6: PORT SIZE
- 0: GAUGE
  0-GAUGE 2-Infix GAUGE
- 9: TYPE SERIES
- FRL: F/R.L. COMBINATION



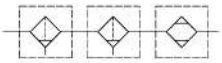


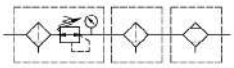
Auto Drain Valve
1/8"PT Male thread

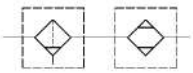
Semi-Auto Drain Valve
Adaptation ID 6.5mm or 1/4" hose

Manual Drain Valve
Adaptation ID 5mm or 3/16" hose

MAIN LINE FILTER INTERNAL STRUCTURE

FLMA76 

FR-FLM76 

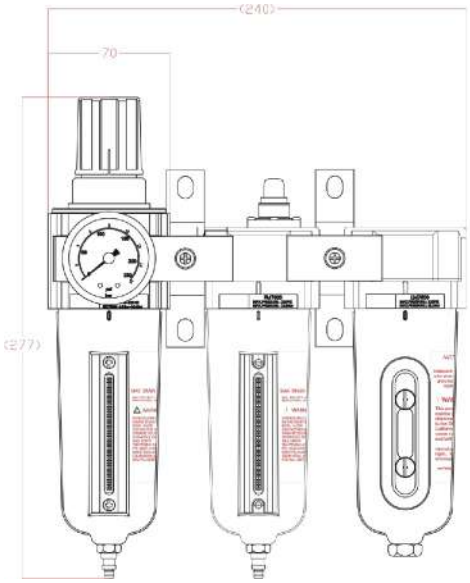
FLM76 

LM76 

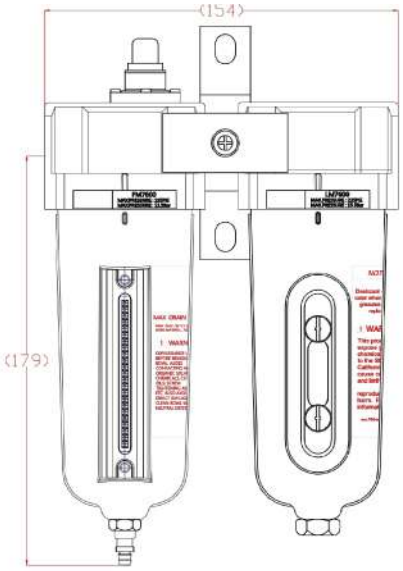
FM76 

Desiccant

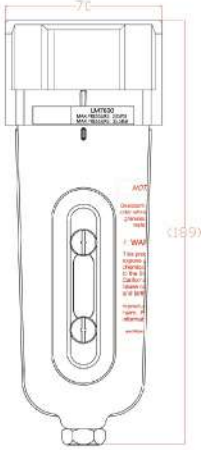
FR-FLM76



FLM76



LM76



MAIN LINE FILTER

SPECIFICATION:

Description / Part No.	FR-FLM764A / FR-FLM764A	FR-FLM764 / FR-FLM766	FM764 / FM766	LM764 / LM766	FA764 / FA766
Medium	Air				
Port (PT.NPT.G)	1/2" , 3/4"				
Filter Element	5μ +0.01μ +Desiccant		0.01μ	Desiccant	Active charcoal
Proof Service Pressure	175PSI(12 Bar/1.2MPa)	230 PSI (16 Bar / 1.6 MPa)			
Operation Temperature Range	5~60 °C (41~140 °F)				
More Options					
Filter+Oil Filter(F76+FM76)	FFM764 FFM766				
Filter+Oil Filter+Active Carbon (F76+FM76+FA76)	FRLMA764 FLMA764 FLMA766				
Oil Filter + Desiccant Dryer (FM76+LM76)	FLM764 FLM766				
Filter+Oil Filter+Desiccant Dryer (F76+FM76+LM76)	FR-FLM764 FR-FLM766 FFLM764 FFLM766				
Meet the International Norms	ISO 8573-1				

FEATURES :

1.5μ filter element:
Remove oil, condensed water and particles >5μ.

2.0.01filter element:
Remove 99.99% particles and oil>0.01μ.

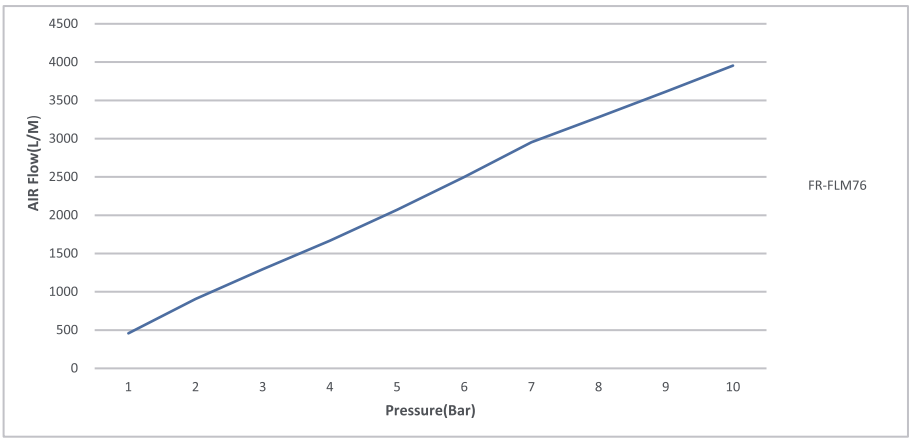
3. Active charcoal filter element:
Absorb oil of vapors and harmful gases.

4. Desiccant beads change color from blue to pink when they need to be changed or reactivated.

APPLICATION

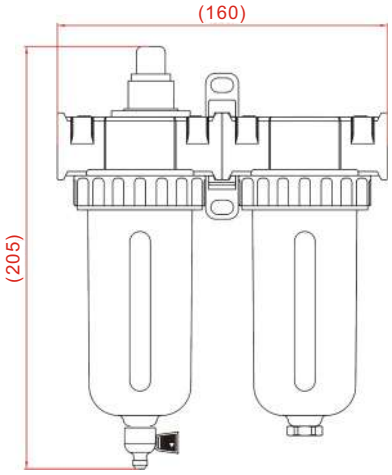
FM Type: Paint Spray Gun, Control systems, Sandblast, Fluids, Air condition systems.

FA Type: Packing Industry, Food & Beverage Industry, Pressure Chambers, Dental Technology.



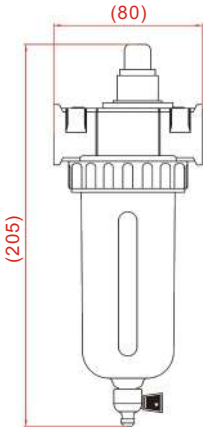
COALESCING FILTER / DESICCANT DRYER

FLM86

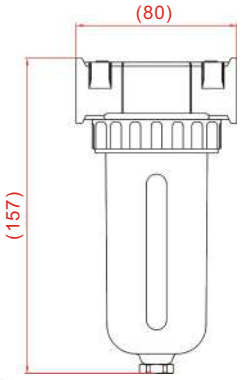


Desiccant

F-LM86

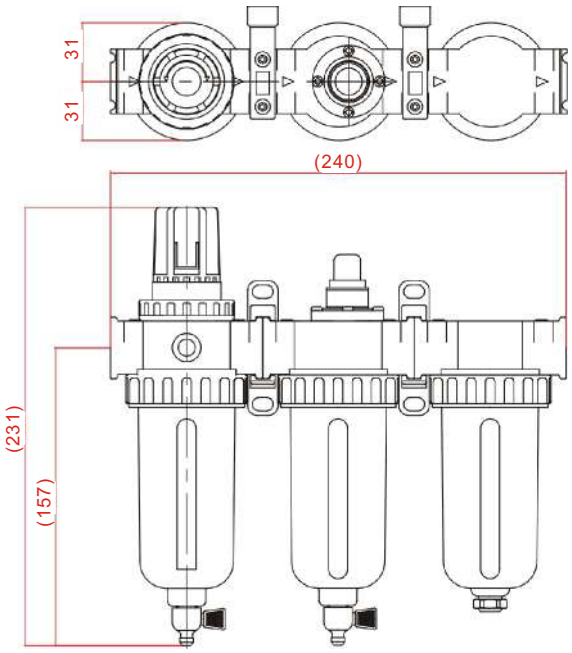


FM86



LM86

FR-FLM86



Coalescing Filter / Desiccant Dryer

SPECIFICATION :

Description \ Part No.		FLM862 FLM863 FLM864	FM862 FM863 FM864	LM862 LM863 LM864	FR-FLM862 FR-FLM863 FR-FLM864
Medium		Air			
Air Inlet(PT.NPT)		1/2" , 3/8" , 1/4"			
Filter Element		0.01μ+Desiccant	0.01μ	Desiccant	5μ+0.01μ+Desiccant
Operating Pressure Range	Semi-Auto Drain Valve	(14.5 PSI / 1Bar / 0.1Mpa) ~ (175PSI/12Bar/1.2Mpa)			
	Manual Drain Valve	(0PSI/0Bar/0Mpa) ~ (175PSI/12Bar/1.2Mpa)			
Max Flow (L/min) at 10 Bar		3400			
Operation Temperature Range		5 ~ 60 ℃			
Drain Capacity		80ml			
Meet the internatiol norms		ISO 8573-1			

FEATURES :

1. The Red Service Indicator will rise when filter element needs to be changed.

Auto Drain Valve
1/8"PT Male thread

Semi-Auto Drain Valve
Adaptation ID 6.5mm or 1/4" hose

Manual Drain Valve
Adaptation ID 5mm or 3/16" hose

2. Desiccant beads change color from blue to pink when they need to be changed or reactivated.
3. 0.01μ filter element removes 99.9% of oil vapor particles.
4. Clear bowl with metal guards provides easy viewing for contents as well as providing impact protection.
5. Quick release bowl for easy maintenance
6. An additional filter after desiccant beads to ensure clean downstream air.

FUNCTION :

1. Coalescing filter removes oil vapors, which can get past standard filters and water separators.
2. Desiccant dryer reduces humidity in compressed air lines, a MUST HAVE for paint spraying operations.

APPLICATION :

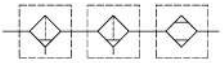
1. Paint Spray Gun (gravity, siphon, and pressure feed styles)
2. Air measuring instruments (requiring clean, dry air)

RECOMMENDATION :

1. It is recommended to install a standard air filter/water separator before the air cleaner / dryer to remove larger debris (>5μ) and condensed water.
2. It is also recommended to have a shutoff valve upstream of the air cleaner / dryer for easy depressurization for service.

MAIN LINE FILTER INTERNAL STRUCTURE

FLMA96



FLMA96+GAUGE

Activated-Charcoal -Filter FA96

For absorption of oil vapors.
Protecing the painter from the harmful vapors and gases.

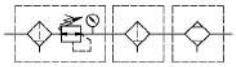
Pre-Filter F96

The first filter stage separates particle>5 μ condensed water and oil
The inside filter element of PE material separates the particles large than 5 μ
Centrifugal force from Cyclone type filter removes water,oil and impurities.

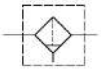
Micro-Filter FM96

The second filter stage separates smallest particle>0.01 μ efficiency to 99.998%

FR-FLM96

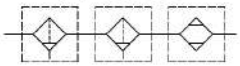


FM96



LM96

FFLM96



FEATURES :

Desiccant

1.5μ filter element:
Remove oil, condensed water and particles >5μ.

2.0.01filter element:
Remove 99.99% particles and oil>0.01μ.

3. Active charcoal filter element:
Absorb oil of vapors and harmful gases.

4. Desiccant beads change color from blue to pink when they need to be changed or reactivated.

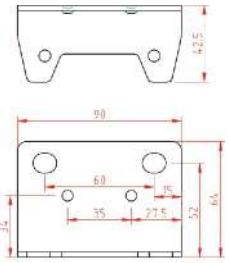
APPLICATION

FM Type: Paint Spray Gun, Control systems, Sandblast, Fluids, Air condition systems.
FA Type: Packing Industry, Food & Beverage Industry, Pressure Chambers.

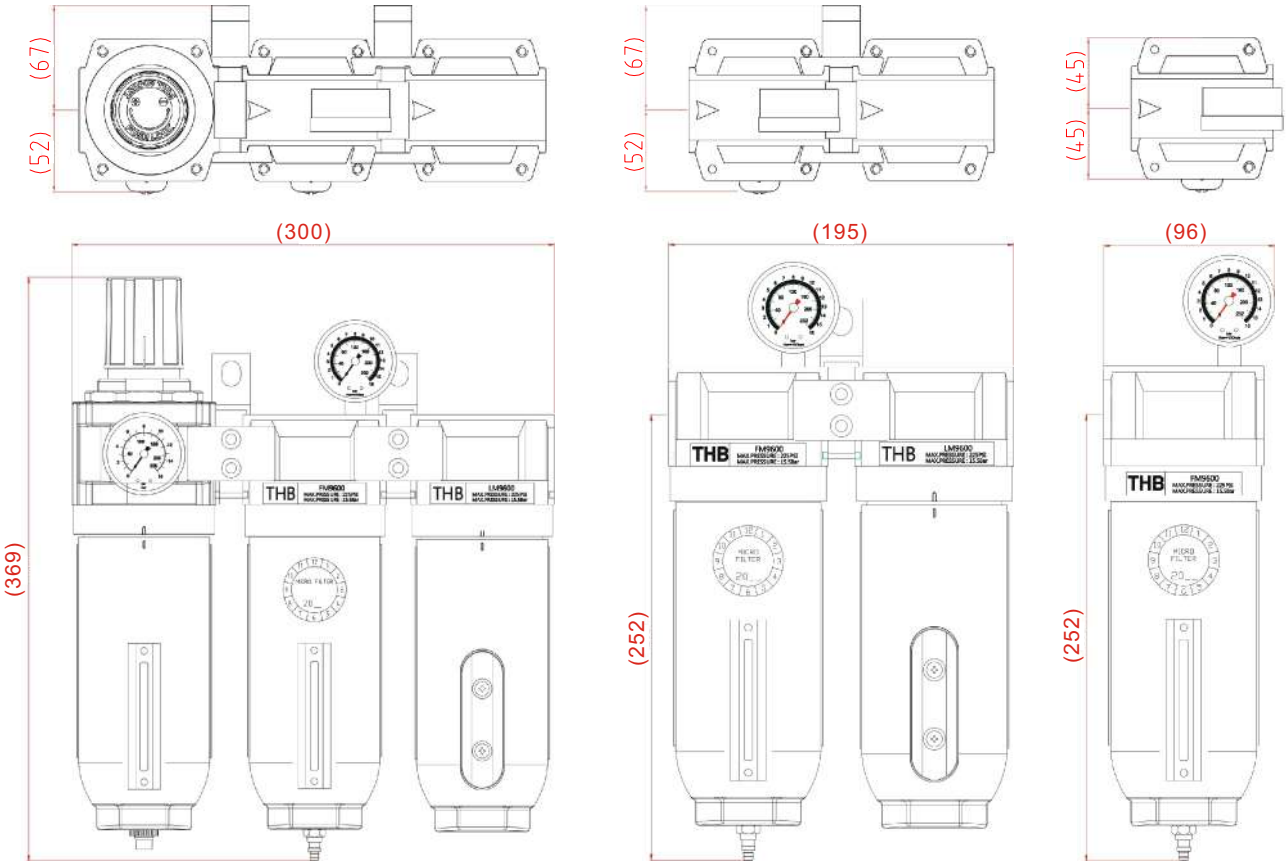
MAIN LINE FILTER

SPECIFICATION:

Description / Part No.	FR-FLM964	FM964A	F964A	F964	FA964	FM964	LM964
	FR-FLM966	FM966A	F966A	F966	FA966	FM966	LM966
	FR-FLM968	FM968A	F968A	F968	FA968	FM968	LM968
Medium	Air						
Port (PT.NPT.G)	1/2" , 3/4" , 1"						
Filter Element	5μ+0.01μ +Desiccant	0.01μ	5μ		Active charcoal	0.01μ	Desiccant
Proof Service Pressure	175 PSI (12 Bar / 1.2 MPa)			225 PSI (15.5 Bar / 1.55 MPa)			
Operation Temperature Range	5~60 °C (41~140 °F)						
More Options							
Filter+Oil Filter(F96+FM96)	FFM964 FFM966 FFM968						
Filter+Oil Filter+Active Carbon (F96+FM96+FA96)	FRLMA964 FLMA964 FLMA966 FLMA968						
Oil Filter + Desiccant Dryer (FM96+LM96)	FLM964 FLM966 FLM968						
Filter+Oil Filter+Desiccant Dryer (F96+FM96+LM96)	FR-FLM964 FR-FLM966 FR-FLM968 FFLM964 FFLM966 FFLM968						
Meet the International Norms	ISO 8573-1						



F9018



JAPANESE STYLE - FOLDABLE FITTING

Part No.	Size
S10F-17SHA	1/4"HOSE
S15F-17SHA	
S10F-20SHA	5/16"HOSE
S15F-20SHA	
S10F-30SHA	3/8"HOSE
S15F-30SHA	
S10F-40SHA	1/2"HOSE
S15F-40SHA	
S10F-20SFA	1/4"PT
S15F-20SFA	
S10F-30SFA	3/8"PT
S15F-30SFA	
S10F-40SFA	1/2"PT
S15F-40SFA	

Part No.	Size
S10F-20SMA	1/4"PT
S15F-20SMA	
S10F-30SMA	3/8"PT
S15F-30SMA	
S10F-40SMA	1/2"PT
S15F-40SMA	
S10F-20SPA	5x8mm HOSE
S15F-20SPA	
S10F-30SPA	6.5x10mm HOSE
S15F-30SPA	
S10F-40SPA	8x12mm HOSE
S15F-40SPA	
S10F-45SPA	10x14mm HOSE
S15F-45SPA	
S10F-50SPA	11x16mm HOSE
S15F-50SPA	

FEATURES :

1.Easy to operate and labor-saving with air connection.
2.The body without air intake valve makes the air flow smooth and big.
3.A built-in "lock mechanism" can prevents accidental disconnection.
4.Remove the remain air on connection part before disconnection the plug.
5.Wide variety provides best choice accordingly to application.

APPLICATION :

1.Pneumatic tools
2.Air piping
3.Air pressure equipment

S10F-20SMA

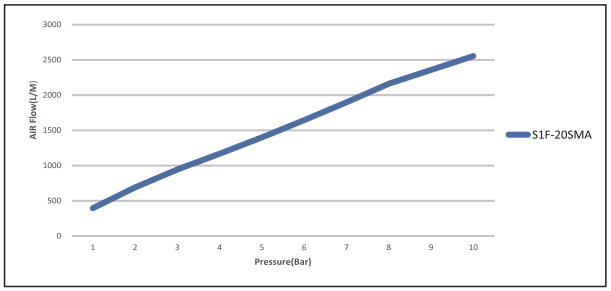
20PMA

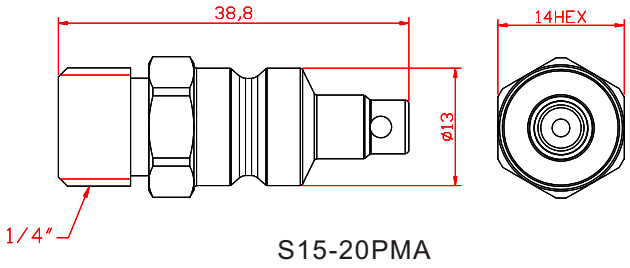
S15F-20SMA

S15-20PMA

SPECIFICATION :

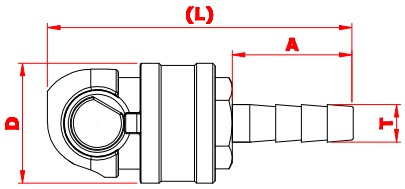
Part No.	S10F	S15F
Thread	PT	
Working Pressure	218PSI(15Bar/1.5MPa)	
Maximum Pressure	363PSI / 25Bar / 2.5Mpa	
Temperature Range	-20°C~ + 80°C	
Size	1/4" (20Type)	
	3/8" (30Type)	
	1 /2" (40Type)	
Meet The International Norms	JIS B 0203	
Material	Steel / zinc alloy	



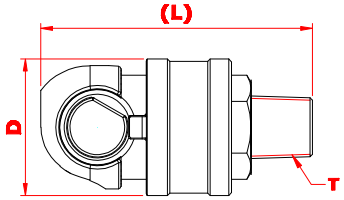


S15-20PMA

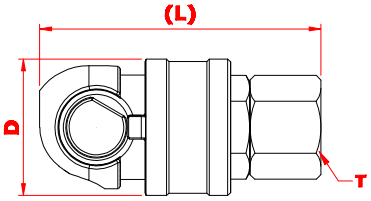
AIR QUICK COUPLER



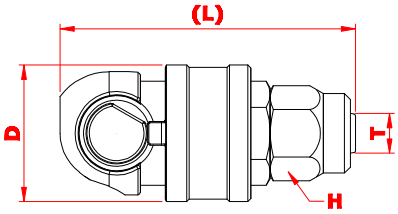
Part NO.	A	ØT	ØD	(L)
S10F-17SHA	24	7.4	28.8	60.5
S15F-17SHA				
S10F-20SHA	30	9		66.5
S15F-20SHA				
S10F-30SHA	34	11.3		70.5
S15F-30SHA				
S10F-40SHA	36	15		73.5
S15F-40SHA				



Part NO.	ØT	ØD	(L)
S10F-20SMA	1/4"	28.8	57.3
S15F-20SMA			
S10F-30SMA	3/8"		57.3
S15F-30SMA			
S10F-40SMA	1/2"		63.3
S15F-40SMA			



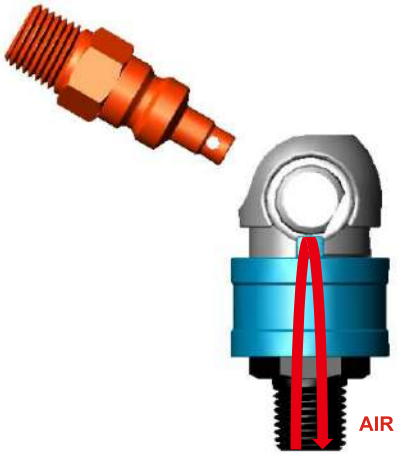
Part NO.	ØT	ØD	(L)
S10F-20SFA	1/4"	28.8	52.3
S15F-20SFA			
S10F-30SFA	3/8"		52.3
S15F-30SFA			
S10F-40SFA	1/2"		57.3
S15F-40SFA			



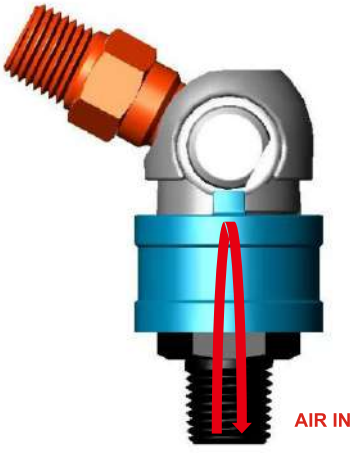
Part NO.	ØT	ØD	H	(L)
S10F-20SPA	5x8mm	28.8	14	51.0
S15F-20SPA				
S10F-30SPA	6.5x10mm		15	53.0
S15F-30SPA				
S10F-40SPA	8x12mm		19	54.5
S15F-40SPA				

INSTRUCTION

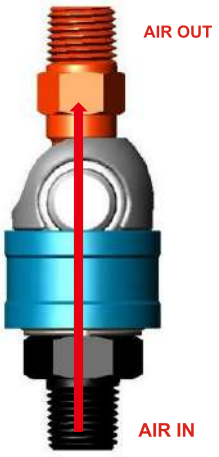
1.Install the foldable fitting



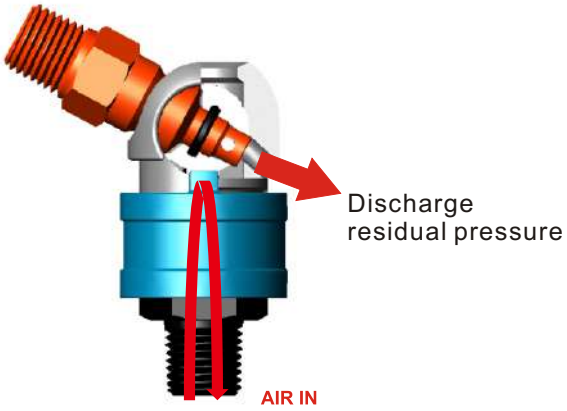
2.Install the plug



3. The plug locks automatically when it is pushed upwards.



4. Push the shell downward to unlock the joint and fold the air source automatically to shut off the residual pressure and discharge it.



JAPANESE STYLE - REGULAR TYPE

Part No.	Size			Part No.	Size
17SHA	1/4"HOSE			17PHA	1/4"HOSE
20SHA	5/16"HOSE			20PHA	5/16"HOSE
30SHA	3/8"HOSE			30PHA	3/8"HOSE
40SHA	1/2"HOSE			40PHA	1/2"HOSE
20SFA	1/4"PT			10PFA	1/8"PT
30SFA	3/8"PT			20PFA	1/4"PT
				30PFA	3/8"PT
40SFA	1/2"PT			40PFA	1/2"PT
20SMA	1/4"PT			10PMA	1/8"PT
30SMA	3/8"PT			20PMA	1/4"PT
				30PMA	3/8"PT
40SMA	1/2"PT			40PMA	1/2"PT
20SPA	5x8mm hose			20PPA	5x8mm hose
30SPA	6.5x10mm hoss			30PPA	6.5x10mm hoss
40SPA	8x12mm hose			40PPA	8x12mm hose
45SPA	10x14mm hose			45PPA	10x14mm hose
50SPA	11x16mm hose			50PPA	11x16mm hose

FEATURES：

1.One-way automatic shut-off valve in the socket.
2.Wide variety provides best choice accordingly to application.
3.Hardened important parts are extremely wear resistant and durable.
4.Tested 100,000 times, coupler connection is accurate and reliable.

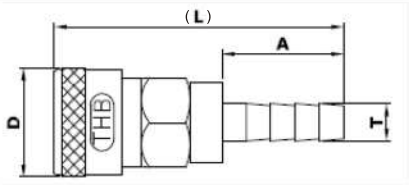
APPLICATION

1.Pneumatic tools
2.Air piping
3.Air pressure equipment

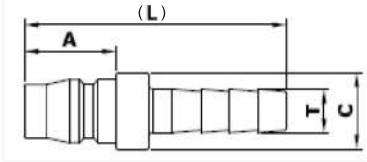
SPECIFICATION

Material	Stainless	Steel
Thread	PT	
Working Pressure	218PSI(15Bar/1.5MPa)	
Maximum Pressure	290PSI(20Bar/2MPa)	
Temperature Range	-20°C~ + 80°C	
Size	1/4” (20Type)	
	3/8” (30Type)	
	1 /2” (40Type)	
Meet The International Norms	JIS B 0203	

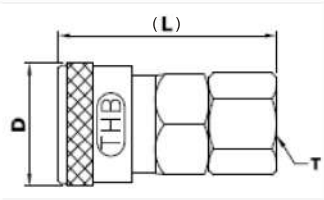
AIR QUICK COUPLER



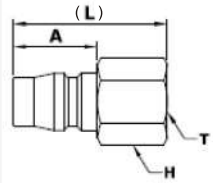
Part No.	A	φT	φD	(L)
17SHA	24	7.4	26.5	65.5
20SHA	30	9		71.5
30SHA	30	11.3		71.5
40SHA	36	14		77.5



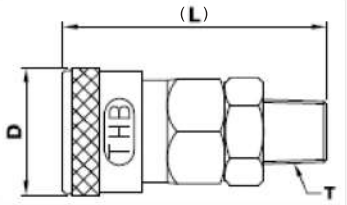
Part No.	A	φT	φC	(L)
17PHA	20	7.2	16	51
20PHA		9		57
30PHA		11.3		60.5
40PHA		14		60.5



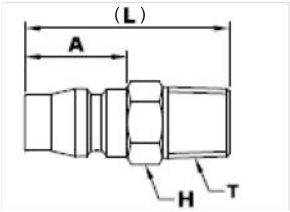
Part No.	φD	T	(L)
20SFA	26.5	1/4"	48.5
30SFA		3/8"	49.5
40SFA		1/2"	51.5



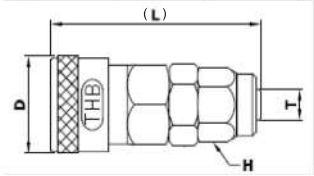
Part No.	A	H	T	(L)
10PFA	20	17	1/8"	36.5
20PFA		17	1/4"	36.5
30PFA		21	3/8"	37.2
40PFA		24	1/2"	40.5



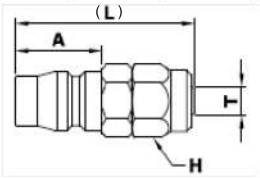
Part No.	φD	T	(L)
20SMA	26.5	1/4"	54.5
30SMA		3/8"	55.5
40SMA		1/2"	57.5



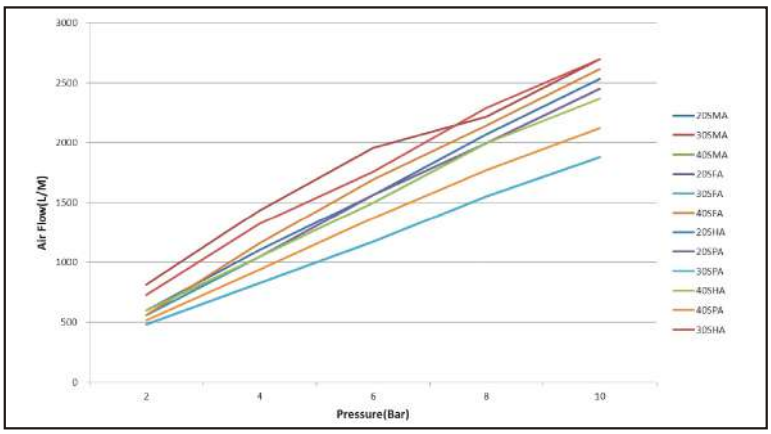
Part No.	A	H	T	(L)
10PMA	20	14	1/8"	37
20PMA		14	1/4"	40
30PMA		17	3/8"	42.5
40PMA		21	1/2"	44.4



Part No.	φD	H	(L)	T
20SPA	26.5	14	55.7	5x8mm
30SPA		15	58	6.5x10mm
40SPA		19	58	8x12mm
45SPA		19	58	10x14mm
50SPA		24	58	11x16mm



Part No.	A	H	(L)	T
20PPA	20	14	41.5	5x8mm
30PPA		15	43	6.5x10mm
40PPA		19	45	8x12mm
45PPA		19	45	10x14mm
50PPA		24	55	11x16mm



JAPANESE STYLE - ONE TOUCH

Part No.	Size			Part No.	Size
17SHT	1/4"Hose			17PHA	1/4"Hose
20SHT	5/16"Hose			20PHA	5/16"Hose
30SHT	3/8"Hose			30PHA	3/8"Hose
40SHT	1/2"Hose			40PHA	1/2"Hose
20SFT	1/4"PT			10PFA	1/8"PT
30SFT	3/8"PT			20PFA	1/4"PT
				30PFA	3/8"PT
40SFT	1/2"PT			40PFA	1/2"PT
20SMT	1/4"PT			10PMA	1/8"PT
30SMT	3/8"PT			20PMA	1/4"PT
				30PMA	3/8"PT
40SMT	1/2"PT			40PMA	1/2"PT
20SPT	5x8mm hose			20PPA	5x8mm hose
30SPT	6.5x10mm hose			30PPA	6.5x10mm hose
40SPT	8x12mm hose			40PPA	8x12mm hose
45SPT	10x14mm hose			45PPA	10x14mm hose
50SPT	11x16mm hose			50PPA	11x16mm hose

FEATURES：

1.Improved operation.
2.Chrome plated steel body for anti-corrosion.
3.One-touch series couplers could be widely applied for male and female thread connections, hose connectors and manifolds.

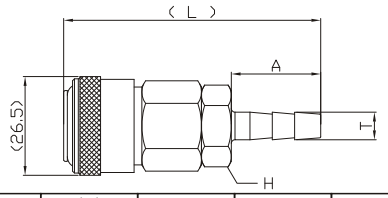
APPLICATION：

1.Pneumatic tools
2.Air piping
3.Air pressure equipment

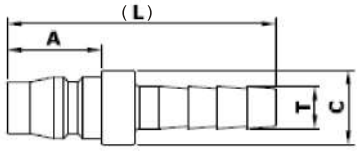
SPECIFICATION：

Material	Steel
Thread	PT
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20°C~ + 80°C
Size	1/4"(20 TYPE)
	3/8"(30 TYPE)
	1 /2"(40 TYPE)
Meet The International Norms	JIS B 0203

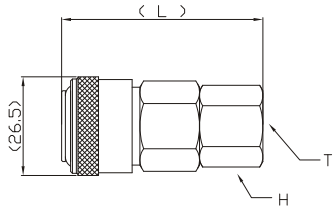
AIR QUICK COUPLER



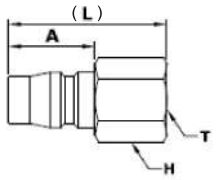
Part NO.	(L)	φT	H	A
17SHT	69.5	7.4	19	24
20SHT	75 .5	9	19	30
30SHT	79 .5	11.3	19	34
40SHT	81 .5	14	19	34



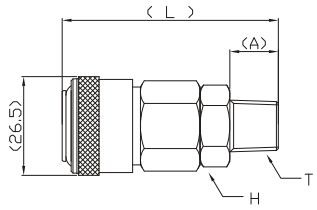
Part NO.	A	φT	φC	(L)
17PHA	20	7.2	16	51
20PHA		9		57
30PHA		11.3		60.5
40PHA		14		60.5



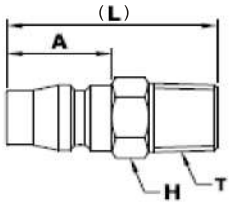
Part NO.	(L)	T (II)	H
20SFT	54.5	1/4"	19
30SFT	53.5	3/8"	21
40SFT	55.4	1/2"	24



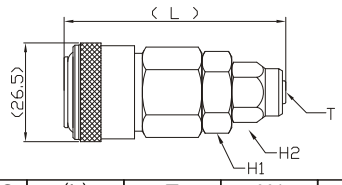
Part NO.	A	H	T	(L)
10PFA	20	17	1/8"	36.5
20PFA		17	1/4"	36.5
30PFA		21	3/8"	37.2
40PFA		24	1/2"	40.5



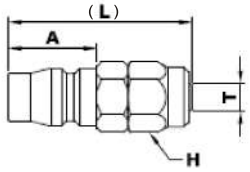
Part NO.	(L)	T (II)	H	A±1
20SMT	58.5	1/4"	19	13
30SMT	59.5	3/8"	19	14
40SMT	61.5	1/2"	21	16



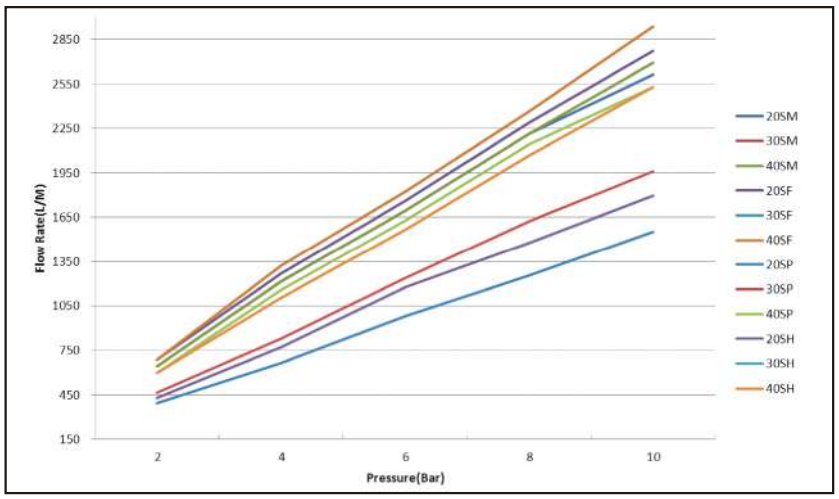
Part NO.	A	H	T	((L))
10PMA	20	14	1/8"	37
20PMA		14	1/4"	40
30PMA		17	3/8"	42.5
40PMA		21	1/2"	44.4



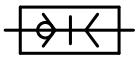
Part NO.	(L)	T	H1	H2
20SPT	60	5x8mm	19	14
30SPT	61.5	6.5x10mm	19	15
40SPT	63.5	8x12mm	19	19
45SPT	63.5	10x14mm	19	19
50SPT	72.5	11x16mm	24	24



Part NO.	A	H	(L)	T
20PPA	20	14	41.5	5x8mm
30PPA		15	43	6.5x10mm
40PPA		19	45	8x12mm
45PPA		19	45	10x14mm
50PPA		24	55	11x16mm



JAPANESE TYPE



Part No.	Size			Part No.	Size
S1A-20SM	1/4"PT			S1A-20PM	1/4" PT
S1A-30SM	3/8"PT			S1A-30PM	3/8" PT
S1A-20SH	5/16" HOSE			S1A-20PH	5/16" HOSE
S1A-30SH	3/8" HOSE			S1A-30PH	3/8" HOSE
S1A-20SP	5x8mm HOSE			S1A-20PP	5x8mm HOSE
S1A-30SP	6.5x10mm HOSE			S1A-30PP	6.5x10mm HOSE
S1A-40SP	8x12mm HOSE			S1A-40PP	8x12mm HOSE
S1A-20SF	1/4" G			S1A-20PF	1/4" G

FEATURES :

1.A built-in "lock mechanism" locks the sleeve upon connectionthus prevents accidental disconnection.
2.Just push plug into socket for simple connection.
3.The weight is half of steel.
4.Avoid static electricit.
5.Prevent the scrape on the car surface, floor and furniture.
6.The steel ring inside of sleeve is able to prolong the life.

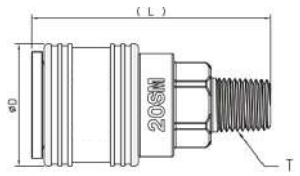
APPLICATION :

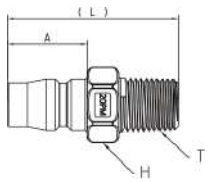
1.Pneumatic tools
2.Air piping
3.Air pressure equipment

SPECIFICATION :

Material	Plastic (PA6+30%GF)
Thread	Male:PT / Female:G
Working Pressure	150PSI(10Bar/1MPa)
Maximum Pressure	218PSI(15Bar/1.5MPa)
Temperature Range	-5℃~60℃

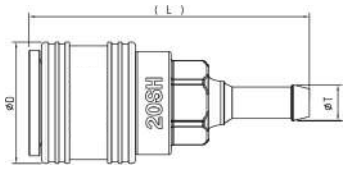
AIR QUICK COUPLER

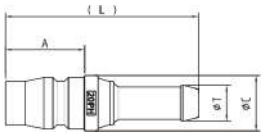




Part NO.	ØD	(L)	T
S1A-20SM	30.7	60.2	1/4"
S1A-30SM			3/8"

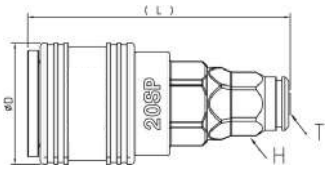
Part NO.	A	(L)	T	H
S1A-20PM	20	43	1/4"	17
S1A-30PM			3/8"	

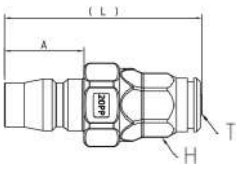




Part NO.	ØD	(L)	ØT
S1A-20SH	30.7	70.6	9
S1A-30SH		72.6	10.5

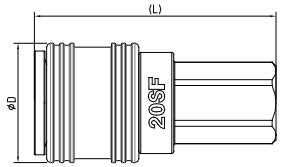
Part NO.	A	(L)	T	H
S1A-20PH	20	49.1	9	14
S1A-30PH		52.1	11.5	16

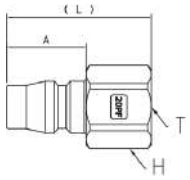




Part NO.	ØD	(L)	T	H
S1A-20SP	30.7	66.4	5x8	14.2
S1A-30SP		68.4	6.5x10	15.2
S1A-40SP		70.4	8x12	19.2

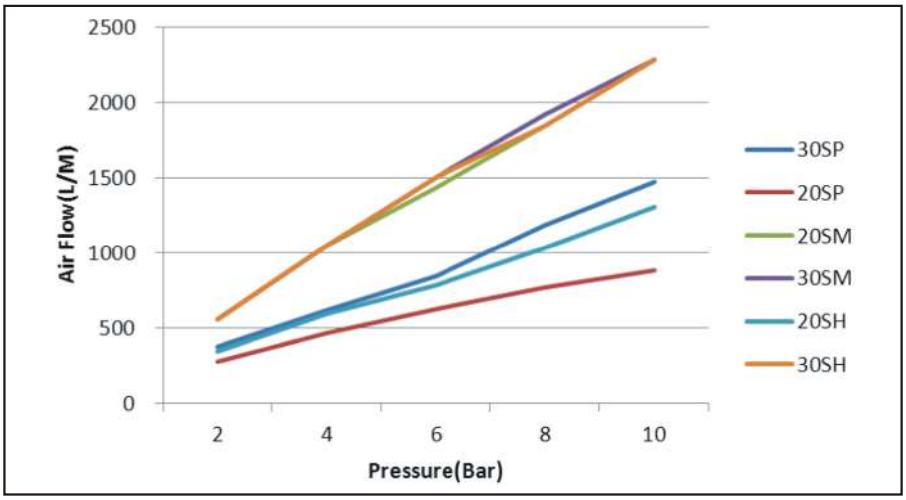
Part NO.	A	(L)	T	H
S1A-20PP	20	50	5x8	14.2
S1A-30PP		52	6.5x10	15.2
S1A-40PP		54	8x12	19.2





Part NO.	D	(L)	T
S1A-20SF	30.7	62	1/4"

Part NO.	A	(L)	T	H
S1A-20PF	20	36.5	1/4"	19



JAPANESE STYLE - HIGH FLOW TYPE

Part No.	Size			Part No.	Size
400SHA	1 /2" HOSE			400PHA	1 /2" HOSE
600SHA	3/4" HOSE			600PHA	3/4" HOSE
800SHA	1" HOSE			800PHA	1" HOSE
400SFA	1 /2" PT			400PFA	1 /2" PT
600SFA	3/4" PT			600PFA	3/4" PT
800SFA	1" PT			800PFA	1" PT
400SMA	1 /2" PT			400PMA	1 /2" PT
600SMA	3/4" PT			600PMA	3/4" PT
800SMA	1" PT			800PMA	1" PT

FEATURES :

1.One-way automatic shut-off valve in the socket.
2.Wide variety provides best choice accordingly to application.
3.Hardened important parts are extremely wear resistant and durable.
4.Tested 100,000 times, coupler connection is accurate and reliable.

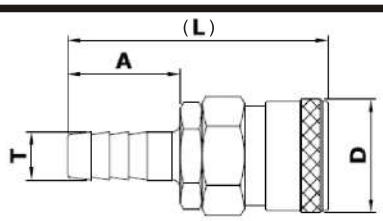
APPLICATION :

1.Pneumatic tools
2.Air piping
3.Air pressure equipment

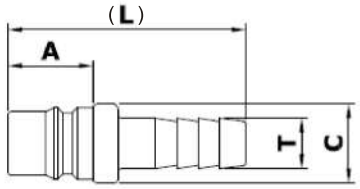
SPECIFICATION :

Material	Stainless	Steel
Thread	PT	
Working Pressure	218PSI(15Bar/1.5MPa)	
Maximum Pressure	290PSI(20Bar/2MPa)	
Temperature Range	-20°C~ + 80°C	
Size	1/2"(400 TYPE)	
	3/4"(600 TYPE)	
	1" (800 TYPE)	
Meet The International Norms	JIS B 0203	

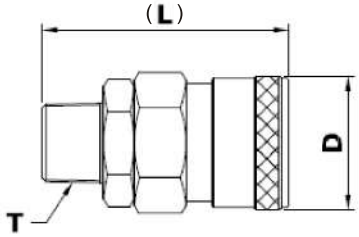
AIR QUICK COUPLER



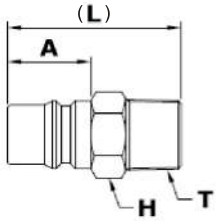
Part No.	A	φT	φD	(L)
400SHA	36	14	35	83.3
600SHA	45	21		92.3
800SHA	55	27		102.3



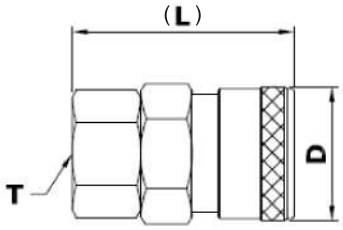
Part No.	A	φT	φC	(L)
400PHA	24	14	22	67
600PHA		21	30	76
800PHA		27	34	86



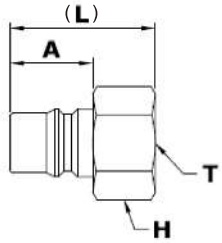
Part No.	φD	T	(L)
400SMA	35	1/2"	64.3
600SMA		3/4"	67.3
800SMA		1"	70.3



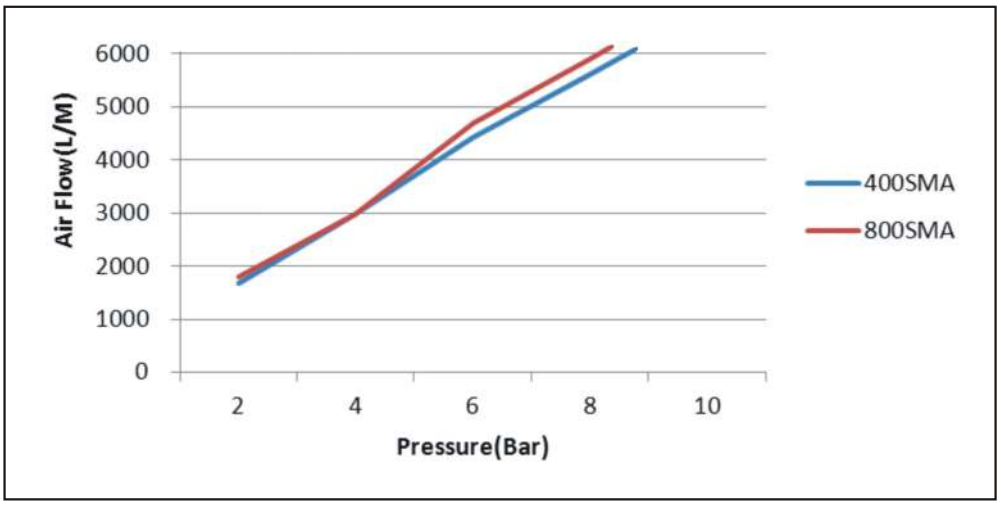
Part No.	A	T	H	(L)
400PMA	24	1/2"	22	50
600PMA		3/4"	32	55
800PMA		1"	35	63



Part No.	φD	T	(L)
400SFA	35	1/2"	58.3
600SFA		3/4"	62.3
800SFA		1"	68.3



Part No.	A	T	H	(L)
400PFA	24	1/2"	29	42
600PFA		3/4"	32	46
800PFA		1"	41	52



SAFETY PUSH-BUTTON COUPLERS

EP 3771856B1
R.O.C. Patent NO.M615967
R.O.C. Patent NO.M587240

Part No.	Size			Part No.	Size
S20P-20SM	1/4"NPT			S25-20PMA	1/4"NPT
S20P-30SM	3/8"NPT			S25-30PMA	3/8"NPT
S20P-20SF	1/4"NPT			S25-20PFA	1/4"NPT
S20P-30SF	3/8"NPT			S25-30PFA	3/8"NPT
S20P-20SH	1/4"HOSE			S25-20PHA	1/4"HOSE
S20P-30SH	3/8"HOSE			S25-30PHA	3/8"HOSE

FEATURES :

1. Compatible with other manufacturer's ARO/Industrial Interchange
2. Yellow zinc dichromate-plated steel
3. Convenient and safe connection design
4. Certificate of RoHS compliance

S22 Aro210 Type

S25 Industrial Type

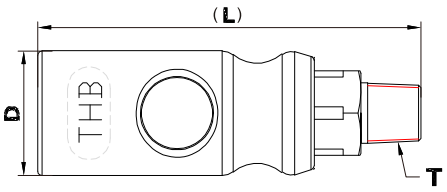
APPLICATION :

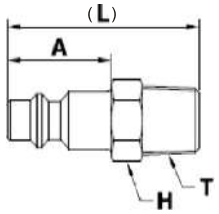
1. Pneumatic tools
2. Air piping
3. Air pressure equipment

SPECIFICATION :

Material	Steel
Thread	NPT
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20℃~ + 80℃
Size	1/4"(20 TYPE)
	3/8"(30 TYPE)
	1/2"(40 TYPE)
Meet The International Norms	ANSI / ASME B1.20.1/ DIN 2999

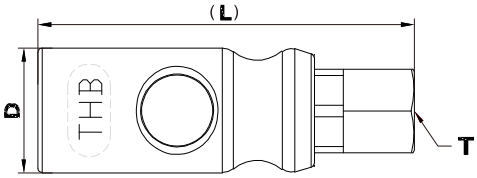
AIR QUICK COUPLER

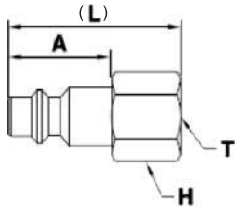




Part NO.	T	ΦD	(L)
S20P-20SM	1/4”	28	85
S20P-30SM	3/8”		86

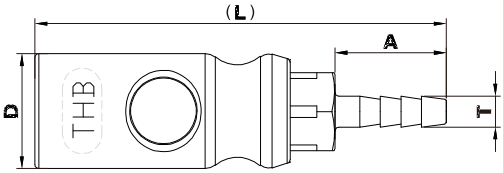
Part NO.	A	T	H	(L)
S25-20PMA	23.7	1/4”	14.3	43
S25-30PMA		3/8”	17.5	44.5

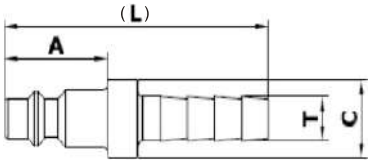




Part NO.	T	ΦD	(L)
S20P-20SF	1/4”	28	84.5
S20P-30SF	3/8”		85.5

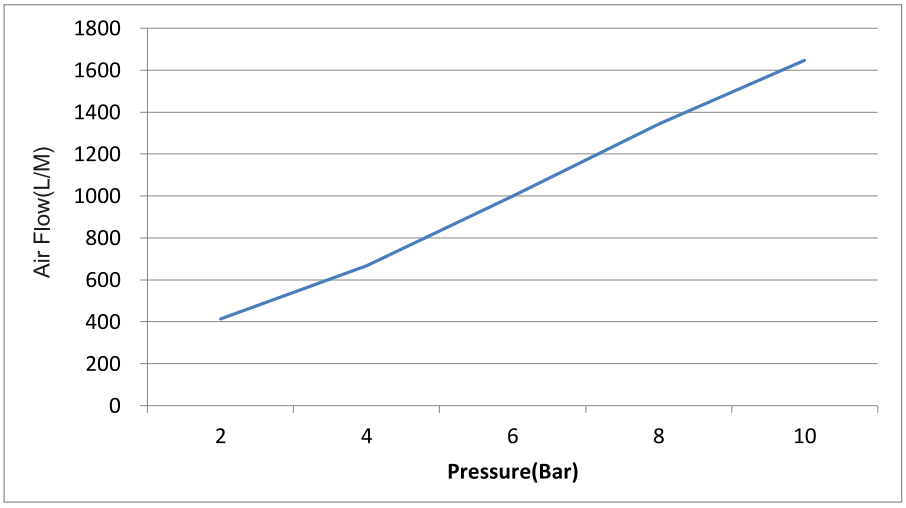
Part NO.	A	T	H	(L)
S25-20PFA	23.7	1/4”	15.8	40
S25-30PFA		3/8”	20.6	40.7



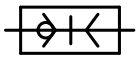


Part NO.	T	A	ΦD	(L)
S20P-20SH	7.5	27	28	99.2
S20P-30SH	10.5	30		102.2

Part NO.	T	A	ΦD	(L)
S25-20PHA	7.5	23.7	16	50.2
S25-30PHA	10.5			63.7



INDUSTRIAL TYPE 3/8" BODY SAFETY PUSH-BUTTON COUPLERS



EP 3771856B1
R.O.C. Patent NO.M615967
R.O.C. Patent NO.M587240

Part No.	Size			Part No.	Size
S24P-20SM	1/4"NPT			S24-20PMA	1/4"NPT
S24P-30SM	3/8"NPT			S24-30PMA	3/8"NPT
S24P-40SM	1/2"NPT			S24-40PMA	1/2"NPT
S24P-20SF	1/4"NPT			S24-20PFA	1/4"NPT
S24P-30SF	3/8"NPT			S24-30PFA	3/8"NPT
S24P-40SF	1/2"NPT			S24-40PFA	1/2"NPT
S24P-20SH	1/4"HOSE			S24-30PHA	3/8" HOSE
S24P-30SH	3/8"HOSE				
S24P-40SH	1/2"HOSE				

FEATURES :

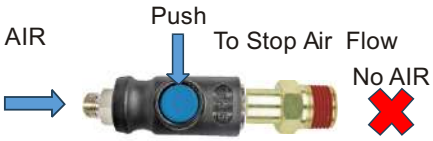
1. Compatible with other manufacturer's Interchange
2. Convenient and safe connection design
3. Certificate of RoHS compliance
4. 360° Swivel

360°Swivel

Step.1

Connect

Step.2



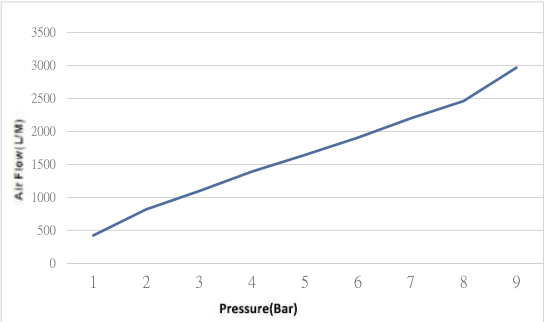
Disconnect

APPLICATION:

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

SPECIFICATION :

Material	Steel
Thread	NPT
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20℃~ + 80℃
Size	1/4"(20 TYPE)
	3/8"(30 TYPE)



QUICK COUPLERS

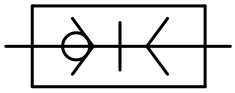
TRUFLATE

ARO

INDUSTRIAL

RECTUS

LINCOLN



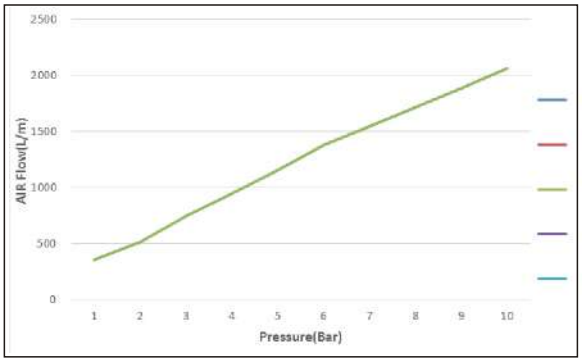
Part No.	Size	Type
S2B-20SMA	1/4" NPT, PT, G	Male
S2B-30SMA	3/8" NPT, PT, G	
S2B-20SFA	1/4" NPT, PT, G	Female
S2B-30SFA	3/8" NPT, PT, G	
S2B-20SHA	1/4"	Hose
S2B-30SHA	3/8"	

FEATURES :

Compatible with TRUFLATE, ARO/ORION,INDUSTRIAL,RECTUS,LINCOLN

APPLICATION :

1. Pneumatic tools
2. Air piping
3. Air pressure equipment



SPECIFICATION :

Material	Steel
Working Pressure	218PSI / 15BAR / 1.5 Mpa
Maximum Pressure	290PSI / 20BAR / 2.0 Mpa
Temperature Range	-20℃ ～ 80℃
Size	1/4"(20 Type) Male/Female/Hose
	3/8"(30 Type) Male/Female/Hose

UNIVERSAL 1/4" BODY, AUTOMATIC 4 IN 1

Part No.	Size			Part No.	Size
S27-20SMA	1/4"NPT			S21-20PMA	1/4"NPT
S27-30SMA	3/8"NPT			S21-30PMA	3/8"NPT
S27-20SFA	1/4"NPT			S22-20PMA	1/4"NPT
S27-30SFA	3/8"NPT			S22-30PMA	3/8"NPT
S27-20SHA	1/4"Hose			S25-20PMA	1/4"NPT
S27-25SHA	5/16"Hose				
S27-30SHA	3/8"Hose			S25-30PMA	3/8"NPT

FEATURES :

1. 1/4" body design fit for Industrial / Automotive / Tru-Flate, and ARO Interchange
2. Four stainless steel locking balls design as option Automatic design
3. Certificate of RoHS compliance

APPLICATION :

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

S27-UNIVERSAL 4 IN 1

S21 Truflate Type

S22 Aro Type

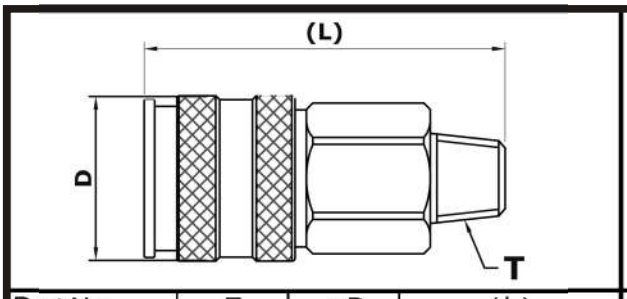
S25 Industrial Type

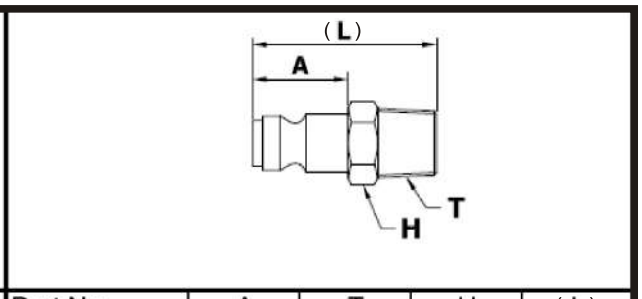
S38 English industrial profile Type

SPECIFICATION :

Material	Steel	Brass
Thread	NPT	
Working Pressure	218PSI(15Bar/1.5MPa)	145PSI(10Bar/1MPa)
Maximum Pressure	290PSI(20Bar/2MPa)	218PSI(15Bar/1.5MPa)
Temperature Range	-20˚C~ + 80˚C	
Size	1/4"(20 TYPE)	
	3/8"(30 TYPE)	

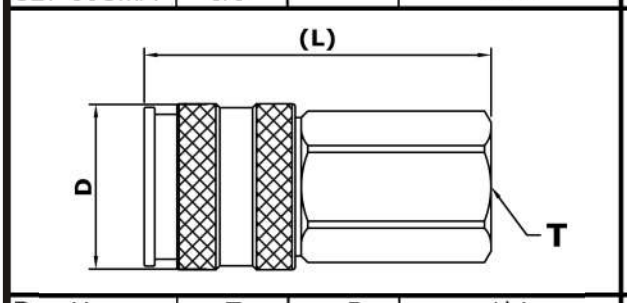
AIR QUICK COUPLER

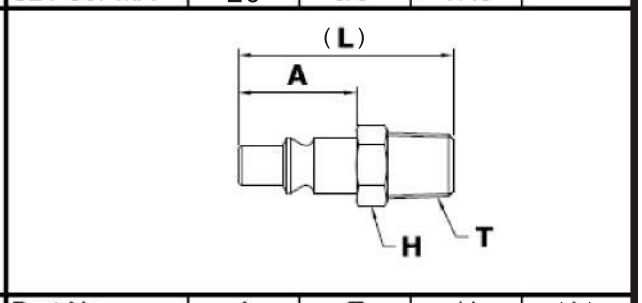




Part No.	T	φD	(L)
S27-20SMA	1/4"	25	55
S27-30SMA	3/8"		55.5

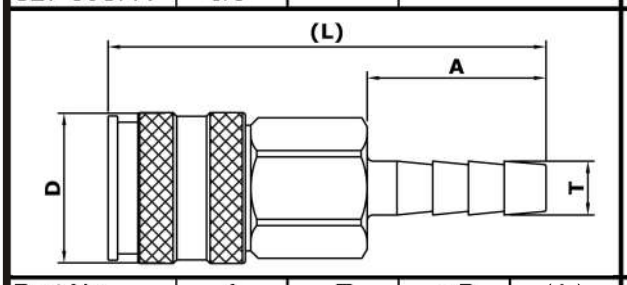
Part No.	A	T	H	(L)
S21-20PMA	23.7	1/4"	14.3	43
S21-30PMA	20	3/8"	17.5	40

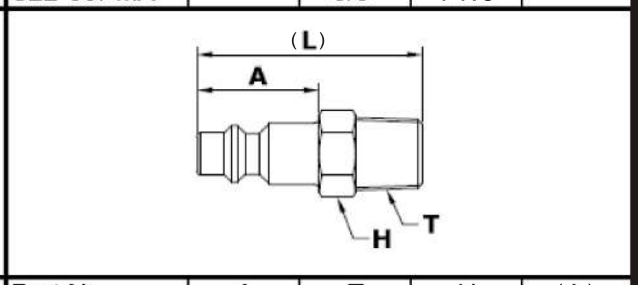




Part No.	T	φD	(L)
S27-20SFA	1/4"	25	52.2
S27-30SFA	3/8"		

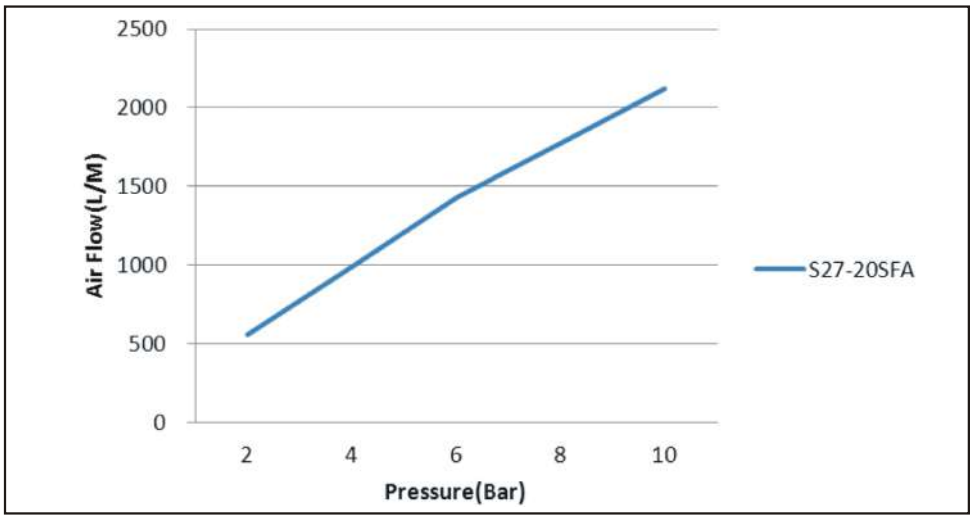
Part No.	A	T	H	(L)
S22-20PMA	23.7	1/4"	14	43.7
S22-30PMA	24.7	3/8"	14.3	





Part No.	A	T	φD	(L)
S27-20SHA	27	7.5	25	69.8
S27-25SHA	30	9		72.8
S27-30SHA	20	10.5		62.8

Part No.	A	T	H	(L)
S25-20PMA	23.7	1/4"	14.3	43
S25-30PMA		3/8"	17.5	44.5



INDUSTRIAL TYPE 1/4" BODY BRASS COUPLER

Part No.	Size			Part No.	Size
S20-20SMB	1/4" NPT			S20-20PMB	1/4" NPT
S20-30SMB	3/8" NPT			S20-30PMB	3/8" NPT
S20-20SFB	1/4" NPT			S20-20PFB	1/4" NPT
S20-30SFB	3/8" NPT			S20-30PFB	3/8" NPT
S20-20SHB	1/4" HOSE			S20-20PHB	1/4" HOSE
S20-30SHB	3/8" HOSE			S20-30PHB	3/8" HOSE
S20-20STB	1/4" HOSE			S20-20PTB	1/4" HOSE
S20-30STB	3/8" HOSE			S20-30PTB	3/8" HOSE

FEATURES :

1. Compatible with Industrial/ Interchange
2. Brass Coupler
3. Certificate of RoHS compliance
4. Six stainless steel locking balls design is able to prolong the life

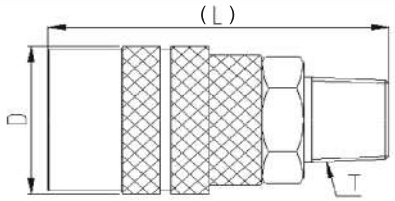
APPLICATION :

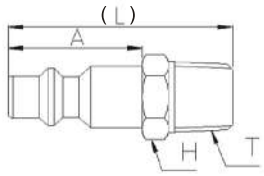
1. Pneumatic tools
2. Air piping
3. Air pressure equipment

SPECIFICATION :

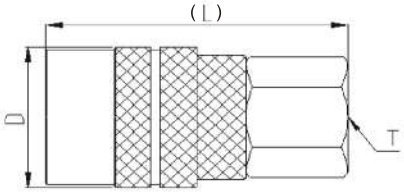
Material	Brass
Thread	NPT
Working Pressure	150PSI(10Bar/1MPa)
Maximum Pressure	218PSI(15Bar/1.5MPa)
Temperature Range	-20°C~ + 80°C
Size	1/4"(20 TYPE)
	3/8"(30 TYPE)
Meet The International Norms	ANSI / ASME B1.20.1 / DIN 2999

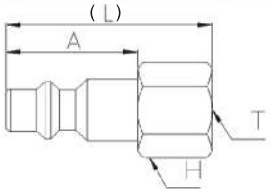
AIR QUICK COUPLER



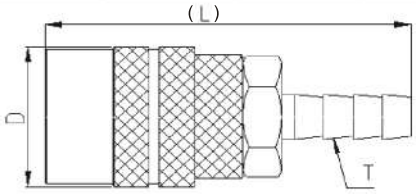


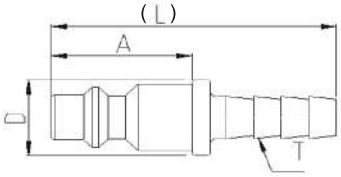
Part NO.	T	ΦD	(L)	Part NO.	A	T	H	(L)
S20-20SMB	1/4"	24	47.8	S20-20PMB	23	1/4"	14	38.5
S20-30SMB	3/8"			S20-30PMB		3/8"	17	40



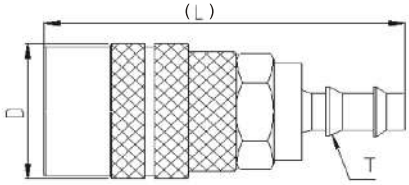


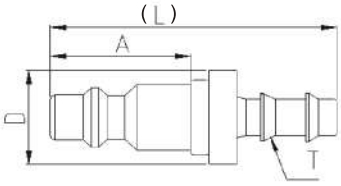
Part NO.	T	ΦD	(L)	Part NO.	A	T	H	(L)
S20-20SFB	1/4"	23.5	46	S20-20PFB	23	1/4"	16	36
S20-30SFB	3/8"		48.5	S20-30PFB		3/8"	19	38.5



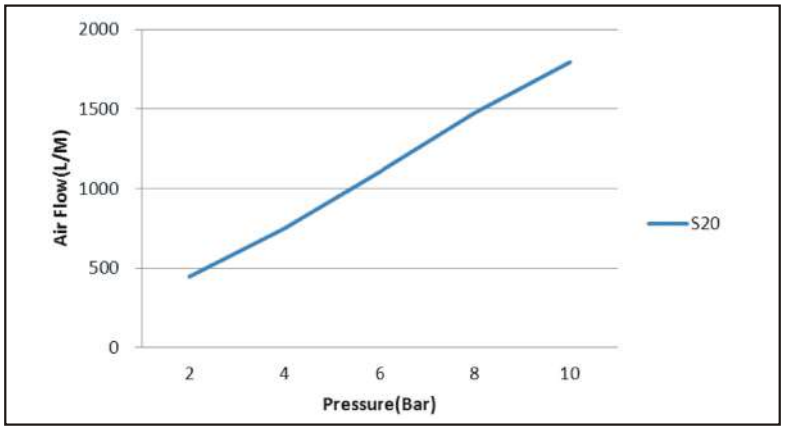


Part NO.	T	D	(L)	Part NO.	A	T	D	(L)
S20-20SHB	1/4"HOSE	23.5	56.5	S20-20PHB	23	1/4"	13.5	46.5
S20-30SHB	3/8"HOSE			S20-30PHB		3/8"	14	48

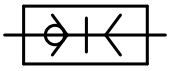




Part NO.	T	D	(L)	Part NO.	A	T	D	(L)
S20-20STB	1/4"HOSE	23.5	57.5	S20-20PTB	23	1/4"	17	47
S20-30STB	3/8"HOSE		61	S20-30PTB		3/8"	21.6	50.5



INDUSTRIAL TYPE 1/4" BODY



Part No.	Size			Part No.	Size
S29-20SMA	1/4"NPT			S25-10PMA	1/8"NPT
				S25-20PMA	1/4"NPT
S29-30SMA	3/8"NPT			S25-30PMA	3/8"NPT
				S25-40PMA	1/2"NPT
S29-20SFA	1/4"NPT			S25-20PFA	1/4"NPT
S29-30SFA	3/8"NPT			S25-30PFA	3/8"NPT
				S25-40PFA	1/2"NPT
S29-20SHA	1/4"HOSE			S25-20PHA	1/4"Hose
				S25-30PHA	3/8"Hose
S29-30SHA	3/8"HOSE			S25-40PHA	1/2"Hose
S29-30SPA	1/4"HOSE			S25-30PPA	1/4"Hose
S29-45SPA	3/8"HOSE			S25-45PPA	3/8"Hose
S29-20STA	1/4"HOSE			S25-20PTA	1/4"Hose
S29-30STA	3/8"HOSE			S25-30PTA	3/8"Hose

FEATURES :

1. Compact design
2. Compatible with other manufacturer's Industrial Interchange
3. Six stainless steel locking balls design
4. Certificate of RoHS compliance

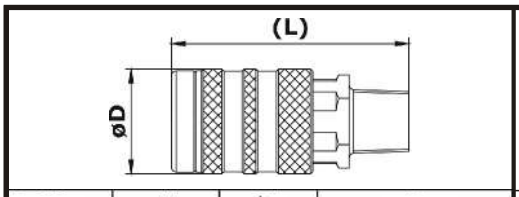
APPLICATION :

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

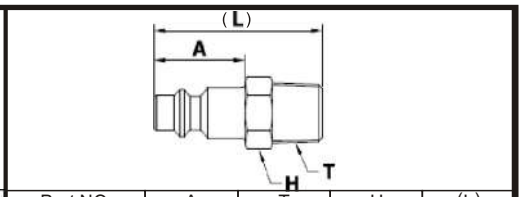
SPECIFICATION :

Material	Steel
Thread	NPT
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20˚C~ + 80˚C
Size	1/4"(20 TYPE)
	3/8"(30 TYPE)
Meet The International Norms	ANSI / ASME B1.20.1/ DIN 2999

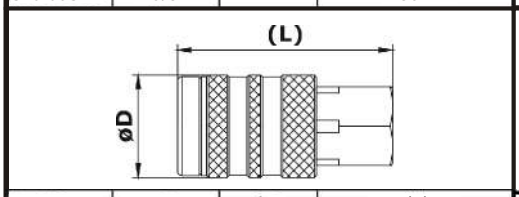
AIR QUICK COUPLER



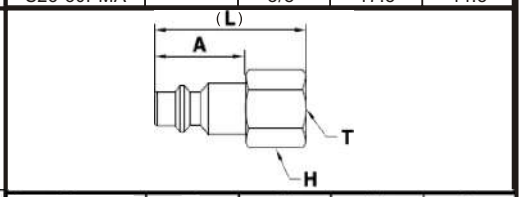
Part NO.	T	ΦD	(L)
S29-20SMA	1/4"	23	52.1
S29-30SMA	3/8"		50.7



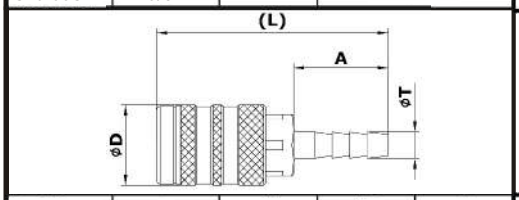
Part NO.	A	T	H	(L)
S25-10PMA	23.7	1/8"	14.3	39.7
S25-20PMA		1/4"	14.3	43
S25-30PMA		3/8"	17.5	44.5



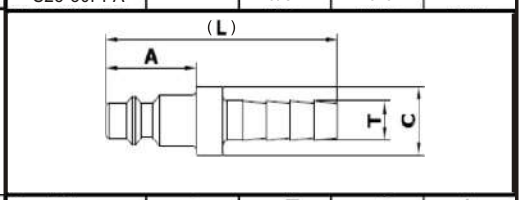
Part NO.	T	ΦD	(L)
S29-20SFA	1/4"	23	48
S29-30SFA	3/8"		49.5



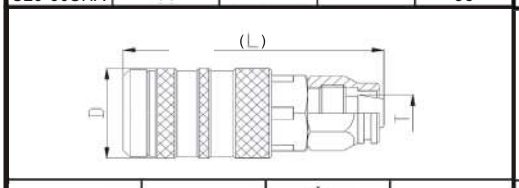
Part NO.	A	T	H	(L)
S25-20PFA	23.7	1/4"	15.8	40
S25-30PFA		3/8"	20.6	40.7



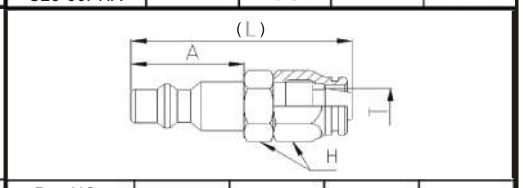
Part NO.	A	T	ΦD	(L)
S29-20SHA	27	1/4"HOSE	23	66
S29-30SHA	30	3/8"HOSE		69



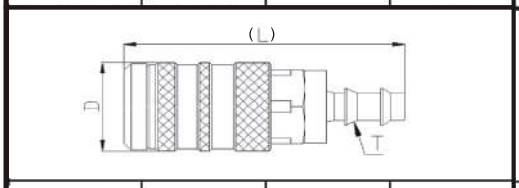
Part NO.	A	φT	φC	(L)
S25-20PHA	23.7	7.5	16	50.2
S25-30PHA		10.5		63.7



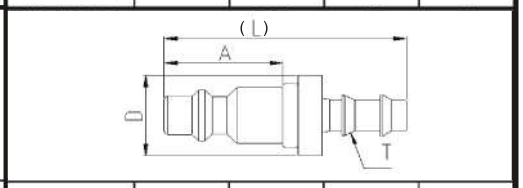
Part NO.	T	Φ D	(L)
S29-30SPA	1/4"HOSE	23	54.5
S29-45SPA	3/8"HOSE		59.5



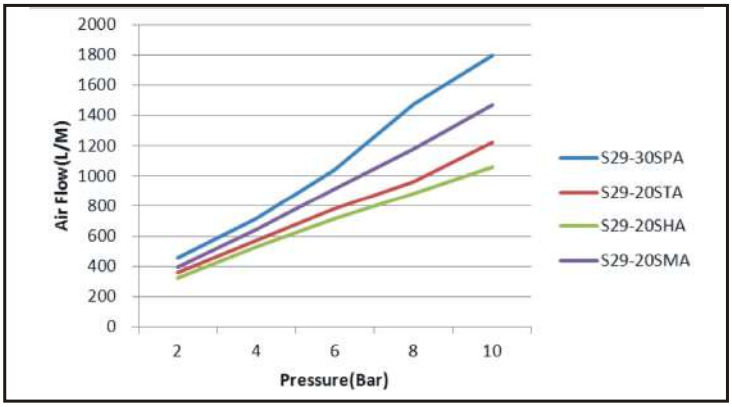
Part NO.	A	T	H	(L)
S25-30PPA	23	1/4"	15	45
S25-45PPA		3/8"	19	47



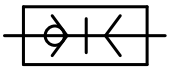
Part NO.	T	Φ D	(L)
S29-20STA	1/4"HOSE	23	59
S29-30STA	3/8"HOSE		62.5



Part NO.	A	T	D	(L)
S25-20PTA	23	1/4"	17	47
S25-30PTA		3/8"	21.6	50.5



INDUSTRIAL TYPE 3/8" BODY



Part No.	Size			Part No.	Size
S24-20SMA	1/4" NPT			S24-20PMA	1/4" NPT
S24-30SMA	3/8" NPT			S24-30PMA	3/8" NPT
S24-40SMA	1/2" NPT			S24-40PMA	1/2" NPT
S24-20SFA	1/4" NPT			S24-20PFA	1/4" NPT
S24-30SFA	3/8" NPT			S24-30PFA	3/8" NPT
S24-40SFA	1/2" NPT			S24-40PFA	1/2" NPT

FEATURES :

1. 3/8" body design for Industrial Interchange
2. Compatible with other manufacturer's Industrial / Automotive / Tru-Flate interchange
3. Eight stainless steel locking balls design as option
4. Certificate of RoHS compliance

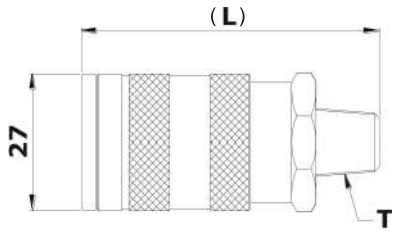
APPLICATION :

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

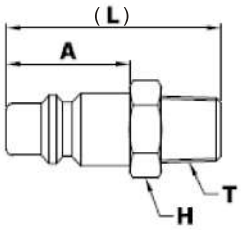
SPECIFICATION :

Material	Steel
Thread	NPT
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20℃~ + 80℃
Size	1/4"(20 TYPE)
	3/8"(30 TYPE)
	1 /2"(40 TYPE)

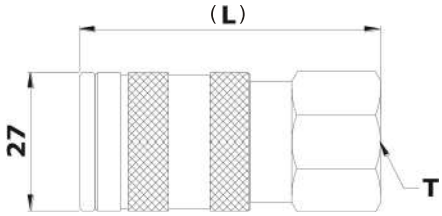
AIR QUICK COUPLER



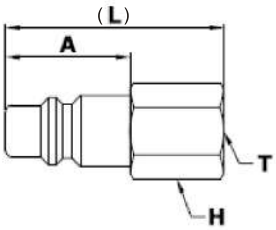
Part NO.	T	(L)
S24-20SMA	1/4"	58
S24-30SMA	3/8"	59
S24-40SMA	1/2"	62



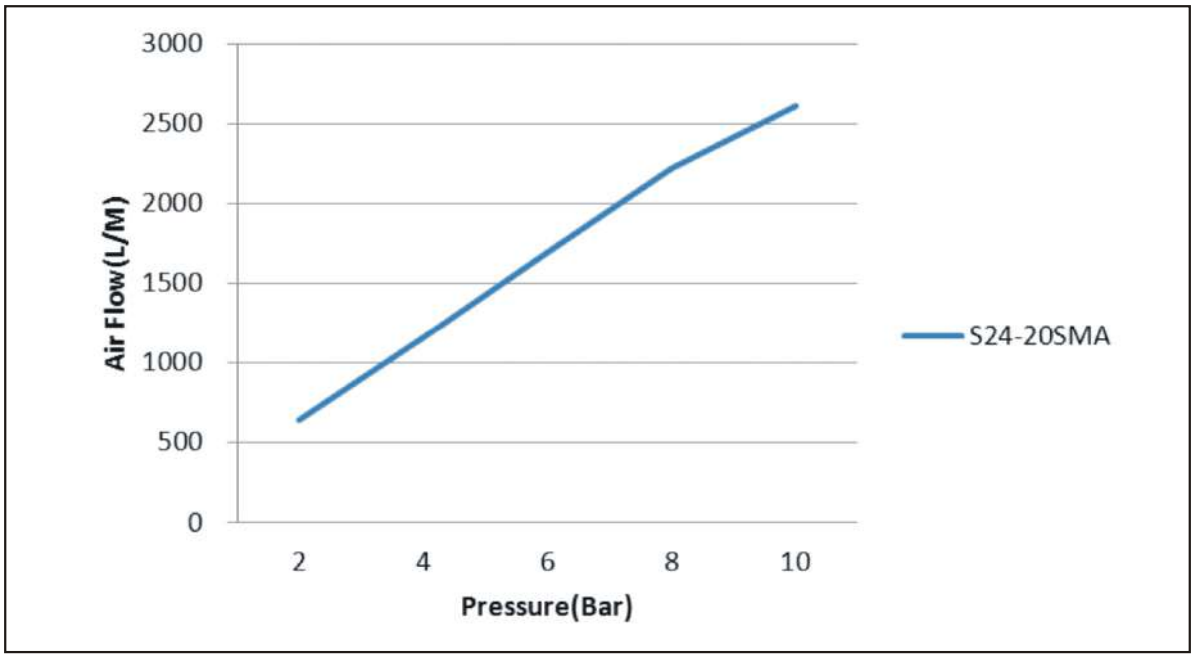
Part No.	A	T	H	(L)
S24-20PMA	27	1/4"	17.5	47
S24-30PMA		3/8"	17.5	48
S24-40PMA		1/2"	21	51



Part NO.	T	(L)
S24-20SFA	1/4"	55.5
S24-30SFA	3/8"	58.5
S24-40SFA	1/2"	62.5



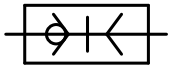
Part No.	A	T	H	(L)
S24-20PFA	27	1/4"	17.5	47.3
S24-30PFA		3/8"	21	
S24-40PFA		1/2"	24	



INDUSTRIAL TYPE 1/2" BODY AUTOMATIC 2 IN 1

Part No.	Size			Part No.	Size
S2D-30SMA	3/8"NPT			S2D-30PMA	3/8"NPT
S2D-40SMA	1/2"NPT			S2D-40PMA	1/2"NPT
S2D-30SFA	3/8"NPT			S2D-30PFA	3/8"NPT
S2D-40SFA	1/2"NPT			S2D-40PFA	1/2"NPT
S2D-40SHA	1/2"HOSE			S2D-40PHA	1/2"HOSE

FEATURES :



1. 1/2" body design for Industrial Interchange
2. Compatible with other manufacturer's Industrial interchange
3. Six steel locking balls design
4. Certificate of RoHS compliance

APPLICATION :

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

S2D-INDUSTRIAL 2 IN 1

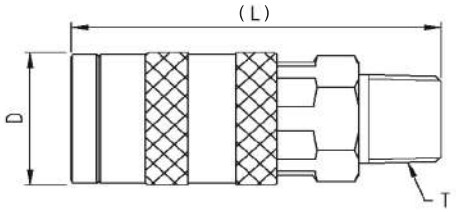
Industrial Type

Truflate Type

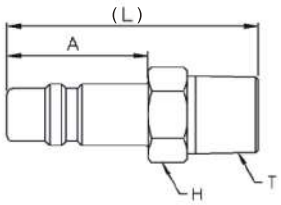
SPECIFICATION :

Material	Steel
Thread	NPT
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20°C~+ 80°C
Size	3/8"(30 TYPE)
	1/2"(40 TYPE)

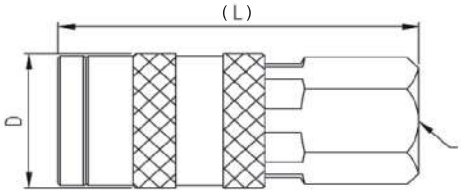
AIR QUICK COUPLER



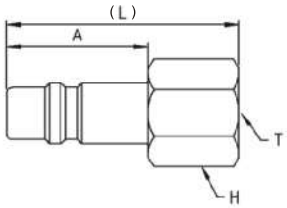
Part NO.	T	ΦD	(L)
S2D-30SMA	3/8"	31	75
S2D-40SMA	1/2"		78.2



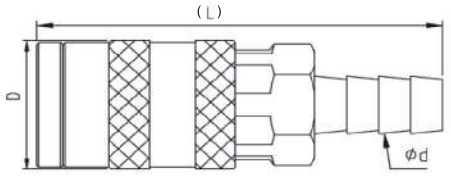
Part NO.	A	T	H	(L)
S2D-30PMA	34.9	3/8"	17.5	55.9
S2D-40PMA	34.9	1/2"	22.2	62.1



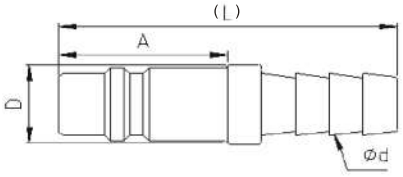
Part NO.	T	ΦD	(L)
S2D-30SFA	3/8"	31	76
S2D-40SFA	1/2"		76



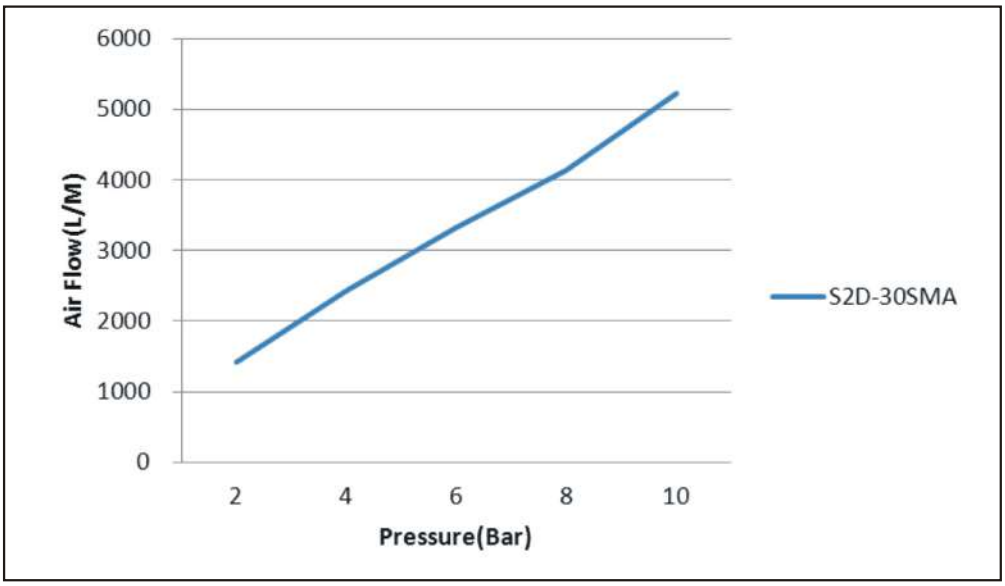
Part NO.	A	T	H	(L)
S2D-30PFA	34.9	3/8"	22.2	54
S2D-40PFA	34.9	1/2"	25.4	57.4



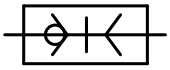
Part NO.	Φ d	D	(L)
S2D-40SHA	14	31	89



Part NO.	A	Φ d	D	(L)
S2D-40PHA	34.9	14	18	70



ARO TYPE 1/4" BODY



Part No.	Size			Part No.	Size
S22-20SMA	1/4" NPT			S22-20PMA	1/4" NPTF
S22-30SMA	3/8" NPT			S22-30PMA	3/8" NPT
S22-20SFA	1/4" NPT			S22-20PFA	1/4" NPT
S22-30SFA	3/8" NPT			S22-30PFA	3/8" NPT
S22-20SHA	1/4" HOSE			S22-20PHA	1/4" HOSE
S22-25SHA	5/16" HOSE			S22-25PHA	5/16" HOSE
S22-30SHA	3/8" HOSE			S22-30PHA	3/8" HOSE

FEATURES :

1. Compatible with other manufacturers' ARO Interchange
2. Yellow zinc dichromate-plated steel
3. Certificate of RoHS compliance

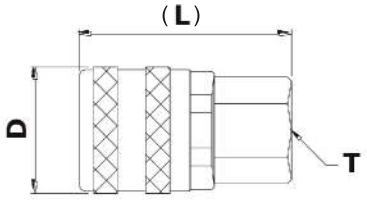
APPLICATION :

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

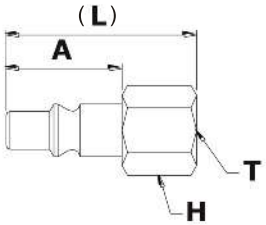
SPECIFICATION :

Material	Steel	Brass
Thread	NPT	
Working Pressure	218PSI(15Bar/1.5MPa)	145PSI(10Bar/1.0MPa)
Maximum Pressure	290PSI(20Bar/2MPa)	218PSI(15Bar/1.5MPa)
Temperature Range	-20˚C~ + 80˚C	
Size	1/4" (20 Type)	
	3/8" (30 Type)	

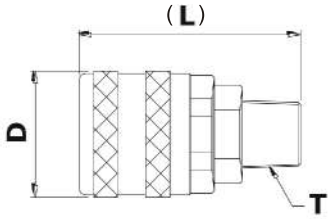
AIR QUICK COUPLER



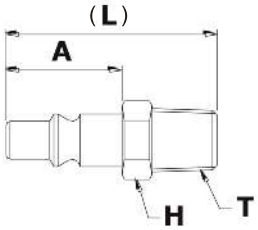
Item NO.	T	ΦD	(L)
S22-20SFA	1/4"	26	44
S22-30SFA	3/8"		50



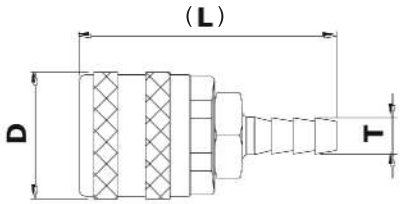
Item NO.	A	T	H	(L)
S22-20PFA	24.7	1/4"	16	39.4
S22-30PFA		3/8"	21	40.8



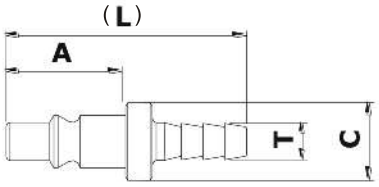
Item NO.	T	ΦD	(L)
S22-20SMA	1/4"	26	46
S22-30SMA	3/8"		48



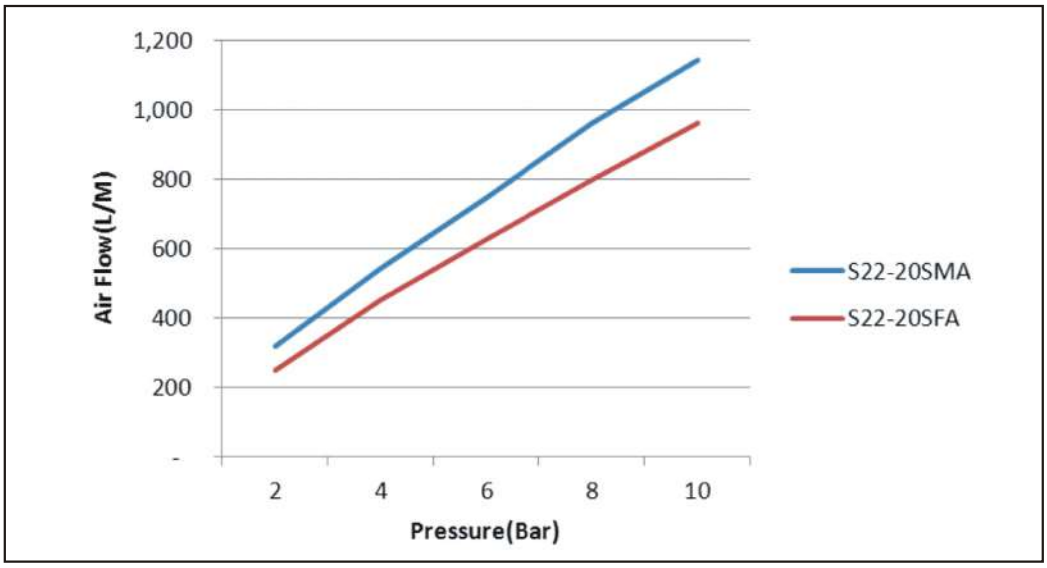
Item NO.	A	T	H	(L)
S22-20PMA	24.7	1/4"	14	43.7
S22-30PMA		3/8"	17.5	



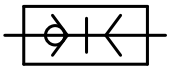
Item NO.	T	ΦD	(L)
S22-20SHA	1/4"	26	53
S22-25SHA	5/16"		62
S22-30SHA	3/8"		62



Item NO.	A	T	ΦC	(L)
S22-20PHA	24.7	1/4"	15.87	49.7
S22-25PHA		5/16"		58.2
S22-30PHA		3/8"		58.2



ARO TYPE 3/8" BODY



Part No.	Size			Part No.	Size
S2A-20SMA	1/4" NPT			S2A-20PMA	1/4" NPT
S2A-30SMA	3/8" NPT			S2A-30PMA	3/8" NPT
S2A-20SFA	1/4" NPT			S2A-20PFA	1/4" NPT
S2A-30SFA	3/8" NPT			S2A-30PFA	3/8" NPT

FEATURES :

1. Compatible with other manufacturers' ARO Interchange
2. Yellow zinc dichromate-plated steel
3. Certificate of RoHS compliance

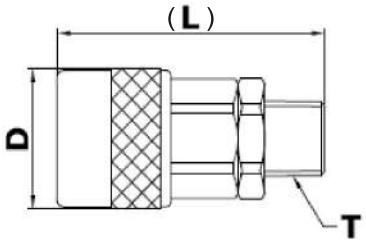
APPLICATION :

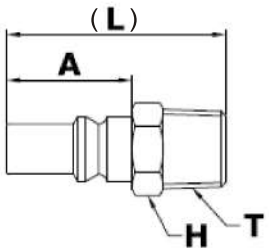
1. Pneumatic tools
2. Air piping
3. Air pressure equipment

SPECIFICATION :

Material	Steel
Thread	NPT
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20℃~ + 80℃
Size	1/4"(20 TYPE)
	3/8"(30 TYPE)

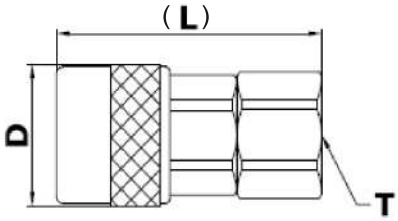
AIR QUICK COUPLER

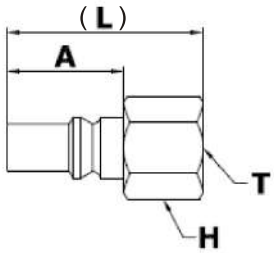




Part No.	φD	T	(L)
S2A-20SMA	30.6	1/4"	60
S2A-30SMA		3/8"	

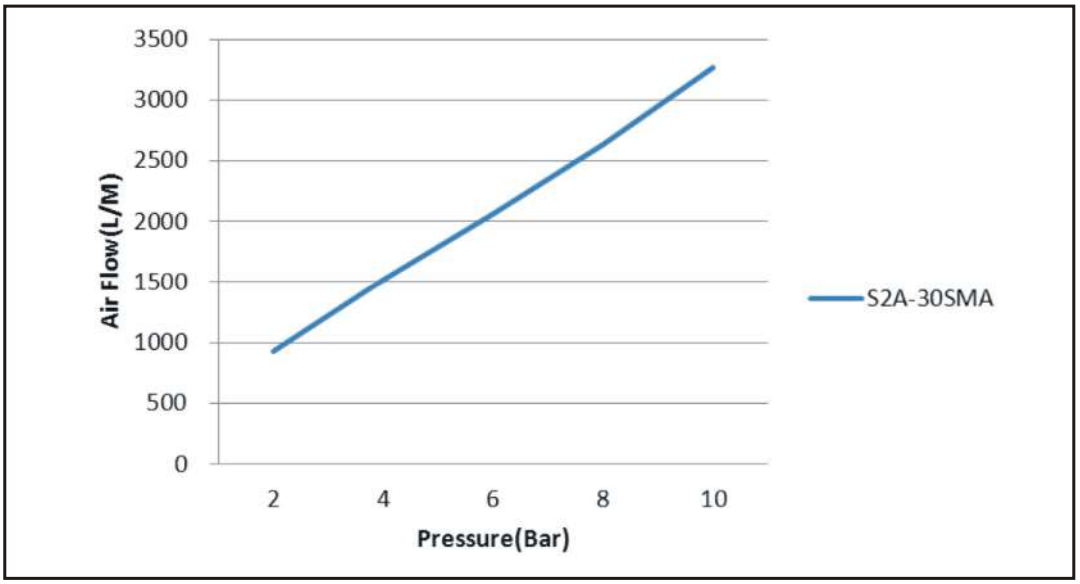
Part No.	A	H	T	(L)
S2A-20PMA	15	16	1/4"	48.5
S2A-30PMA		17.5	3/8"	49



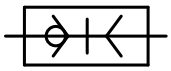


Part No.	φD	T	(L)
S2A-20SFA	30.6	1/4"	58.5
S2A-30SFA		3/8"	

Part No.	A	H	T	(L)
S2A-20PFA	15	16.6	1/4"	44.5
S2A-30PFA		20.6	3/8"	47



TRUFLATE TYPE (AUTOMOTIVE) 1/4" BODY



Part No.	Size			Part No.	Size
S21-20SMA	1/4"NPT			S21-20PMA	1/4"NPT
S21-30SMA	3/8"NPT			S21-30PMA	3/8"NPT
S21-20SFA	1/4"NPT			S21-20PFA	1/4"NPT
S21-30SFA	3/8"NPT			S21-30PFA	3/8"NPT
S21-20SHA	1/4"HOSE			S21-20PHA	1/4"HOSE
S21-30SHA	3/8"HOSE			S21-30PHA	3/8"HOSE

FEATURES :

1. Compatible with other manufacturers' Automotive / Tru-Flate Interchange
2. Six stainless steel locking balls design as option
3. Yellow zinc dichromate-plated steel
4. Certificate of RoHS compliance

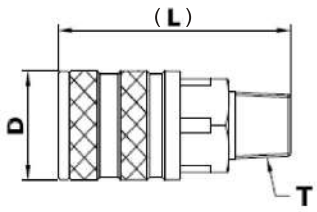
APPLICATION :

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

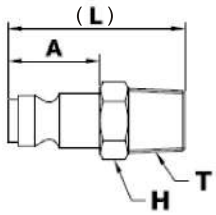
SPECIFICATION :

Material	Steel	Brass
Thread	NPT	
Working Pressure	218PSI(15Bar/1.5MPa)	145PSI(10Bar/1MPa)
Maximum Pressure	290PSI(20Bar/2MPa)	218PSI(15Bar/1.5MPa)
Temperature Range	-20℃~ +80℃	
Size	1/4"(20 Type)	
	3/8" (30Type)	

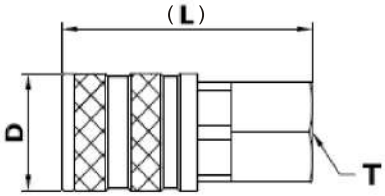
AIR QUICK COUPLER



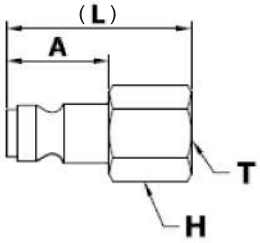
Part No.	T	φD	(L)
S21-20SMA	1/4"	22	49.5
S21-30SMA	3/8"		50.5



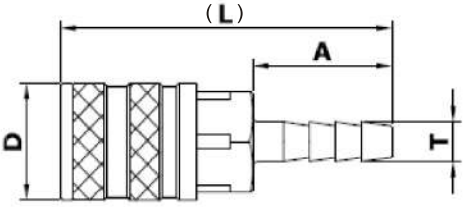
Part No.	A	T	H	(L)
S21-20PMA	23.7	1/4"	14.3	43
S21-30PMA	20	3/8"	17.5	40



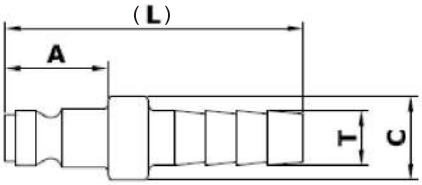
Part No.	T	φD	(L)
S21-20SFA	1/4"	22	48.5
S21-30SFA	3/8"		49.5



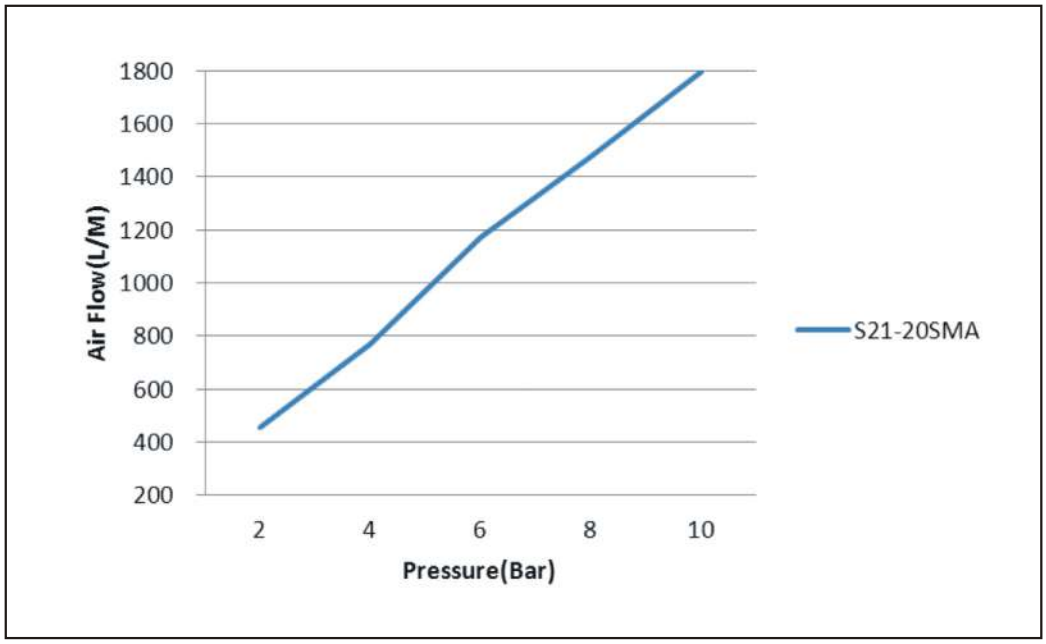
Part No.	A	T	H	(L)
S21-20PFA	20	1/4"	15.8	36
S21-30PFA		3/8"	21	38



Part No.	A	φT	φD	(L)
S21-20SHA	27	7.5	22	63.6
S21-30SHA	30	10.5		66.6



Part No.	A	φT	φC	(L)
S21-20PHA	20	7.5	16	55
S21-30PHA		10.5		58



UNIVERSAL 3/8" BODY, AUTOMATIC 2 IN 1

Part No.	Size			Part No.	Size
S26-20SMA	1/4"NPT			S26-20PMA	1/4"NPT
S26-30SMA	3/8"NPT			S26-30PMA	3/8"NPT
S26-20SFA	1/4"NPT			S26-20PFA	1/4"NPT
S26-30SFA	3/8"NPT			S26-30PFA	3/8"NPT

FEATURES :

1. 3/8" body design fit for Industrial / Automotive / Tru-Flate, and ARO Interchange
2. Eight stainless steel locking balls design as option Automatic design
3. Certificate of RoHS compliance

APPLICATION :

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

S26-UNIVERSAL 2 IN 1

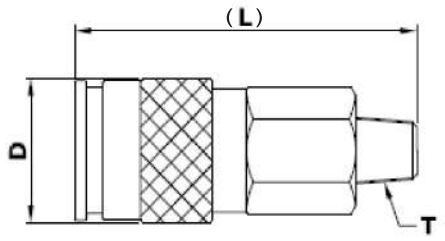
Truflate Type

Industrial Type

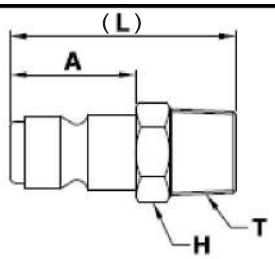
SPECIFICATION :

Material	Steel
Thread	NPT
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20°C~ + 80°C
Size	1/4"(20 TYPE)
	3/8"(30 TYPE)

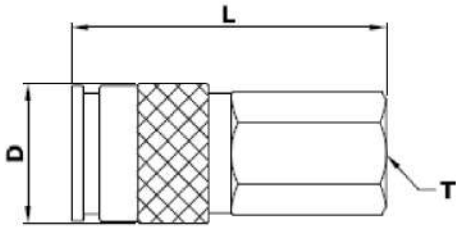
AIR QUICK COUPLER



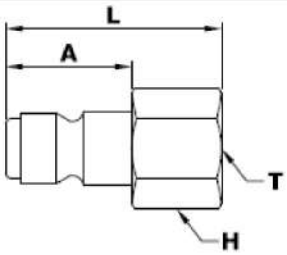
Part No.	T	φD	(L)
S26-20SMA	1/4"	29	69
S26-30SMA	3/8"		



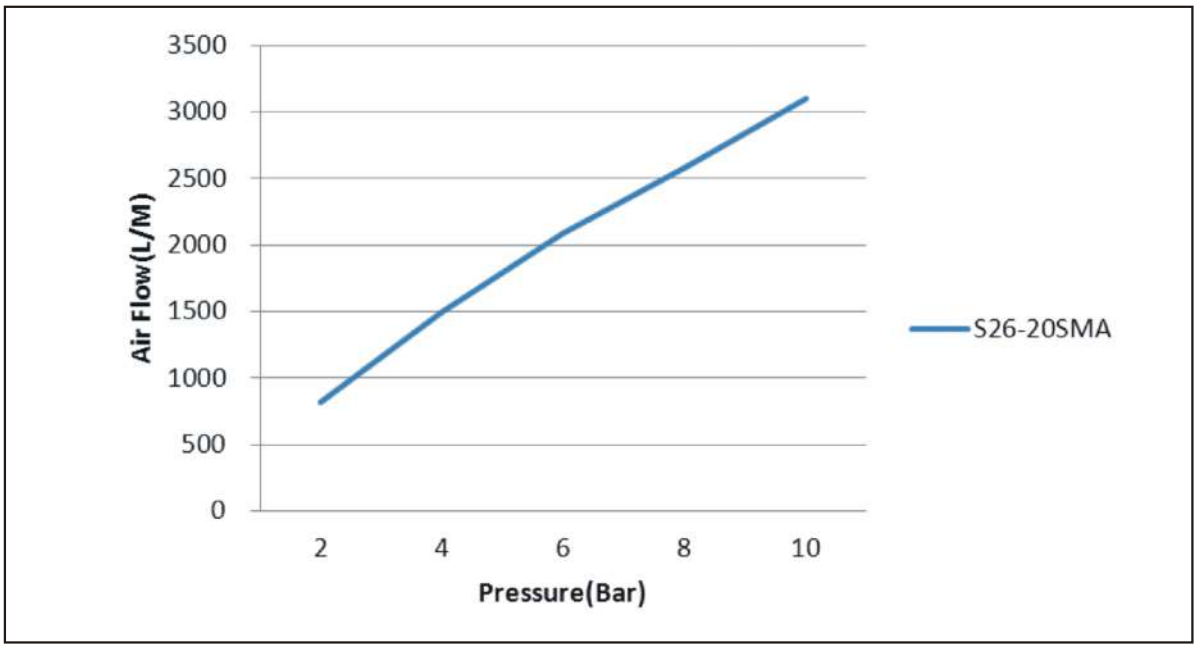
Part No.	A	T	H	(L)
S26-20PMA	26.3	1/4"	15.8	45.7
S26-30PMA		3/8"	17.5	47



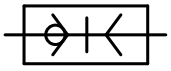
Part No.	T	φD	(L)
S26-20SFA	1/4"	29	66
S26-30SFA	3/8"		



Part No.	A	T	H	(L)
S26-20PFA	26.3	1/4"	15.8	43.7
S26-30PFA		3/8"	20.6	45



SCHRADER TYPE



Part No.	Size			Part No.	Size
S45-20SMA	1/4"NPT			S45-20PMA	1/4"NPT
S45-30SMA	3/8"NPT			S45-20PFA	1/4"NPT
S45-20SFA	1/4"NPT			S45-20PHA	1/4"HOSE

FEATURES :

1. Safety lock design to avoid accident release
2. Aluminum body for light weight
3. Certificate of RoHS compliance

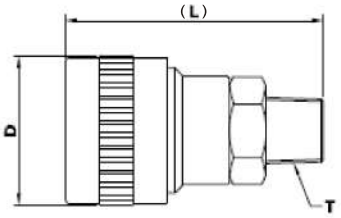
APPLICATION :

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

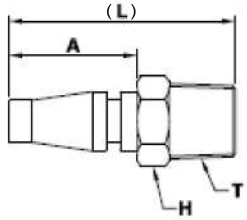
SPECIFICATION :

Material	Steel
Thread	NPT
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20℃～+80℃
Size	1/4"
	3/8"

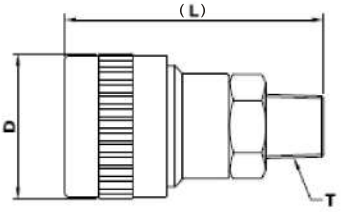
AIR QUICK COUPLER



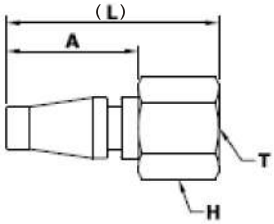
Part No.	T	φD	(L)
S45-20SMA	1/4"	30	56



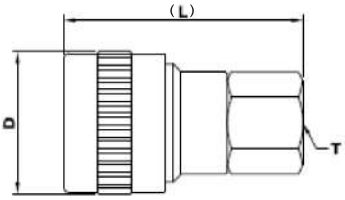
Part No.	A	T	H	(L)
S45-20PMA	24.6	1/4"	14.3	43.4



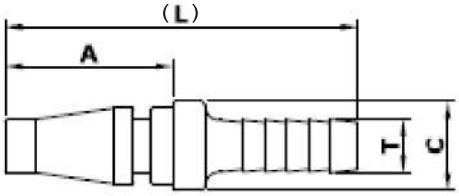
Part No.	T	φD	(L)
S45-30SMA	3/8"	30	57.7



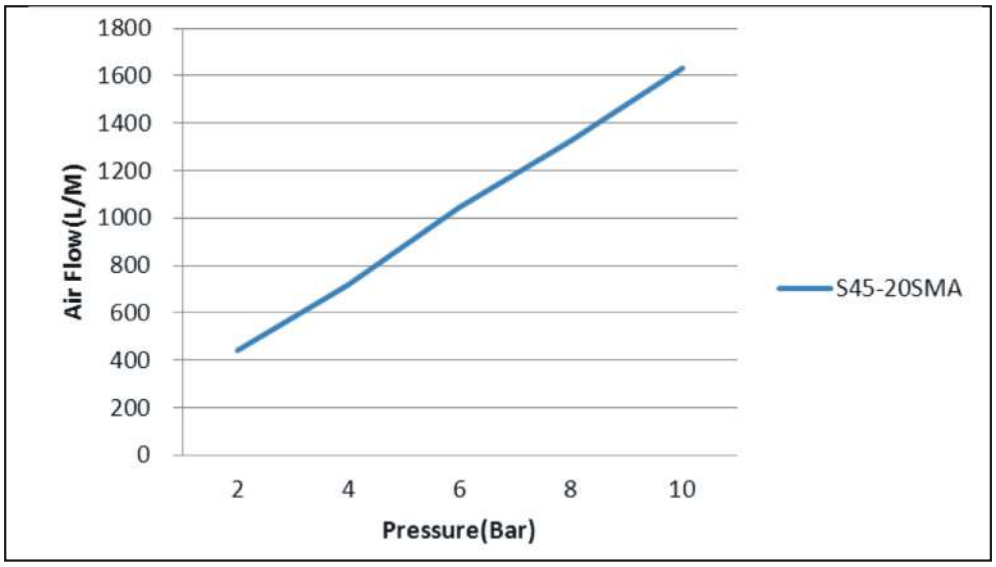
Part No.	A	T	H	(L)
S45-20PFA	24.6	1/4"	16	39.6

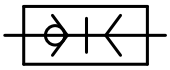


Part No.	T	φD	(L)
S45-20SFA	1/4"	30	52



Part No.	A	φT	φC	(L)
S45-20PHA	24.6	7.7	12.5	51.7





SAFETY PUSH-BUTTON COUPLERS

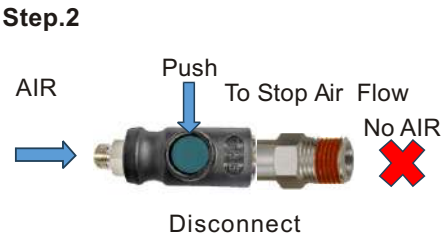
EP 3771856B1
R.O.C. Patent NO.M615967
R.O.C. Patent NO.M587240

Part No.	Size			Part No.	Size
S30P-20SM	1/4"G			S31-20PMA	1/4"PT
S30P-30SM	3/8"G			S31-30PMA	3/8"PT
S30P-40SM	1/2"G			S31-40PMA	1/2"PT
S30P-20SF	1/4"G			S31-20PFA	1/4"G
S30P-30SF	3/8"G			S31-30PFA	3/8"G
S30P-40SF	1/2"G			S31-40PFA	1/2"G
S30P-20SH	ID.6mm			S31-20PHA	ID.6mm
S30P-30SH	ID.9mm			S31-30PHA	ID.9mm
S30P-40SH	ID.13mm			S31-40PHA	ID.13mm

FEATURES :

1. Compatible with , Rectus25 , Rectus 1600/1625 .
2. Convenient and safe connection design
3. Certificate of RoHS compliance
4. 360° Swivel

360°Swivel



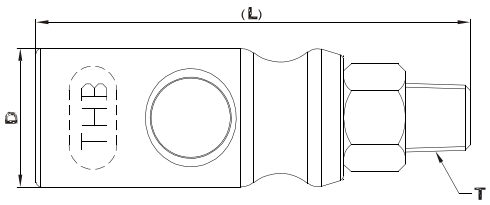
APPLICATION:

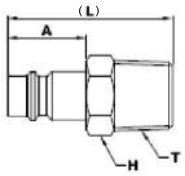
1. Pneumatic tools
2. Air piping
3. Air pressure equipment

SPECIFICATION :

Material	Steel / PA6
Thread	G / PT
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20°C~ + 80°C
Size	1/4"(20 TYPE)
	3/8"(30 TYPE)
	1/2"(40 TYPE)
Meet The International Norms	ISO 288-1 / ISO 7-1

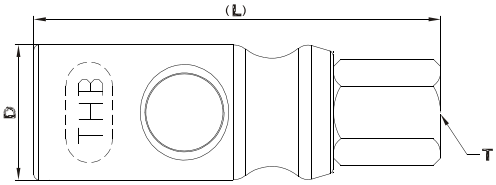
AIR QUICK COUPLER

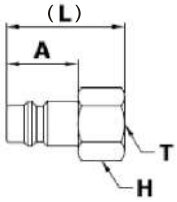




Part NO.	T	ΦD	(L)
S30P-20SM	1/4”	32	86
S30P-30SM	3/8”		
S30P-40SM	1/2”		

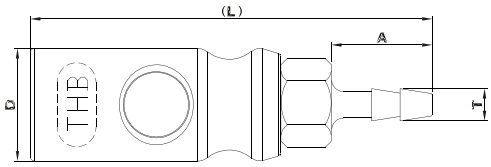
Part NO.	T	A	H	(L)
S31-20PMA	1/4”	20	14	40
S31-30PMA	3/8”		17	42
S31-40PMA	1/2”		21	43

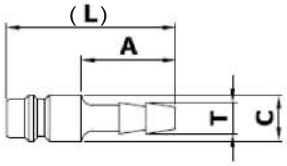




Part NO.	T	ΦD	(L)
S30P-20SF	1/4”	32	85
S30P-30SF	3/8”		87
S30P-40SF	1/2”		88

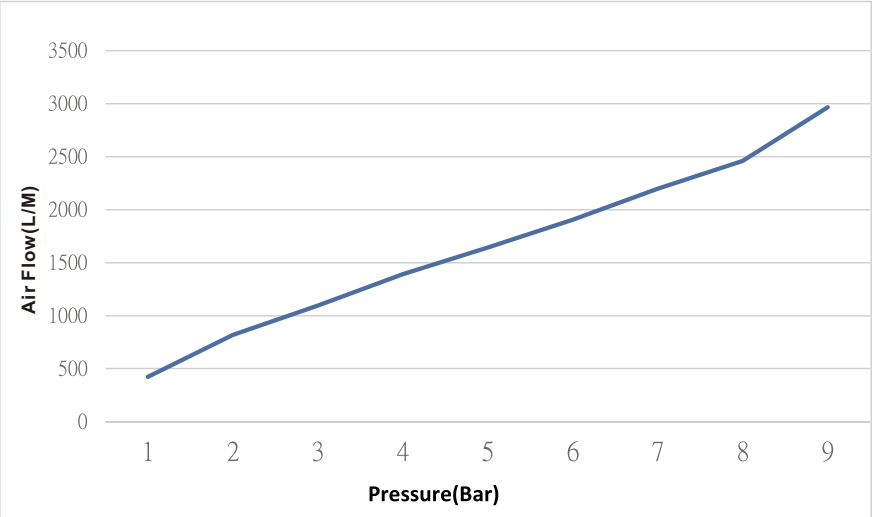
Part NO.	T	A	H	(L)
S31-20PFA	1/4”	20	17	33
S31-30PFA	3/8”		19	
S31-40PFA	1/2”		24	



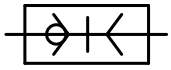


Part NO.	T	A	ΦD	(L)
S30P-20SH	7.5	25	32	99
S30P 30SH	10.4			
S30P-40SH	14.4	26		100

Part NO.	T	A	C	(L)
S31-20PHA	8	25	12	45
S31-30PHA	11			
S31-40PHA	15			



HIGH FLOW UNIVERSAL



Part No.	Size			Part No.	Size
S31-20SMA	1/4"PT			S31-20PMA	1/4"PT
S31-30SMA	3/8"PT			S31-30PMA	3/8"PT
S31-40SMA	1/2"PT			S31-40PMA	1/2"PT
S31-20SFA	1/4"G			S31-20PFA	1/4"G
S31-30SFA	3/8"G			S31-30PFA	3/8"G
S31-40SFA	1/2"G			S31-40PFA	1/2"G
S31-20SPA	5x8mm			S31-20PPA	5x8mm
S31-30SPA	6.5x10mm			S31-30PPA	6.5x10mm
S31-40SPA	8x12mm			S31-40PPA	8x12mm
S31-50SPA	11x16mm			S31-50PPA	11x16mm
S31-20SHA	ID.6mm			S31-20PHA	ID.6mm
S31-25SHA	ID.8mm			S31-25PHA	ID.8mm
S31-30SHA	ID.9mm			S31-30PHA	ID.9mm
S31-35SHA	ID.10mm			S31-35PHA	ID.10mm
S31-40SHA	ID.13mm			S31-40PHA	ID.13mm

FEATURES：

1.Interchangeable with 4 types of plug as below chart shown.
2. Easy to connect
3. Automatic design
4.Certificate of RoHS compliance

APPLICATION：

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

S31-UNIVERSAL 4 IN 1

S22/S35 Aro210 Type (orion)

S25/S36 Industrial Type

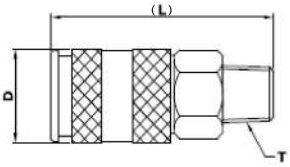
S31 RECTUS 25

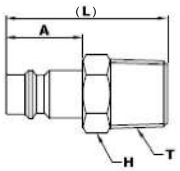
Standard Italian

SPECIFICATION：

Material	Steel	Brass
Thread	(G,PT,NPT)	
Working Pressure	218PSI(15Bar/1.5MPa)	
Maximum Pressure	290PSI(20Bar/2MPa)	
Temperature Range	-20˚C~ + 80˚C	
Meet The International Norms	JIS B 0202 JIS B 0203	

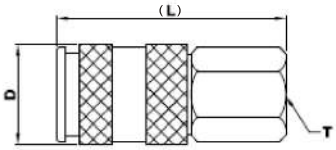
AIR QUICK COUPLER

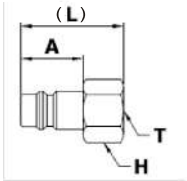




Part No.	T	φD	(L)
S31-20SMA	1/4"	23.5	57
S31-30SMA	3/8"		58
S31-40SMA	1/2"		60

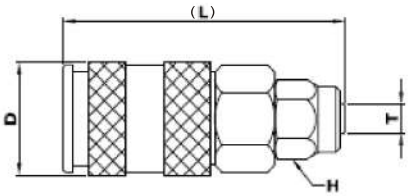
Part No.	A	T	H	(L)
S31-20PMA	20	1/4"	14	40.5
S31-30PMA		3/8"	17	42
S31-40PMA		1/2"	21	43

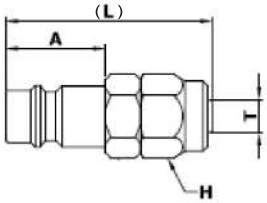




Part No.	T	φD	(L)
S31-20SFA	1/4"	23.5	53.7
S31-30SFA	3/8"		
S31-40SFA	1/2"		

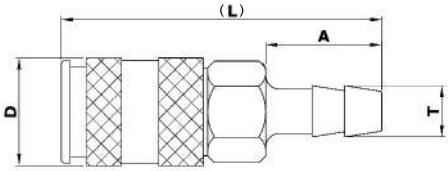
Part No.	A	T	H	(L)
S31-20PFA	20	1/4"	17	33
S31-30PFA		3/8"	19	
S31-40PFA		1/2"	24	

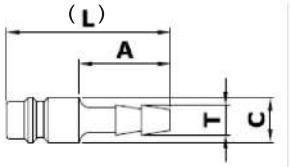




Part No.	φD	T	H	(L)
S31-20SPA	23.5	5x8mm	14	59
S31-30SPA		6.5x10mm	15	60
S31-40SPA		8x12mm	19	62
S31-50SPA		11x16mm	24	75

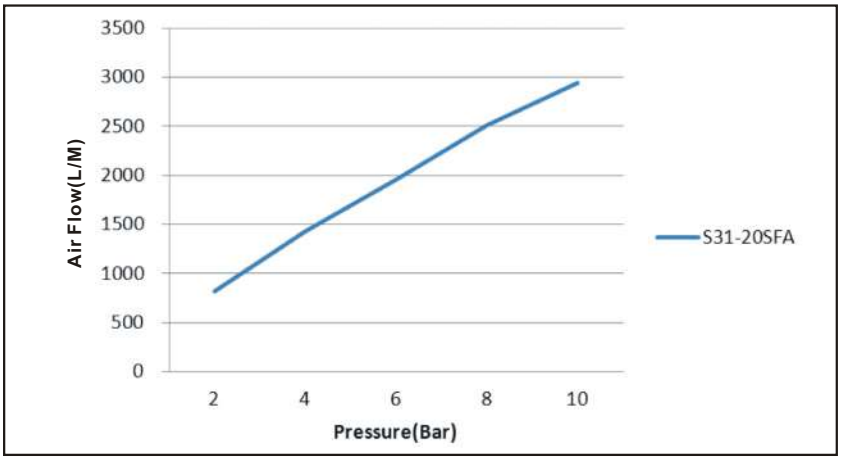
Part No.	A	T	H	(L)
S31-20PPA	20	5x8mm	14	41.5
S31-30PPA		6.5x10mm	15	43
S31-40PPA		8x12mm	19	45
S31-50PPA		11x16mm	24	55



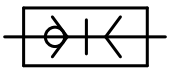


Part No.	(L)	Ø T	Ø D	A
S31-20SHA	72.4	8	23.5	25
S31-25SHA	72.4	10		
S31-30SHA	70.4	11		
S31-35SHA	70.4	12		
S31-40SHA	70.4	15		

Part No.	(L)	Ø T	C	A
S31-20PHA	45	8	12	25
S31-25PHA		10		
S31-30PHA		11		
S31-35PHA		12		
S31-40PHA		15		



RECTUS 26KA



Part No.	Size			Part No.	Size
S33-20SMA	1/4"G			SE03-20PMANI	1/4"G
S33-30SMA	3/8"G			SE03-30PMANI	3/8"G
S33-40SMA	1/2"G			SE03-40PMANI	1/2"G
S33-20SFA	1/4"G			S31-20PFA	1/4"G
S33-30SFA	3/8"G			S31-30PFA	3/8"G
S33-40SFA	1/2"G			S31-40PFA	1/2"G
S33-20SHA	ID.6mm			S31-20PHA	ID.6mm
S33-25SHA	ID.8mm			S31-25PHA	ID.8mm
S33-30SHA	ID.9mm			S31-30PHA	ID.9mm
S33-35SHA	ID.10mm			S31-35PHA	ID.10mm
S33-40SHA	ID.13mm			S31-40PHA	ID.13mm

FEATURES：

1. G thread (Germany type) Interchange
2. Automatic design
3. Compatible with , Rectus25 , Rectus 1600/1625 , various German Products
4. Certificate of RoHS compliance

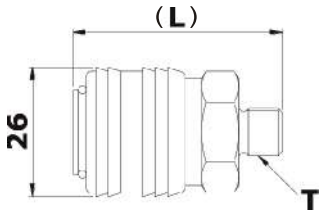
APPLICATION：

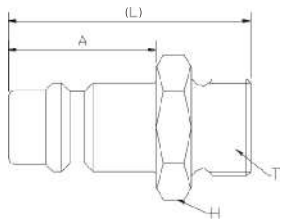
1. Pneumatic tools
2. Air piping
3. Air pressure equipment

SPECIFICATION：

Material	Steel
Thread	G
Working Pressure	218PSI(15Bar/1.5MPa)
Maximum Pressure	290PSI(20Bar/2MPa)
Temperature Range	-20°C~ + 80°C
Size	1/4" (20 TYPE)
	3/8" (30 TYPE)
	1 /2" (40 TYPE)
Meet The International Norms	ISO 288-1

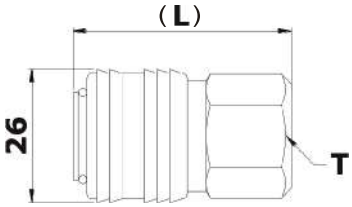
AIR QUICK COUPLER

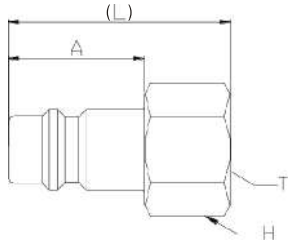




Part NO.	(L)	T
S33-20SMA	42.5	1/4"
S33-30SMA	42.5	3/8"
S33-40SMA	44	1/2"

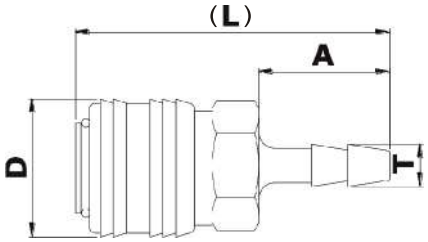
Part NO.	A	T	H	(L)
SE03-20PMANI	20	1/4"	17	32.8
SE03-30PMANI		3/8"	19	
SE03-40PMANI		1/2"	24	35.3

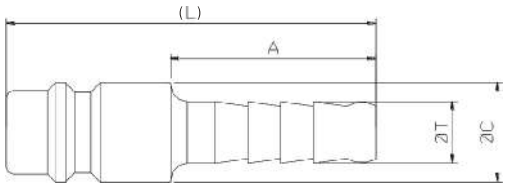




Part NO.	(L)	T
S33-20SFA	41.3	1/4"
S33-30SFA	43.5	3/8"
S33-40SFA	44.5	1/2"

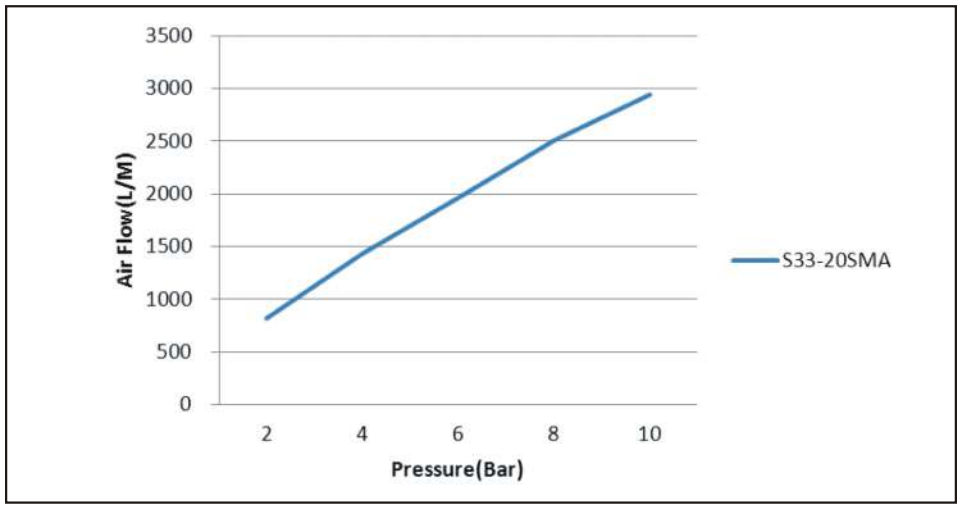
Part NO.	A	T	H	(L)
S31-20PFA	20	1/4"	17	32.8
S31-30PFA		3/8"	19	
S31-40PFA		1/2"	24	34.8





Part NO.	(L)	ØT	A
S33-20SHA	58.5	8	25
S33-25SHA		10	
S33-30SHA		11	
S33-35SHA		12	
S33-40SHA		15	

Part NO.	(L)	ØT	ØC	A
S31-20PHA	45	7.4	11.95	25
S31-25PHA		9.4		
S31-30PHA		10.4		
S31-35PHA		11.5		
S31-40PHA		14.5		



EUROPEAN TYPE

Part No.	Size			Part No.	Size
S3A-20SM	1/4"PT			S3A-20PM	1/4"PT
S3A-30SM	3/8"PT			S3A-30PM	3/8"PT
S3A-20SH	1/4"HOSE			S3A-20PH	1/4"HOSE
S3A-30SH	3/8"HOSE			S3A-30PH	3/8"HOSE
S3A-20SF	1/4"G			S3A-20PF	1/4"G

FEATURES：

1. A built-in "lock mechanism" locks the sleeve upon connection thus prevents accidental disconnection.
2. Just push plug into socket for simple connection.
3. The weight is half of steel.
4. Avoid static electricit.
5. Prevent the scrape on the car surface, floor and furniture.
6. The steel ring inside of sleeve is able to prolong the life.
7. Interchangeable with 4 types of plug as below chart shown.

APPLICATION

1. Pneumatic tools
2. Air piping
3. Air pressure equipment

S31-UNIVERSAL 4IN1

S22/S35 Aro210 Type (orion)

S25/S36 Industrial Type

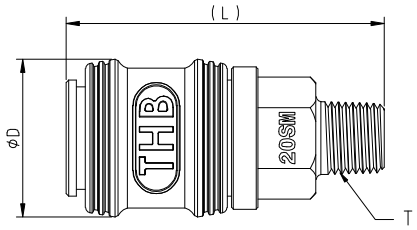
S31 RECTUS 25

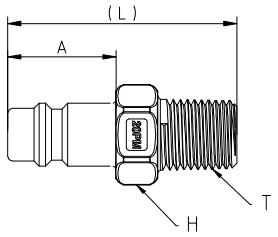
Standard Italian

SPECIFICATION：

Material	Plastic (PA6+30%GF)
Thread	Male : PT / Female: G
Working Pressure	150PSI(10Bar/1MPa)
Maximum Pressure	218PSI(15Bar/1.5MPa)
Temperature Range	-5℃~60℃
Meet The International Norms	ISO 288-1 / ISO 7-1

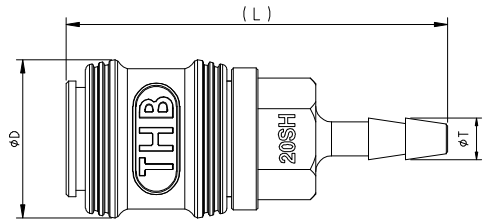
AIR QUICK COUPLER

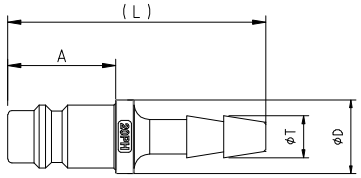




Part NO.	ØD	(L)	T
S3A-20SM	30	60.4	1/4"PT
S3A-30SM		61.4	3/8"PT

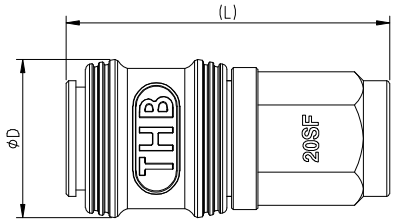
Part NO.	A	(L)	T	H
S3A-20PM	20.5	43.5	1/4"	17
S3A-30PM			3/8"	

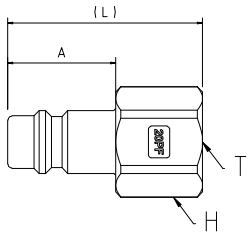




Part NO.	ØD	(L)	ØT
S3A-20SH	30	72.4	7.95
S3A-30SH			11

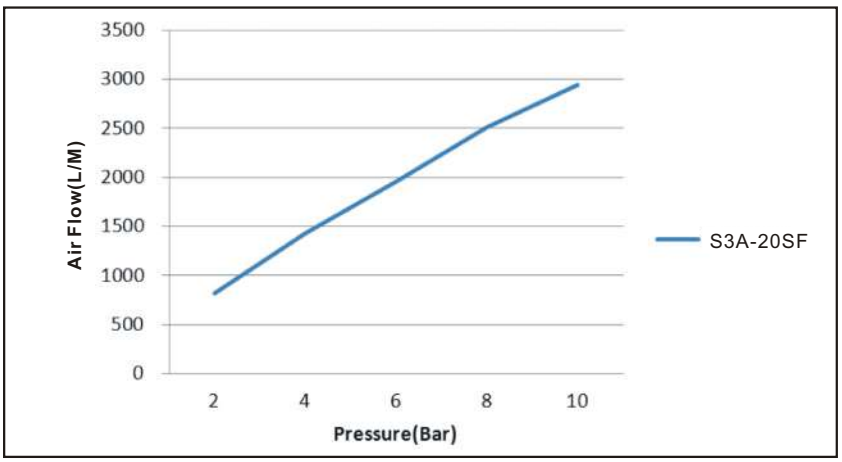
Part NO.	A	(L)	T	ØD
S3A-20PH	20.5	49	7.95	14
S3A-30PH			11	



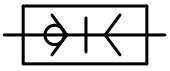


Part NO.	ØD	(L)	T
S3A-20SF	30	61.4	1/4"

Part NO.	A	(L)	T	H
S3A-20PF	20.5	37	1/4"	19



ORION COUPLER



Part No.	Size			Part No.	Size
S35-20SMA	1/4"PT			S35-20PMA	1/4"PT
S35-30SMA	3/8"PT			S35-30PMA	3/8"PT
S35-20SFA	1/4"G			S35-20PFA	1/4"G
S35-30SFA	3/8"G			S35-30PFA	3/8"G
S35-20SHA	ID.6mm			S35-20PHA	ID.6mm
S35-25SHA	ID.8mm			S35-25PHA	ID.8mm
S35-30SHA	ID.9mm			S35-30PHA	ID.9mm

FEATURES :

1. One touch operation, rapid action with needle lock and non-return valve coupling with a high flow rate.
2. Certificate of RoHS compliance

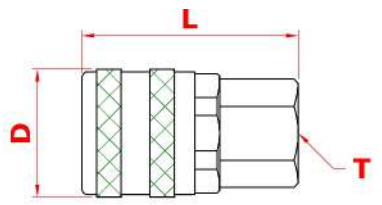
APPLICATION :

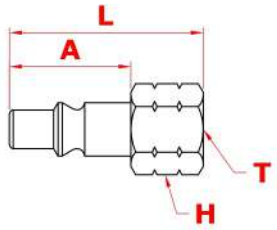
1. Pneumatic tools
2. Air piping
3. Air pressure equipment

SPECIFICATION :

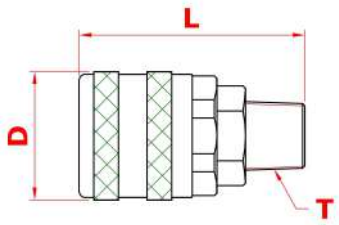
Material	Steel	Brass
Thread	(G,PT)	
Working Pressure	218PSI(15Bar/1.5MPa)	
Maximum Pressure	290PSI(20Bar/2MPa)	
Temperature Range	-20°C~ + 80°C	
Size	1/4" (20 Type)	
	3/8" (30 Type)	

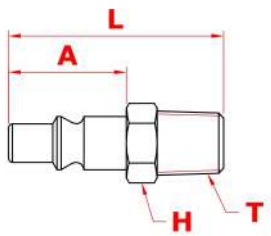
AIR QUICK COUPLER



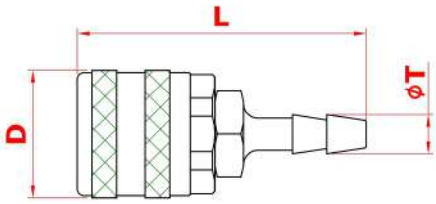


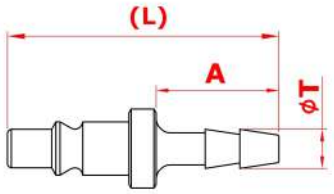
ITEM NO.	T	ϕD	L	ITEM NO.	A	T	H	L
S35-20SFA	1/4"	26	44	S35-20PFA	24.7	1/4"	16	39.4
S35-30SFA	3/8"	26	50	S35-30PFA	24.7	3/8"	21	42.3



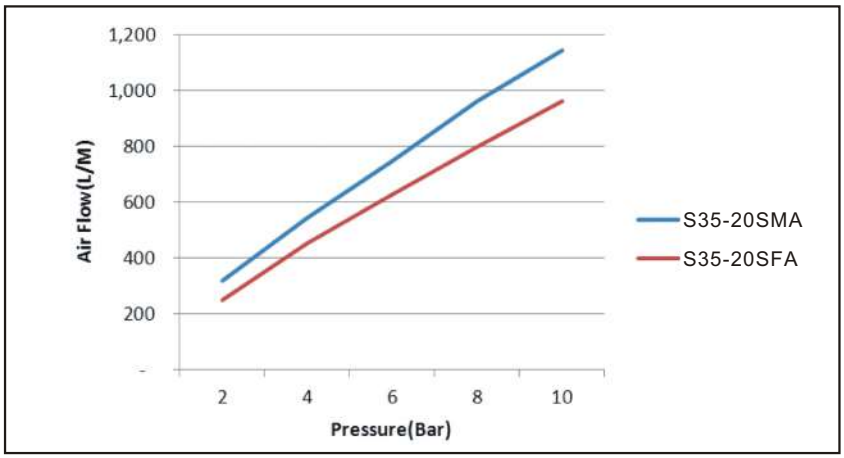


ITEM NO.	T	ϕD	L	ITEM NO.	A	T	H	L
S35-20SMA	1/4"	26	46	S35-20PMA	24.7	1/4"	14.3	43
S35-30SMA	3/8"	26	48	S35-30PMA	24.7	3/8"	17.5	43.7





ITEM NO.	T	ϕD	L	ITEM NO.	A	ϕT	(L)
S35-20SHA	8	26	58.8	S35-20PHA	25	8	55.2
S35-25SHA	10	26	58.8	S35-25PHA	25	10	55.2
S35-30SHA	11	26	58.8	S35-30PHA	25	11	55.2



RECTUS 20KA

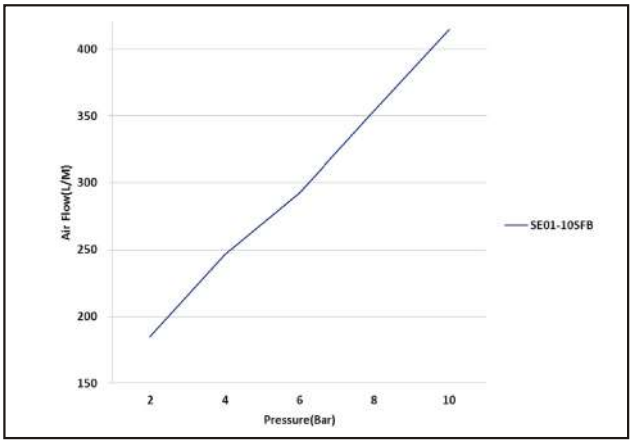
Part No.	Size			Part No.	Size
SE01-05SFB	M5			SE01-05PFB	M5
SE01-10SFB	1/8"G			SE01-10PFB	1/8"G
SE01-05SMB	M5			SE01-05PMB	M5
SE01-10SMB	1/8"G			SE01-10PMB	1/8"G
SE01-10SHB	ID.3mm			SE01-10PHB	ID.3mm
SE01-20SHB	ID.4mm			SE01-20PHB	ID.4mm
SE01-10SPB	4X3mm			SE01-10PPB	4X3mm
SE01-20SPB	5X3mm			SE01-20PPB	5X3mm
SE01-30SPB	6X4mm			SE01-30PPB	6X4mm

FEATURES：

1. One side sealing one-touch quick release with extremely small dimensions and high pass at low pressure drop
2. Certificate of RoHS compliance

APPLICATION：

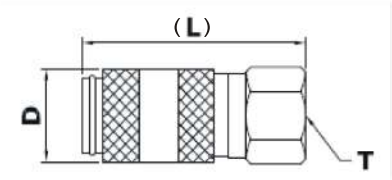
1. Pneumatic tools
2. Air piping
3. Air pressure equipment



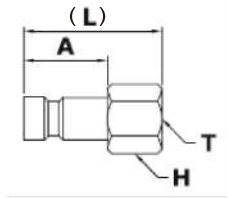
SPECIFICATION：

Material	Brass
Thread	G
Working Pressure	145PSI(10Bar/1MPa)
Maximum Pressure	218PSI(15Bar/1.5MPa)
Temperature Range	-20°~ + 80°
Size	M5 (05 Type)
	1/8" (10 Type)

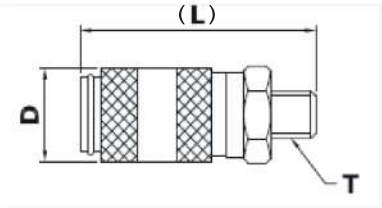
AIR QUICK COUPLER



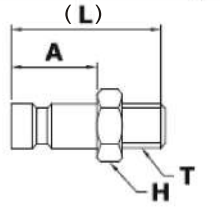
Part No.	T	φD	(L)
SE01-05SFB	M5	10.5	24.5
SE01-10SFB	1/8"		28



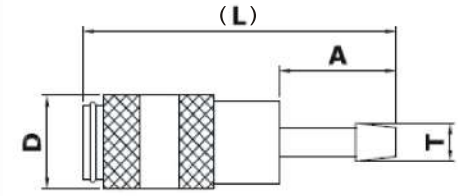
Part No.	A	T	H	(L)
SE01-05PFB	10	M5	7	16.5
SE01-10PFB		1/8"	12	19



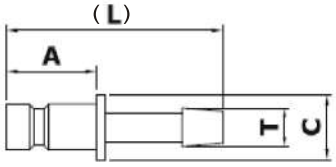
Part No.	T	φD	(L)
SE01-05SMB	M5	10.5	26
SE01-10SMB	1/8"		28



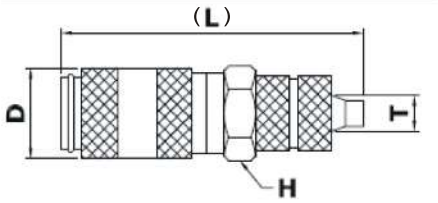
Part No.	A	T	H	(L)
SE01-05PMB	10	M5	7	18
SE01-10PMB		1/8"	11	20



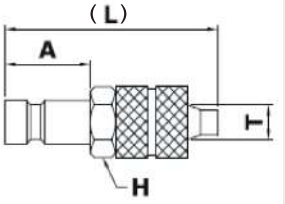
Part No.	A	φT	ΦD	(L)
SE01-10SHB	13	4	10.5	35
SE01-20SHB		5		34.5



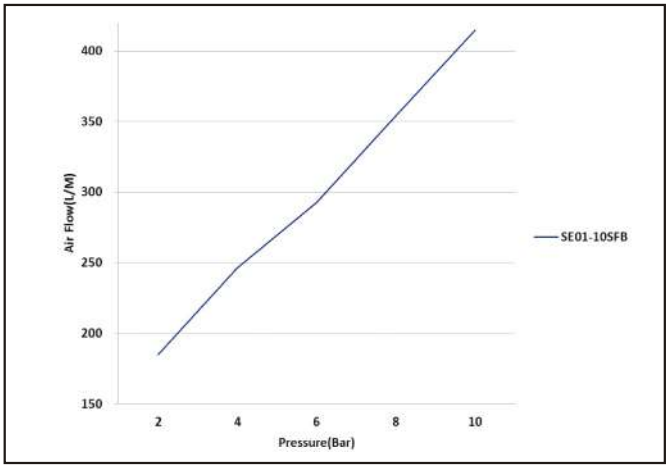
Part No.	A	φT	φC	(L)
SE01-10PHB	10	4	7	24
SE01-20PHB		5		

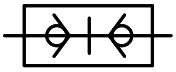


Part No.	φD	T	H	(L)
SE01-10SPB	10.5	4x3mm	9	33.5
SE01-20SPB		5x3mm		33.5
SE01-30SPB		6x4mm		34.5



Part No.	A	T	H	(L)
SE01-10PPB	10	4x3mm	7	25
SE01-20PPB		5x3mm	7	
SE01-30PPB		6x4mm	10.8	





SPECIFICATION

Part no.	SH30-40PFA	SH30-40SFA	SH30-60PFA	SH30-60SFA
Body Material	Steel			
Appicable Fluids	Air / Water / Inert Gas / Vacuum / Gas / Oil			
Working Pressure	0~350 BAR / 0~35 MPa/ 0~5076 PSI			
Max Pressure	350 BAR / 35 MPa/ 5076 PSI			
Temperature	-20 ~ 200℃ (-4~392℉)			
Size	1/2"		3/4"	

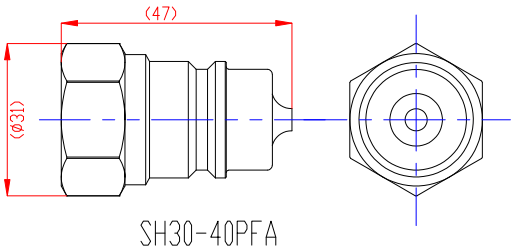
- SH30 Series double shut-off couplings are versatile for use across a spectrum of hydraulic applications where fluid lines require connection and disconnection.

FEATURES

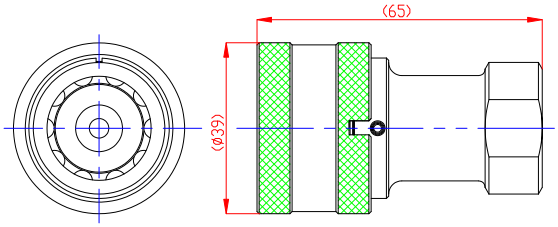
- Accepts ISO 7241-1, Series A compliant nipples.
- Poppect valves along with a metal to metal valve stop maintains valve alignment and prevents flow checking.
- Steel coupler sleeve and steel nipple body are hardened to be wear resistant.

APPLICATION

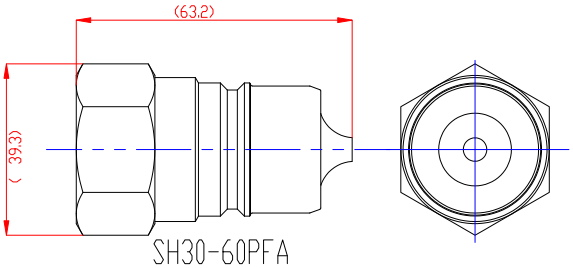
- Industrial hydraulic lines
- Food and chemical processing
- Water and coolant lines
- Truck trailer connections
- May be used with some gases
- Agricultural and forestry machinery



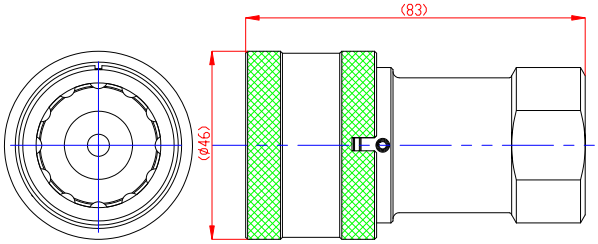
SH30-40PFA



SH30-40SFA

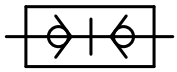


SH30-60PFA



SH30-60SFA

SH10



SPECIFICATION

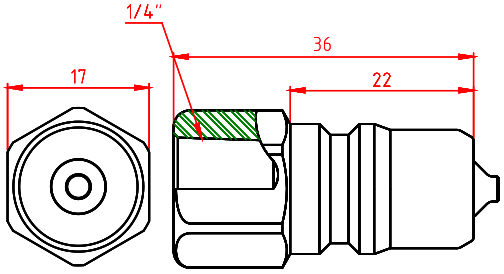
Part no.	SH10-20SFS / SH10-20PFS
Body Material	Stainless steel (SUS304)
Seal Material	VITON
Applicable Fluids	Air / Water / Inert Gas / Vacuum / Gas / Oil
Working Pressure	0~75 BAR / 0~7.5MPa / 0~1088PSI
Max Pressure	75BAR / 7.5MPa / 1088PSI
Valve Structure	Two-way shut-off
Temperature	-20 ~ 200℃ (-4~392℉)
Size	1/4 "

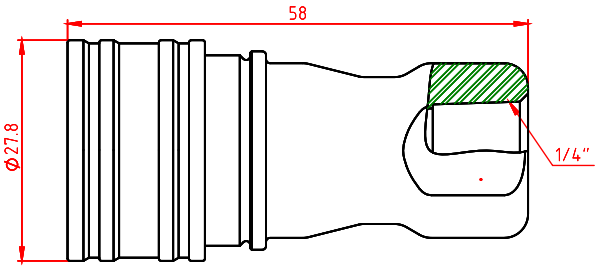
FEATURES

Built- in automatic shut-off valves in both socket and plug.
Available in different fluids.
Workable in range of vacuum applications 1.3 x 10-1 Pa {1 x 10-3 mmHg}.

APPLICATION：

Standard / Vacuum / Piping / Industrial Machinery





UQD02 / 04

SPECIFICATION

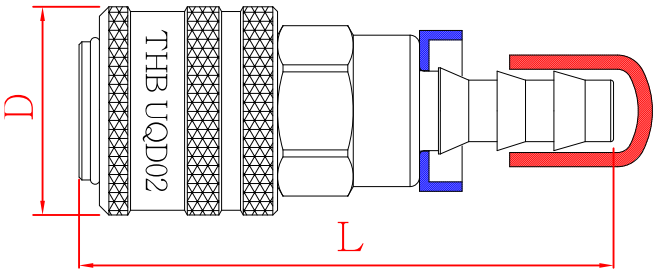
Part no.	SU02	SU04
Body Material	Stainless steel	
Working Pressure	150PSI / 10.3Bar / 1.03Mpa	
Working Temperature	0 ~ 70℃	
Storage Temperature	-40 ~ 120℃	
Nominal Diameter	1/4"	3/8"

FEATURES

- NO spilage dring connection/disconnection
- Low pressure drop
- Advanced internal design for cooling applications

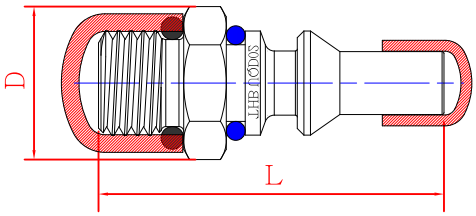
APPLICATION

Universal quick disconnect(UQD) based on an intel inspried open specification.



SU02-20SHS(1/4")
SU04-30SHS(3/8")

Size	D	(L)
SU02-20SHS	ϕ22	56.5
SU04-30SHS	ϕ28.3	77.7



SU02-716-PMS(7/16-20UNF-2A)
SU04-916-PMS(9/16-18UNF-2A)

Size	D	(L)
SU02-716-PMS	14H	36.5
SU04-916-PMS	17H	45.3

AIR QUICK COUPLER

SRL-S13

SRL-S10

SRT-S13

SRLL-S13

SRLL-S10

SRT-S10

FEATURES：

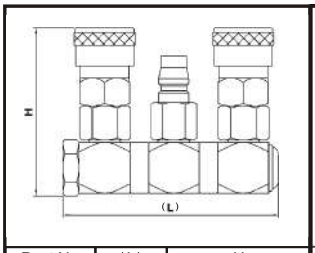
1.Three or two couplers can apply for three or two working stations.
2.The manifold can be 360° rotated which would be more convenience for users.
3.The couplers can be replaced in Japan type,American type or European type for various market demands.

APPLICATION：

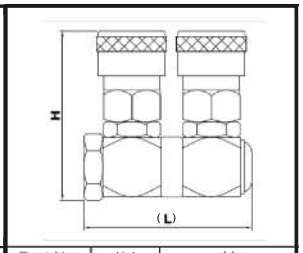
1.Pneumatic tools
2.Air piping
3.Air pressure equipment

SPECIFICATION：

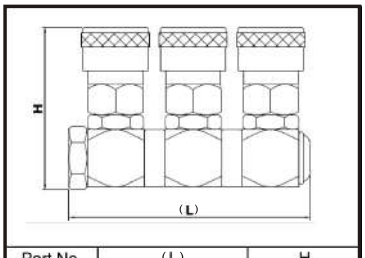
Part No. / Description	SRT-S10 SRL-S10 SRLL-S10	SRT-S13 SRL-S13 SRLL-S13
Coupler	Nitto Standard	Nitto One-Touch
Thread	PT	
Working Pressure	218PSI(15Bar/1.5Mpa)	
Maximum Pressure	290PSI(20Bar/2Mpa)	
Temperature	-20℃~+80℃	
Air Inlet	1/4"	



Part No	(L)	H
SRLL-S10 SRLL-S13	93.5	71.5



Part No.	(L)	H
SRL-S10 SRL-S13	63.5	68.5



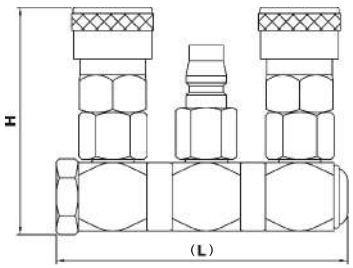
Part No.	(L)	H
SRT-S10 SRT-S13	93.5	68.5

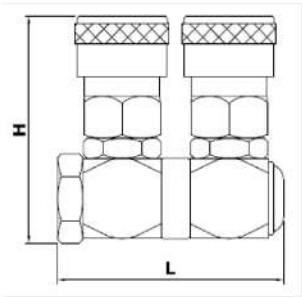
SRLL-S31

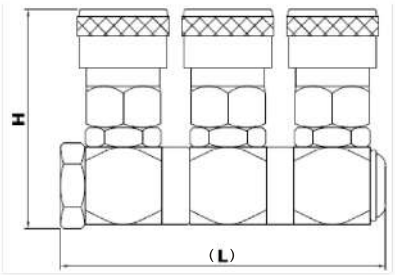
SRLL-S27

SPECIFICATION :

Part No. / Description	SRT-S27 SRL-S27 SRLL-S27	SRT-S31 SRL-S31 SRLL-S31
Coupler	Universal Type	Rectus Type
Thread	NPT	G
Working Pressure	218PSI(15Bar/1.5Mpa)	
Maximum Pressure	290PSI(20Bar/2Mpa)	
Temperature	-20℃~+80℃	
Air Inlet	1/4"	







Part No	(L)	H	Part No	(L)	H	Part No	(L)	H
SRLL-S27	93.5	76	SRL-S27	63.5	67	SRT-S27	93.5	67
SRLL-S31		77	SRL-S31		71.5	SRT-S31		71.5

AIR QUICK COUPLER

SM5BA

SM3BA

SMVT

SMYT

SMLA

SMTA

SMMA

SMXA

Part No. / Description	SMVA SMYA	SMLA SMMA SMTA SMXA	SMVT SMYT	SMLT SMTT SMMT SMXT	SM2BA SM3BA SM4BA SM5BA
Body	Aluminum				
Coupler	Steel		One Touch (Steel)		Steel
Working Pressure	218PSI(15Bar/l. 5Mpa)				
Maximum Pressure	290PSI(20Bar/2Mpa)				
Temperature Range	-20℃～+80℃				
Input Air Inlet	1/2"M & 1/4"F	1/ 4"	1/2"M & 1/4"F	1/ 4"	1/ 2"
Output Air Inlet	1/ 4"	1/ 4"	1/ 4"	1/ 4"	1/ 4"

SMLS27

SMTS27

SMMS27

SMXAS27

SFVS27

SFYS27

Part No. / Description	SMVA SMYA	SMLA SMMA SMTA SMXA	SMVT SMYT	SMLT SMTT SMMT SMXT	SM2BA SM3BA SM4BA SM5BA
Body	Aluminum				
Coupler	Steel		One Touch (Steel)		Steel
Working Pressure	218PSI(15Bar/l. 5Mpa)				
Maximum Pressure	290PSI(20Bar/2Mpa)				
Temperature Range	-20℃～+80℃				
Input Air Inlet	1/2"M & 1/4"F	1/ 4"	1/2"M & 1/4"F	1/ 4"	1/ 2"
Output Air Inlet	1/ 4"	1/ 4"	1/ 4"	1/ 4"	1/ 4"

AIR QUICK COUPLER

SMLS31

SMTS31

SMMS31

SMXS31

SFVP-S33

SFYP-S30P

SFVS31

SFYS31

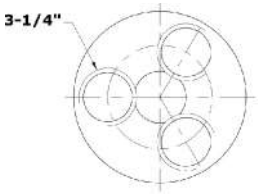
Part No. / Description	SMVA SMYA	SMLA SMMA SMTA SMXA	SMVT SMYT	SMLT SMTT SMMT SMXT	SM2BA SM3BA SM4BA SM5BA	SFYP-S30P SFVP-S33
Body	Aluminum					Zinc alloy
Coupler	Steel		One Touch (Steel)		Steel	Plastic/Steel
Working Pressure	218PSI(15Bar/I. 5Mpa)					
Maximum Pressure	290PSI(20Bar/2Mpa)					
Temperature Range	-20℃～+80℃					
Input Air Inlet	1/2"M & 1/4"F	1/ 4"	1/2"M & 1/4"F	1/ 4"	1/ 2"	1/ 2"
Output Air Inlet	1/ 4"	1/ 4"	1/ 4"	1/ 4"	1/ 4"	1/ 4"

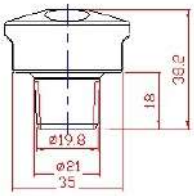
TW Pat.D179950
CN Pat.210630632690.2

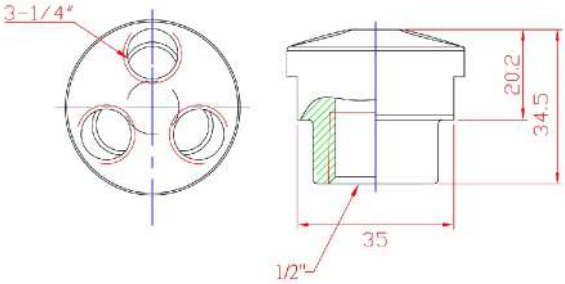
SMVAP

SMYAP

SMYAPN

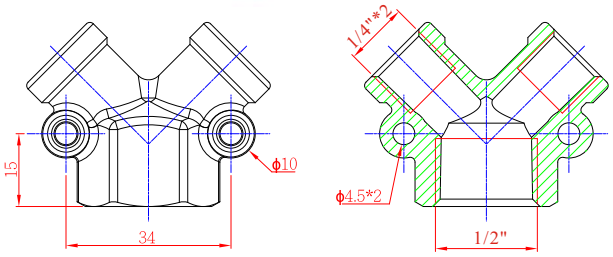




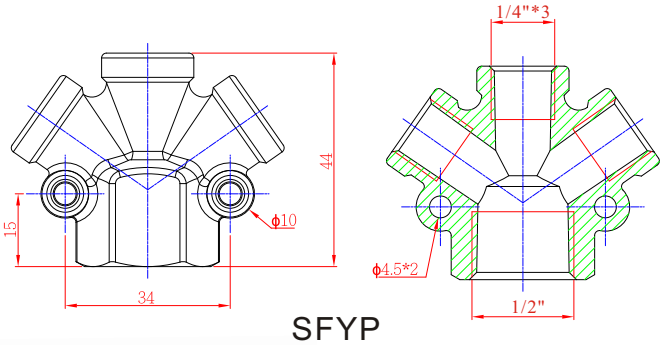


SFVP

SFYP

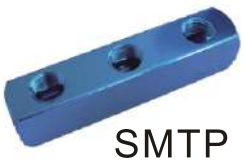


SFVP



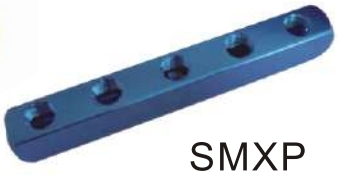
SFYP

SMLP



SMTP

SMMP



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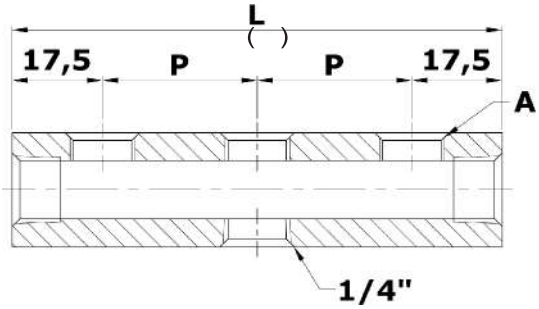
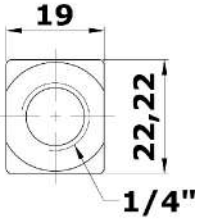
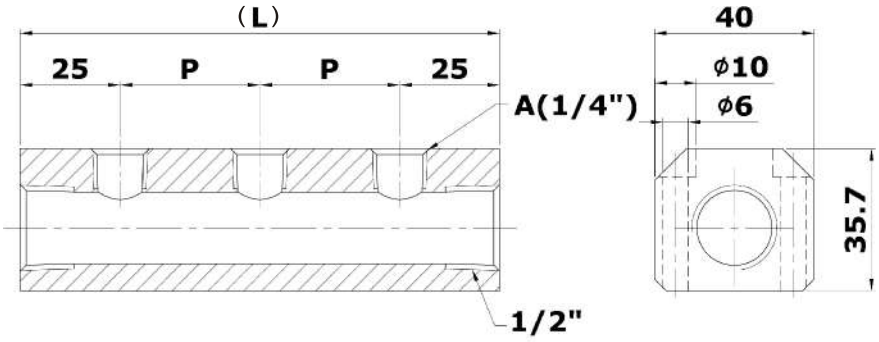




Part No.	A	P	(L)
SMLP	2	30x1	65
SMTP	3	30x2	95
SMMP	4	30x3	125
SMXP	5	30x4	155

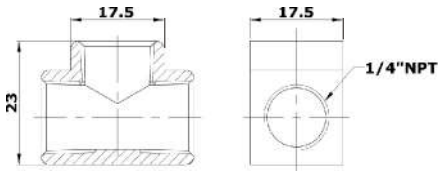
AIR QUICK COUPLER

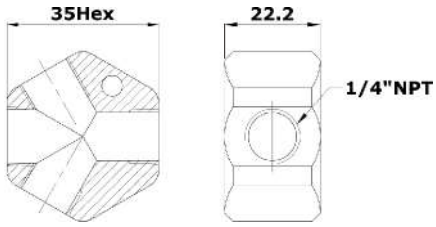
Part No.	A	P	(L)
SM2BP	2	35x1	85
SM3BP	3	35x2	120
SM4BP	4	35x3	155
SM5BP	5	35x4	190
SM6BP	6	35x5	225
SM7BP	7	35x6	260




JA092N


JA122N





BRASS FAST-IN FITTING

JCB

Part No.	Description TXH(OD)
JCB-0601	1/8" X 6 mm
JCB-0602	1/4" X 6 mm
JCB-0603	3/8" X 6 mm
JCB-0604	1/2" X 6 mm
JCB-0801	1/8" X 8 mm
JCB-0802	1/4" X 8 mm
JCB-0803	3/8" X 8 mm
JCB-0804	1/2" X 8 mm
JCB-1001	1/8" X 10 mm
JCB-1002	1/4" X 10 mm
JCB-1003	3/8" X 10 mm
JCB-1004	1/2" X 10 mm
JCB-1202	1/4" X 12 mm
JCB-1203	3/8" X 12 mm
JCB-1204	1/2" X 12 mm
JCB-3001	1/8" X 3/8"
JCB-3002	1/4" X 3/8"
JCB-3003	3/8" X 3/8"
JCB-3004	1/2" X 3/8"
JCB-4002	1/4" X 1/2"
JCB-4003	3/8" X 1/2"
JCB-4004	1/2" X 1/2"

JCBF

Part No.	Description TXH(OD)
JCBF-0601	1/8" X 6 mm
JCBF-0602	1/4" X 6 mm
JCBF-0603	3/8" X 6 mm
JCBF-0801	1/8" X 8 mm
JCBF-0802	1/4" X 8 mm
JCBF-0803	3/8" X 8 mm
JCBF-3002	1/4" X 3/8"
JCBF-3003	3/8" X 3/8"
JCBF-3004	1/2" X 3/8"
JCBF-4003	3/8" X 1/2"

JUCB

Part No.	Description H(OD)
JUCB-06	6 mm
JUCB-08	8 mm
JUCB-30	3/8"
JUCB-40	1/2"
JUCB-10	10 mm
JUCB-12	12 mm

JULB

Part No.	Description H(OD)
JULB-06	6 mm
JULB-08	8 mm
JULB-30	3/8"
JULB-40	1/2"
JULB-10	10 mm
JULB-12	12 mm

JTB

JSTB

JLB

Part No.	Description TXH(OD)
JLB-0601	1/8" X 6 mm
JLB-0602	1/4" X 6 mm
JLB-0603	3/8" X 6 mm
JLB-0604	1/2" X 6 mm
JLB-0801	1/8" X 8 mm
JLB-0802	1/4" X 8 mm
JLB-0803	3/8" X 8 mm
JLB-0804	1/2" X 8 mm
JLB-3001	1/8" X 3/8"
JLB-3002	1/4" X 3/8"
JLB-3003	3/8" X 3/8"
JLB-3004	1/2" X 3/8"
JLB-4002	1/4" X 1/2"
JLB-4003	3/8" X 1/2"
JLB-4004	1/2" X 1/2"

JLBF

Part No.	Description TXH(OD)
JLBF-0601	1/8" X 6 mm
JLBF-0602	1/4" X 6 mm
JLBF-0603	3/8" X 6 mm
JLBF-0801	1/8" X 8 mm
JLBF-0802	1/4" X 8 mm
JLBF-0803	3/8" X 8 mm
JLBF-3002	1/4" X 3/8"
JLBF-3003	3/8" X 3/8"
JLBF-4003	3/8" X 1/2"

JUTB

Part No.	Description H(OD)
JUTB-06	6 mm
JUTB-08	8 mm
JUTB-30	3/8"
JUTB-40	1/2"
JUTB-10	10 mm
JUTB-12	12 mm

Part No.	Description TXH(OD)
JTB-0601 JSTB-0601	1/8" X 6 mm
JTB-0602 JSTB-0602	1/4" X 6 mm
JTB-0603 JSTB-0603	3/8" X 6 mm
JTB-0604 JSTB-0604	1/2" X 6 mm
JTB-0801 JSTB-0801	1/8" X 8 mm
JTB-0802 JSTB-0802	1/4" X 8 mm
JTB-0803 JSTB-0803	3/8" X 8 mm
JTB-0804 JSTB-0804	1/2" X 8 mm
JTB-3001 JSTB-3001	1/8" X 3/8"
JTB-3002 JSTB-3002	1/4" X 3/8"
JTB-3003 JSTB-3003	3/8" X 3/8"
JTB-3004 JSTB-3004	1/2" X 3/8"
JTB-4002 JSTB-4002	1/4" X 1/2"
JTB-4003 JSTB-4003	3/8" X 1/2"
JTB-4004 JSTB-4004	1/2" X 1/2"

Meet the international norms:JIS B 8381

JPC
STRAINGHT

Part No.	Description
JPC04M5	M5X4mm
JPC0401	1/8" X 4mm
JPC0402	1/4"X 4mm
JPC06M5	M5 X6 mm
JPC0601	1/8" X 6mm
JPC0602	1/4" X 6mm
JPC0603	3/8" X 6mm
JPC0604	1/2" X 6mm
JPC0801	1/8" X 8mm
JPC0802	1/4" X 8mm
JPC0803	3/8" X 8mm
JPC0804	1/2" X 8mm
JPC1001	1/8" X 10mm
JPC1002	1/4" X10mm
JPC1003	3/8" X10mm
JPC1004	1/2" X 10mm
JPC1202	1/4" X12mm
JPC1203	3/8" X12mm
JPC1204	1/2" X 12mm

JPL ELBOW

Part No.	Description
JPL04M5	M5 X 4mm
JPL0401	1/8" X 4mm
JPL0402	1/4" X 4mm
JPL06M5	M5 X 6mm
JPL0601	1/8" X 6mm
JPL0602	1/4" X 6mm
JPL0603	3/8" X 6mm
JPL0604	1/2" X 6mm
JPL0801	1/8" X 8mm
JPL0802	1/4" X 8mm
JPL0803	3/8" X 8mm
JPL0804	1/2" X 8 mm
JPL1001	1/8" X10mm
JPL1002	1/4" X 10mm
JPL1003	3/8" X 10mm
JPL1004	1/2" X 10mm
JPL1202	1/4" X 12mm
JPL1203	3/8" X 12mm
JPL1204	1/2" X 12mm

JPB TEE

Part No.	Description
JPB04M5	M5 X 4mm
JPB0401	1/8" X 4mm
JPB0402	1/4" X 4mm
JPB06M5	M5 X 6mm
JPB0601	1/8" X 6mm
JPB0602	1/4"X 6mm
JPB0603	3/8" X 6mm
JPB0801	1/8" X 8mm
JPB0802	1/4" X 8mm
JPB0803	3/8" X 8mm
JPB1001	1/8" X 10mm
JPB1002	1/4" X 10mm
JPB1003	3/8" X 10mm
JPB1004	1/2" X 10mm
JPB1202	1/4" X 12mm
JPB1203	3/8" X 12mm
JPB1204	1/2" X 12mm

JPD
BRANCH TEE

Part No.	Description
JPD04M5	M5 X 4mm
JPD0401	1/8" X 4mm
JPD0402	1/4" X 4mm
JPD06M5	M5 X 6mm
JPD0601	1/8" X 6mm
JPD0602	1/4"X 6mm
JPD0603	3/8" X 6mm
JPD0801	1/8" X 8mm
JPD0802	1/4" X 8mm
JPD0803	3/8" X 8mm
JPD1001	1/8" X 10mm
JPD1002	1/4" X 10mm
JPD1003	3/8" X 10mm
JPD1004	1/2"X 10mm
JPD1202	1/4"X 12mm
JPD1203	3/8" X 12mm
JPD1204	1/2" X 12mm

JPX
BRANCH Y

Part No.	Description
JPX04M5	M5 X 4mm
JPX0401	1/8" X 4mm
JPX0402	1/4" X 4mm
JPX06M5	M5 X 6mm
JPX0601	1/8" X 6mm
JPX0602	1/4"X 6mm
JPX0603	3/8" X 6mm
JPX0801	1/8" X 8mm
JPX0802	1/4" X 8mm
JPX0803	3/8" X 8mm
JPX1002	1/4" X 10mm
JPX1003	3/8" X 10mm
JPX1004	1/2"X 10mm
JPX1202	1/4"X 12mm
JPX1203	3/8" X 12mm
JPX1204	1/2" X 12mm

JPH
UNIVERSAL
ELBOW

Part No.	Description
JPH04M5	M5 X 4mm
JPH0401	1/8" X 4mm
JPH0402	1/4" X 4mm
JPH06M5	M5 X 6mm
JPH0601	1/8" X 6mm
JPH0602	1/4"X 6mm
JPH0603	3/8" X 6mm
JPH0801	1/8" X 8mm
JPH0802	1/4" X 8mm
JPH0803	3/8" X 8mm
JPH0804	1/2" X 8mm
JPH1002	1/4" X 10mm
JPH1003	3/8" X 10mm
JPH1004	1/2"X 10mm
JPH1202	1/4"X 12mm
JPH1203	3/8" X 12mm

JSC SPEED
CONTROLLER

Part No.	Description
JSC04M5	M5 X 4mm
JSC0401	1/8" X 4mm
JSC0402	1/4" X 4mm
JSC06M5	M5 X 6mm
JSC0601	1/8" X 6mm
JSC0602	1/4"X 6mm
JSC0603	3/8" X 6mm
JSC0801	1/8" X 8mm
JSC0802	1/4" X 8mm
JSC0803	3/8" X 8mm
JSC0804	1/2" X 8mm
JSC1002	1/4" X 10mm
JSC1003	3/8" X 10mm
JSC1004	1/2"X 10mm
JSC1202	1/4"X 12mm
JSC1203	3/8" X 12mm

JPLL LONG
ELBOW

Part No.	Description
JPLL04M5	M5 X 4mm
JPLL0401	1/8" X 4mm
JPLL0402	1/4" X 4mm
JPLL0601	1/8" X 6mm
JPLL0602	1/4"X 6mm
JPLL0603	3/8" X 6mm
JPLL0801	1/8" X 8mm
JPLL0802	1/4" X 8mm
JPLL0803	3/8" X 8mm
JPLL1002	1/4" X 10mm
JPLL1003	3/8" X 10mm
JPLL1203	3/8" X 12mm
JPLL1204	1/2" X 12mm

material	working pressure	max.pressure	tempature
brass/ nylon+glass fiber	8 bar	10 bar	5~60 degree

JPCF FEMALE STRAIGHT

Part No.	Description
JPCF04M5	M5 X4mm
JPCF0401	1/8" X 4mm
JPCF0601	1/8" X 6mm
JPCF0602	1/4" X 6mm
JPCF0603	3/8"X 6mm
JPCF0801	1/8" X 8mm
JPCF0802	1/4" X 8mm
JPCF0803	3/8" X 8mm
JPCF1002	1/4"X 10mm
JPCF1003	3/8" X 10mm
JPCF1004	1/2"X 10mm
JPCF1203	3/8" X 12mm
JPCF1204	1/2" X 12mm

JPLF FEMAIL ELBOW

Part No.	Description
JPLF0401	1/8"X4mm
JPLF0402	1/4"X4mm
JPLF0601	1/8"X6mm
JPLF0602	1/4"X6mm
JPLF0603	3/8"X6mm
JPLF0801	1/8"X8mm
JPLF0802	1/4"X8mm
JPLF0803	3/8"X8mm
JPLF1001	1/8"X10mm
JPLF1002	1/4"X10mm
JPLF1003	3/8"X10mm
JPLF1202	1/4"X12mm
JPLF1203	3/8"X12mm

JPU UNION STRAIGHT

Part No.	Description
JPU0404	4mm X 4mm
JPU0606	6mm X 6mm
JPU0808	8mm X 8mm
JPU1010	10mm X 10mm
JPU1212	12mm X 12mm
JPU0604	6mm X 4mm
JPU0806	8mm X 6mm
JPU1008	10mm X 8mm
JPU1210	12mm X 10mm

JPY UNION Y

Part No.	Description
JPY04	4mm
JPY06	6mm
JPY08	8mm
JPY10	10mm
JPY12	12mm
JPY0604	6mm X 4mm
JPY0806	8mm X 6mm
JPY1008	10mm X 8mm
JPY1210	12mm X 10mm

JPE UNION TEE

Part No.	Description
JPE04	4mm
JPE06	6mm
JPE08	8mm
JPE10	10mm
JPE12	12mm

JPM UNION BULKHEAD

Part No.	Description
JPM04	4mm
JPM06	6mm
JPM08	8mm
JPM10	10mm
JPM12	12mm

JPV UNION ELBOW

Part No.	Description
JPV04	4mm X 4mm
JPV06	6mm X 6mm
JPV08	8mm X 8mm
JPV10	10mm X 10mm
JPV12	12mm X 12mm

JVA SPEED CONTROLLER

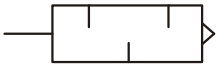
Part No.	Description
JVA04	4mm X 4mm
JVA06	6mm X 6mm
JVA08	8mm X 8mm
JVA10	10mm X 10mm

JPF UNION

Part No.	Description
JPF04	4mm
JPF06	6mm
JPF08	8mm

material	working pressure	max.pressure	tempature
brass/ nylon+glass fiber	8 bar	10 bar	5~60 degree

SINTERED BRONZE SILENCERS/MUFFLERS

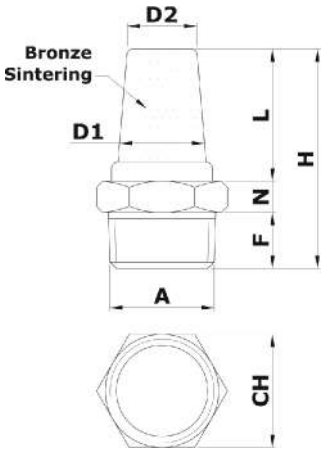


1.Reduce noise from Ports, Valves, Air Tools and Cylinders to be acceptable levels within OSHA noise requirements.

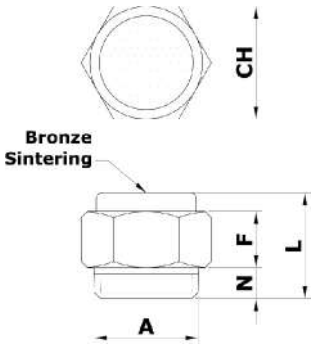
2.Can be used as filters for gas, oil and air

Mesh	Microns	mm
10-20	120	0.850-1.700
20-30	100	0 500-0 850
30-40	70	0.355-0.500
40-60	40	0.250-0.355
60-80	20	0.180-0.250
80-120	10	0.125-0.180
120-170	5	0 090-0 125
170-250	1	0.063-0.090

Part No.	Type	A	D1	D2	N	F	L	CH
JSLB-L-M5	M5	M5	5	4	3	5	12	8
JSLB-L-01	1/8”	PT 1/8”	8	7	4	6	14	12
JSLB-L-02	1/4”	PT 1/4”	12	10	4	8	18	16
JSLB-L-03	3/8”	PT 3/8”	14	11	5	9	21	18
JSLB-L-04	1 /2”	PT 1 /2”	19	15	6	10	28	24
JSLB-L-06	3/4”	PT 3/4”	25	20	8	10	32	30
JSLB-L-08	1”	PT 1”	30	25	8	12	43	36



Part No.	Type	A	N	F	L	CH
JSLB-S-M5	M5	M5	3	5	9.5	8
JSLB-S-01	1/8”	PT 1/8”	4	6	12	12
JSLB-S-02	1/4”	PT 1/4”	4	8	15	16
JSLB-S-03	3/8”	PT 3/8”	5	9	17	18
JSLB-S-04	1 /2”	PT 1 /2”	6	10	18.5	24
JSLB-S-06	3/4”	PT 3/4”	8	10	21	30
JSLB-S-08	1”	PT 1”	8	12	23	36



Material	working pressure	Max.pressure	Tempature
Brass	8 bar	10 bar	-20~80 degree

MANIFOLD

Air Inlet	1/4 ” NPT
Gauge port	1/8 ”
Proof Pressure	250 PSI
Adj. pressure range	3-125 PSI
Ambient Temp.	5°C ~ 60°C

DRAIN VALVE

Part No.
D102N

1/4" Male NPT

Part No.
D702N / D703N

1/4" Male NPT / 3/8" Male NPT

Part No.
D302N

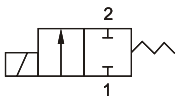
1/4" Male NPT

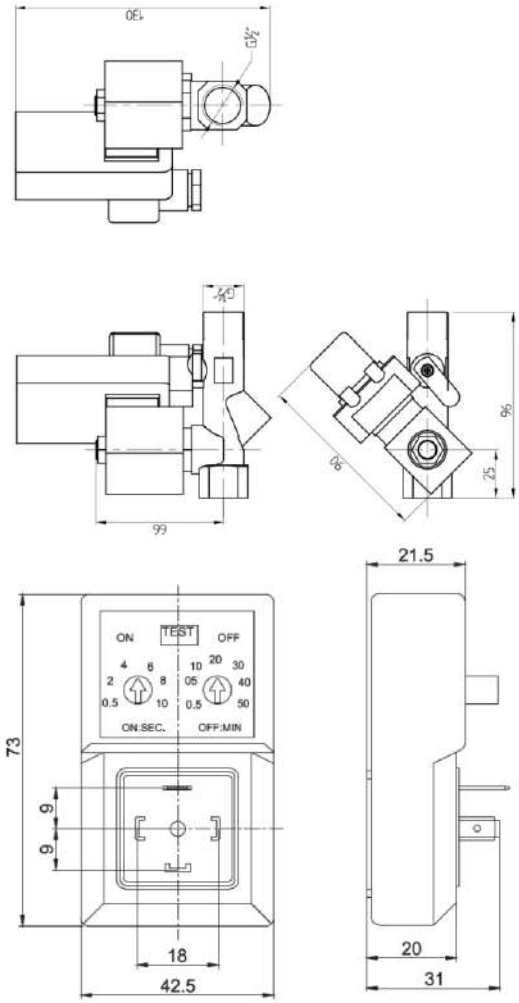
Part No.
D802N

1/4" Male NPT

D904

AUTOMATIC DRAIN CONTROL WATER VALVE





SPECIFICATION：

Part NO.		D90	
Operating Method		Direct action	
Input		1/2"male、1/4"female	
Output		1/2"female	
Working Pressure	Psi	232	
	Mpa	1.6	
Timer		Mechanical timer	
Manual operation		YES	
Knob adjustment time and range		Time ON	from 0.5 to 10s.
		Time OFF	from 0.5 to 45min
Ambient Temp(˚C)		-5℃~+60℃	
Body Material		Brass	
Orifice(mm)		3.5mm	
Class protection		IP65-EN60529	
Voltage(V)		AC110、AC220	
Filter Element		60 mesh	

FEATURES：

Drain water effectively to reduce the volume of compressed air, and avoid the occurrence of the rust in air reservoir.

CHECK VALVE

IN OUT

Part No.
V30

3/8" Male(PT,NPT)

Part No.
V40

1/2" Male(PT,NPT)

Part No.
V46

1/2" Male(PT,NPT)

Part No.
V47

1/2"NPT With Hose Fitting

Part No.
V48

1/2" FEMAIL NPT

Part No.
VM01N

1/2"NPTx3/8"OD TUBE

Part No.
VM02N

1/2"NPTx1/2"OD TUBE

Part No.
VM03N

1/4"NPT MALE

Part No.
VM04N

1/4"NPTx1/4" COMPRESSION

Part No.
VM05

1/2"NPTx1/2"TUBE

Part No.
VM06

1/8"NPT PORT

Part No.
VM07

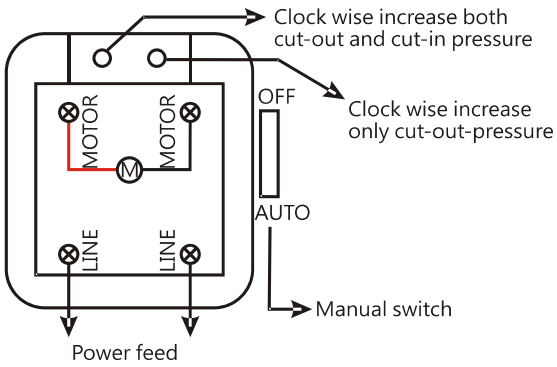
1/2"NPTx3/8"TUBE

Part No.
VM08

1/2"-14NPTx11/16-20UNS-2A

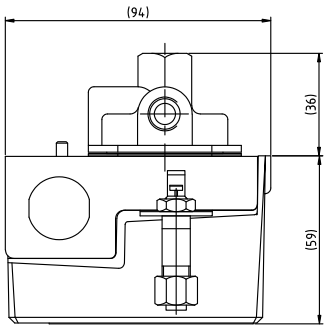
Part No.
VM10

VALVE CHECK 1/2"NPT x 9/16"TUBE



E20-A0

E22-A1



E20 1/4"FEMALE
4 PORTS

E22 1/4"FEMALE

MODEL	Min ON (Cut-In) PSI	Max Off (Cut-In) PSI	Differential PSI	Factory Setting PSI	Electrical Rating		Pipe Fittings	Contact Arrangement
					125V/AC	250V/AC		
E20-A0	40	180	30~40	85-115	20A	15A	1/4" Female (4 Ports)	NC
E20-A1							1/4" Female (4 Ports)	
E22-A0							1/4" Female	
E22-A1							1/4" Female	

◎**A0:Bottom ports for wires. A1:Side ports for wires.**

SAFETY VALVE

CRN:0G10654.5

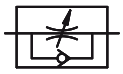
Valve type	Set pressure (PSI)	Rated capacity (SCFM)	Size
T102N	50	18.7	1/4”,1/8” NPT(PT)
	60	21.7	
	70	24.7	
	80	27.6	
	90	30.6	
	100	33.5	
	110	36.5	
	120	39.5	
	130	42.4	
	140	45.4	
	145	46.9	
	150	48.3	
	160	51.3	
	165	52.8	
	170	54.3	
	175	55.7	
	180	57.2	
	190	60.2	
	200	63.1	
	210	66.1	
	220	69.1	
	225	70.5	
	230	72	
	240	75	
	250	77.9	
	260	80.9	
	270	83.8	
	275	85.3	

ASME approval pressure range : 50psi~275psi

◎ APPLICABLE CODE: ASME SEC.XIII

◎ EACH VALVE HAS BEEN TESTED AT 90% OF SET PRESSURE FOR SEAT TIGHTNESS.
(REFERENCE:API STANDARD 527)

FLOW CONTROL VALVE



SPECIFICATION :

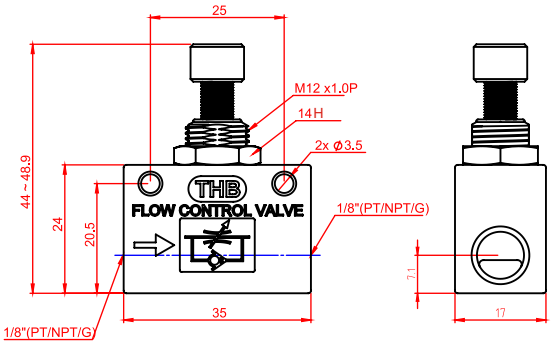
Part No.	VF211	VF212	VF313	VF414
Medium	Air			
Air Inlet (PT,NPT,G)	1/8"	1/4"	3/8"	1/2"
Operating Pressure Range	0 ~ 10 BAR			
Proof Pressure	5 BAR			
Ambient Temp	-5~60 °C (NO Frozen)			
Controlled Flow(L/min) @5bar	240	510	1030	1340
Free Flow(L/min) @5bar	260	510	1030	1150
Weight	77g	75g	65g	95g

FEATURES :

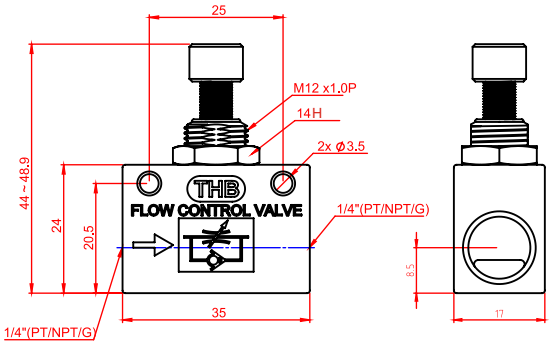
1. The inlet and outlet holes are on the same axis
2. Completely airtight when fasten the screw
3. Easily install in any equipment
4. Precise adjustment screw with 0.5mm thread pitch

Application:

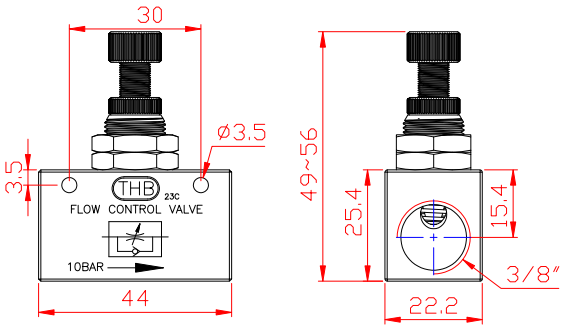
Mounting position in any airflow equipment



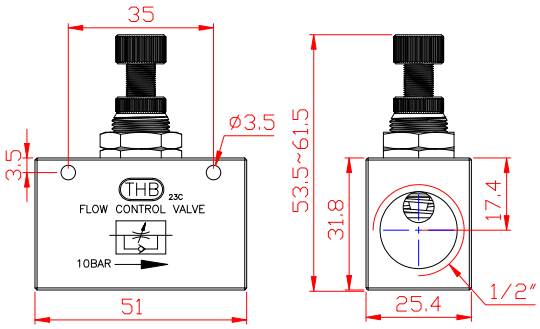
VF211



VF212



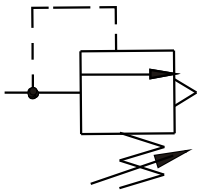
VF313



VF414

PILOTED UNLOADER VALVE

VE20 Series

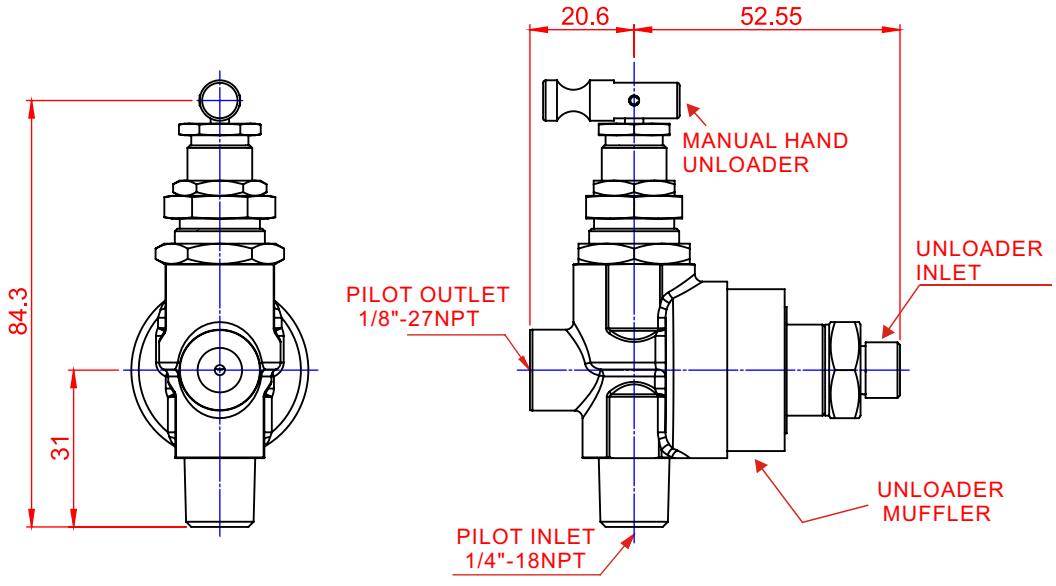


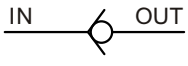
SPECIFICATION：

Part NO.	VE20	VE21	VE22	VE23
Material	Brass			
Unload Set Pressure Range	2.75~17.2BAR / 0.275~1.72MPa / 40~250 PSI			
Set Pressure Differential Range	0.69~3.45BAR / 0.069~0.345MPa / 10~50 PSI			
Operating Temperature Range	-50°C ~ 200°C / -58°F~392°F (Non frozen)			
Max Flow Capacity	20 SCFM (560L/min)@100PSI			
Unloader Connection Sizes	7/16-24 UNS-2A	1/4"-18 NPT	9/16-24 UNF-2A	1/4"-19 PT
	Male	Female	Male	Female

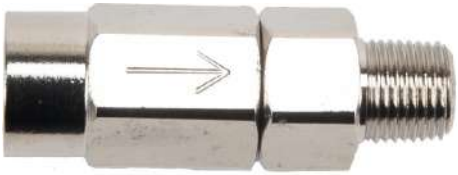
FEATURES：

Piloted unloader valves combine a pilot valve and an unloader valve to run an air compressor continuously. While this type of valve is most commonly used on gas-powered air compressors, it can also be used on electric models. While the air compressor is running, the pilot remains closed until the pressure reaches the unload setting. When that happens, the pilot opens and pressurizes the unloader valve, causing the unloader valve to open and excess air from the compressor to vent to atmosphere. As the compressed air is used and the pressure drops to the load setting, the pilot closes and depressurizes the unloader valve. The unloader valve then closes and the pressure begins to build again and repeats the cycle.

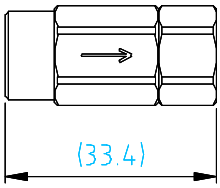


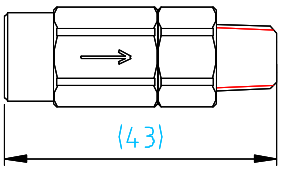


VC501F1F



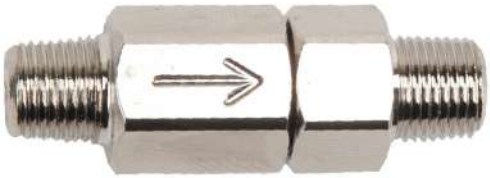
VC501F1M



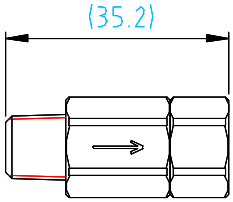


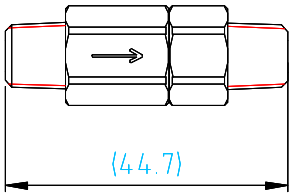
1/8"(F)Input Port(Check Valves)

VC501M1F



VC501M1M





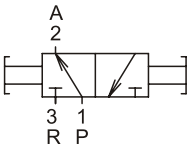
1/8"(M) Input Port(Check Valves)

Description \ Part No.		VC501F1F	VC501F1M	VC501M1M	VC501M1F
Medium		Air			
Material		Brass / Steel			
Working Pressure		0 ~125 PSI (0 ~ 8.6Bar)			
Operating Temperature Range		-20℉ ~ 160℉ (-29℃ ~ 71℃)			
Air Inlet (PT,NPT)		1/8"			
CV		0.41			
Flow Rate(scfm)	50PSI(3.4Bar)	14.3			
	125PSI(8.6Bar)	31.5			
Cracking Pressure		1.0			

FEATURES :

- Low cracking pressure
- Electroless nickel plated for corrosion resistance
- Multiple porting options

SLIDE VALVE



Description / Part No.	VS202	VS303
Medium	Air	
Material	Steel	
Working Pressure	218PSI / 15Bar / 1.5MPa	
Maximum Pressure	290PSI / 20Bar / 2MPa	
Operating Temperature Range	-20°C ~+80°C	
Port Size (PT,NPT)	1/4”	3/8”

FEATURES :

1.The air from system could be trapped when slide valve is in close position.
2.The remaining air pressure in downstream equipment could be released and can extend life time for air system and equipment.
3.Easy installation.
4.It is recommended to install slide valve in front of FRL (air control unit) on the beginning of air system.

Description / Part No.	VC101	VC202	VC303	VC404
Medium	Air			
Material	Steel			
Working Pressure	218PSI(15Bar/1.5MPa)			
Maximum Pressure	290PSI(20Bar/2MPa)			
Operating Temperature Range	-20°C ~+80°C (NBR O-ring)			
Flow(L/min)	200	860		1600
Air Inlet (PT,NPT)	1/8”	1/4”	3/8”	1 /2”

FEATURES :

1.Easy installation.
2.Prevent air backflow.

F.R.L. Air Control Unit

PG15B1P-11BAR

PG15B1P-16BAR

PG20B2P-11BAR

PG10S-16BAR-1

PG20H1N-16BAR

PG20B2P-15KG

PG25B2P-15BAR

PG35B2P-15BAR

SPECIFICATION :

Model No.	Diameter	Connecting mounting port size	Max pressure /UNIT
PG10S-16BAR-1	1”	N/A	16BAR
PG15B1P-11BAR	1.5”	1/8”	11bar, 160psi
PG15B1P-1.5MPa	1.5”	1/8”	1.5MPa
PG15B1N-16BAR	1.5”	1/8”	16bar, 240psi
PG20H1N-16BAR	2”	1/8”	16bar,232psi
PG20B2P-11BAR	2”	1/4”	11bar,160psi
PG20B2P-15KG	2”	1/4”	15kgf/cm^2,200Lb/m^2
PG25B2P-15BAR	2.5”	1/4”	15bar, 210psi
PG35B2P-15BAR	3.5”	1/4”	15bar, 210psi

NA212

NA212-Operation Single Type

NA212-Operation Double Type

NA212-Manifold Type

SPECIFICATION

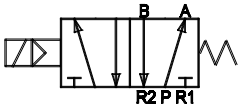
Part No.		NA212(E1) NA212L(E1)	NA212(E2) NA212L(E2)	NA222(E1) NA222L(E1)	NA222(E2) NA222L(E2)
Medium		Air			
Air Inlet		1/4 PT, NPT, G			
Operating		Single		Double	
Working Pressure		29~188PSI / 2~13BAR / 0.2~1.3MPa			
Max Pressure		218PSI / 15Bar / 1.5MPa			
Ambient Temp		-5 ~ 60°C (No freezing)			
Flow(L/min)		1700			
Response Time		0.05s			
Circulation Volume (Cv)		1.03			
Insulation Class		F			
Protection Class		IP 65			
Voltage	DC	12V	24V	DC24V	
	AC	110V	220V		
Meet the international norms		JIS B 8375			

ORDER INFORMATION

NA 2 □ 2 (E □) □ L

- **Solenoid Valve:** 5Port 2Ways
- **Body size:** 1/4
- 1-General
  2-Car type
- **Port size:** 1/4
- **Solenoid:**
  1:Single
  2:Double
- **Voltage:**
  AC110/AC220
  DC12/DC24
- **Flying Leads**
  X:DIN TYPE(DIN 43650B)

NA212-Operation Single Type Drawing



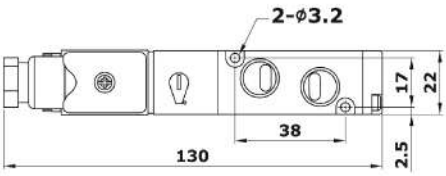
Normal form:

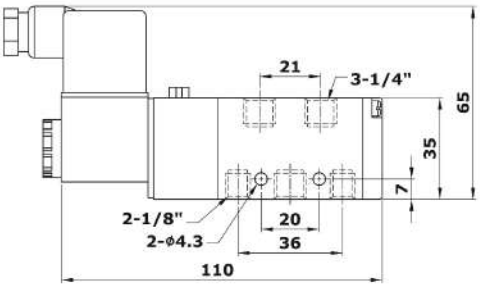
P: Air intake
R1: Air intake (blocked)
R2: Exhaust place

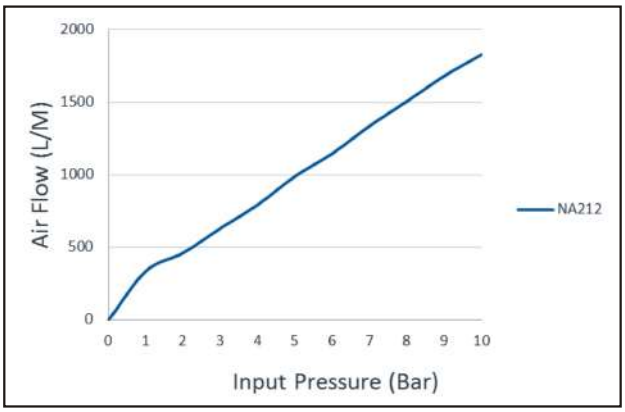
When the left side is energized:

P: Air intake
R1: Exhaust place
R2: Air intake (blocked)

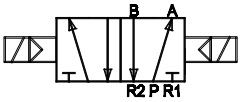
Other: Springs







NA212-Operation Double Type Drawing

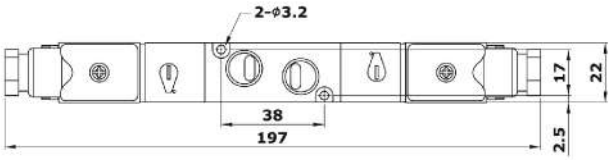


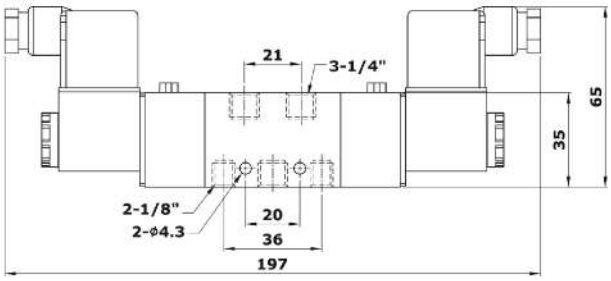
When the left side is energized:

P: Air intake
R1: Air intake (blocked)
R2: Exhaust place

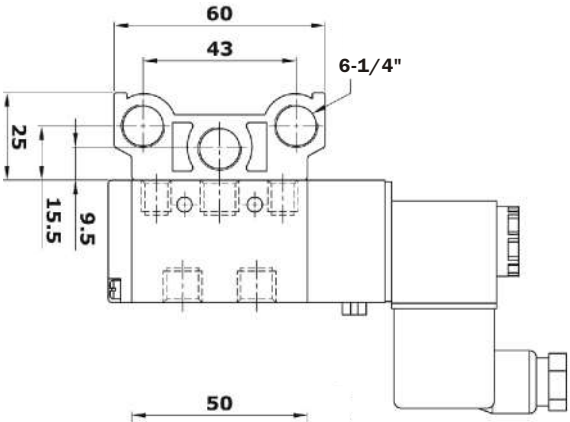
When the right side is powered on:

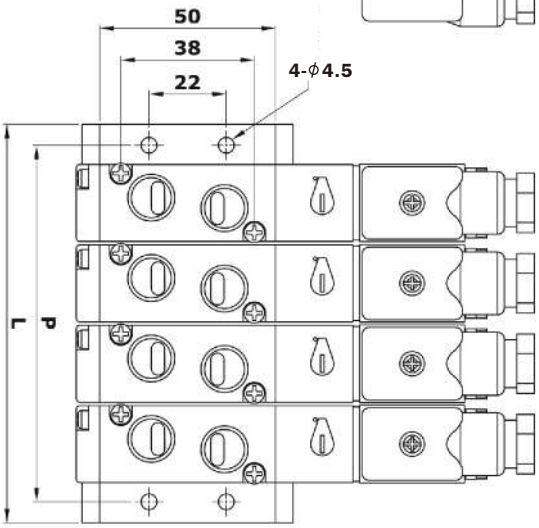
P: Air intake
R1: Exhaust place
R2: Air intake (blocked)





NA212-Manifold Type Drawing





Stations Part No.	2 Stations	3 Stations	4 Stations	5 Stations	6 Stations	7 Stations
	NA2010	NA2011	NA2012	NA2013	NA2014	NA2015
P	57	80	103	126	149	172
L	69	92	115	136	164	184

NA313-5PORT2 WAY

NA313-Operation Single Type

NA313-Operation Double Type

NA313-Manifold Type

SPECIFICATION

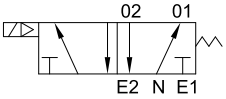
Part No.		NA313(E1) NA313L(E1)	NA313(E2) NA313L(E2)	NA323(E1) NA323L(E1)	NA323(E2) NA323L(E2)
Medium		Air			
Air Inlet		3/8" PT, NPT, G			
Operating		Single		Double	
Working Pressure		29~188PSI / 2~13BAR / 0.2~1.3MPa			
Max Pressure		218PSI / 15Bar / 1.5MPa			
Ambient Temp		-5 ~ 60 °C (No freezing)			
Flow(L/min)		3400			
Response Time		0.05s			
Circulation Volume (Cv)		2.06			
Insulation Class		F			
Protection Class		IP 65			
Voltage	DC	12V	24V	DC24V	
	AC	110V	220V		
Meet the international norms		JIS B 8375			

ORDER INFORMATION

NA 3 □ 3 (E □) □ L

- **Solenoid:** 1:Single 2:Double
- **Port size:** 3/8
- 1-General 2-Car type
- **Body size:** 3/8
- **Solenoid Valve:** 5Port 2Ways
- **Voltage:** AC110/AC220 DC12/DC24
- **Flying Leads** X:DIN TYPE(DIN 43650B)

NA313-Operation Single Type Drawing



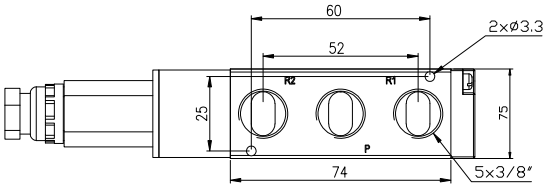
Normal form:

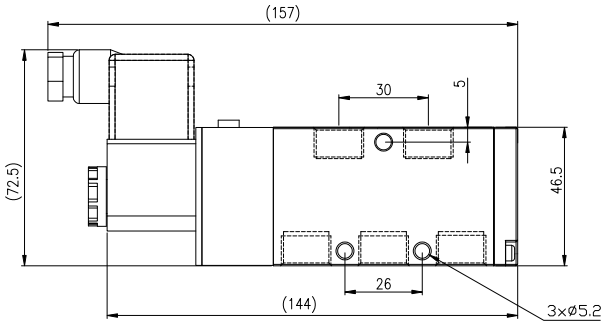
N: Air intake
E1: Air intake (blocked)
E2: Exhaust place

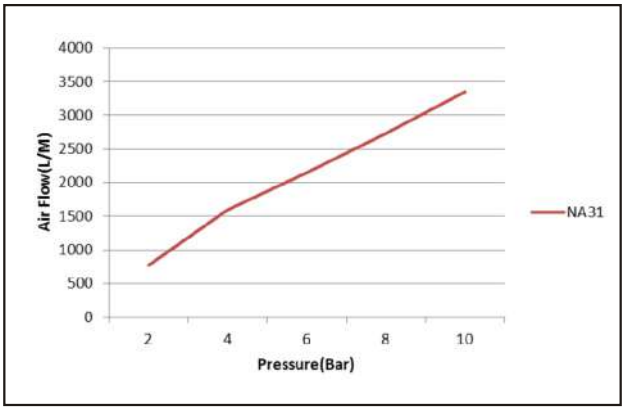
When the left side is energized:

N: Air intake
E1: Exhaust place
E2: Air intake (blocked)

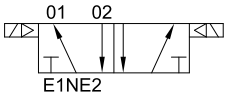
Other: Springs







NA313-Operation Double Type Drawing

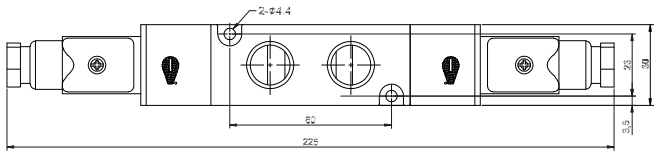


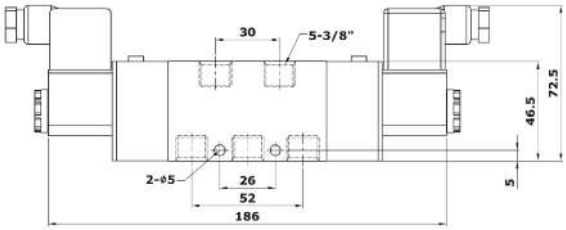
When the left side is energized:

N: Air intake
E1: Air intake (blocked)
E2: Exhaust place

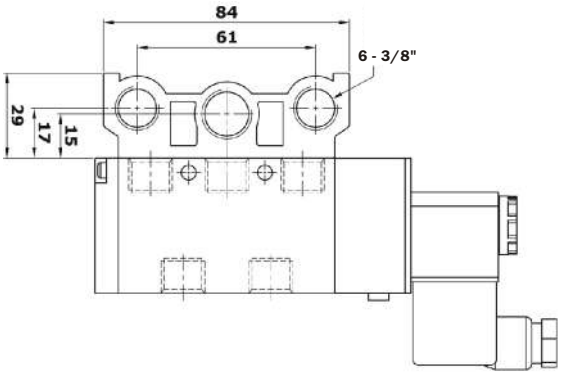
When the right side is powered on:

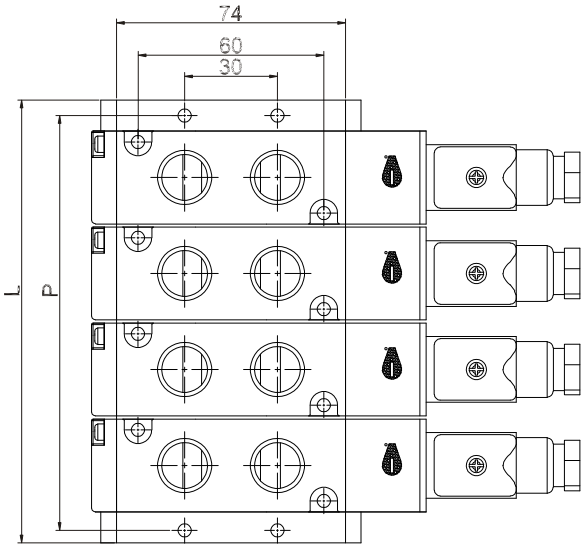
N: Air intake
E1: Exhaust place
E2: Air intake (blocked)





NA313-Manifold Type Drawing





Stations Part No.	2 Stations	3 Stations	4 Stations	5 Stations
	NA3017	NA3018	NA3019	NA3020
P	71	102	133	164
L	81	112	143	174

NC212-5PORT 3 WAY

NC212-AC110-E2C

NC313-5PORT 3 WAY

NC313-AC110-E2C

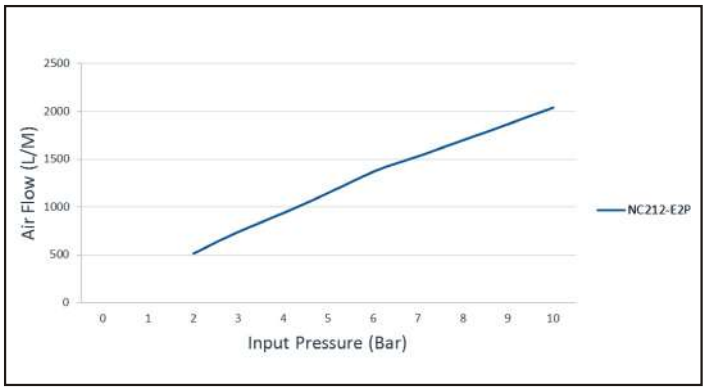
SPECIFICATION

Part No.		NC212(E2) NC212L(E2)			NC313(E2) NC313L(E2)		
		E2C	E2P	E2R	E2C	E2P	E2R
Medium		Air					
Air Inlet		1/4" 3/8"PT,NPT,G					
Coil		Double					
Working Pressure		43~188PSI / 3~13 Bar / 0.3~1.3MPa					
Max Pressure		218PSI / 15Bar / 1.5MPa					
Ambient Temp		-5 ~ 60°C (No freezing)					
Flow(L/min)		2000			3600		
Response Time		0.05s			0.05s		
Circulation Volume (Cv)		0.8	1.13	1.03	cv=2.5		
Insulation Class		F					
Protection Class		IP 65					
Voltage	DC	12V	24V		12V	24V	
	AC	110V	220V		110V	220V	
Meet The International Norms		JIS B 8375					

ORDER INFORMATION

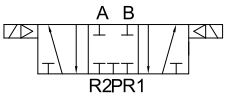
NC □ 1 □ (E2□) □ L

- **Flying Leads**: X:DIN TYPE(DIN 43650B)
- **Voltage**: AC110/AC220, DC12/DC24
- **Port size**: 2-1/4, 3-3/8
- **Solenoid**: C:Double Closed Center; P:Double Pressurized center; R:Double Exhaust Center
- **Body size**: 2-1/4, 3-3/8
- **Solenoid Valve**: 5Port 3Ways



NC212-5PORT 3 WAY

NC212-E2C **NC212-E2P** **NC212-E2R**



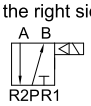
Normal form:

P、R1、R2:
Air intake (blocked)

When the left side is energized:

P: Air intake
R1: Exhaust place
R2: Air intake (blocked)

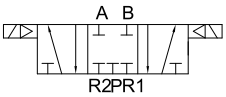
When the right side is powered on:



P: Air intake
R1: Air intake (blocked)
R2: Exhaust place

NC313-5PORT 3 WAY

NC313-E2C **NC313-E2P** **NC313-E2R**



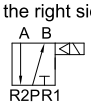
Normal form:

P、R1、R2:
Air intake (blocked)

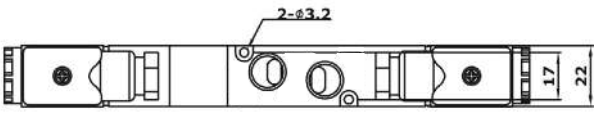
When the left side is energized:

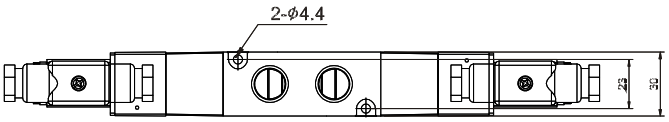
P: Air intake
R1: Exhaust place
R2: Air intake (blocked)

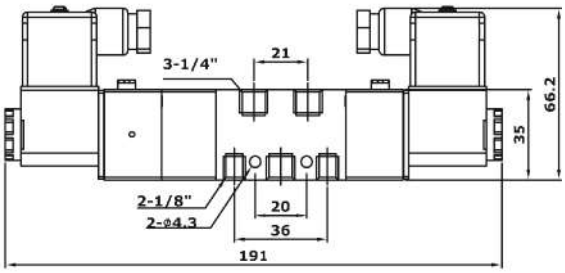
When the right side is powered on:

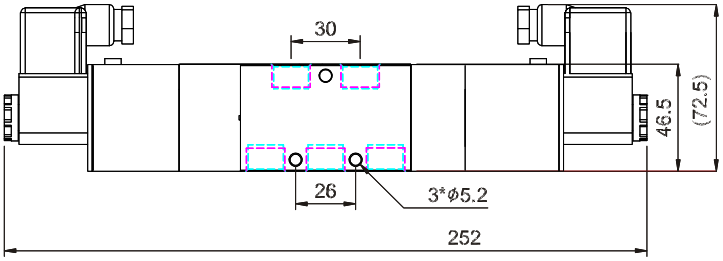


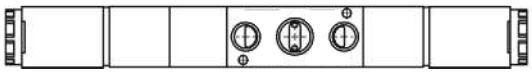
P: Air intake
R1: Air intake (blocked)
R2: Exhaust place

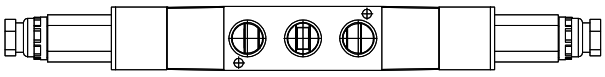












2 PORT 2 WAY

NB202

SPECIFICATION

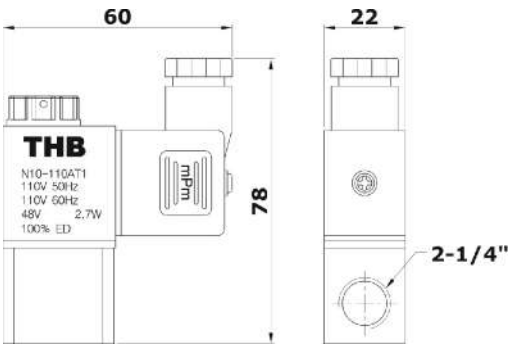
Part No.		NB202	
Medium		Air	
Air Inlet		1/4”	
Thread		PT, NPT, G	
Operating		Single	
Working Pressure		215PSI / 15Bar / 1.5MPa	
Ambient Temp		-10 ~ 60 ˚C (No freezing)	
Flow(L/min)		1100	
Response Time		0.05 sec	
Circulation Volume(CV)		0.4	
Insulation Class		F	
Protection Class		IP 65	
Voltage	DC	12V	24V
	AC	110V	220V
Meet The International Norms		JIS B 8373	

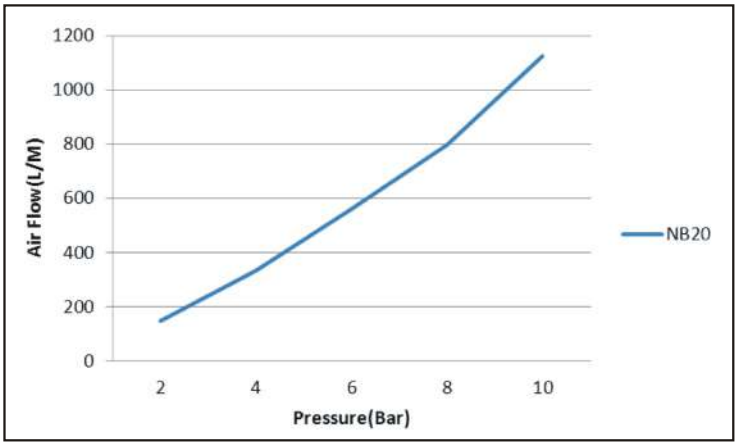
ORDER INFORMATION

NB 2 □ 2 □

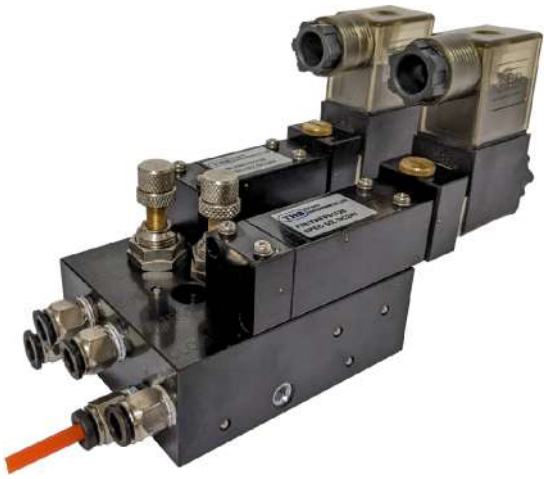
- NB: Solenoid Valve: 2Port
- 2: Body size: 1/4
- □: 0-NC, 1-NO
- 2: Port size: 1/4
- □: Voltage: AC110/AC220, DC12/DC24

NB202 Drawing





INTEGRATED SOLENOID VALVE



YWFP01120

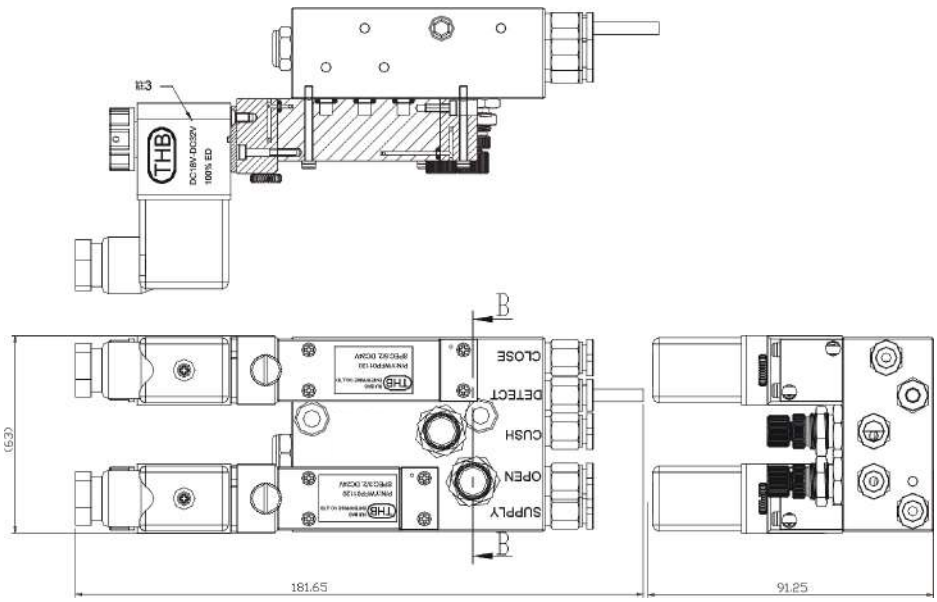
YWFPPR7656

SPECIFICATION

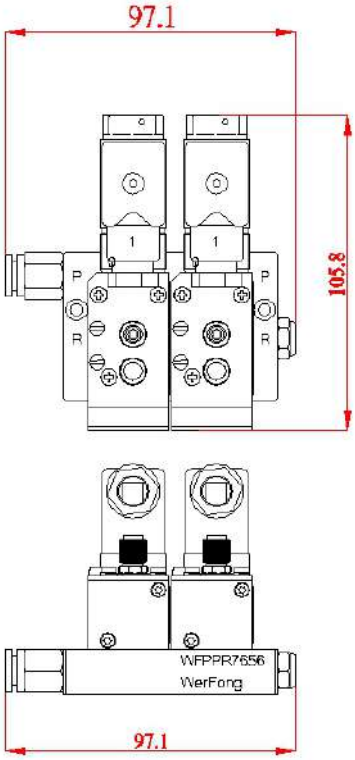
Part NO.	YWFP01120	YWFPPR7656
Medium	Air	
Air Inlet	6mm	8mm
Max Working Pressure	29~120PSI / 2~8Bar / 0.2~0.8MPa	
Ambient Temp	-5~50℃ / 23~122℉ (No freezing)	
Voltage DC	18~32V (DC24V Standard)	

APPLICATION:

Automatic control for opening and closing of train and metro.



YWFP01120



YWFPPR7656

2 PORT 2 WAY SOLENOID VALVE

AUTOMATIC DRAIN CONTROL WATER VALVE

NB222

NB222L

NB404

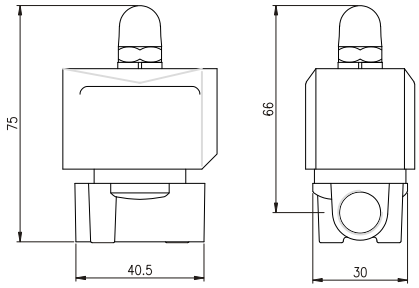
NB404L

SPECIFICATION

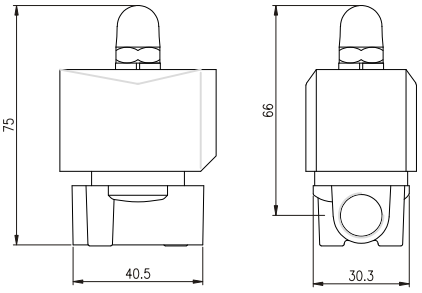
Part No. / Description	NB222 / NB222L	NB232 / NB232L	NB242 / NB242L	NB303 / NB303L	NB404 / NB404L	NB606 / NB606L	NB1000 / NB1000L	NB1600 / NB1600L	NB2000 / NB2000L
Medium	Air, Water, Oil								
Working Pressure(BAR)	10	20	10	10	10	0.7	0.7	0.7	0.7
Max Pressure(BAR)	15	35	15	15	15	10	10	10	10
Valve Type	Normally Closed								
Operating Method	Direct action								
Orifice(mm)	2.5	1.2	4	4	16	20	25	40	50
CV Value	0.23	0.05	0.6	0.6	4.8	7.6	12	29	48
Air Inlet	1/4"	1/4"	1/4"	3/8"	1/2"	3/4"	1"	1 1/2"	2"
Medium Viscosity	Under 20CST								
Ambient Temp(°C)	-5~80(Non frozen)								
Voltage(V)	AC110、AC220、DC24								
Voltage Range	±10%								
Body Material	Brass								

2 PORT 2 WAY SOLENOID VALVE

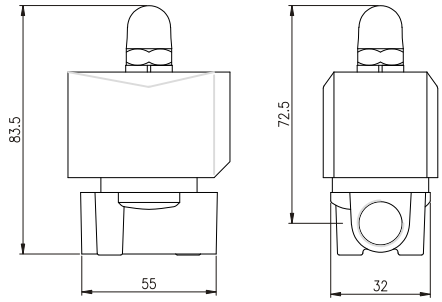
NB222

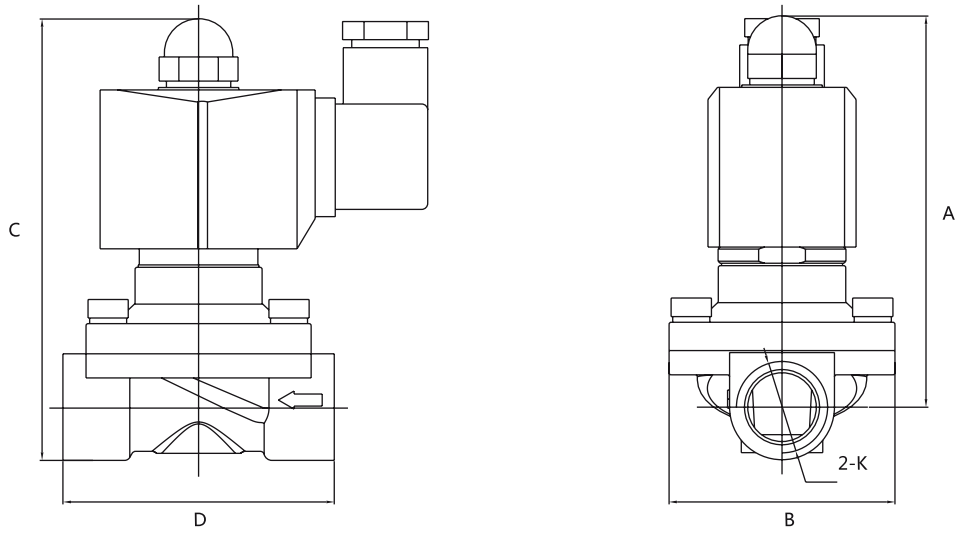


NB232



NB303





Model	A	B	C	D	K
NB404	97	57	110	66	G1/2
NB600	106	57	115	70	G3/4
NB1000	106	73	122	99	G1
NB1600	136	90.5	167	124	G1-1/2
NB2000	151	124	186	164	G2

FEATURES：

1. IP rating: IP 65
2. Voltage drop range within ±10%
3. Working at zero pressure is available
4. DIN coil and Grommet can be chosen
5. Can be used as a switch for both air, water and oil

NP101

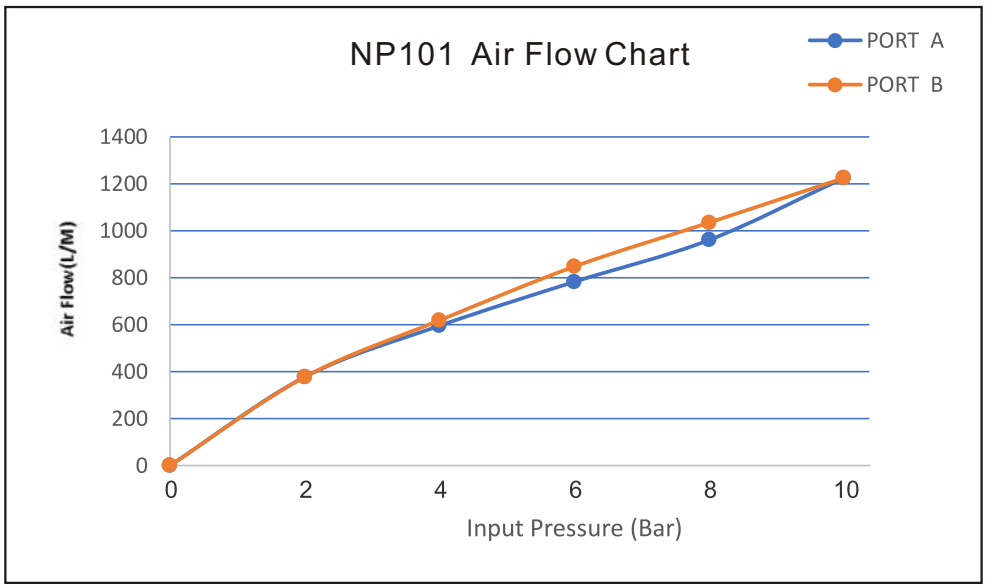
NP101

NP101-32

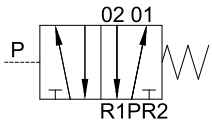
NP101-Client

SPECIFICATION

Part NO.	NP101	NP101-32	NP101-Client
Medium	Air		
Number of Port	5	3	5 or 3
Pneumatic Control	Single		
Working Pressure	0~114PSI / 0~8Bar / 0~0.8MPa		
Ambient Temp	-5~60 °C (No Freezing)		
Flow(L/min)@ 6Bar	800		
Reflective Time	0.05s		
Circulation Volume (Cv)	0.69		
Pilot Pressure Range	1.5~8Bar (22~114PSI/0.15~0.8MPa)		



NP101-5 PORT 2 WAY



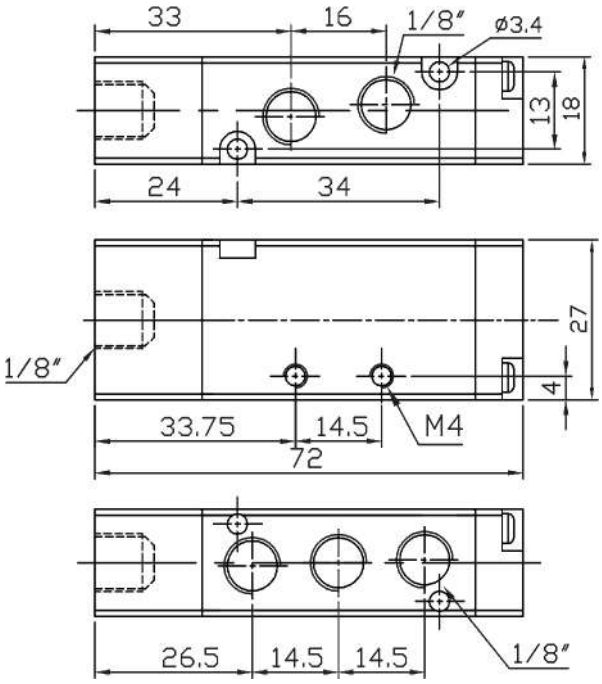
Normal form:

P: Air intake
R1: Exhaust place
R2: Air intake (blocked)

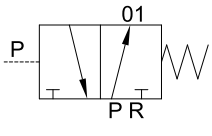
When the left air intake:

P: Air intake
R1: Exhaust place
R2: Air intake (blocked)

Other: Springs



NP101-3 PORT 2 WAY



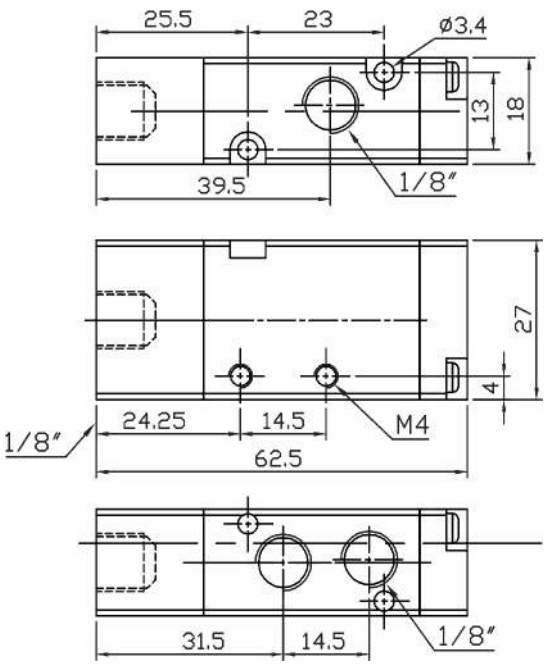
Normal form:

P: Air intake
R: Air intake (blocked)

When the left air intake:

P: Air intake (blocked)
R: Exhaust place

Other: Springs



NP212-5PORT 2 WAY

NP212-A1

NP212-A2

NP212-5PORT 3 WAY

NP212-A2C/A2P/A2R

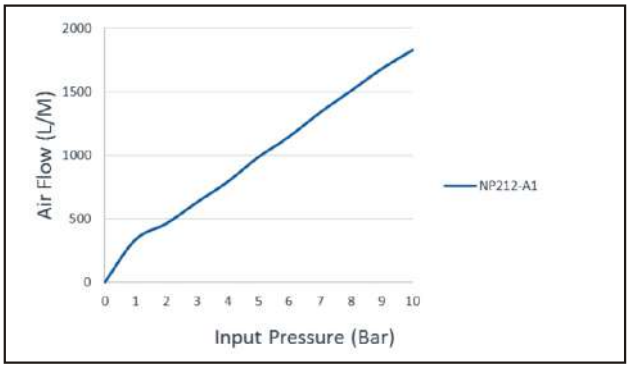
SPECIFICATION

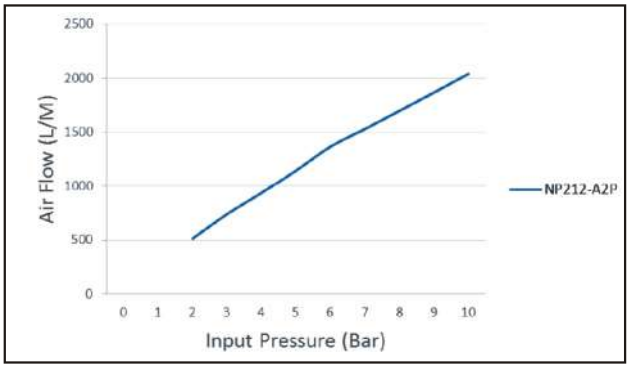
Part No.	NP212(A1)	NP212(A2)	NP212(A2C/A2P/A2R)
Medium	Air		
Air Inlet	1/4PT,NPT,G		
Pneumatic control	Single	Double	
Ambient Temp	-5～60℃(No freezing)		
Flow(L/min)	2000		
Reflective Time	0.05s		
Circulation Volume (Cv)	1.03		A2C:0.8 / A2P:1.13 / A2R:1.03
Pilot pressure range	15~191PSI / 1~13Bar / 0.1~1.3MPa		

ORDER INFORMATION

NP 2 1 2 (A □) / NP 2 1 2 (A □ □)

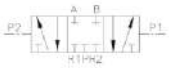
- **Pneumatic Valve**
- **Body size:** 1/4
- **Port size:** 1/4
- **Pneumatic:** 1:Single 2:Double
- **Pneumatic Valve**
- **Body size:** 1/4
- **Port size:** 1/4
- **Pneumatic:** 1:Single 2:Double
- **Position:** C:Closed Center P:Pressurized Center R:Exhaust Center



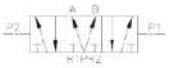


NP212-5Port 3 Way Drawing

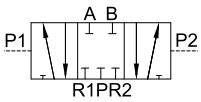
NP212-A2C



NP212-A2P



NP212-A2R



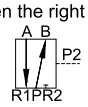
Normal form:

P、R1、R2:
Air intake (blocked)

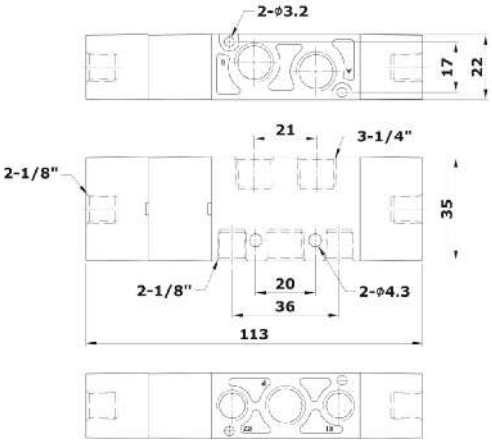
When the left air intake:

P: Air intake
R1: Air intake (blocked)
R2: Exhaust place

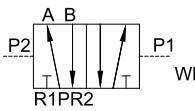
When the right air intake:



P: Air intake
R1: Exhaust place
R2: Air intake (blocked)



NP212-5Port 2 Way Double Pneumatic Control Drawing

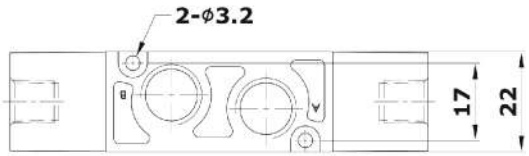


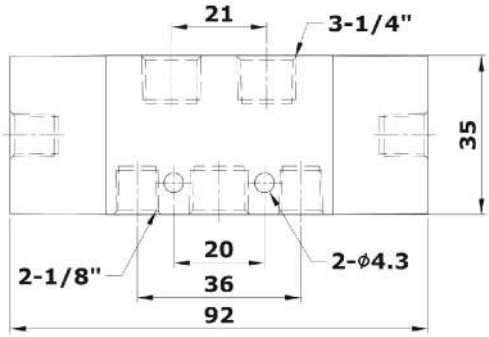
When the left air intake:

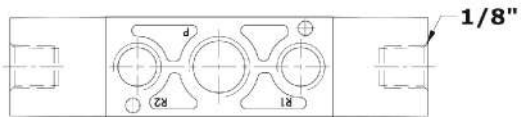
P: Air intake
R1: Air intake (blocked)
R2: Exhaust place

When the right air intake:

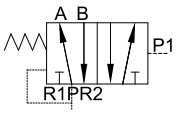
P: Air intake
R1: Exhaust place
R2: Air intake (blocked)







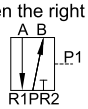
NP212-5Port 2 Way Single Pneumatic ControlDrawing



Normal form:

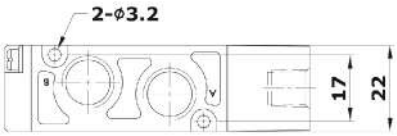
P: Air intake
R1: Air intake (blocked)
R2: Exhaust place

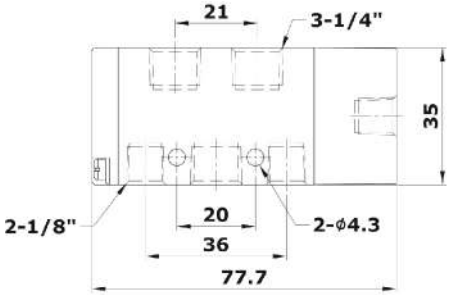
When the right air intake:

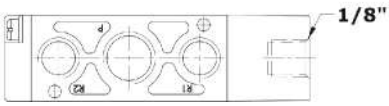


P: Air intake
R1: Exhaust place
R2: Air intake (blocked)

Other: Springs







NP313-5PORT 2 WAY

NP313-A1

NP313-A2

NP313-5PORT 3 WAY

NP313-A2C/A2P/A2R

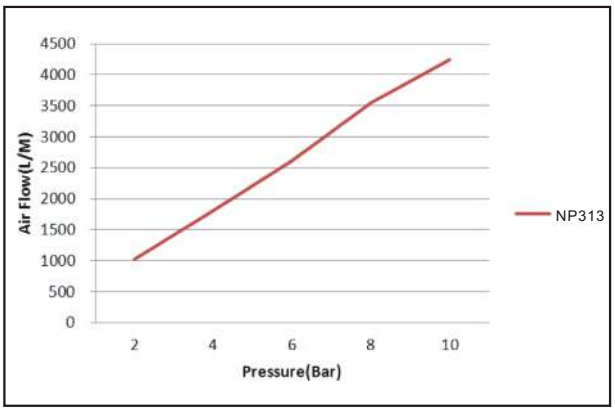
SPECIFICATION

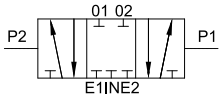
Part No.	NP313(A1)	NP313(A2)	NP313(A2C/A2P/A2R)
Medium	Air		
Air Inlet	3/8 PT, NPT, G		
Pneumatic control	Single	Double	
Ambient Temp	-5 ~ 60°C (No freezing)		
Flow(L/min)	4300		
Reflective Time	0.05s		
Circulation Volume (Cv)	1.77		
Pilot pressure range	22~114PSI / 1.5~8Bar / 0.15~0.8MPa		

ORDER INFORMATION

NP 3 1 3 (A □) / NP 3 1 3 (A □ □)

- **Pneumatic Valve**
- **Body size:** 3/8
- **Port size:** 3/8
- **Pneumatic:** 1:Single 2:Double
- **Position:** C:Closed Center P:Pressurized Center R:Exhaust Center





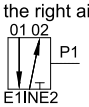
Normal form:

IN、E1、E2:
Air intake (blocked)

When the left air intake:

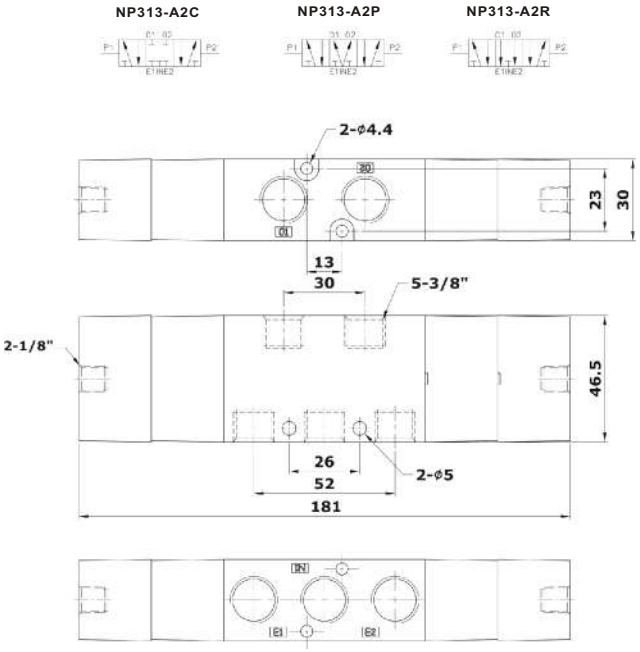
IN: Air intake
E1: Air intake (blocked)
E2: Exhaust place

When the right air intake:

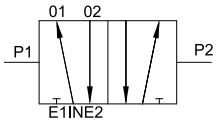


IN: Air intake
E1: Exhaust place
E2: Air intake (blocked)

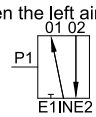
NP313-5Port3 way Drawing



NP313-5Port 2 Way
Double Pneumatic Control Drawing

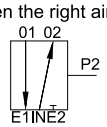


When the left air intake:

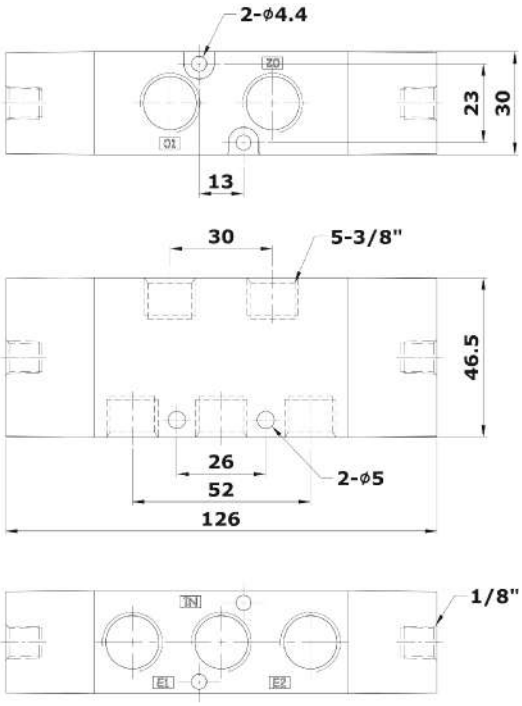


IN: Air intake
E1: Air intake (blocked)
E2: Exhaust place

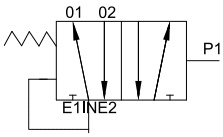
When the right air intake:



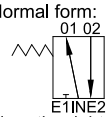
IN: Air intake
E1: Exhaust place
E2: Air intake (blocked)



NP313-5Port 2 Way
Single Pneumatic Control Drawing

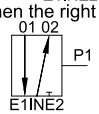


Normal form:



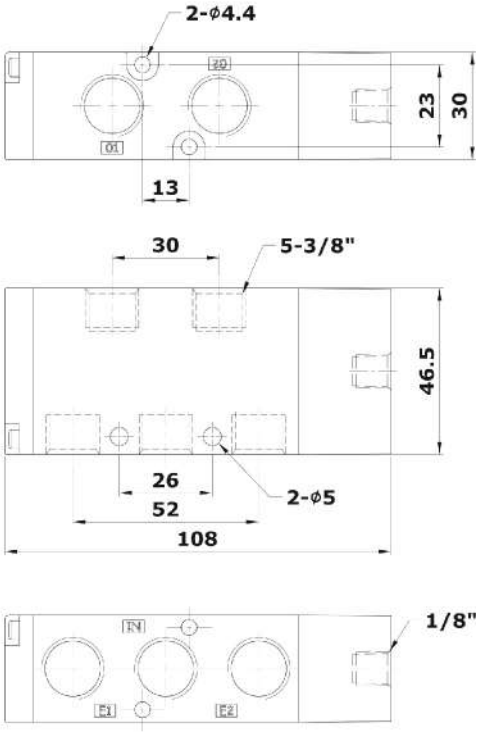
IN: Air intake
E1: Air intake (blocked)
E2: Exhaust place

When the right air intake:



IN: Air intake
E1: Exhaust place
E2: Air intake (blocked)

Other: Springs



Mechanical Valves

NH212

NH313

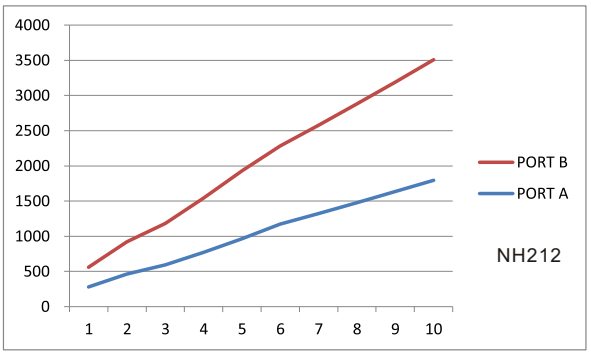
SPECIFICATION

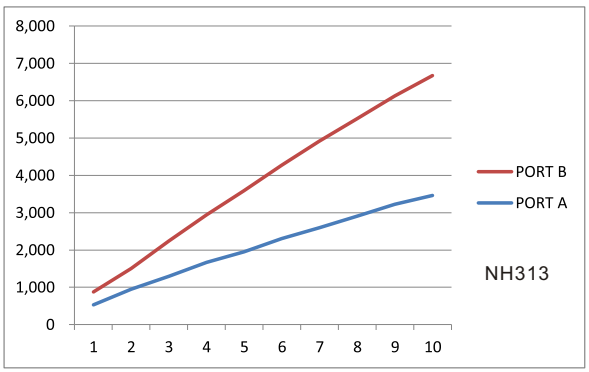
Part No.	NH212	NH313
Medium	Air	
Air Inlet	1/4”	3/8”
Thread	PT, NPT, G	
No.of port & position	5 Port 2 way	
Working Pressure	0~145 PSI / 0 ~10 Bar / 0~1.0MPa	
Ambient Temp	-10 ~ 60° (No freezing)	
Flow (L/min)	2100	2500

ORDER INFORMATION

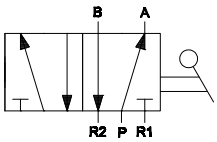
NH □ 1 □

- NH: Mechanical Valve
- □ (Body size): 2-1/4, 3-3/8
- □ (Port size): 2-1/4, 3-3/8

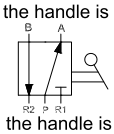




NH212 Drawing

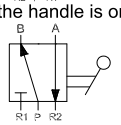


When the handle is on the left:

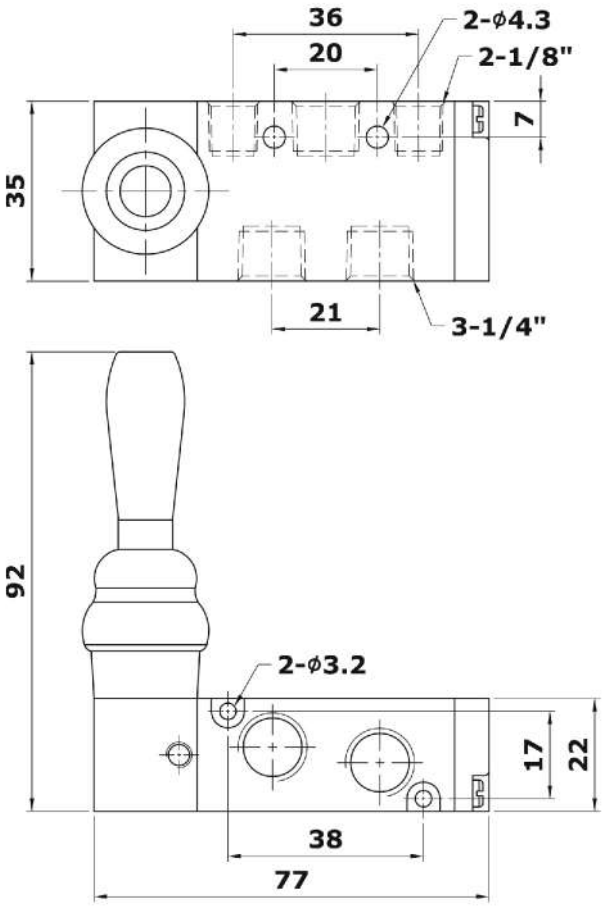


P: Air intake
R1: Air intake (blocked)
R2: Exhaust place

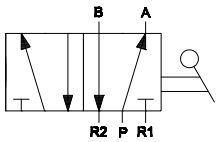
When the handle is on the right:



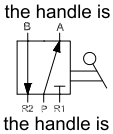
P: Air intake
R1: Exhaust place
R2: Air intake (blocked)



NH313 Drawing

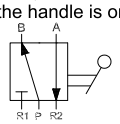


when the handle is on the left:

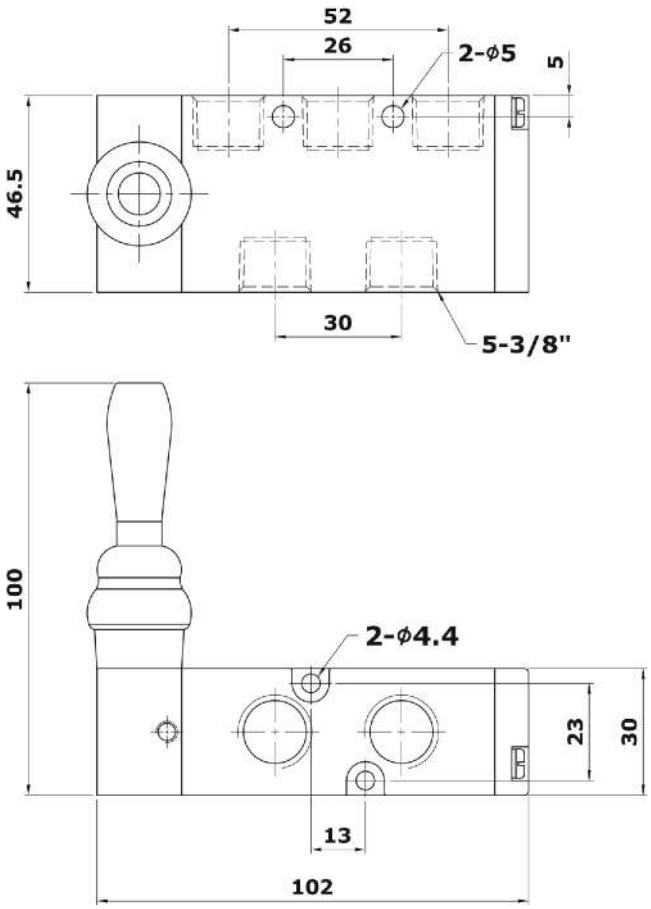


P: Air intake
R1: Air intake (blocked)
R2: Exhaust place

when the handle is on the right:



P: Air intake
R1: Exhaust place
R2: Air intake (blocked)



Hand Valve

NH222

NH222-32

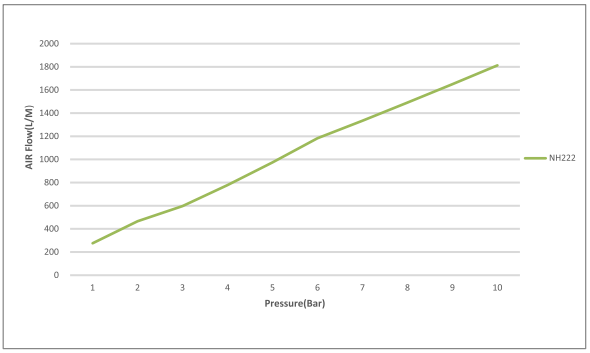
SPECIFICATION

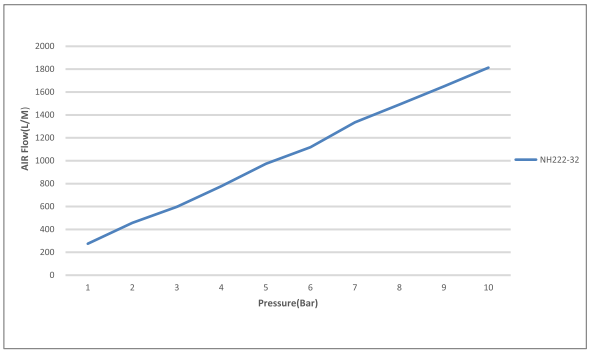
Part No.	NH222	NH222-32
Medium	Air	
Air Inlet	1/4”	
Thread	PT, NPT, G	
No.of port & position	5 Port 2 way	3 Port 2 way
Working Pressure	0~218 PSI / 0 ~15 Bar / 0~1.5MPa	
Ambient Temp	-10 ~ 60°C (No freezing)	
Flow (L/min)	400	

ORDER INFORMATION

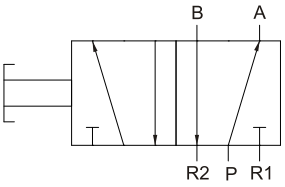
NH □ **2** □

- **Port size:** 2-1/4
- **Body size:** 2-1/4
- Hand Valve

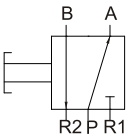




NH222 - 5 PORT 2 WAY

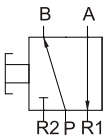


when the handle is pulled outwards:



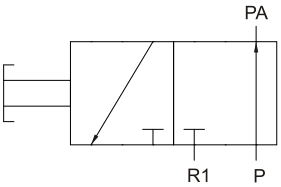
P: Air intake
R1: Air intake (blocked)
R2: Exhaust place

when the handle is pushed inward:

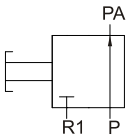


P: Air intake
R1: Exhaust place
R2: Air intake (blocked)

NH222-32 - 3 PORT 2 WAY

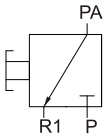


when the handle is pulled outwards:

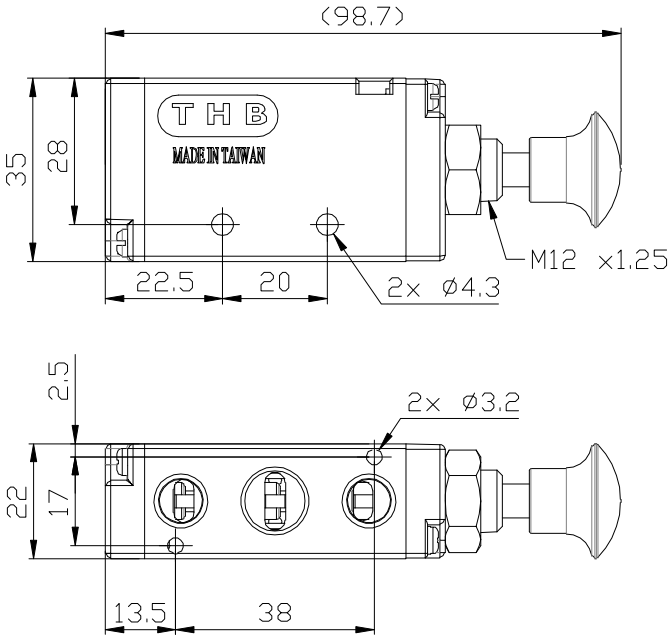


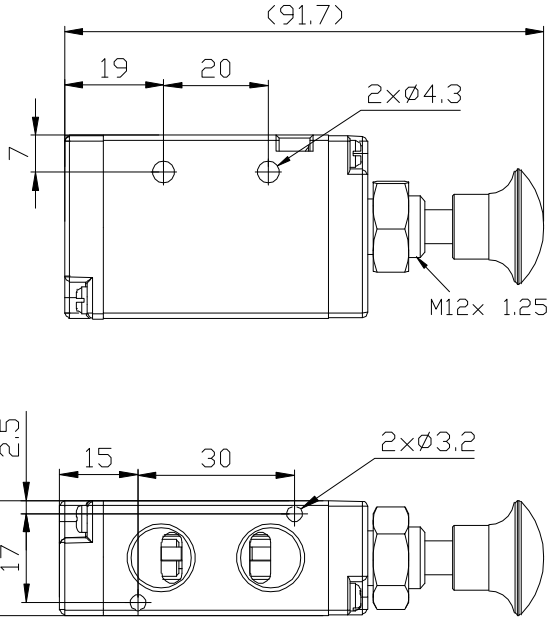
P: Air intake
R1: Air intake (blocked)

when the handle is pushed inward:



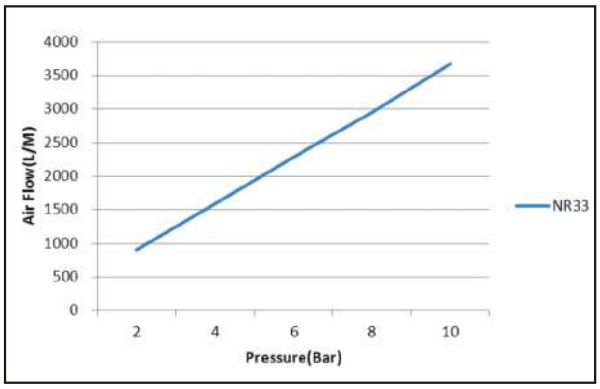
P: Air intake (blocked)
R1: Exhaust place





ROTARY VALVE

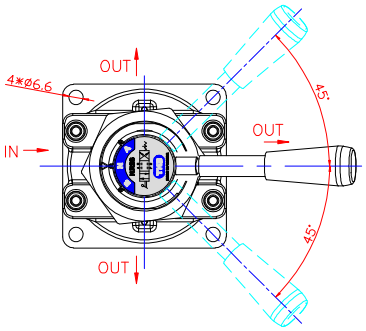
R.O.C. Patent NO.M576217



SPECIFICATION

Part No.	NR32	NR33
Medium	Air	
Air Inlet	1/4" 3/8" 1/2"PT,NPT,G	
Max Working Pressure	175PSI / 12Bar /1.2MPa	
Ambient Temp	5~80°C	
Flow(L/min)	2500 at 100PSI(7Bar/0.7MPa)	
Valve Type	4 Port 2Way	4 Port 3Way

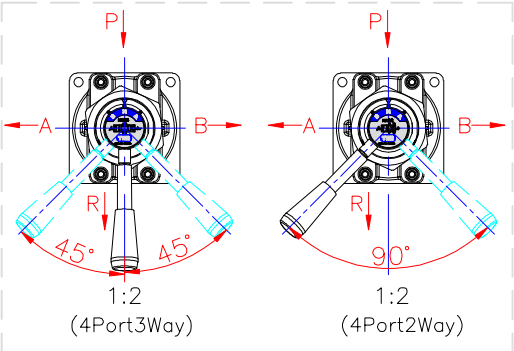
NR33-4PORT 3 WAY Drawing

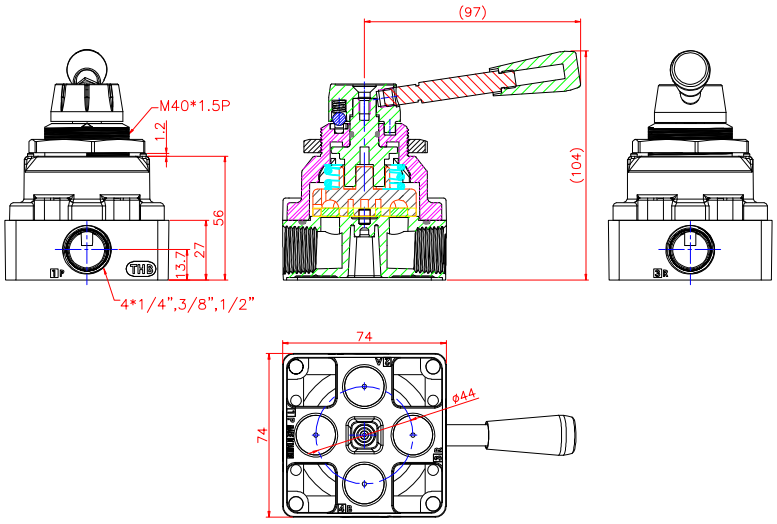


ORDER INFORMATION

NR 3 □

- **Port size:** 2-1/4, 3-3/8, 4-1/2
- **Body size:** 3/8
- **Rotary Valve:** 5Port





FOOT VALVE

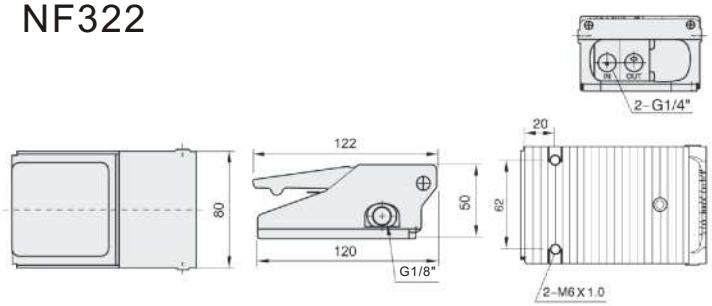
NF322

NF422

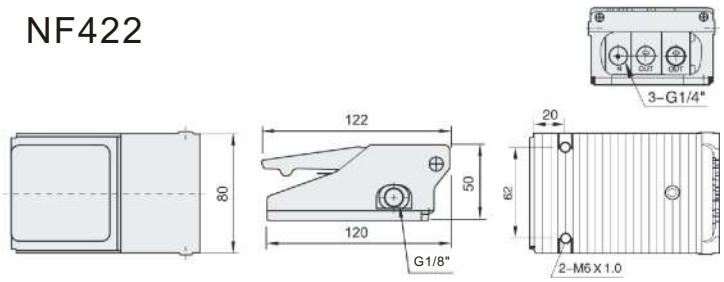
SPECIFICATION

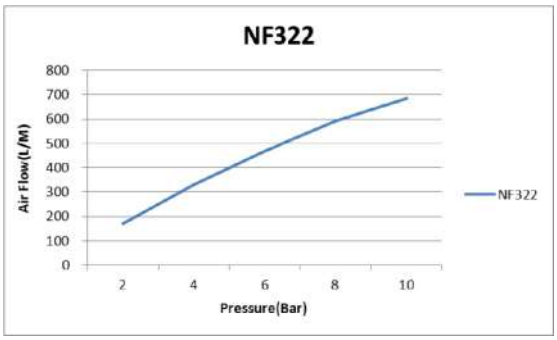
Part No.	NF322	NF422
Working Medium	Air	
Acting Type	External Control	
Lubrication	Not Required	
Working Pressure	0~116 PSI / 0~8 Bar / 0~0.8Mpa	
Max Pressure	174PSI(12Bar/1.2Mpa)	
Working Temperature	-5~60°C	
Air Inlet	1/4"	
Effective Orifice	8mm²	

NF322



NF422

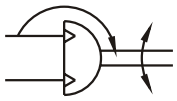




CRM Series Rotary Table

ROTARY TABLE/AIR GRIPPER

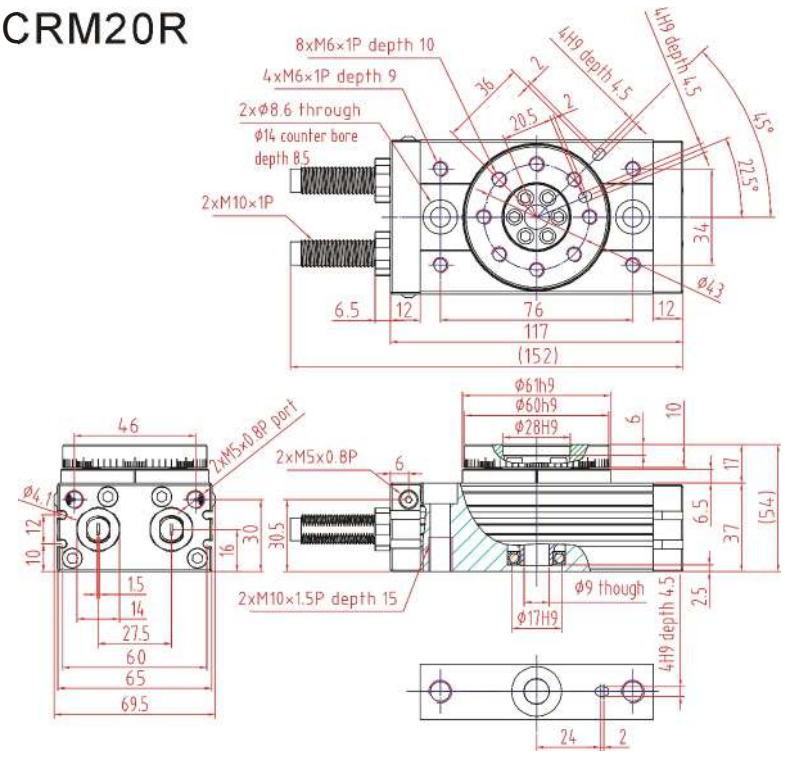
R.O.C. Patent NO.M514527



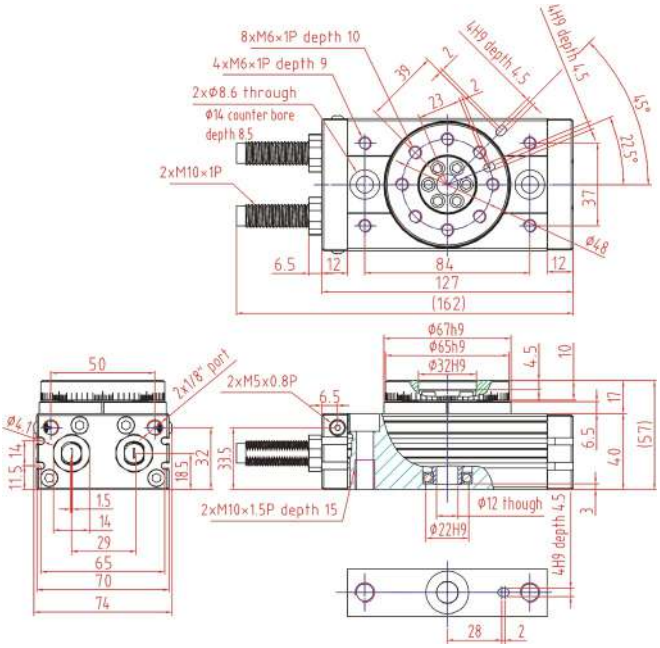
ROTARY TABLE/AIR GRIPPER

Model		CRM20R	CRM30R	CRM50R	CRM100R
Action		Double acting			
Cylinder bore size(mm)		Φ18	Φ21	Φ25	Φ32
Port size	End Ports	M5x0.8	1/8"		
	Side Ports	M5x0.8			
Fluid		Air			
Operating pressure		14.5 ~87PSI / 1~6Bar / 0.1~0.6Mpa			
Ambient and fluid temperature		0~+60°C (No Freezing)			
Angle Adjustment Range		0~190°(Max)			
Minimum rotation angle that will not allow decrease of energy absorption ability		45°	40°	60°	65°

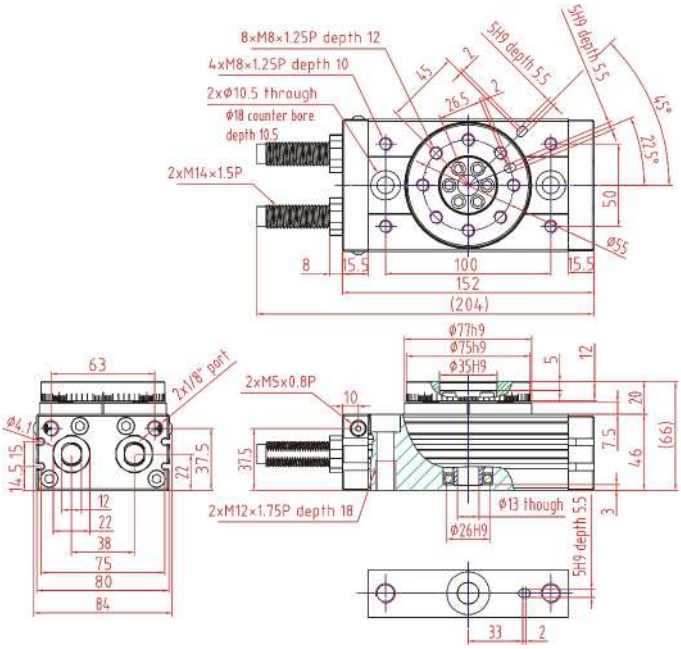
CRM20R



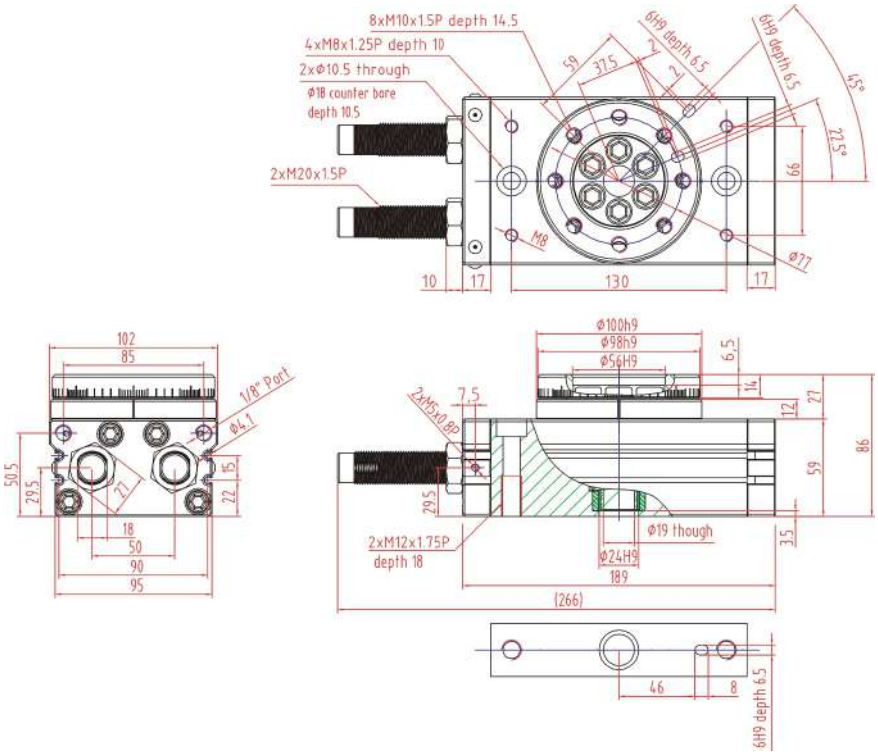
CRM30R



CRM50R



CRM100R

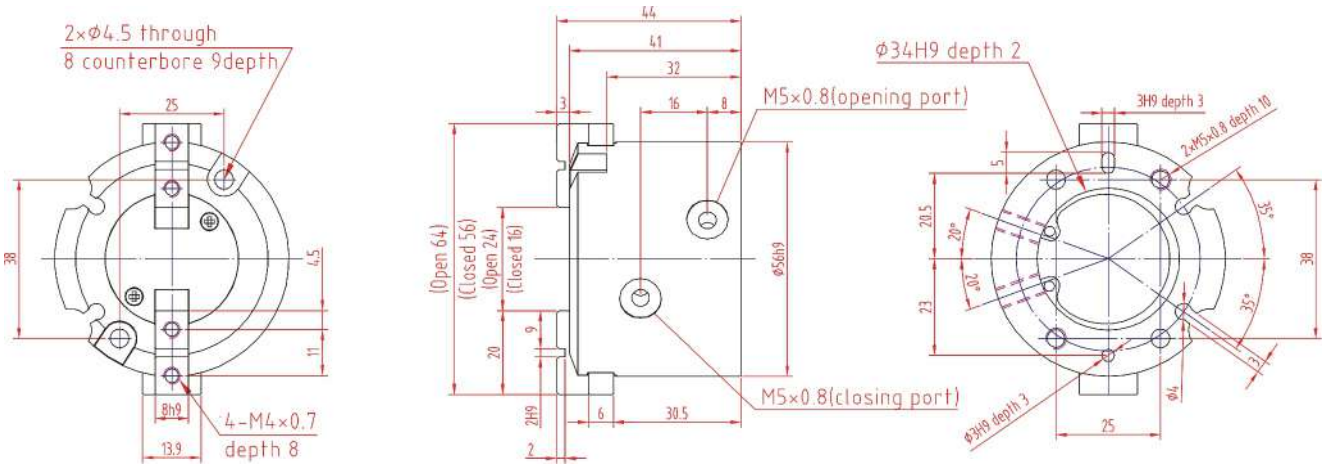


ROTARY TABLE/AIR GRIPPER

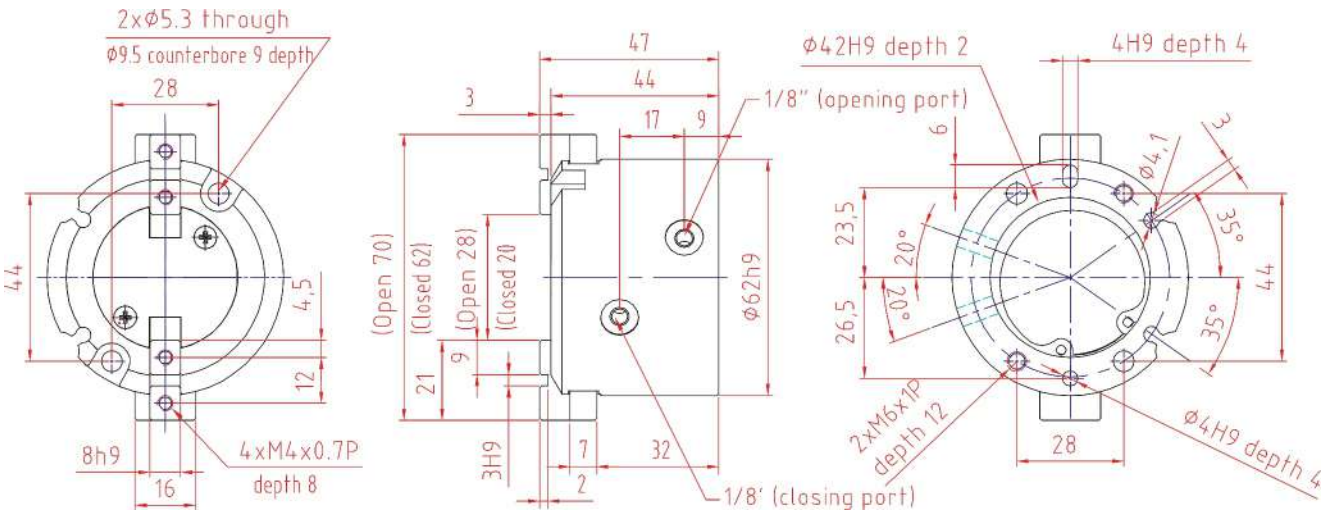
Parallel Style Air Gripper 2-Finger Type

Part NO.		GC322	GC402	GC502	GC632	GC802
Cylinder Bore Size (mm)		32	40	50	63	80
Air Inlet		M5x0.8				1/8"
Fluid		Air				
Operating Pressure (Bar)		1~6				
Ambient and Fluid Temperature(°C)		-10~+60				
Repeatability (mm)		±0.01				
Max. Operating Frequency(C.P.M.)		60				
Opening /Closing Stroke (Both Sides) (mm)		8	8	12	16	20
Action		Double Acting				
Effective Gripping Force(N) At 5Bar	External Grip	110	175	280	500	750
	Internal Grip	120	190	305	535	785

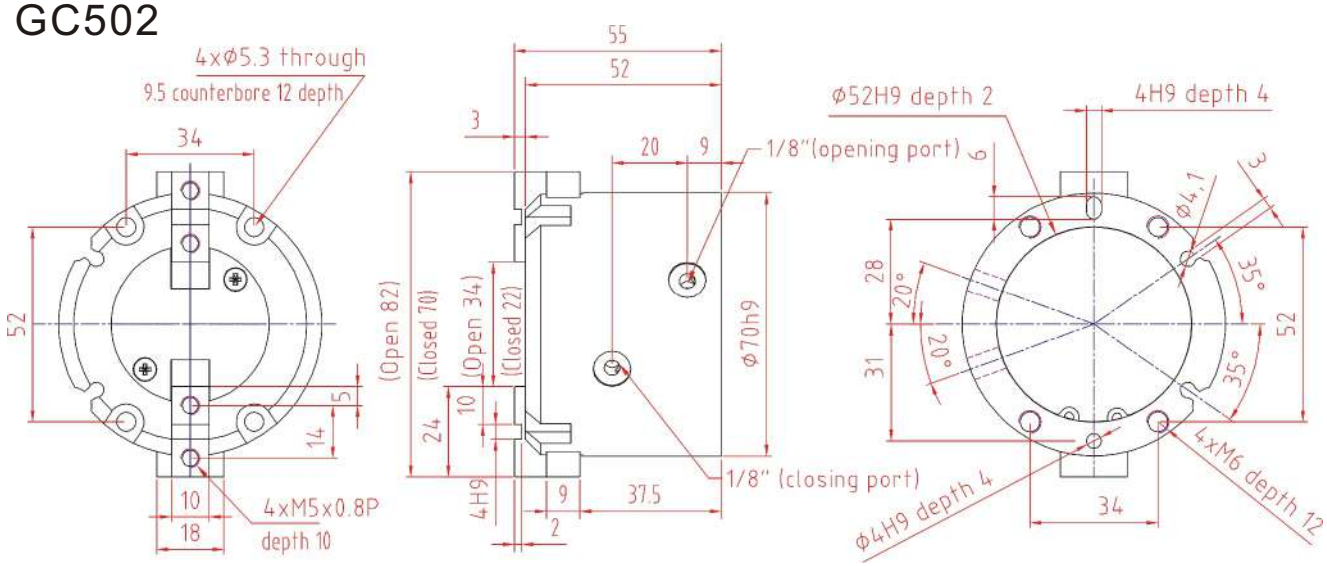
GC322



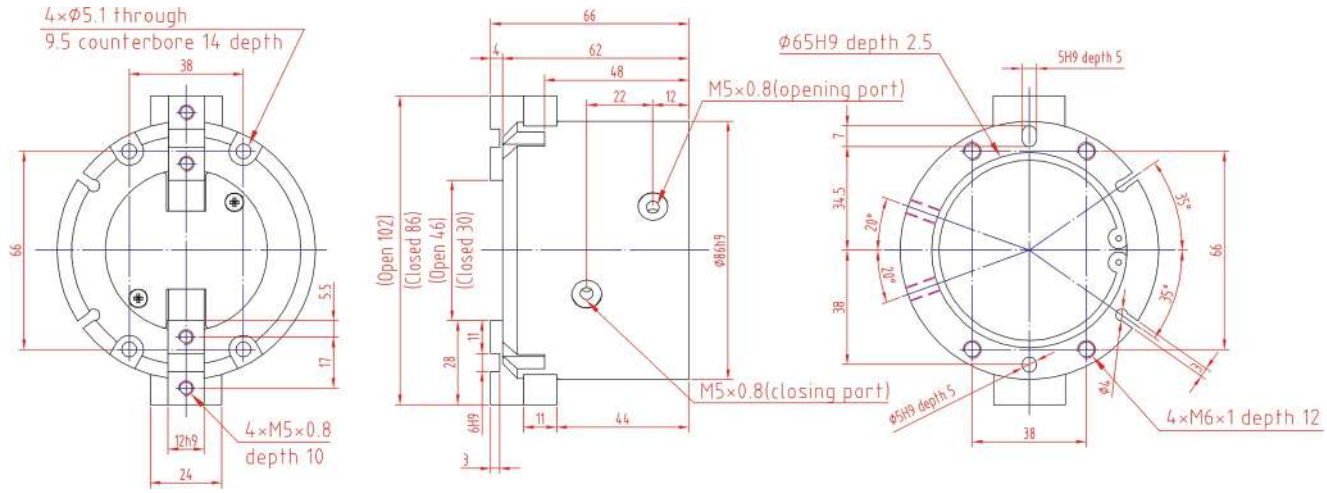
GC402



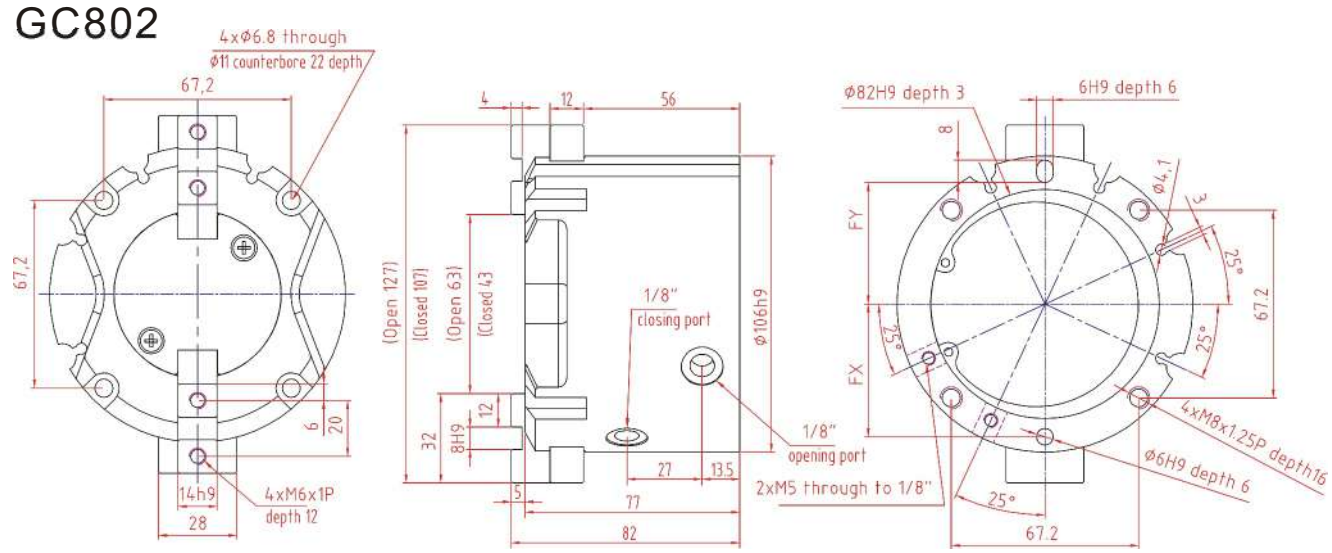
GC502



GC632



GC802

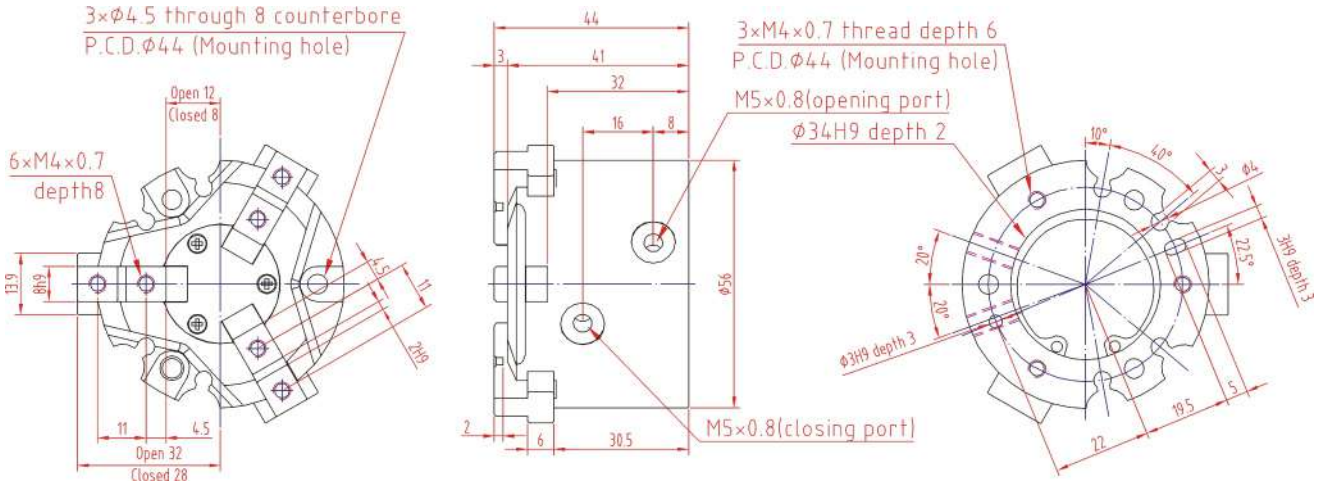


ROTARY TABLE/AIR GRIPPER

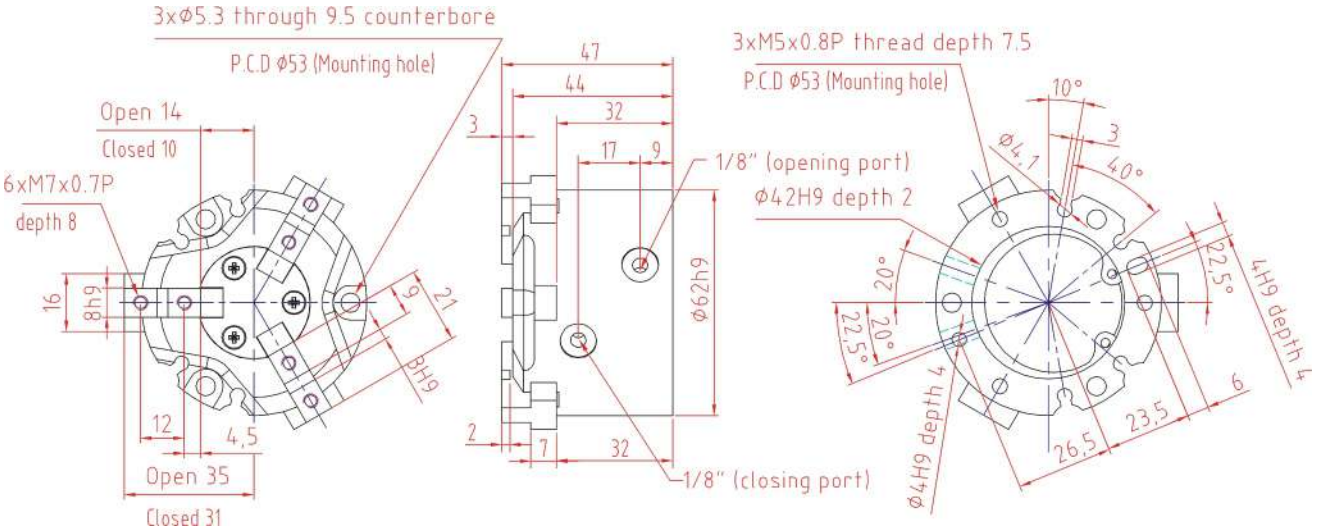
Parallel Style Air Gripper 3-Finger Type

Part NO.		GC323	GC403	GC503	GC633	GC803
Cylinder Bore Size (mm)		32	40	50	63	80
Air Inlet		M5x0.8				1/8"
Fluid		Air				
Operating Pressure (Bar)		1~6				
Ambient and Fluid Temperature(°C)		-10~+60				
Repeatability (mm)		±0.01				
Max. Operating Frequency(C.P.M.)		60				
Opening /Closing Stroke (Both Sides) (mm)		8	8	12	16	20
Action		Double Acting				
Effective Gripping Force(N) At 5Bar	External Grip	74	118	187	335	500
	Internal Grip	82	130	204	359	525

GC323



GC403



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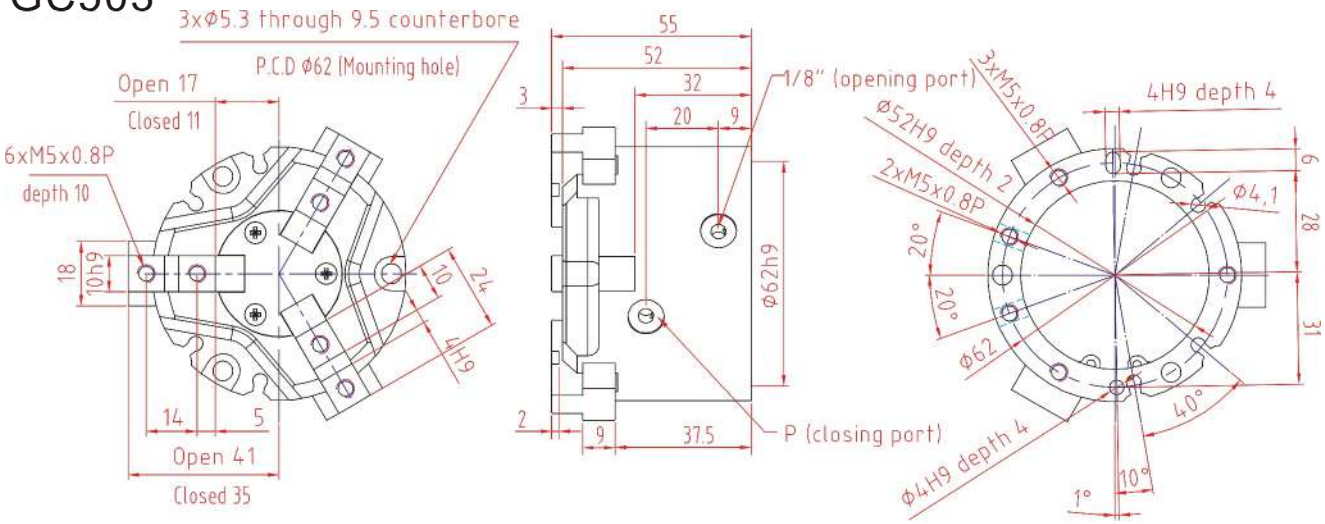

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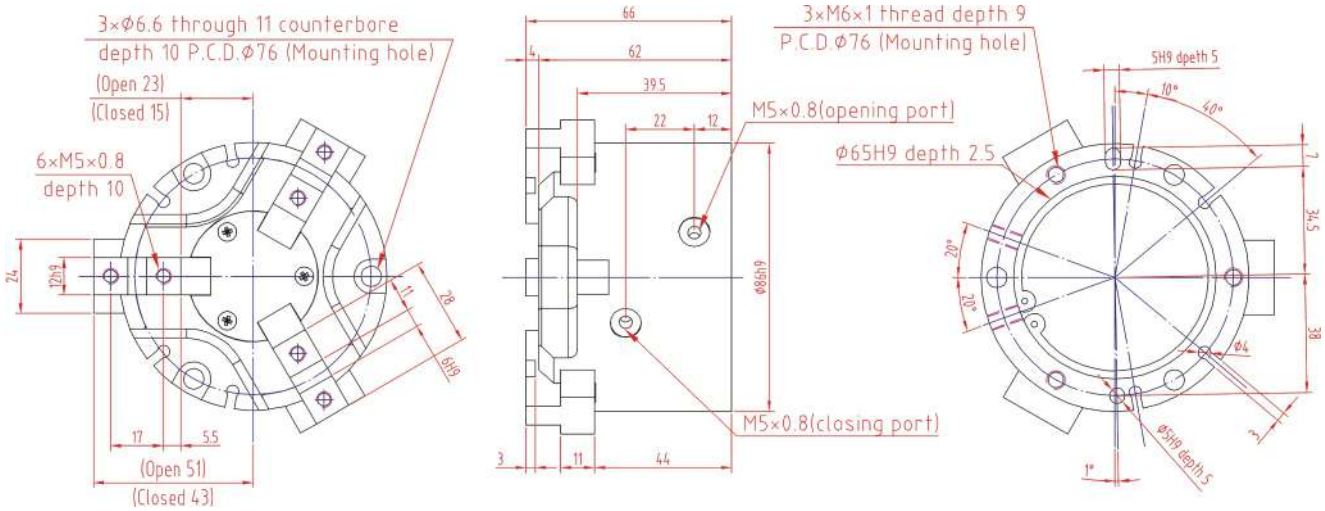
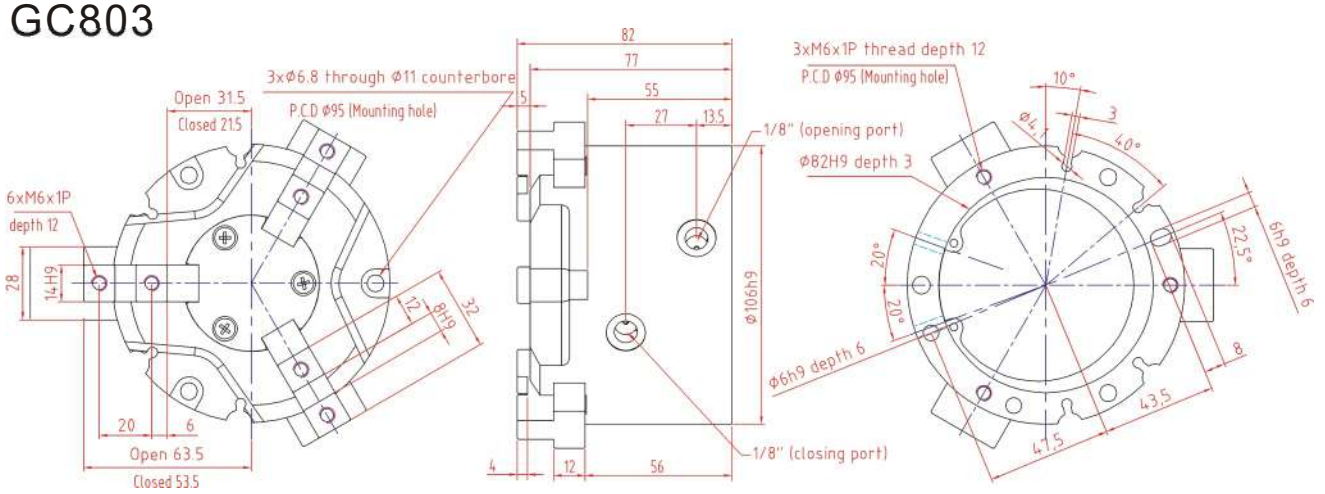


GC803

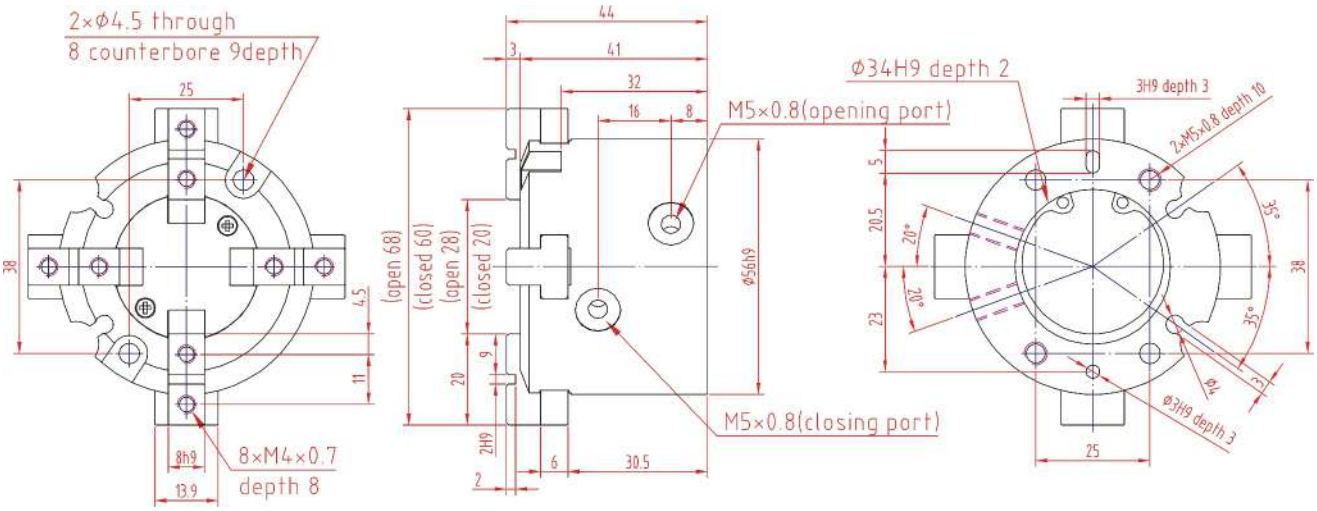


ROTARY TABLE/AIR GRIPPER

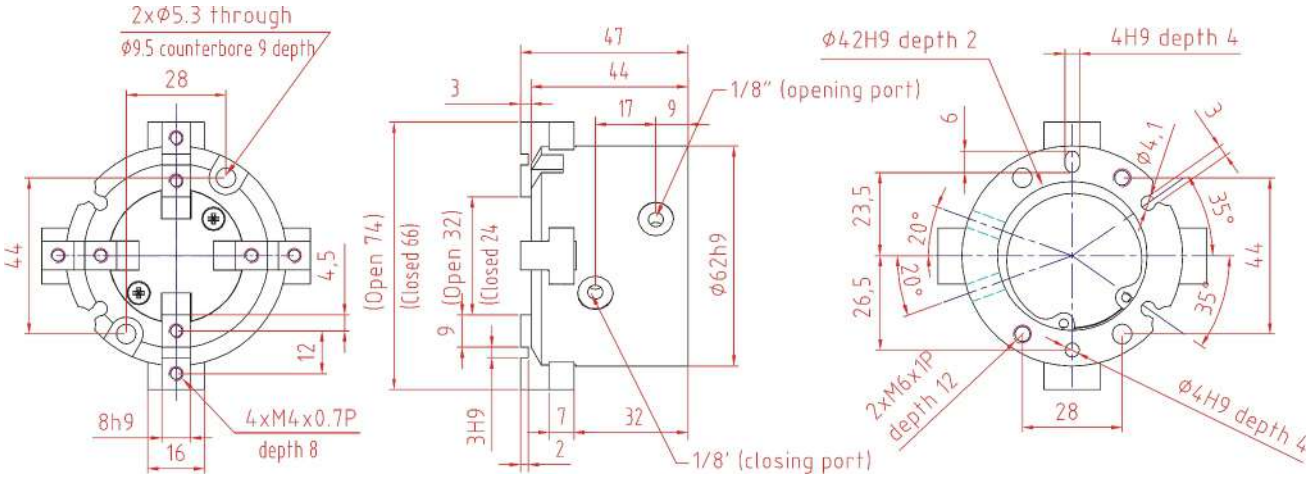
Parallel Style Air Gripper 4-Finger Type

Part NO.		GC324	GC404	GC504	GC634
Cylinder Bore Size (mm)		32	40	50	63
Air Inlet		M5x0.8			
Fluid		Air			
Operating Pressure (Bar)		1~6			
Ambient and Fluid Temperature(°C)		-10~+60			
Repeatability (mm)		±0.01			
Max. Operating Frequency(C.P.M.)		60			
Opening /Closing Stroke (Both Sides) (mm)		8	8	12	16
Action		Double Acting			
Effective Gripping Force(N) At 5Bar	External Grip	55	88	140	251
	Internal Grip	61	97	153	268

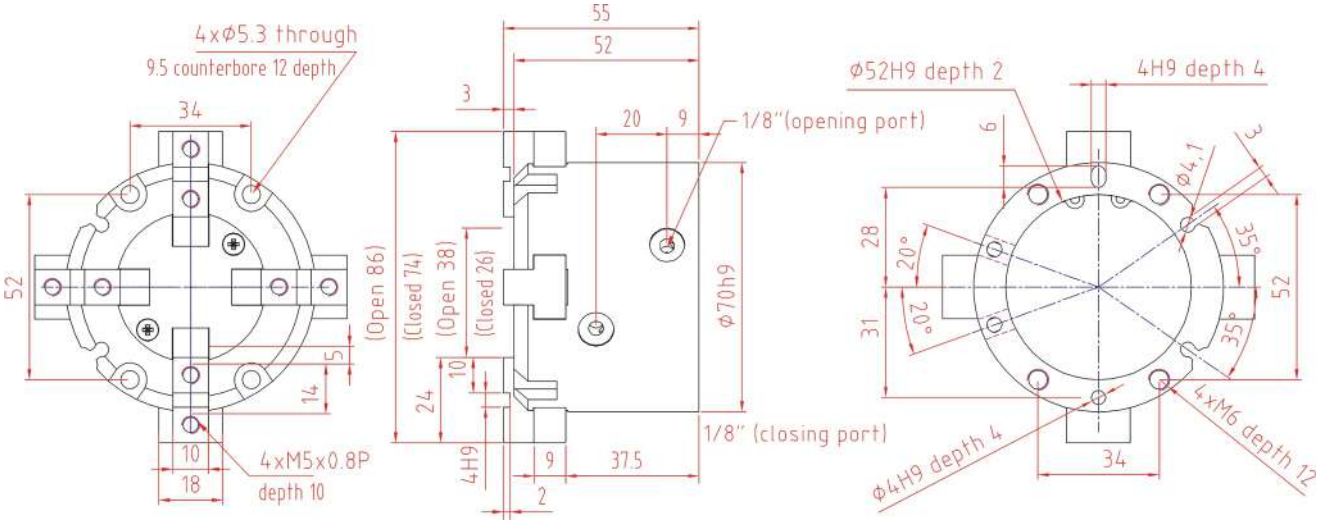
GC324



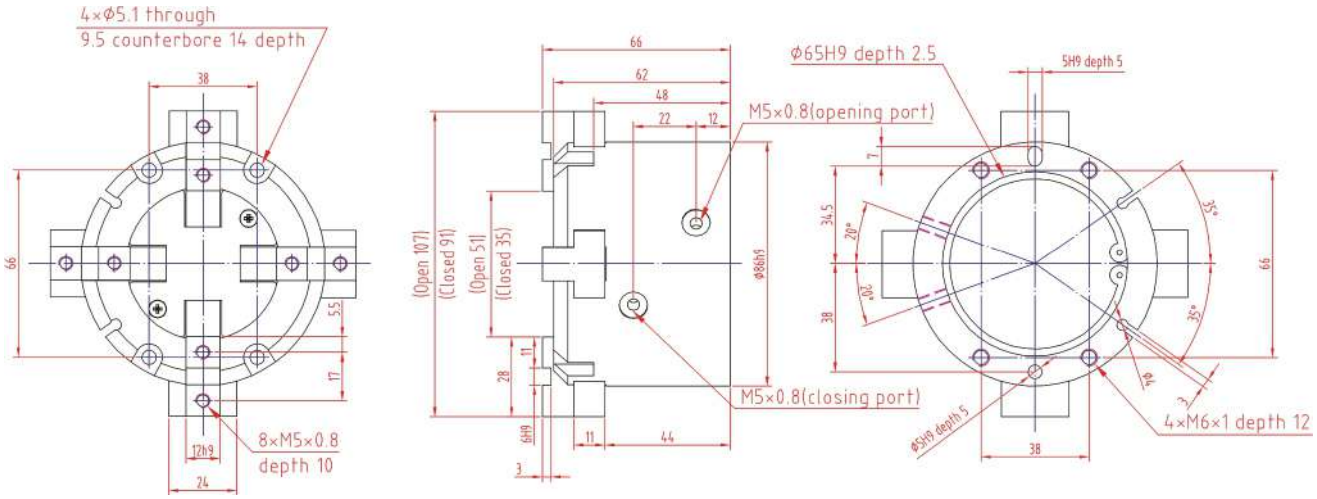
GC404



GC504

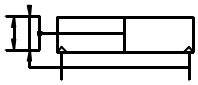


GC634

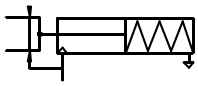


CYLINDER

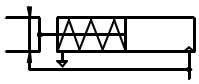
QSHZ:Standard double acting



QSHZSA:Single acting (N.O.)



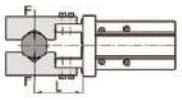
QSHZSB:Single acting (N.C.)



Series NO	Type	Bore	—	Stroke
QSHZ: Parallel type air gripper	Blank:Basic type SA:Single acting(N.O.) SB:Single acting(N.C.)	10 16 20 25		S:With magnet (Magnet is standard)

SPECIFICATION

Bore size(mm)			10	16	20	25
Acting type			Double Acting/Single acting			
Working medium			Clean Air(40um filtration)			
Applicable pressure range	Double acting	Φ10	21.7~101.5(PSI) / 1.5~7(Bar) / 0.15~0.7(MPa)			
		Φ16~ Φ25	15~100(PSI) / 1~7(Bar) / 0.1~0.7(MPa)			
	Single acting	Φ10	45~100(PSI) / 3~7(Bar) / 0.3~0.7(MPa)			
		Φ16~ Φ25	36~100(PSI) / 2.5~7(Bar) / 0.25~0.7(MPa)			
Working temperature			-20~80℃ / -4~176℉(No freezing)			
Oil			Not required			
Maximum frequency			180(C.P.M)			
Air Inlet			M3x0.5	M5x0.8		
Weight(g)			52	120	236	430



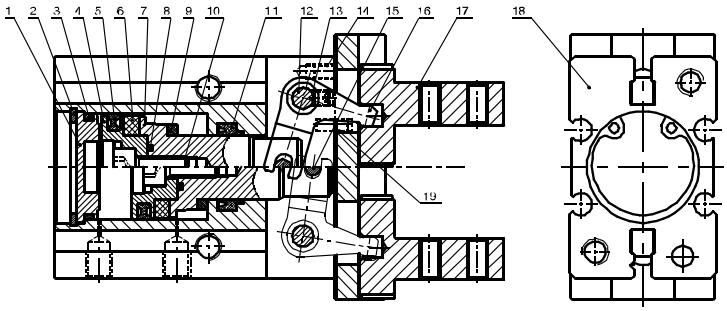
Pinch point length(mm)

◎ Clamping Force and Stroke

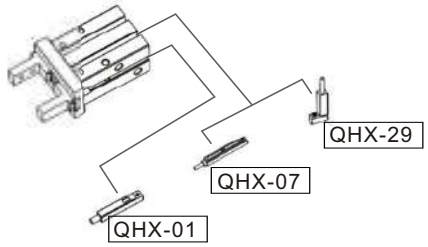
Acting type		Type	Clamping force effectuve value of single air finger(N)		Stroke(two sides)(L)(mm)
			Closure clamping torgue	Open clamping torgue	
Double Acting		QSHZ10	11	17	4
		QSHZ16	34	45	6
		QSHZ20	45	68	10
		QSHZ25	69	102	14
Single acting (N.O.)	(N.O.)	QSHZSA10	7	-	4
		QSHZSA16	27	-	6
		QSHZSA20	35	-	10
		QSHZSA25	55	-	14
	(N.C.)	QSHZSB10	-	13	4
		QSHZSB16	-	38	6
		QSHZSB20	-	59	10
		QSHZSB25	-	87	14

Note:The value of the clamping force in above table is when the working pressure is 0.5MPa and the L value of the clamping point is 20mm.

◎ Internal structure



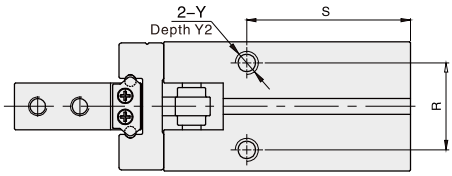
◎ Optional Accessories

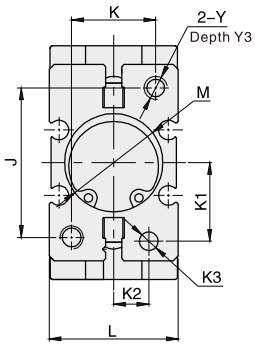


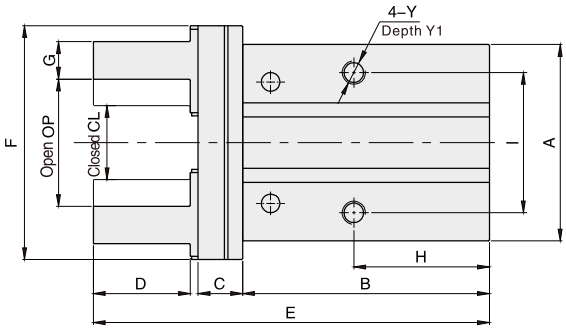
Note:Short stroke pleaseuse QHX-29 series due tolimited space.

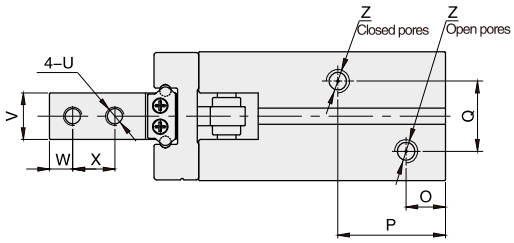
No.	Part Name	Material	No.	Part Name	Material
1	Rear cover	Aluminum alloy	11	Piston rod seal	TPU/NBR(Φ25)
2	C type retainerring	Spring steel	12	Pin	Stainless steel
3	O-ring	NBR	13	Hexagon set screw	Carbon steel
4	Piston	Aluminum alloy Stainless steel(ΦX10)	14	Hexagon socket cap screw	Carbon steel
5	Piston seal	NBR	15	Pin	Stainless steel
6	Magnet	Plastic	16	Bent lever	Alloy steel
7	Piston rod	Aluminum alloy Φ 、Φ	17	Clamping jaw assembly	Assembly
8	O-ring	NBR	18	Barrel	Aluminum alloy
9	Anti-bump cushion	PTEE	19	Pin	Stainless steel
10	Hexagon socket cap screw	Carbon Steel			

◎ Main Dimension







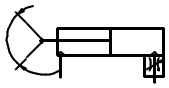


Bore\Sign	A	B	C	D	E	F	G	H	I	J	K	L	M	O	P	Q	K1	K2	K3
QSHZ10	23	37.6	6	12.3	57	29	$4^{0}_{-0.05}$	23	16	18	12	16.4	$11^{+0.05}_{0}$Dp2	7	18.8	10	7.6	5.2	$2^{+0.05}_{0}$Dp3
QSHZ16	30.6	42.5	7.5	15.5	67.3	38	$5^{0}_{-0.05}$	24.5	24	22	15	23.6	$17^{+0.05}_{0}$Dp2	7.1	18.5	13	11	6.5	$3^{+0.05}_{0}$Dp3
QSHZ20	42	52.8	9.5	20.7	84.7	50	$8^{0}_{-0.05}$	29	30	32	18	27.6	$21^{+0.05}_{0}$Dp3	8.4	23	15	16.8	7.5	$4^{+0.05}_{0}$Dp4
QSHZ25	52	63.6	11	25.5	102.7	63	$10^{0}_{-0.05}$	30	36	40	22	33.6	$26^{+0.05}_{0}$Dp3.5	9.5	23.5	19.5	21.8	10	$4^{+0.05}_{0}$Dp4

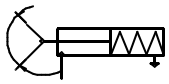
Bore\Sign	R	S	U	W	V	X	Y	Y1	Y2	Y3	Z	OP	CL
QSHZ10	11.4	27	M2.5X0.45	3	$5^{0}_{-0.05}$	5.7	M3X0.5	6	6	6	M3X0.5	14.8^{+2}_{0}	$11.4^{0}_{-0.7}$
QSHZ16	16	30	M3X0.5	4	$8^{0}_{-0.05}$	7	M4X0.7	9.5	5.5	8	M5X0.8	20.8^{+2}_{0}	$14.8^{0}_{-0.7}$
QSHZ20	18.6	35	M4X0.7	5	$10^{0}_{-0.05}$	9	M5X0.8	11.5	8	10	M5X0.8	26^{+2}_{0}	$16.2^{0}_{-0.7}$
QSHZ25	22	36.5	M5X0.8	6	$12^{0}_{-0.05}$	12	M6X1.0	14.5	10	12	M5X0.8	33.5^{+2}_{0}	$19.2^{0}_{-0.7}$

Stainless steel(10 16)

QSHY:Standard double acting



QSHYSA:Single acting (N.O.)

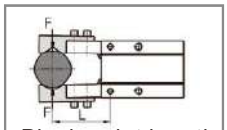


Series NO	Type	Bore	—	Stroke
QSHY: Y type air gripper	Blank:Basic type SA:Single acting(N.O.)	10 16 20 25		S:With magnet (Magnet is standard)

SPECIFICATION

Bore(mm)			10	16	20	25
Acting type			Double Acting/Single acting			
Working medium			Clean Air(40um filtration)			
Working pressure	Double Acting	Φ10	21.7~101.5(PSI) / 1.5~7(Bar) / 0.15~0.7(MPa)			
		Φ16~Φ25	15~100(PSI) / 1~7(Bar) / 0.1~0.7(MPa)			
	Single acting	Φ10	45~100(PSI) / 3~7(Bar) / 0.3~0.7(MPa)			
		Φ16~Φ25	36~100(PSI) / 2.5~7(Bar) / 0.25~0.7(MPa)			
Working temperature			-20~80℃ / -4~176℉(No freezing)			
Oil			Not required			
Maximun frequency			180(C.P.M)			
Air Inlet			M3x0.5	M5x0.8		
Weight(g)			42	94	174	303

Clamping Force and Stroke



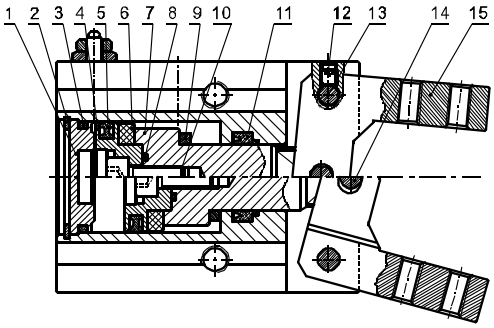
Pinch point length (mm)

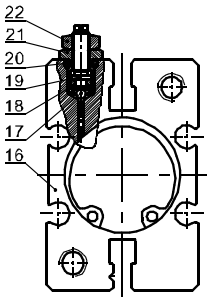
Acting type	Type	Clamping force effectuve value of single air finger(N)		Stroke (two sides) (L)(mm)	Open angle	Closure angle
		Closure clamping torgue	Open clamping torgue			
Double Acting	QSHY10	17.8XP	29.4XP	4	30 (+3 /0)	-10(0 / -3)
	QSHY16	90XP	129XP	6		
	QSHY20	152XP	252XP	10		
	QSHY25	304XP	473XP	14		
Single acting (N.O.)	QSHYSA10	11.8XP	-	4		
	QSHYSA16	71.2XP	-	6		
	QSHYSA20	122.4XP	-	10		
	QSHYSA25	252XP	-	14		

Note: In the above table，"P"

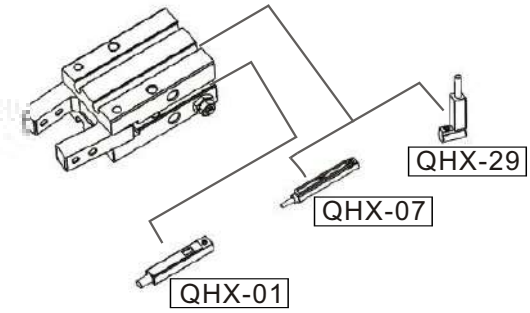
Y TYPE AIR GRIPPER

◎ Internal structure





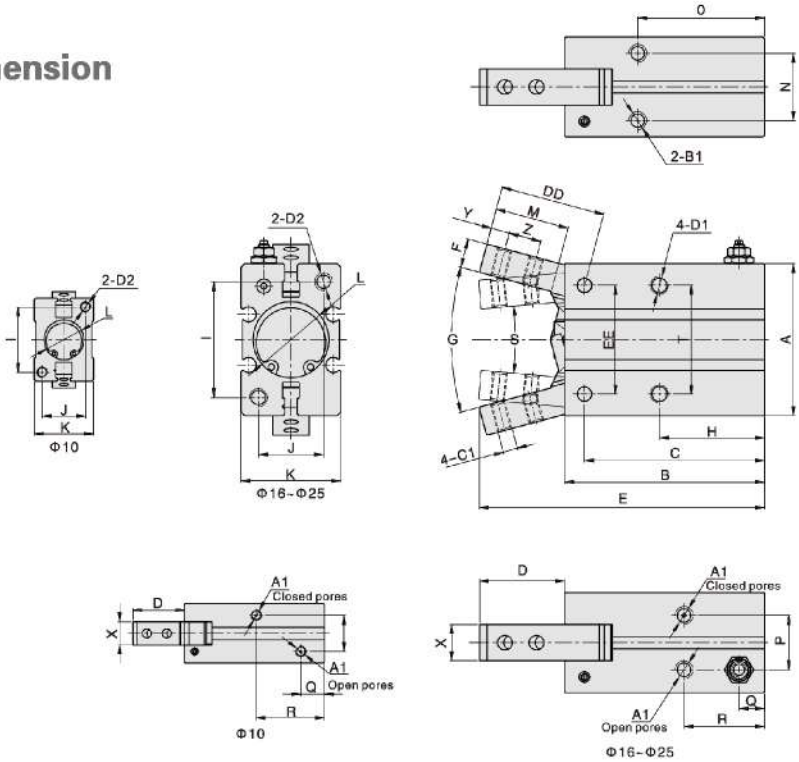
◎ Optional Accessories



Note:Short stroke please use QHX-29 series due to limited space.

No.	Part Name	Material	No.	Part Name	Material
1	Rear cover	Aluminum alloy	12	Hexagon socket cap screw	Carbon steel
2	C type retainer ring	Spring steel	13	Pin	Stainless steel
3	O-ring	NBR	14	Pin	Stainless steel
4	Piston	Aluminum alloy Stainless steel(Φ10)	15	Claw	Carbon steel
5	Piston seal	NBR	16	Barrel	Aluminum alloy
6	Magnet	Plastic	17	Steel ball	Stainless steel
7	Piston rod	Aluminum alloy Stainless steel(Φ10、Φ16)	18	O-ring	NBR
8	O-ring	NBR	19	Buffer screw	Brass
9	Anti-bump cushion	PTFE	20	O-ring	NBR
10	Hexagon socket cap screw	Carbon Steel	21	Buffer fixing screw	Brass
11	Piston rod seal	TPU/NBR(Φ25)	22	Hexagon nut	Carbon steel

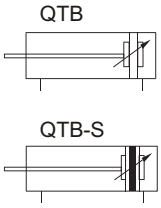
◎ Main Dimension



Bore\Sign	A	A1	B	B1	C	C1	D	DD	D1	D2	E	EE
QSHY10	23	M3X0.5	38.6	M3X0.5Dp6	35.8	M2.5X0.45	14.2	17.2	M3X0.5 Dp 6	M3X0.5 Dp6	52.8	14
QSHY16	30.6	M5X0.8	44.6	M4X0.7Dp5.5	39.7	M3X0.5	18.9	23.6	M4X0.7 Dp 9.5	M4X0.7 Dp8	63.5	24
QSHY20	42	M5X0.8	55.2	M5X0.8Dp8	49.7	M4X0.7	23.5	29	M5X0.8 Dp 11.5	M5X0.8 Dp10	78.7	30
QSHY25	52	M5X0.8	60.4	M6X1.0Dp10	54.8	M5X0.8	32.8	38.5	M6X1.0 Dp 14.5	M6X1.0 Dp12	93.2	36

Bore\Sign	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	X	Y	Z
QSHY10	4	30°	23	18	12	16.4	Φ11Dp1.5	12.5	11.4	27	10	6.5	18.8	10°	16	7.4	3	5.7
QSHY16	7	30°	24.5	22	15	23.6	Φ17Dp1.5	16.5	16	30	13	6.5	18.3	10°	24	10	4	7
QSHY20	8	30°	29	32	18	27.6	Φ21Dp1.5	20.5	18.6	35	15	7	22.2	10°	30	12	5.2	9
QSHY25	10	30°	30	40	22	33.6	Φ26Dp1.5	27.5	22	36.5	19.5	7.4	23.5	10°	36	12	8	12

QTB



Series No. | Type No. | Bore | X | Stroke | – | Adjustable stroke | – | Magnet No. | – | Seal material | – | Mounting type | – | Thread type

- Series No.: QTB
- Type No.: Blank: basic type; D: Double shaft type; J: Double shaft and adjustable type; T:Multi–position type
- Bore: 32, 40, 50, 63, 80, 100, …
- Stroke: 25, 50, 75, …
- Adjustable stroke: 10, 20, 30, 40, 50, 75, 100
- Magnet No.: Blank: without magnet; S: with magnet
- Seal material: Blank: standard material (NBR seal); V: VITON seal
- Mounting type: Blank: No; CA, CB, CR, LB, FA, FB, IJ, YJ, YCJ, BJ
- Thread type: Blank: G; P: PT; T: NPT

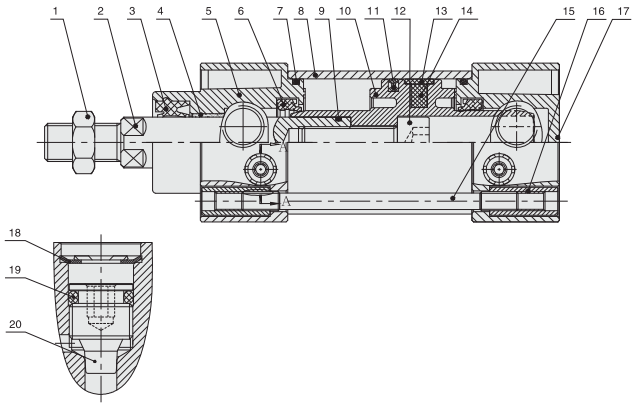
SPECIFICATION

Bore Size (mm)		32	40	50	63	80	100
Acting type		Double Acting					
Working medium		Clean Air(40 μ m filteration)					
Working pressure	PSI	14.5~145					
	Bar	1~10					
	Mpa	0.1~1.0					
Guaranteed pressure		215PSI / 15Bar/ 1.5Mpa					
Working temperature		– 20~80℃ / – 5~176℉(No freezing)					
Speed range (mm/s)		50~800					
Cushion type		Adjustable Cushion					
Cushion stroke (mm)		25		24		30	
Mounting type		LB FA FB CA CB CR TC TCM					
Air Inlet❶		G1/8	G1/4				G1/2

❶ NPT、PT port size is optional.

Bore (mm)	Standard stroke (mm)	Max. stroke (mm)
32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	1900
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	1900
50~250	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1900

◎ Internal structure



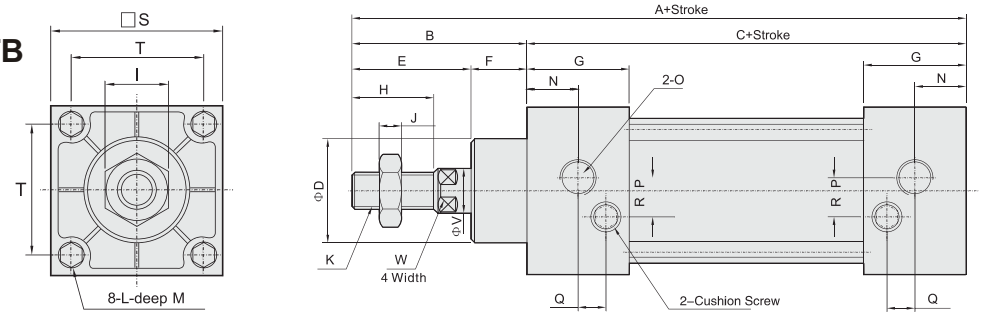
A–A section view

NO.	Part name	Material
1	Nut	Carbon steel
2	Piston rod	S45C hard chrome carbon steel
3	Piston rod seal	TPU
4	Self lubricating bearing	Bronze powder
5	Head cover	Aluminum alloy
6	Cushion seal	NBR
7	O–ring	NBR
8	Barrel	Aluminum alloy
9	O–ring	NBR
10	Piston	Aluminum alloy
11	Piston seal	NBR
12	Screw	Carbon steel
13	Wear ring	PTFE
14	Magnet	Plastic
15	Tie rod	Carbon steel
16	Tie rod nut	Carbon steel
17	Rear cover	Aluminum alloy
18	Retainer ring	Spring steel
19	O–ring	NBR
20	Nut	Brass

QTB Series Standard Cylinder

◎Main Dimensions

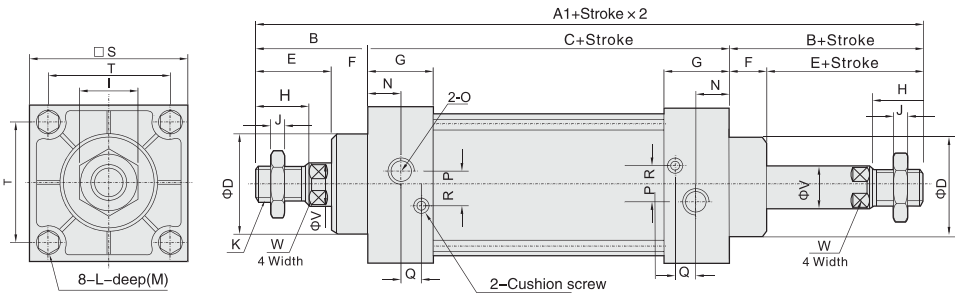
QTB



Bore/Sign	A	B	C	D	E	F	G	H	I	J	K	L
32	140	47	93	26	32	15	27.5	22	17	6	M10×1.25	M6×1
40	142	49	93	32	34	15	27.5	24	17	7	M12×1.25	M6×1
50	150	57	93	38	42	15	27.5	32	23	8	M16×1.5	M6×1
63	153	57	96	38	42	15	27.5	32	23	8	M16×1.5	M8×1.25
80	182	75	107	46	54	21	33	40	26	10	M20×1.5	M10×1.5
100	188	75	113	46	54	21	33	40	26	10	M20×1.5	M10×1.5

Bore/Sign	M	N	O	P	Q	R	S	T	V	W
32	13	14	1/8"	3.5	7	6.5	45	33	12	10
40	13	13.5	1/4"	5	5.5	8.5	50	37	16	14
50	13	14.5	1/4"	8.5	3	11	62	47	20	17
63	13	15	3/8"	7	5	9.5	75	56	20	17
80	15.5	16.5	3/8"	7	8	10	94	70	25	22
100	15.5	16.5	1/2"	7.5	8	13	112	84	25	22

QTB Φ32–Φ100

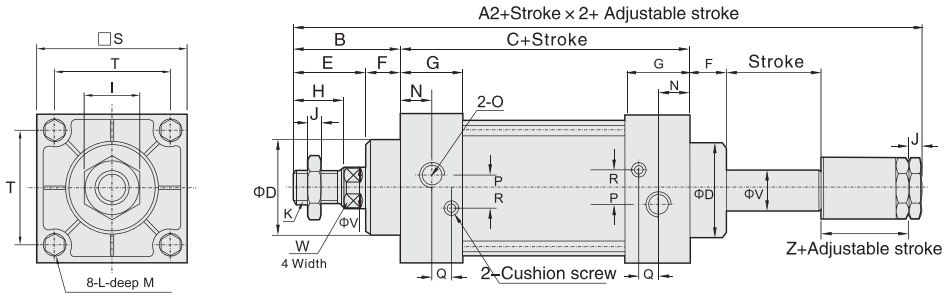


Bore/Sign	A1	B	C	D	E	F	G	H	I	J	K	L
32	187	47	93	26	32	15	27.5	22	17	6	M10×1.25	M6×1
40	191	49	93	32	34	15	27.5	24	17	7	M12×1.25	M6×1
50	207	57	93	38	42	15	27.5	32	23	8	M16×1.5	M6×1
63	210	57	96	38	42	15	27.5	32	23	8	M16×1.5	M8×1.25
80	257	75	107	46	54	21	33	40	26	10	M20×1.5	M10×1.5
100	263	75	113	46	54	21	33	40	26	10	M20×1.5	M10×1.5

Bore/Sign	M	N	O	P	Q	R	S	T	V	W
32	13	14	1/8"	3.5	7	6.5	45	33	12	10
40	13	13.5	1/4"	5	5.5	8.5	50	37	16	14
50	13	14.5	1/4"	8.5	3	11	62	47	20	17
63	13	15	3/8"	7	5	9.5	75	56	20	17
80	15.5	16.5	3/8"	7	8	10	94	70	25	22
100	15.5	16.5	1/2"	7.5	8	13	112	84	25	22

Note: 1. With magnet and without magnet, the dimensions are same.

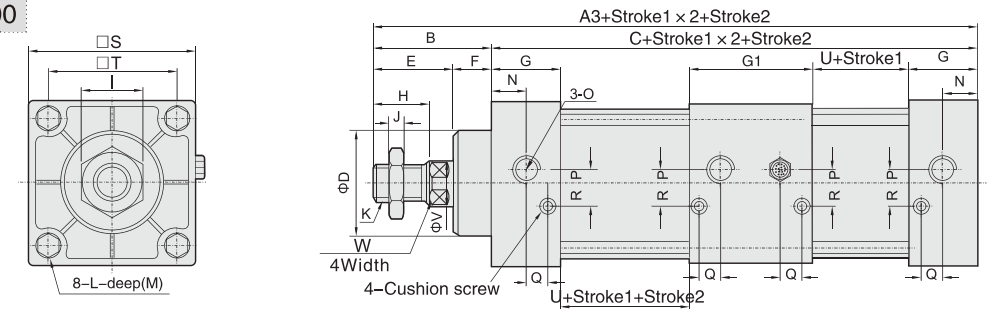
QTBJ Φ32−Φ100



Bore/Sign	A2	B	C	D	E	F	G	H	I	J	K	L
32	182	47	93	26	32	15	27.5	22	17	6	M10 × 1.25	M6 × 1
40	185	49	93	32	34	15	27.5	24	17	7	M12 × 1.25	M6 × 1
50	196	57	93	38	42	15	27.5	32	23	8	M16 × 1.5	M6 × 1
63	199	57	96	38	42	15	27.5	32	23	8	M16 × 1.5	M8 × 1.25
80	242	75	107	46	54	21	33	40	26	10	M20 × 1.5	M10 × 1.5
100	248	75	113	46	54	21	33	40	26	10	M20 × 1.5	M10 × 1.5

Bore/Sign	M	N	O	P	Q	R	S	T	V	W	Z
32	13	14	1/8"	3.5	7	6.5	45	33	12	10	21
40	13	13.5	1/4"	5	5.5	8.5	50	37	16	14	21
50	13	14.5	1/4"	8.5	3	11	62	47	20	17	23
63	13	15	3/8"	7	5	9.5	75	56	20	17	23
80	15.5	16.5	3/8"	10	8	10	94	70	25	22	29
100	15.5	16.5	1/2"	7.5	8	13	112	84	25	22	29

QTBT Φ32−Φ100

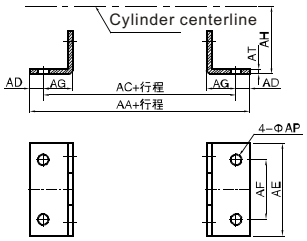


Bore/Sign	A3	B	C	D	E	F	G	G1	H	I	J	K	L
32	233	47	186	26	32	15	27.5	55	22	17	6	M10 × 1.25	M6 × 1
40	235	49	186	32	34	15	27.5	55	24	17	7	M12 × 1.25	M6 × 1
50	196	57	186	38	42	15	27.5	55	32	23	8	M16 × 1.5	M6 × 1
63	199	57	192	38	42	15	27.5	55	32	23	8	M16 × 1.5	M8 × 1.25
80	242	75	221	46	54	21	33	73	40	26	10	M20 × 1.5	M10 × 1.5
100	248	75	233	46	54	21	33	73	40	26	10	M20 × 1.5	M10 × 1.5

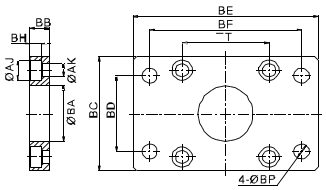
Bore/Sign	M	N	O	P	Q	R	S	T	V	U	W
32	13	14	1/8"	3.5	7	6.5	45	33	12	38	10
40	13	13.5	1/4"	5	5.5	8.5	50	37	16	38	14
50	13	14.5	1/4"	8.5	3	11	62	47	20	38	17
63	13	15	3/8"	7	5	9.5	75	56	20	41	17
80	15.5	16.5	3/8"	10	8	10	94	70	25	41	22
100	15.5	16.5	1/2"	7.5	8	13	112	84	25	47	22

Note: 1. With magnet and without magnet, the dimensions are same.

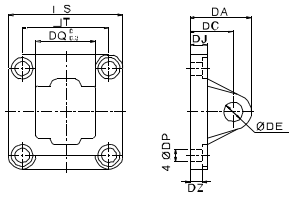
Model/Sign	AA	AC	AD	AE	AF	AG	AH	AP	AT
QTB32LB	153	132	10.5	50	33	19.5	28	9	3
QTB40LB	169	140	14.5	57	36	23.5	30	12	3
QTB50LB	173	149	11.5	68	47	28.5	36.5	12	3
QTB63LB	184	158	13	80	56	32	41	12	3
QTB80LB	199	167	16	97	70	29	49	14	4
QTB100LB	209	173	18	112.5	84	30	57	14	4



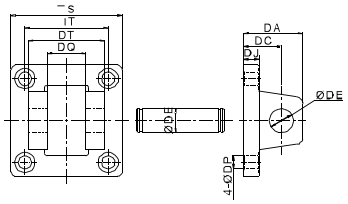
Model/Sign	AJ	AK	BA	BB	BC	BD	BE	BF	BH	BP	T
QTB32FA	11	7	28.5	10	47	33	72	58	6.5	7	33
QTB40FA	11	7	32.5	10	52	36	84	70	6.5	7	37
QTB50FA	11	7	38.5	10	65	47	104	86	6.5	9	47
QTB63FA	14	9	38.5	12	73	56	115	98	8.5	9	56
QTB80FA	17	11	47.5	16	92	70	141	119	10.5	11	70
QTB100FA	17	11	47.5	16	113	84	160	138	10.5	11	84



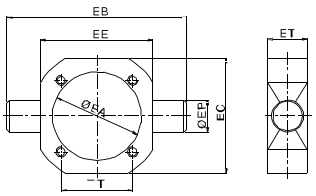
Model/Sign	DA	DC	DE	DJ	DP	DQ	DZ	S	T
QTB32CA	48	34	12	10	7	16	5.5	44	33
QTB40CA	48.5	34	14	10.5	7	20	5.5	49.5	37
QTB50CA	48.5	33	14	10.5	7	20	6.5	62	47
QTB63CA	50	34	14	10.5	9	20	6.5	72	56
QTB80CA	66.5	48	20	13	11	32	10	92	70
QTB100CA	65.5	48.5	20	13	11	32	10	110	84



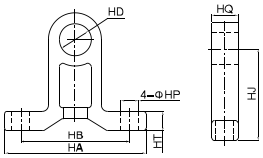
Model/Sign	DA	DC	DE	DJ	DP	DQ	DT	S	T
QTB32CB	32.5	19.5	12	10	7	16.5	32.5	47	33
QTB40CB	32.5	19.5	14	10.5	7	20.5	44	50	37
QTB50CB	34	19	14	10.5	7	20.5	52	62	47
QTB63CB	34	22	14	10	9	20.5	52	72	56
QTB80CB	50	32	20	13	11	32.5	64	93	70
QTB100CB	51	32	20	13.5	11	32.5	64	110	84



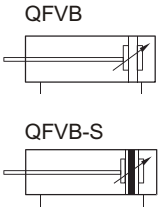
Model/Sign	EA	EB	EC	EE	EP	ET	T
QTB32TC	38	89	54	55	16	31	33
QTB40TC	46	116	65	63	25	30.5	37
QTB50TC	56	127	76	75	25	29	47
QTB63TC	69.5	140.5	90	88	25	31	56
QTB80TC	87.5	165	107	114	25	36	70
QTB100TC	107.5	181	131	132	25	41	84



Model/Sign	HA	HB	HD	HP	HT	HQ	HJ
QTB32TCM	110.5	80	16	12	13	21.5	51
QTB40/50/63TCM	111.5	80	25.5	12	10.5	21	50.5
QTB80/100TCM	110	85	25.5	14	15	20.5	71



QFVB



Series No: QFVB

Type No.: Blank: Basic type; D: Double shaft type; J: Double shaft and adjustable stroke type

Bore: 32, 40, 50, 63, 80, 100

X

Stroke: 25, 50, 75, …

Adjustable stroke: 10, 20, 30, 40, 50, 75, 100

Magnet No.: Blank: No Magnet; S: With Magnet

Seal material: Blank: TPU seal

Mounting type: Blank: No; CA, CB, CR, LB, FA, FB; IJ, YJ, YCJ, BJ, FD

Thread type: Blank: G; P: PT; T: NPT

SPECIFICATION

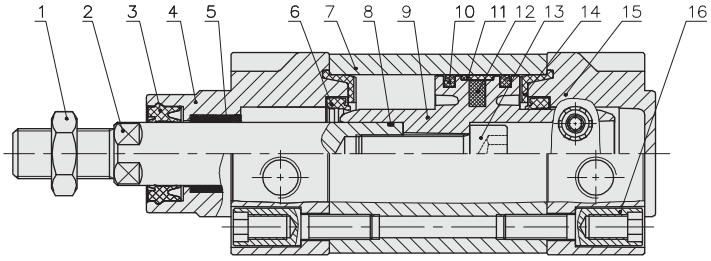
Bore Size (mm)		32	40	50	63	80	100
Acting type		Double Acting					
Working medium		Clean Air(40 μ m filteration)					
Working pressure	PSI	14.5~145					
	Bar	1~10					
	Mpa	0.1~1.0					
Guaranteed pressure		215PSI / 15Bar / 1.5Mpa					
Working temperature		-20~80℃ / -5~176℉(No freezing)					
Speed range (mm/s)		50~800					
Cushion type		Adjustable Cushion					
Cushion stroke (mm)		27		30		36	
Mounting type		LB FA FB CA CB CR					
Air Inlet		G1/8 ❶	G1/4 ❶		G3/8 ❶		G1/2❶

❶ NPT、PT port size is optional.

Bore (mm)	Standard stroke (mm)	Max. stroke (mm)
32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	2000
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	2000
50~100	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	2000

QFVB Series ISO 15552 Standard Cylinder

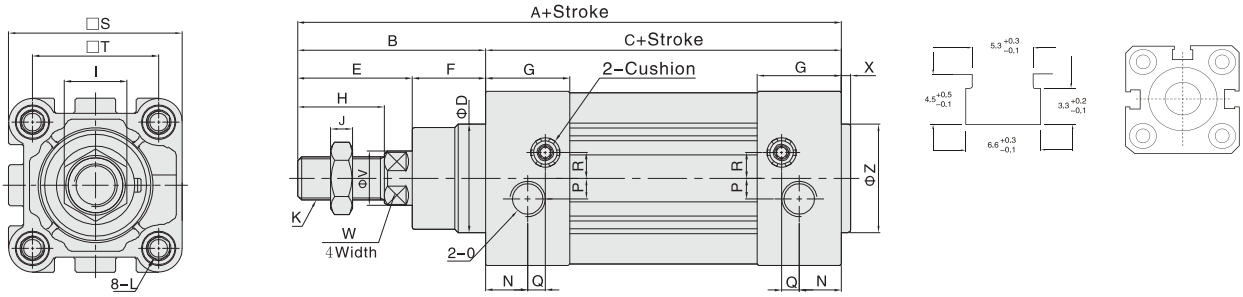
◎ Internal structure



NO.	Part name	Material
1	Nut	Carbon steel
2	Piston rod	S45C hard chrome carbon steel
3	Piston rod seal	TPU
4	Head cover	Aluminum alloy
5	Self lubricating bearing	Bronze powder
6	Cushion seal	TPU
7	Barrel	Aluminum alloy
8	O–ring	NBR
9	Piston	Aluminum alloy
10	Piston seal	TPU
11	Wear ring	PTFE
12	Magnet	Plastic
13	Hexagon screw	Carbon steel
14	Cushion pad	TPU
15	Rear cover	Aluminum alloy
16	Bolt	Carbon steel

◎Main Dimensions

QFVB

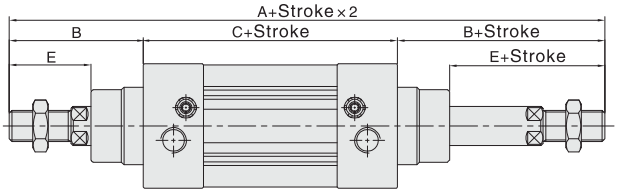


(mm)

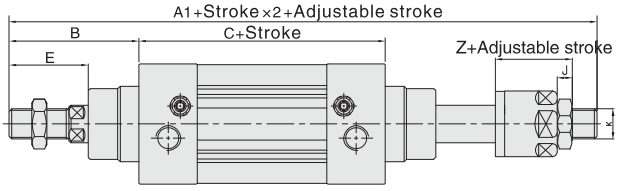
Bore/Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W	X	Z
32	142	48	94	30	29	19	27.5	22	17	6	M10x1.25	M6	13	1/8"	5.5	6	6	46.5	32.5	12	10	3	30
40	159	54	105	35	33	21	32	24	17	7	M12x1.25	M6	17	1/4"	6	7.5	8.5	54	38	16	13	3.5	35
50	175	69	106	40	42	27	31	32	23	8	M16x1.5	M8	15.5	1/4"	7.5	6.5	9.5	64	46.5	20	17	3.5	40
63	190	69	121	45	42	27	33	32	23	8	M16x1.5	M8	16.5	3/8"	7.5	7.5	11.5	75	56.5	20	17	4	45
80	214	86	128	45	53	33	33	40	26	10	M20x1.5	M10	16.5	3/8"	8	8.5	12.5	93	72	25	22	4	45
100	229	91	138	55	55	36	37	40	26	10	M20x1.5	M10	19.5	1/2"	10	7	12	110	89	25	22	4	55

Note:With magnet and without magnet,the dimensions are same.

QFVBCD



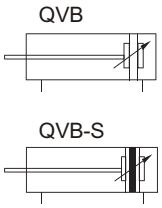
QFVBCJ



Bore/Sign	A	A1	B	C	E	Z	J	K
32	190	188	48	94	29	27	6	M10x1.25
40	213	208	54	105	33	28	7	M12x1.25
50	244	233	69	106	42	31	8	M16x1.5
63	259	248	69	121	42	31	8	M16x1.5
80	300	286	86	128	53	39	10	M20x1.5
100	320	304	91	138	55	39	10	M20x1.5

Note: 1. With magnet and without magnet, the dimensions are same.
2. Not marked dimension is same as QFVB standard type.

QVB



Series No	Type No.	Bore	X	Stroke	–	Adjustable stroke	–	Magnet No.	–	Seal material	–	Mounting type	–	Thread type
QVB	Blank: Basic type D: Double shaft type J: Double shaft and adjustable stroke type	32 40 50 63 80 … 320		25 50 75 …		10 20 30 40 50 75 100		Blank: No Magnet S: With Magnet		Black：TPU seal		Blank：No CA CB IJ CR YJ LB YCJ FA BJ FB FD		Blank：G P：PT T：NPT

SPECIFICATION

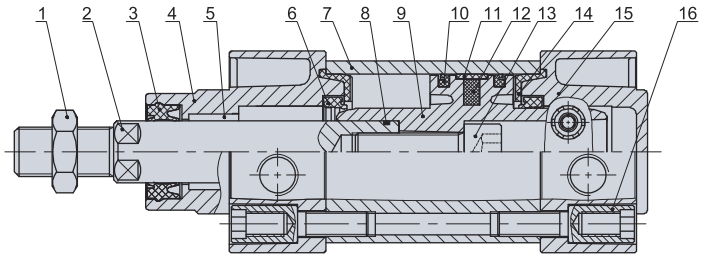
Bore Size (mm)		32	40	50	63	80	100	125	160	200	250	320
Acting type		Double Acting										
Working medium		Clean Air(40 μ m filteration)										
Working pressure	PSI	14.5~145										
	Bar	1~10										
	Mpa	0.1~1.0										
Guaranteed pressure		215PSI / 15Bar / 1.5Mpa										
Working temperature		－20~80℃ / －5~176℉(No freezing)										
Speed range (mm/s)		50~800										
Cushion type		Adjustable Cushion										
Cushion stroke (mm)		27		30		36		34	35	42	50	39
Mounting type		LB FA FB CA CB CR										
Air Inlet ❶		G1/8	G1/4		G3/8		G1/2		G3/4		G1	

❶ NPT、PT port size is optional.
❷ Cushion Type：Air cushion

Bore (mm)	Standard stroke (mm)	Max. stroke (mm)
32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	1900
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	1900
50~320	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1900

QVB Series ISO 15552 Standard Cylinder

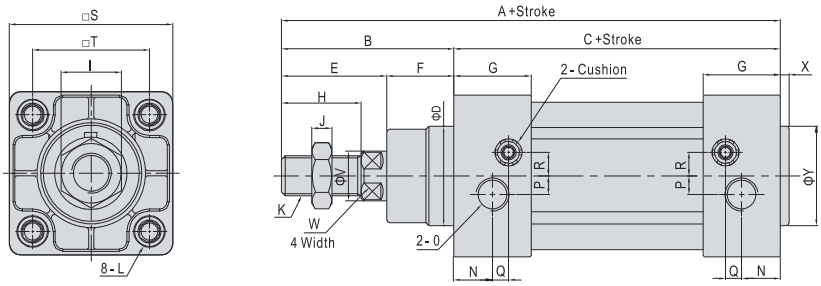
◎ Internal structure



NO.	Part name	Material
1	Nut	Carbon steel
2	Piston rod	S45C hard chrome carbon steel
3	Piston rod seal	TPU
4	Head cover	Aluminum alloy
5	Self lubricating bearing	Bronze powder
6	Cushion seal	TPU
7	Barrel	Aluminum alloy
8	O- ring	NBR
9	Piston	Aluminum alloy
10	Piston seal	TPU
11	Wear ring	PTFE
12	Magnet	Plastic
13	Hexagon screw	Carbon steel
14	Cushion pad	TPU
15	Rear cover	Aluminum alloy
16	Bolt	Carbon steel

◎Main Dimensions

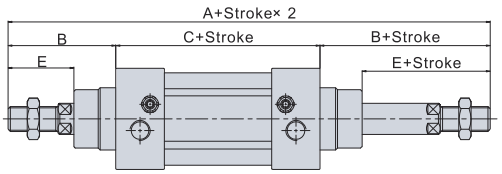
QVB



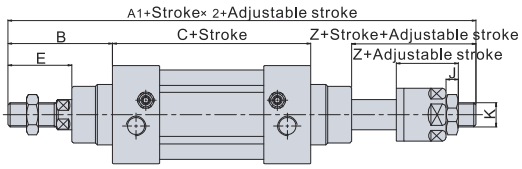
Bore/Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W	X	Y
32	142	48	94	30	29	19	27.5	22	17	6	M10x1.25	M6	13	1/8"	5.5	6	6	47	32.5	12	10	3	30
40	159	54	105	35	33	21	32	24	17	7	M12x1.25	M6	17	1/4"	6	7.5	8.5	53	38	16	13	3.5	35
50	175	69	106	40	42	27	31	32	23	8	M16x1.5	M8	15.5	1/4"	7.5	6.5	9.5	65	46.5	20	17	3.5	40
63	190	69	121	45	42	27	33	32	23	8	M16x1.5	M8	16.5	3/8"	7.5	7.5	11.5	75	56.5	20	17	4	45
80	214	86	128	45	53	33	33	40	26	10	M20x1.5	M10	16.5	3/8"	9	7.5	13.5	95	72	25	22	4	45
100	229	91	138	55	55	36	37	40	26	10	M20x1.5	M10	18.5	1/2"	9.5	8.5	13.5	115	89	25	22	4	55
125	279	119	160	60	74	45	46	54	41	13.5	M27x2.0	M12	23	1/2"	14	12	14	140	110	32	27	-	-
160	332	152	180	65	94	58	50	72	55	18	M36x2.0	M16	25	3/4"	15	12	20	180	140	40	36	-	-
200	347	167	180	75	110	57	50	72	55	18	M36x2.0	M16	25	3/4"	-	-	-	220	175	40	36	-	-
250	388	188	200	90	121	67	52	83	65	21	M42x2.0	M20	26.5	G1	20.5	7.5	21	270	220	50	45	10	90

Note:With magnet and without magnet,the dimensions are same.

QVBD



QVBJ

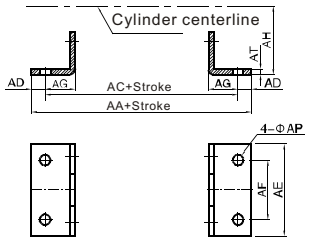


Bore/Sign	A	A1	B	C	E	Z	J	K
32	190	188	48	94	29	27	6	M10x1.25
40	213	208	54	105	33	28	7	M12x1.25
50	244	233	69	106	42	31	8	M16x1.5
63	259	248	69	121	42	31	8	M16x1.5
80	300	286	86	128	53	39	10	M20x1.5
100	320	304	91	138	55	39	10	M20x1.5
125	398	372.5	119	160	74	35	13.5	M27x2.0
160	484	448	152	180	94	40	18	M36x2.0
200	514	462	167	180	110	40	18	M36x2.0
250	576	531	188	200	121	76	21	M42x2.0

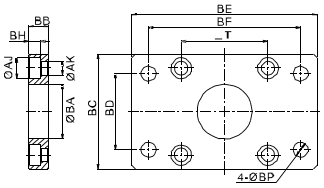
Note: 1. With magnet and without magnet, the dimensions are same.
2. Not marked dimension is same as QVB standard type.

QVB Series ISO 15552 Standard Cylinder

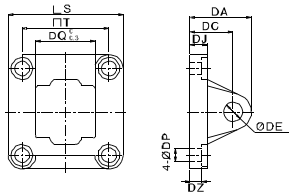
Model/Sign	AA	AC	AD	AE	AF	AG	AH	AP	AT
QVB32LB	158	142	8	47	32	24	32	7	4
QVB40LB	179	161	9	53	36	28	36	9	4
QVB50LB	190	170	10	65	45	32	45	9	5
QVB63LB	209	185	12	75	50	32	50	9	5
QVB80LB	248	210	19	95	63	41	63	12.5	6
QVB100LB	258	220	19	115	75	41	71	14.5	6
QVB125LB	290	250	20	140	90	45	90	16.5	8
QVB160LB	340	300	20	180	115	60	115	18.5	10
QVB200LB	380	320	30	220	135	70	135	24	12



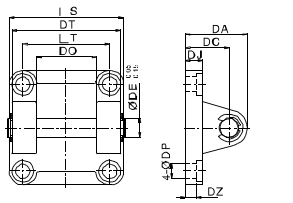
Model/Sign	AJ	AK	BA	BB	BC	BD	BE	BF	BH	BP	T
QVB32FA	11	7	30.5	10	47	32	80	64	6	7	32.5
QVB40FA	11	7	35.5	10	53	36	90	72	6	9	38
QVB50FA	14	9	40.5	12	65	45	110	90	8	9	46.5
QVB63FA	14	9	45.5	12	75	50	125	100	8	9	56.5
QVB80FA	17	11	45.5	16	95	63	154	126	10	12.5	72
QVB100FA	17	11	55.5	16	115	75	186	150	10	14.5	89
QVB125FA	19	13	62	20	140	90	218	180	12.5	16.5	110
QVB160FA	26	18	72	20	180	115	278	230	14.5	18.5	140
QVB200FA	26	18	82	25	220	135	318	270	17	22	175



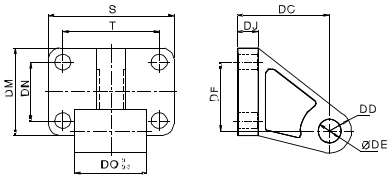
Model/Sign	DA	DC	DE	DJ	DP	DQ	DZ	S	T
QVB32CA	31	22	10	9.5	7	25.8	5.5	47	32.5
QVB40CA	37	25	12	9.5	7	27.8	5.5	53	38
QVB50CA	39	27	12	10.5	9	31.8	6.5	65	46.5
QVB63CA	47	32	16	10.5	9	39.7	6.5	75	56.5
QVB80CA	51	36	16	14.5	11	49.7	10	95	72
QVB100CA	61	41	20	14.5	11	59.7	10	115	89
QVB125CA	75	50	25	17.5	13	69.7	10	140	110
QVB160CA	82.5	55	30	20	18	89.7	19	176	140
QVB200CA	88.5	60	30	25	18	89.7	24	218	175



Model/Sign	DA	DC	DE	DJ	DP	DQ	DT	DZ	S	T
QVB32CB	31	22	10	9.5	7	$26^{+0.52}_{0}$	45	5.5	47	32.5
QVB40CB	37	25	12	9.5	7	$28^{+0.52}_{0}$	52	5.5	53	38
QVB50CB	39	27	12	10.5	9	$32^{+0.62}_{0}$	60	6.5	65	46.5
QVB63CB	47	32	16	10.5	9	$40^{+0.62}_{0}$	70	6.5	75	56.5
QVB80CB	51	36	16	14.5	11	$50^{+0.62}_{0}$	90	10	95	72
QVB100CB	61	41	20	14.5	11	$60^{+0.74}_{0}$	110	10	115	89
QVB125CB	75	50	25	17.5	13	$70^{+0.74}_{0}$	130	10	140	110
QVB160CB	82	55	30	20	18	90^{+1}_{0}	163.5	19	176.5	140
QVB200CB	89.5	60	30	25	18	90^{+1}	175	24	218	175



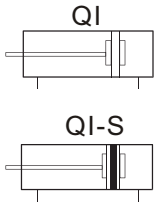
Model/Sign	DC	DD	DE	DF	DJ	DQ	DM	DN	S	T
QVB32CR	32	10	10	21	8	25.8	31	18	51	38
QVB40CR	36	11	12	24	10	27.8	35	22	54	41
QVB50CR	45	13	12	33	12	31.8	45	30	65	50
QVB63CR	50	15	16	37	12	39.7	50	35	67	52
QVB80CR	63	15	16	47	14	49.7	60	40	86	66
QVB100CR	71	19	20	55	15	59.7	70	50	96	76
QVB125CR	90	22.5	25	70	20	69.7	90	60	124	94
QVB160CR	115	30	30	97	26	90	126	88	157	118
QVB200CR	135	30	30	105	31	90	130	90	162	122



❶ Apply to QFVB Series & QVB Series

QI Series ISO 6432 Mini Cylinder

QI



Series No — QI: Stainless steel barrel

Cushion Type — C: Air Cushion; Blank: Rubber Cushion

Type No — Blank: Basic type; D: Double shaft type; J: Double shaft and adjustable stroke type; SA: Single action extend type; SB: Single action return type

Bore — 8, 10, 12, 16, 20, 25

X

Stroke — 25, 50, 75, …

–

Adjustable stroke — 10, 20, 30, 40, 50, 75, 100

–

Magnet No — Blank: No Magnet; S: With Magnet

–

Tail type — Blank: Swiveling tail; U: Flat tail; CM: Round tail

–

Mounting type — Blank: No; LB; FA; SDB; TC; IJ; YJ; BJ; ....

–

Thread type — Blank: G; P: PT; T: NPT

SPECIFICATION

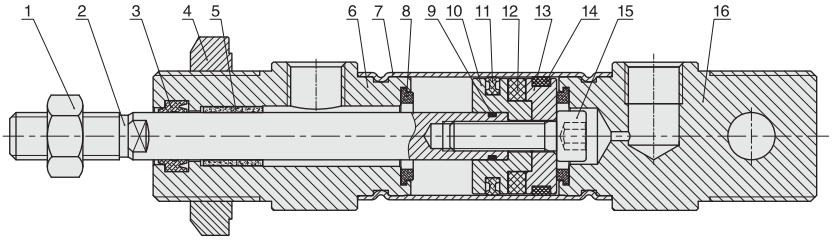
Bore size(mm)		8	10	12	16	20	25
Acting type		Double Acting/Single Acting					
Working medium		Clean Air(40 μ m filteration)					
Working pressure	PSI	14.5~100		29~100		14.5~145	29~145
	Bar	1~7		2~7		1~10	2~10
	Mpa	0.1~0.7 (Double Acting)/		0.2~0.7 (Single Acting)		0.1~1.0 (Double Acting)	0.2~1.0 (Single Acting)
Guaranteed pressure		215PSI / 15Bar / 1.5Mpa					
Working temperature		–20~80˚C / –5~176˚F(No freezing)					
Speed range (mm/s)							
Cushion type		Bumper			Bumper(Standard) / Air cushion(Adjustable cushion)		
Barrel material		Stainless steel					
Mounting type		LB FA SDB					
Air Inlet		M5 × 0.8				G1/8 ❶	

❶ NPT、PT port size is optional.

STROKE

Bore (mm)		Standard stroke (mm)	Max. stroke (mm)
Double Acting	8	25 50 75 100 125 150	200
	10	25 50 75 100 125 150 175 200	200
	12	25 50 75 100 125 150 175 200 225 250	500
	16	25 50 75 100 125 150 175 200 225 250 300 350 400 500	500
	20~25	25 50 75 100 125 150 175 200 225 250 300 350 400 500	800
Single Acting	8	10 15 20 25 30 40 50	50
	10	10 15 20 25 30 40 50	50
	12	10 15 20 25 30 40 50	50
	16	10 15 20 25 30 40 50 60 75 80 100	100
	20~25	10 15 20 25 30 40 50 60 75 80 100 125 150	150

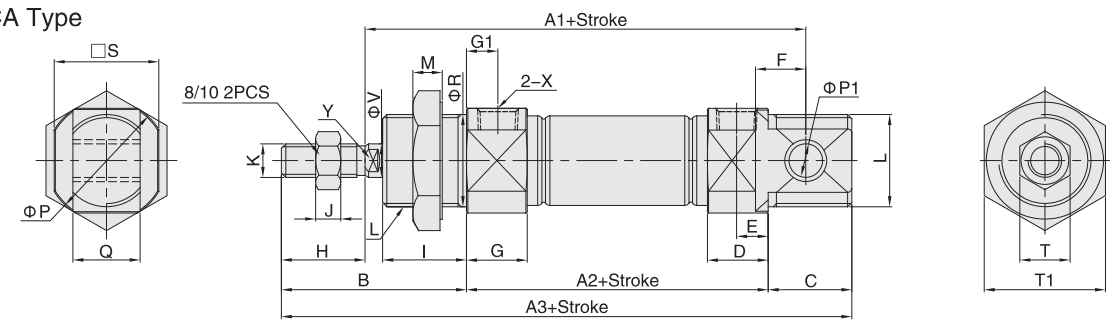
◎ Internal structure



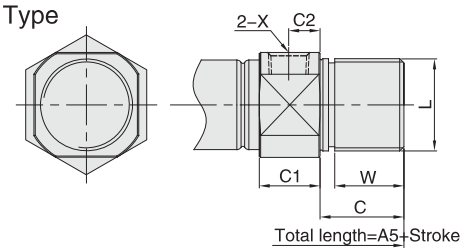
NO.	Part name	Material
1	Nut	Carbon steel
2	Piston rod	IA8、10:SUS304hard chrome carbon steel / IA12~IA25:S45C hard chrome carbon steel
3	Piston rod seal	NBR
4	Nut	Carbon steel
5	Self lubricating bearing	Bronze powder
6	Head cover	Aluminum alloy
7	Barrel	Stainless Steel
8	Anti–bump cushion	TPU
9	O–ring	NBR
10	Piston	IA8、10：Stainless steel / IA12~IA25：Aluminum alloy
11	Piston seal	NBR
12	Magnet	Plastic
13	Magnet base	IA8、10：Stainless steel / IA12~IA25：Aluminum alloy
14	Wear ring	PTFE
15	Hexagon screw	Carbon steel
16	Rear cover	Aluminum alloy

◎Main Dimensions

QI CA Type



CM Type



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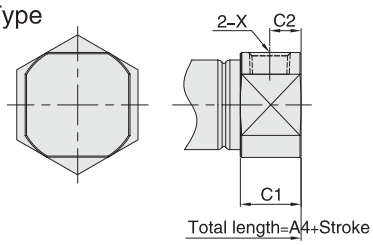


(mm)

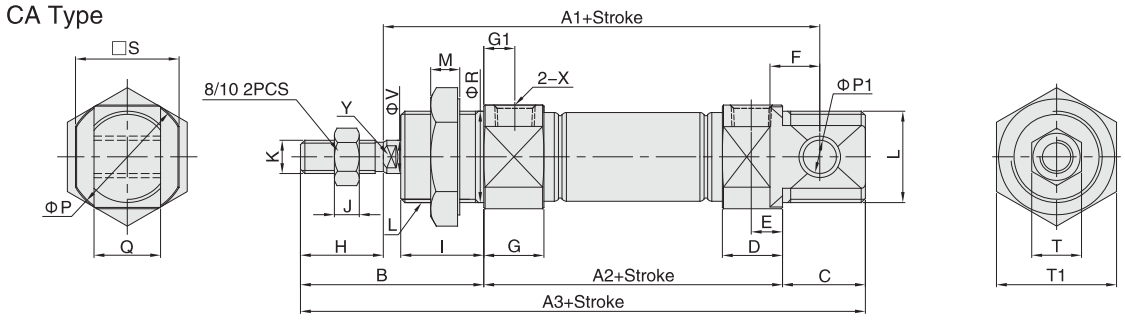
Bore\Sign	A1	A2	A3	A4	A5	B	C	C1	C2	D	E	F	G	G1	H	I	J	K	L	M	P	P1	Q	R	S
8	64	46	86	74	–	28	12	9.5	5	9.5	5.2	6	11.5	7	12	12	3	M4X0.7	M12X1.25	7	17	4	8	12	15
10	64	46	86	74	–	28	12	9.5	5	9.5	5.2	6	11.5	7	12	12	3	M4X0.7	M12X1.25	7	17	4	8	12	15
12	75	50	105	88	105	38	17	10	5	10	5	9	12	7	16	17	5	M6X1.0	M16X1.5	6	19.7	6	12	16	18.3
16	82	56	111	94	111	38	17	10.5	5.5	10.5	5.5	9	12.5	7	16	17	5	M6X1.0	M16X1.5	6	22	6	12	16	20
20	95	62	126	106	126	44	20	14.5	7.5	14.5	7.5	12	14.5	7.5	20	20	6	M8X1.25	M22X1.5	7	29	8	16	22	25
25	104	65	137	115	137	50	22	16	8	16	8	12	16	8	22	22	6	M10X1.25	M22X1.5	7	33.5	8	16	22	30

QI Series ISO 6432 Mini Cylinder

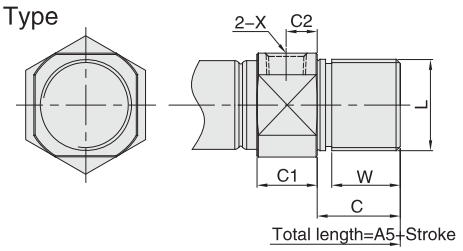
◎Main Dimensions

QI Φ8-Φ25

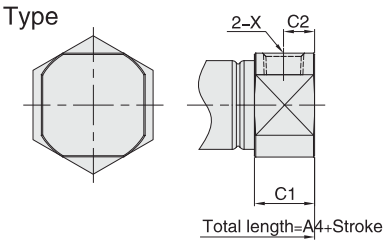
CA Type



CM Type



U Type



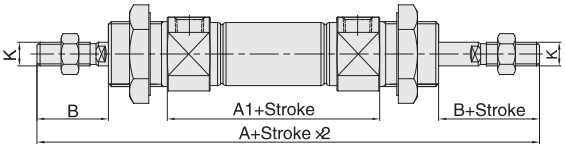
(mm)

Bore\Sign	A1	A2	A3	A4	A5	B	C	C1	C2	D	E	F	G	G1	H	I	J	K	L	M	P	P1	Q	R	S
8	64	46	86	74	–	28	12	9.5	5	9.5	5.2	6	11.5	7	12	12	3	M4X0.7	M12X1.25	7	17	4	8	12	15
10	64	46	86	74	–	28	12	9.5	5	9.5	5.2	6	11.5	7	12	12	3	M4X0.7	M12X1.25	7	17	4	8	12	15
12	75	50	105	88	105	38	17	10	5	10	5	9	12	7	16	17	5	M6X1.0	M16X1.5	6	19.7	6	12	16	18.3
16	82	56	111	94	111	38	17	10.5	5.5	10.5	5.5	9	12.5	7	16	17	5	M6X1.0	M16X1.5	6	22	6	12	16	20
20	95	62	126	106	126	44	20	14.5	7.5	14.5	7.5	12	14.5	7.5	20	20	6	M8X1.25	M22X1.5	7	29	8	16	22	25
25	104	65	137	115	137	50	22	16	8	16	8	12	16	8	22	22	6	M10X1.25	M22X1.5	7	33.5	8	16	22	30

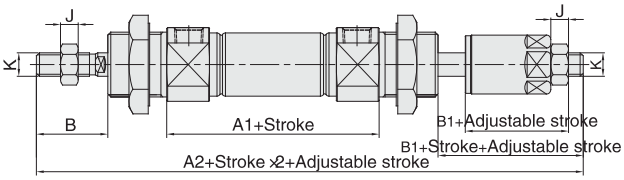
Bore\Sign	T	T1	X	V	W	Y
8	7	17	M5X0.8	4	–	–
10	7	17	M5X0.8	4	–	–
12	10	22	M5X0.8	6	15	5
16	10	22	M5X0.8	6	15	5
20	12	29	1/8"	8	18	6
25	17	29	1/8"	10	20	8

Note: With magnet and without magnet, the dimensions are same.

QID Φ8-Φ25



QIJ Φ8- Φ25



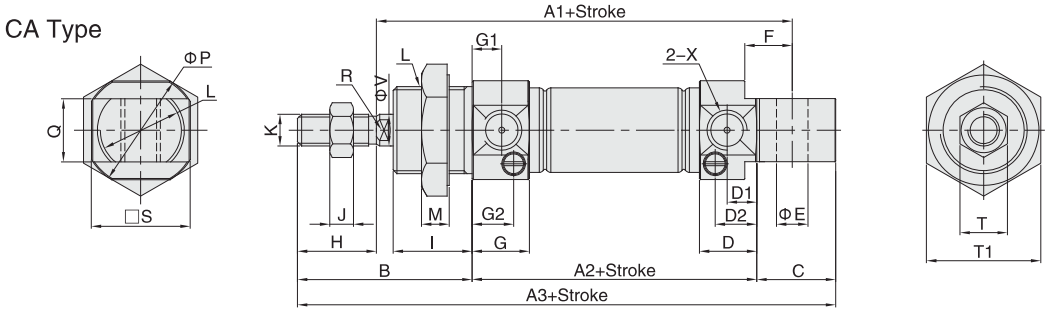
Bore\Sign	A	A1	A2	B	B1	J	K
8	104	48	103.5	15.5	14.7	3	M4X0.7
10	104	48	103.5	15.5	14.7	3	M4X0.7
12	128	52	128	21	21	5	M6X1.0
16	134	58	134	21	21	5	M6X1.0
20	150	62	151	24	25	6	M8X1.25
25	165	65	164	28	27	6	M10X1.25

Note: Unlabeled the same size as standard type.

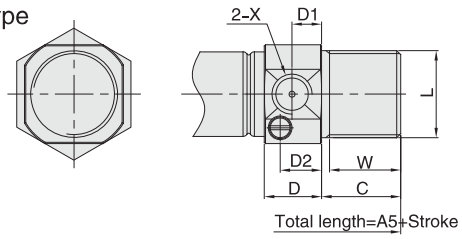
◎Main Dimensions

QIC Φ16 - Φ25

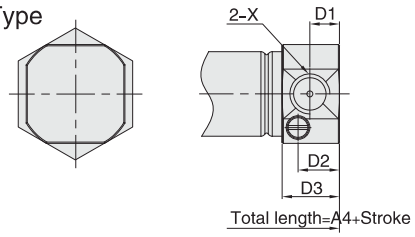
CA Type



CM Type



U Type



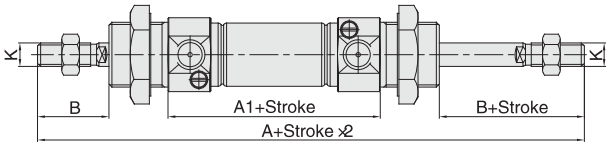
(mm)

Bore\Sign	A1	A2	A3	A4	A5	B	C	D	D1	D2	D3	E	F	G	G1	G2	H	I	J	K	L	M	P	Q	R
16	82	56	111	94	111	38	17	12	6	9	12	6	9	12.5	7	9.5	16	17	5	M6X1.0	M16X1.5	6	22	12	5
20	95	62	126	106	126	44	20	14.5	7.5	11	14.5	8	12	14.5	7.5	11	20	20	6	M8X1.25	M22X1.5	7	29	16	6
25	104	65	137	115	137	50	22	16	8	12.5	16	8	12	16	8	12.5	22	22	6	M10X1.25	M22X1.5	7	33.5	16	8

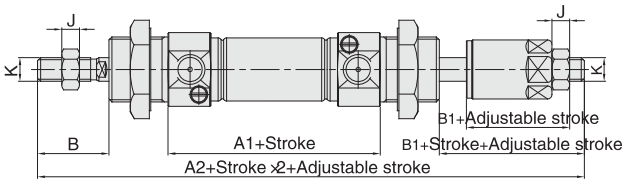
Bore\Sign	S	T	T1	X	V	W
16	20	10	22	M5X0.8	6	15
20	25	12	29	1/8"	8	18
25	30	17	29	1/8"	10	20

Note: With magnet and without magnet, the dimensions are same.

QICD Φ16 - Φ25



QICJ Φ16 - Φ25



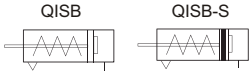
Bore\Sign	A	A1	A2	B	B1	J	K
16	134	58	134	21	21	5	M6X1.0
20	150	62	151	24	25	6	M8X1.25
25	165	65	164	28	27	6	M10X1.25

Note: Unlabeled the same size as standard type.

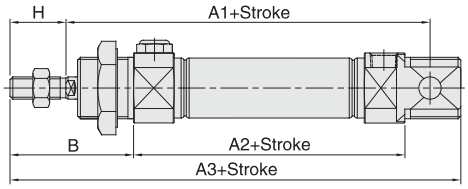
QI Series ISO 6432 Mini Cylinder

◎Main Dimensions

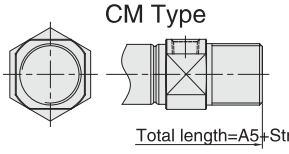
QISB Φ12-Φ25



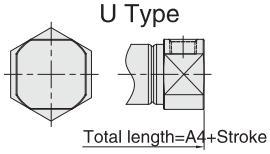
CA Type



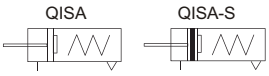
CM Type



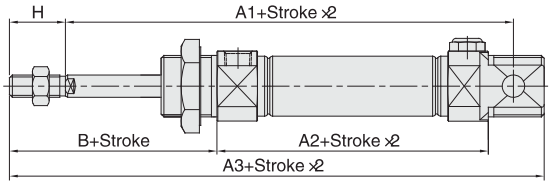
U Type



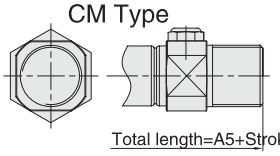
QISA Φ12-Φ25



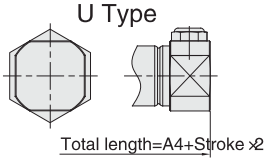
CA Type



CM Type



U Type

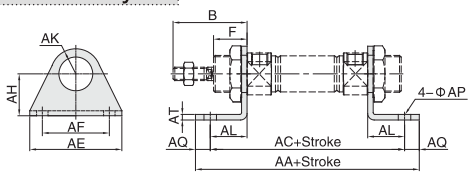


Bore\Sign	A1			A2			A3			A4			A5			B	H
	0~50	51~100	101~150	0~50	51~100	101~150	0~50	51~100	101~150	0~50	51~100	101~150	0~50	51~100	101~150		
12	100	–	–	75	–	–	130	–	–	113	–	–	130	–	–	38	16
16	107	132	–	81	106	–	136	161	–	119	144	–	136	161	–	38	16
20	120	145	170	87	112	137	151	176	201	131	156	181	151	176	201	44	20
25	129	154	179	90	115	140	162	187	212	140	165	190	162	187	212	50	22

Note: Unlabeled the same size as standard type.

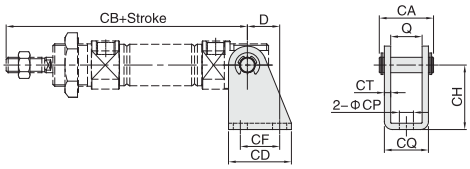
Accessory dimensions

LB Accessory



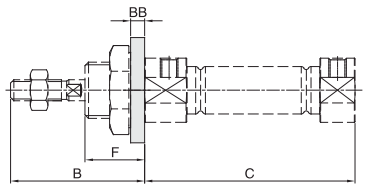
Model\Sign	AA	AC	AE	AF	AH	AK	AL	AP	AQ	AT	B	F
QI12LB	88	76	42	32	20.5	12.5	13	6	6	4	38	17
QI16LB	94	82	42	32	20.5	12.5	13	6	6	4	38	17
QI20LB	114	98	54	40	22.5	20	18	7	8	4	44	20
QI25LB	117	101	54	40	22.5	20	18	7	8	4	50	22

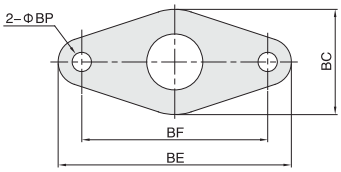
SDB Accessory



Model\Sign	D	Q	CA	CB	CD	CF	CH	CP	CQ	CT
QI12SDB	13	12.1	21.5	91	25	15	27	5.5	17.1	2.5
QI16SDB	13	12.1	21.5	98	25	15	27	5.5	17.1	2.5
QI20SDB	16	16.1	29	115	32	20	30	6.6	24.1	4
QI25SDB	16	16.1	29	126	32	20	30	6.6	24.1	4

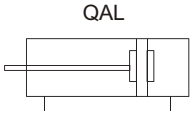
FA Accessory

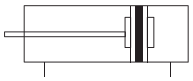




Model\Sign	B	C	BB	BC	BE	BF	F
FJ-IA12FA	38	50	4	30	53	40	17
FJ-IA16FA	38	56	4	30	53	40	17
FJ-IA20FA	44	62	5	40	66	50	20
FJ-IA25FA	50	65	5	40	66	50	22

QAL





Series No: QAL

Cushion Type:
- C：Air cushion
- Blank：Rubber cushion

Type No:
- Blank：Basic type
- D：Double shaft type
- J：Double shaft and adjustable stroke type
- SA：Single action extend type
- SB：Single action return type

Bore: 16, 20, 25, 32, 40

X

Stroke: 25, 50, 75, ...

—

Adjustable stroke: 10, 20, 30, 40, 50, 75, 100

—

Magnet No:
- Blank：No Magnet
- S：With Magnet

—

Tail type:
- Blank：Swiveling tail
- U：Flat tail
- CM：Round tail

—

Mounting type:
- Blank：No
- LB
- FA
- SDB
- IJ
- YJ
- BJ
- ....

—

Thread type:
- Blank：G
- P：PT
- T：NPT

SPECIFICATION

Bore size(mm)		16		20	25	32	40
Acting type		Double Acting/Single Acting					
Working medium		Clean Air(40 μ m filteration)					
Working pressure	PSI	14.5~100	29~100	14.5~145		29~145	
	Bar	1~7	2~7	1~10		2~10	
	Mpa	0.1~0.7 (Double Acting)	0.2~0.7 (Single Acting)	0.1~1.0 (Double Acting)		0.2~1.0 (Single Acting)	
Guaranteed pressure		215PSI / 15Bar / 1.5Mpa					
Working temperature		－20~80℃ / －5~176℉(No freezing)					
Speed range (mm/s)		50~800					
Cushion type		Fixed cushion / Air cushion					
Barrel material		Aluminum alloy					
Mounting type		LB FA SDB					
Air Inlet		M5 × 0.8		G1/8❶			G1/4❶

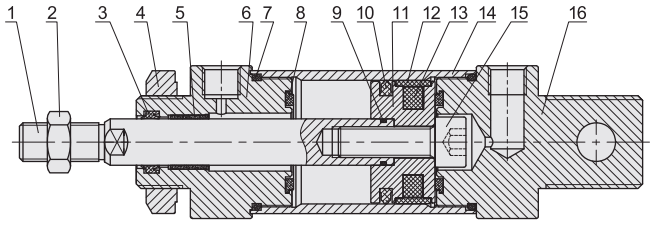
❶ NPT、PT port size is optional.

STROKE

Bore (mm)		Standard stroke (mm)	Max. stroke (mm)
Double Acting	16~20	25 50 75 80 100 125 150 160 175 200 250 300	800
	25~40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	1500
Single Acting	16	25 50 75 100	100
	20~40	25 50 75 100 125 150	150

QAL Series
Mini Type Cylinder

◎ Internal structure

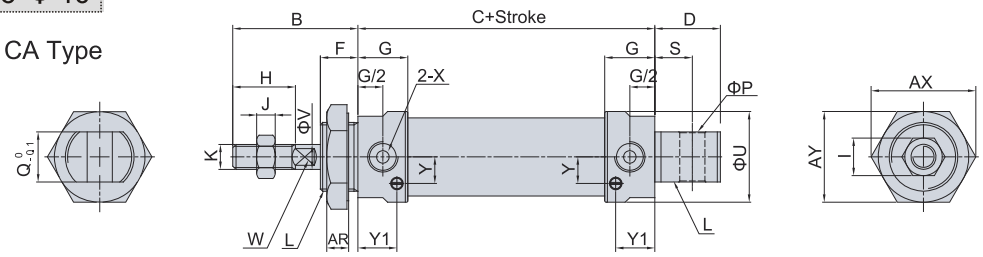


NO.	Part name	Material
1	Piston rod	S45C hard chrome carbon steel
2	Nut	Carbon steel
3	Piston rod seal	NBR
4	Nut	Carbon steel
5	Self lubricating bearing	Bronze powder
6	Head cover	Aluminum alloy
7	O- ring	NBR
8	Anti-bump cushion	TPU
9	O- ring	NBR
10	Piston seal	NBR
11	Piston	Aluminum alloy
12	Wear ring	PTFE
13	Magnet	Plastic
14	Barrel	Aluminum alloy
15	Hexagon screw	Carbon steel
16	Rear cover	Aluminum alloy

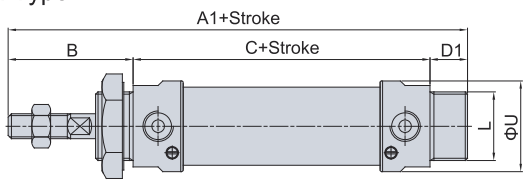
◎Main Dimensions

Φ 16-Φ 40

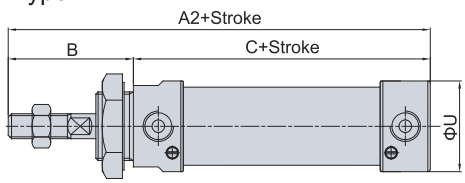
CA Type



CM Type



U Type

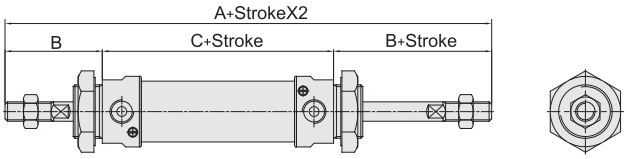


(mm)

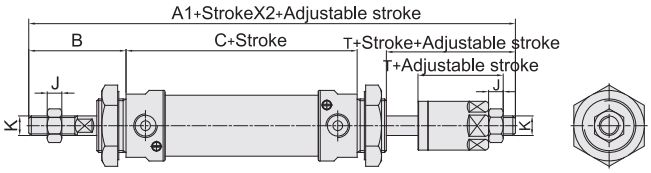
Bore\Sign	A1	A2	B	C	D	D1	F	G	H	I	J	K	L	P	Q	S	U	V	W	X	AR	AX	AY	Y	Y1
16	102	92	36	56	14	10	14	11	16	10	5	M6X1.0	M16X1.5	6	12	7	20	6	5	M5X0.8	6	25	22	6.3	8
20	122	110	40	70	21	12	12	16	20	12	6	M8X1.25	M22X1.5	8	16	12	29	8	6	1/8"	7	33	29	8.5	12.5
25	128	114	44	70	21	14	14	16	22	17	6	M10X1.25	M22X1.5	8	16	12	34	10	8	1/8"	7	33	29	10	12.5
32	128	114	44	70	27	14	14	16	22	17	6	M10X1.25	M24X2.0	10	16	15	39.5	12	10	1/8"	8	37	32	12	12
40	152	138	46	92	27	14	14	22	24	17	7	M12X1.25	M30X2.0	12	20	15	49.5	16	14	1/4"	9	47	41	16	18

Note: With magnet and without magnet, the dimensions are same.

QALD Φ 16-Φ40



QALJ Φ 16- Φ40

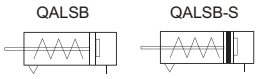


Bore\Sign	A	A1	B	C	J	K	T
16	128	127	36	56	5	M6X1.0	21
20	150	147	40	70	6	M8X1.25	25
25	158	155	44	70	6	M10X1.25	27
32	158	155	44	70	6	M10X1.25	27
40	184	180	46	92	7	M12X1.25	28

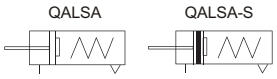
Note: Unlabeled the same size as standard type.

◎Main Dimensions

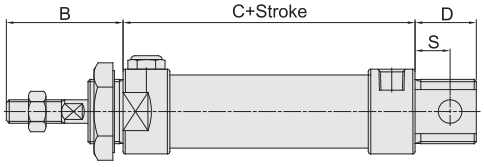
QALSB Φ 16-Φ40



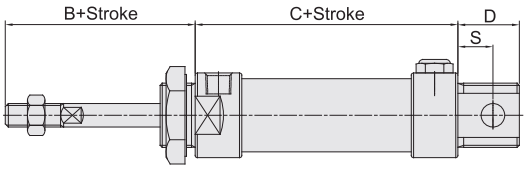
QALSA Φ 16- Φ40



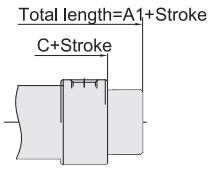
CA Type



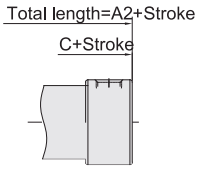
CA Type



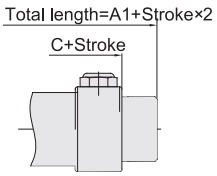
CM Type



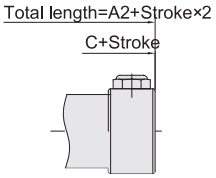
U Type



CM Type



U Type

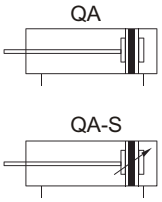


Bore\Sign	A1			A2			C			B	D	S
	0~50	51~100	101~150	0~50	51~100	101~150	0~50	51~100	101~150			
16	127	152	-	117	142	-	81	106	-	36	14	7
20	147	172	197	135	160	185	95	120	145	40	21	12
25	153	178	203	139	164	189	95	120	145	44	21	12
32	153	178	203	139	164	189	95	120	145	44	27	15
40	177	202	227	163	188	213	117	142	167	46	27	15

Note: Unlabeled the same size as standard type.

QA Series Stainless Steel Mini Cylinder

QA



Series No	Cushion Type	Type No	Bore	X	Stroke	–	Adjustable stroke	–	Magnet No	–	Tail type	–	Mounting type	–	Thread type
QA	C: Air cushion Blank: Rubber cushion	Blank: Basic type D: Double shaft type J: Double shaft and adjustable stroke type SA: Single action extend type SB: Single action return type	16 20 25 32 40		25 50 75 …		10 20 30 40 50 75 100		S: With Magnet		Blank: Swiveling tail U: Flat tail CM: Round tail		Blank: No LB FA SDB IJ YJ BJ		Blank: G P: PT T : NPT

SPECIFICATION

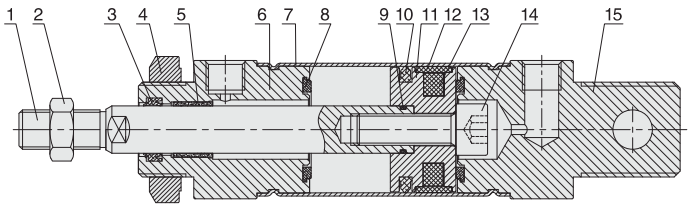
Bore size(mm)		16		20	25	32	40
Acting type		Double Acting/Single Acting					
Working medium		Clean Air(40 μ m filteration)					
Working pressure	PSI	14.5~100	29~100	14.5~145		29~145	
	Bar	1~7	2~7	1~10		2~10	
	Mpa	0.1~0.7	0.2~0.7	0.1~1.0		0.2~1.0	
		(Double Acting)	(Single Acting)	(Double Acting)		(Single Acting)	
Guaranteed pressure		215PSI / 15Bar/ 1.5Mpa					
Working temperature		- 20~80℃ / - 5~176℉(No freezing)					
Speed range (mm/s)		50~800					
Cushion type		Fixed cushion/ Adjustable cushion					
Barrel material		Stainless steel					
Mounting type		LB FA SDB					
Air Inlet		M5 × 0.8		G1/8 ❶			

❶ NPT、PT port size is optional.

STROKE

Bore (mm)		Standard stroke (mm)	Max. stroke (mm)
Double Acting	16	25 50 75 80 100 125 150 160 175 200	500
	20~40	25 50 75 80 100 125 150 160 175 200 250 300	800
Single Acting	16	25 50 75 100	100
	20~40	25 50 75 100	150

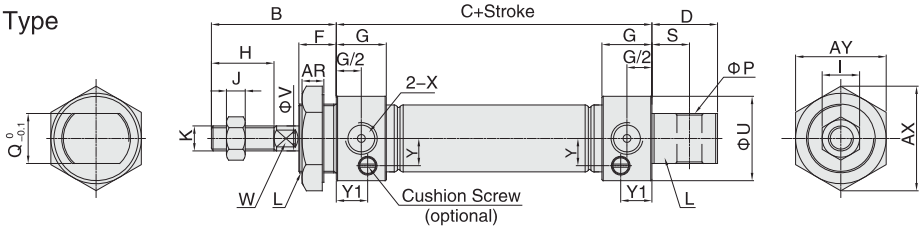
◎ Internal structure



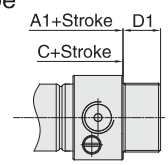
NO.	Part name	Material
1	Piston rod	S45C hard chrome carbon steel
2	Nut	Carbon steel
3	Piston rod seal	NBR
4	Nut	Carbon steel
5	Self lubricating bearing	Bronze powder
6	Head cover	Aluminum alloy
7	Barrel	Stainless Steel
8	Anti–bump cushion	TPU
9	O–ring	NBR
10	Piston seal	NBR
11	Piston	Aluminum alloy
12	Wear ring	PTFE
13	Magnet	Plastic
14	Hexagon screw	Carbon steel
15	Rear cover	Aluminum alloy

QA Φ16 Φ40

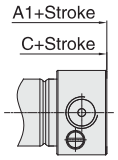
CA Type



CM Type



U Type



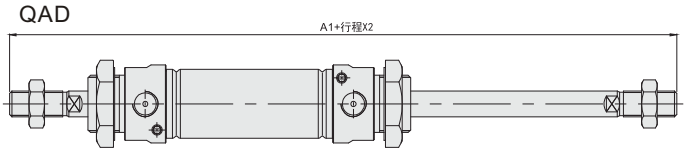
(mm)

Bore\Sign	A1	B	C	D	D1	F	G	H	I	J	K	Y1	L	P	Q	S	U	V	W	X	AX	AY	Y
16	98	38	60	16	16	16	10	16	10	5	M6X1.0	7	M16X1.5	6	12	9	21	6	5	M5X0.8	25	22	6.5
20	116	40	76	21	12	12	16	20	12	6	M8X1.25	12.5	M22X1.5	8	16	12	27	8	6	1/8"	33	29	8
25	120	44	76	21	14	14	16	22	17	6	M10X1.25	12.5	M22X1.5	8	16	12	30	10	8	1/8"	33	29	10
32	120	44	76	27	14	14	16	22	17	6	M10X1.25	12	M24X2.0	10	16	15	35	12	10	1/8"	37	32	12
40	122	46	76	27	14	14	17	24	17	7	M12X1.25	13	M30X2.0	12	20	15	42	16	14	1/8"	47	41	16

Note: With magnet and without magnet, the dimensions are same.

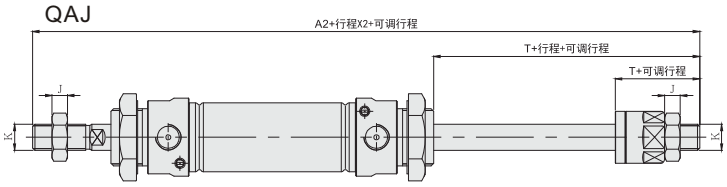
QAD Φ16-Φ40

QAD



QAJ Φ16 -Φ 40

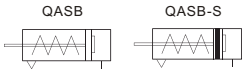
QAJ



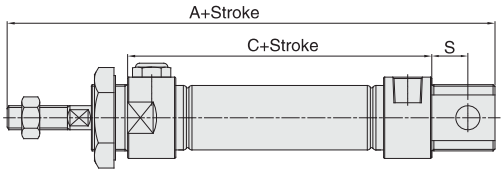
Bore\Sign	A1	A2	J	K	T
16	136	135	5	M6X1.0	21
20	156	153	6	M8X1.25	25
25	164	161	6	M10X1.25	27
32	164	161	6	M10X1.25	27
40	168	164	7	M12X1.25	28

Note: Unlabeled the same size as standard type.

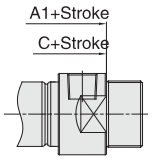
QASB Φ16 -Φ 40



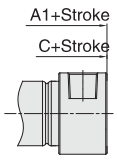
CA Type



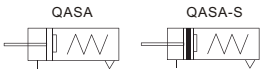
CM Type



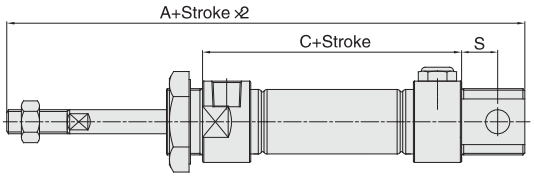
U Type



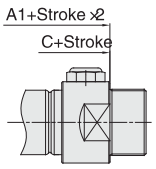
QASA Φ16 -Φ 40



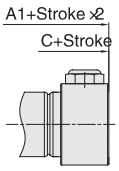
CA Type



CM Type



U Type

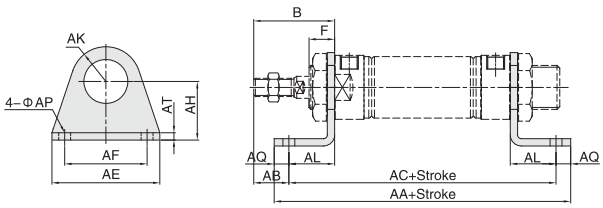


QA Series Stainless Steel Mini Cylinder

Bore\Sign	A			A1			C			S
	0~50	51~100	101~150	0~50	51~100	101~150	0~50	51~100	101~150	
16	139	164	–	123	148	–	85	110	–	9
20	162	187	212	141	166	191	101	126	151	12
25	166	191	216	145	170	195	101	126	151	12
32	172	197	222	145	170	195	101	126	151	15
40	174	199	224	147	172	197	101	126	151	15

Note: Unlabeled the same size as standard type.

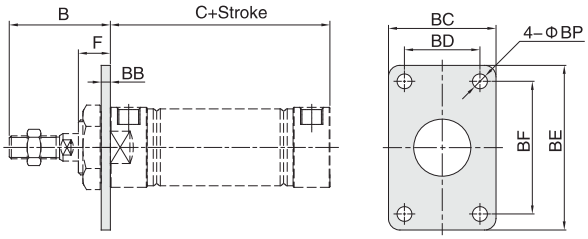
Dimensions of LB Type



Model\Sign	B		F		AA		AA(RALSB)			AA(RASB)			AB	
	RAL	RA	RAL	RA	RAL	RA	0–50	51–100	101–150	0–50	51–100	101–150	RAL	RA
QA16LB	36	38	14	16	96	100	121	146	–	125	150	–	22	24
QA20LB	40	40	12	12	118	124	143	168	193	149	174	199	24	24
QA25LB	44	44	14	14	118	124	143	168	193	149	174	199	28	28
QA32LB	44	44	14	14	138	144	163	188	213	169	194	219	18	18
QA40LB	46	46	14	14	162	146	187	212	237	171	196	221	19	19

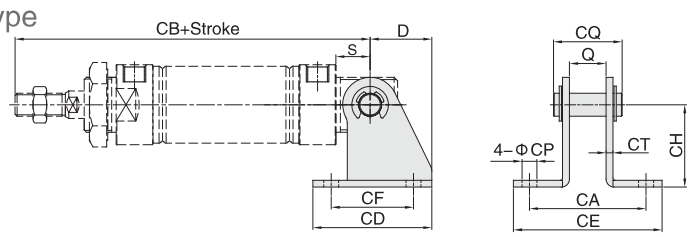
Model\Sign	AC		AC(RALSB)			AC(RASB)			AE	AF	AH	AK	AL	AP	AQ	AT
	RAL	RA	0–50	51–100	101–150	0–50	51–100	101–150								
QA16LB	84	88	109	134	–	113	138	–	44	32	20	14	14	5.5	6	3
QA20LB	102	108	127	152	177	133	158	183	54	40	25	17	16	6.5	8	3
QA25LB	102	108	127	152	177	133	158	183	54	40	25	17	16	6.5	8	3
QA32LB	122	128	147	172	197	153	178	203	59	45	32	19	26	6.5	8	3
QA40LB	146	130	171	196	221	155	180	205	64	50	36	23	27	6.5	8	3

Dimensions of FA Type



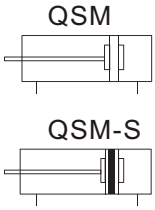
Model\Sign	B		C		C(RALSB)			C(RASB)			BB	BC	BD	BE	BF	BP	F	
	RAL	RA	RAL	RA	0–50	51–100	101–150	0–50	51–100	101–150							RAL	RA
QA16SDB	36	38	56	60	81	106	–	85	110	–	3	26	–	52	40	5.5	14	16
QA20SDB	40	40	70	76	95	120	145	101	126	151	4	33	–	64	50	6.5	12	12
QA25SDB	44	44	70	76	95	120	145	101	126	151	4	33	–	64	50	6.5	14	14
QA32SDB	44	44	70	76	95	120	145	101	126	151	4	47	33	72	58	6.5	14	14
QA40SDB	46	46	92	76	117	142	167	101	126	151	4	50	36	84	70	6.5	14	14

Dimensions of SDB type



Model\Sign	D	S		Q	CA	CB		CB(RALSB)			CB(RASB)			CD	CE	CF	CH	CP	CQ	CT
		RAL	RA			RAL	RA	0–50	51–100	101–150	0–50	51–100	101–150							
QARA16SDB	18	7	9	12.1	42.1	99	107	124	149	–	132	157	–	36	55.1	24	25.5	5.5	22.5	3
QARA20SDB	24.5	12	12	16.1	51.1	122	128	147	172	197	153	178	203	48	66.1	32	32	6.5	27	3
QARA25SDB	24.5	12	12	16.1	51.1	126	132	151	176	201	157	182	207	48	66.1	32	32	6.5	27	3
QARA32SDB	27	15	15	16.1	50.1	129	135	154	179	204	160	185	210	52	65.1	36	35.5	6.5	27.5	3
QARA40SDB	27	15	15	20.1	52.1	153	137	178	203	228	162	187	212	56	69.1	40	40	6.5	32.5	3

QSM



Series code	Cushion type	Type code	Bore	X	Stroke	–	Adjustable stroke	–	Magnet code	–	Tail type	–	Mounting type	–	Thread type
QSM	C: Air cushion Blank: Rubber cushion	Blank: Basic type D: Double –shaft type J: Double –shaft,adjustable stroke type SA: Single acting spring extend SB: Single acting spring return	20 25 32 40		25 50 75 …		10 20 30 40 50 75 100		Blank: No magnet S: with Magnet		Blank: Swiveling tail U: Flat tail CM: Round tail		Blank: No bracket LB FA SDB IJ YJ		Blank: G P: PT T: NPT

SPECIFICATION

Bore size(mm)		20	25	32	40
Acting type		Double Acting/Single Acting			
Working medium		Clean Air(40 μ m filteration)			
		0.1~1.0(Double Acting) / 0.2~1.0(Single Acting)			
Working pressure	PSI	14.5~145		29~145	
	Bar	1~10 (Double Acting) /		2~10 (Single Acting)	
	Mpa	0.1~1.0		0.2~1.0	
Guaranteed pressure		215PSI / 15Bar / 1.5Mpa			
Working temperature		-20~80℃ / -5~176℉(No freezing)			
Speed range (mm/s)		50~800			
Cushion type		Bumper			
Barrel material		Stainless steel			
Mounting type		LB FA SDB IJ YJ			
Air Inlet		G1/8❶			G1/4 ❶

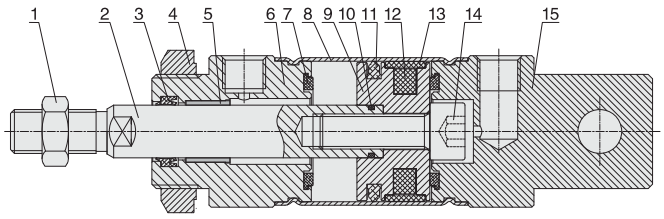
❶ NPT、PT port size is optional.

STROKE

Bore (mm)		Standard stroke (mm)	Max. stroke (mm)
Double Acting	20	10 15 20 25 30 40 50 60 75 80 100 125 150 160 175 200 250 300 400 500	600
	25~40	10 15 20 25 30 40 50 60 75 80 100 125 150 160 175 200 250 300 400 500 600	700
Single Acting	20	10 15 20 25 30 40 50 60 75 80 100 125 150	150
	25~40	10 15 20 25 30 40 50 60 75 80 100 125 150	150

QSM Series Stainless Steel Mini Cylinder

◎ Internal structure

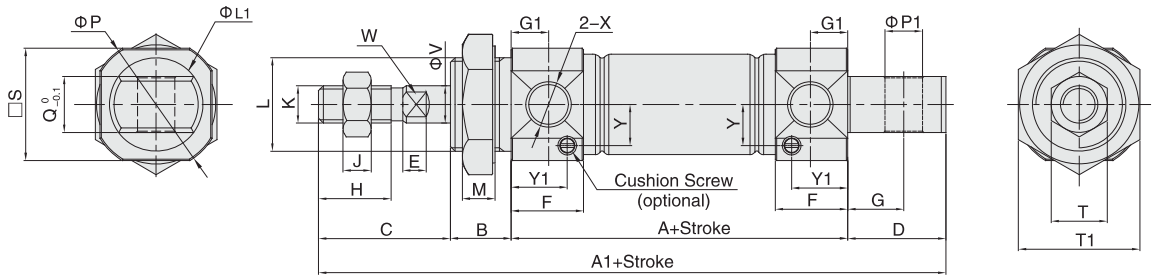


No.	Part name	Material
1	Nut	Carbon Steel
2	Piston rod	S45C hard chrome carbon steel
3	Piston rod seal	NBR
4	Nut	Carbon Steel
5	Self lubricating Bearing	Bronze Powder
6	Head cover	Aluminum Alloy
7	Anti–bump cushion	TPU
8	Barrel	Stainless steel
9	Piston	Aluminum Alloy
10	O–ring	NBR
11	Piston seal	NBR
12	Magnet	Plastic
13	Wear ring	PTFE
14	Hexagon screw	Carbon steel
15	Rear cover	Aluminum Alloy

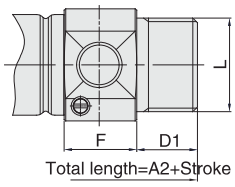
◎Main Dimensions

QSM

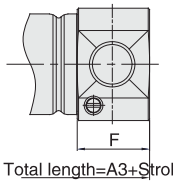
CA type



CM type



U type



(mm)

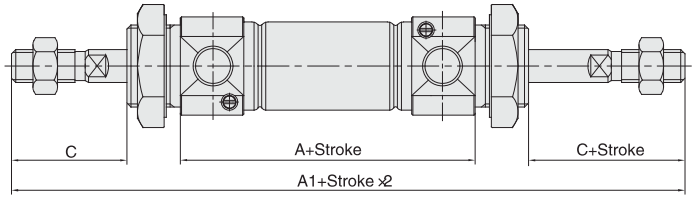
Bore/Sign	V	W	Y	Y1
20	8	6	8.8	12
25	10	8	10	11.5
32	12	10	12	11
40	16	14	16	18

Bore/Sign	A	A1	A2	A3	B	C	D	D1	E	F	G	G1	H	J	K	L	L1	M	P	P1	Q	S	T	T1	X
20	62	124	116	103	13	28	21	13	5	15.5	12	8	15.5	6	M8X1.25	M20X1.5	20	7	28	8	12	24	12	26	1/8"
25	62	128	120	107	13	32	21	13	5.5	15	12	8	19.5	6	M10X1.25	M26X1.5	22	8	33.5	8	12	30	17	32	1/8"
32	64	136	122	109	13	32	27	13	5.5	15	15	8	19.5	6	M10X1.25	M26X1.5	26	8	37.5	10	20	34.5	17	32	1/8"
40	88	165	154	138	16	34	27	16	7	22	15	11	21	8	M14X1.5	M32X2.0	32	9	46.5	10	20	42.5	19	41	1/4"

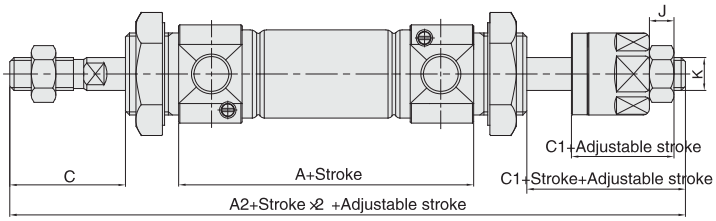
Note: With magnet and without magnet, the dimensions are same.

◎Main Dimensions

QSMD Φ20－Φ40



QSMJ Φ20－Φ40



Bore\Sign	A	A1	A2	C	C1	J	K
20	62	144	141	28	25	6	M8X1.25
25	62	152	147	32	27	6	M10X1.25
32	64	154	149	32	27	6	M10X1.25
40	88	188	183	34	29	8	M14X1.5

Note: Unlabeled the same size as standard type.

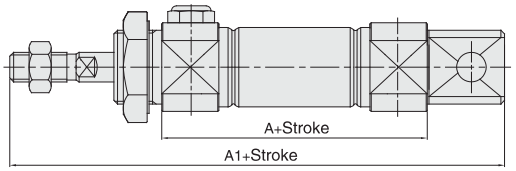
QSMSB Φ20－Φ40

QSMSB

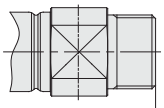
QSMSA Φ20－Φ40

QSMSA

CA Type

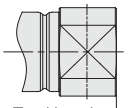


CM Type



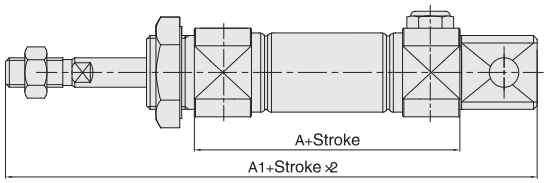
Total length=A2+Stroke

U Type

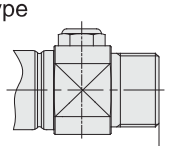


Total length=A3+Stroke

CA Type

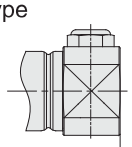


CM Type



Total length=A2+Stroke × 2

U Type



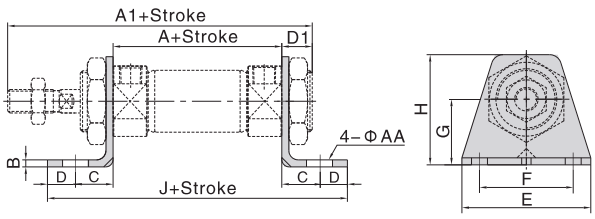
Total length=A3+Stroke ×2

Bore\Sign	A			A1			A2			A3		
	0~50	51~100	101~150	0~50	51~100	101~150	0~50	51~100	101~150	0~50	51~100	101~150
20	87	112	137	149	174	199	141	166	191	128	153	178
25	87	112	137	153	178	203	145	170	195	132	157	182
32	89	114	139	161	186	211	147	172	197	134	159	184
40	113	138	163	190	215	240	179	204	229	163	188	213

Note: Unlabeled the same size as standard type.

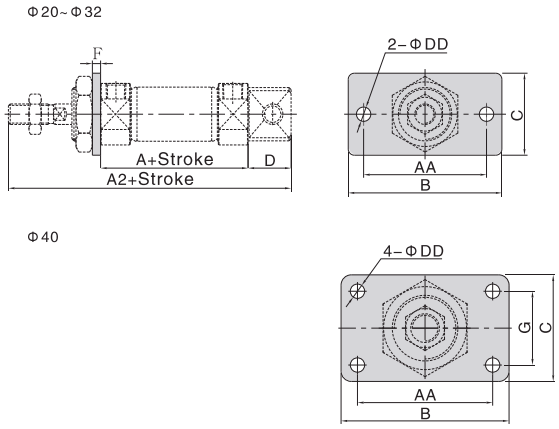
◎ Accessory dimensions

LB Accessory



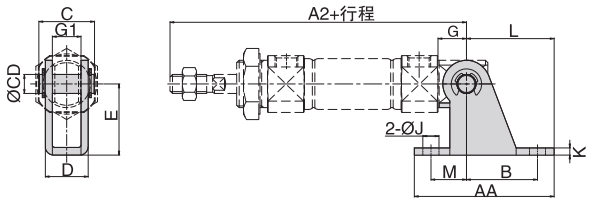
Bore\Sign	A	A1	AA	B	C	D	D1	E	F	G	H	J
20	62	116	7	3	20	8	13	55	40	25	40	118
25	62	120	7	3	20	8	13	55	40	28	47	118
32	64	122	7	3	20	8	13	55	40	28	47	120
40	88	154	7	3	23	10	16	75	55	30	54	154

FA Accessory



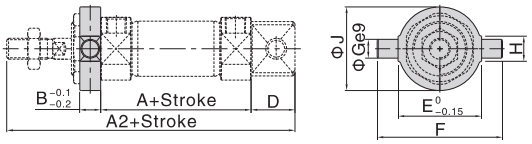
Bore\Sign	A	A2	AA	B	C	D	DD	F	G
20	62	124	60	75	34	21	7	4	–
25	62	128	60	75	40	21	7	4	–
32	64	136	60	75	40	27	7	4	–
40	88	165	66	82	52	27	7	5	36

SDB Accessory



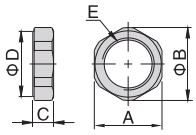
Bore\Sign	A2	AA	B	D	E	G	G1	CD	K	J	L	M
20	115	59	30	18.1	30	12	12.1	8	3	6.8	37	15
25	119	59	30	18.1	30	12	12.1	8	3	6.8	37	15
32	124	75	40	28.1	40	15	20.1	10	4	9	50	15
40	153	75	40	28.1	40	15	20.1	10	4	9	50	15

TC Accessory



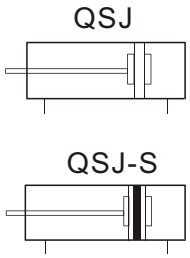
Bore\Sign	A	A2	B	D	E	F	G	H	J
20	62	124	10	21	32	52	8	12	32
25	62	128	10	21	40	60	9	12	40
32	64	136	10	27	40	60	9	12	40
40	88	165	11	27	53	77		14	53

TC Locking nut



Bore\Sign	A	B	C	D	E
20	26	28	7	25	M20×1.5
25	32	34	8	31	M26×1.5
32	32	34	8	31	M26×1.5
40	41	45	9	40	M32×2.0

QSJ



Series No.	Type No.	Bore	X	Stroke	–	Magnet No.	–	Tail Type
QSJ	Blank: Basic type D: Double shaft type J: Double shaft and adjustable stroke type	6 10 12 16		10 15 20 ...		Blank: No magnet S: With magnet		U: Flat tail (Radial intake type) CB: Double U–type (Radial intake type) CM: Round tail (Radial intake type) R: Axial intake type (Note: Only U or R optional for Ø6)

SPECIFICATION

Bore size(mm)		6	10	12	16
Acting type		Double Acting			
Working medium		Clean Air(40 μ m filteration)			
Working pressure	PSI	14.5~145			
	Bar	1~10			
	Mpa	0.1~1.0			
Guaranteed pressure		215PSI / 15Bar / 1.5Mpa			
Working temperature		- 20~80℃ / - 5~176℉(No freezing)			
Speed range (mm/s)		50~750			
Cushion type		Rubber cushion on both ends			
Air Inlet		M5x0.8			

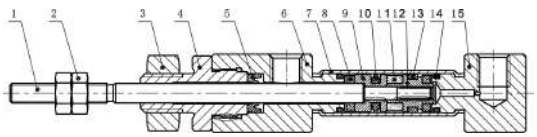
STROKE

Bore (mm)		Standard Stroke (mm)	Max. Stroke (mm)
Double Acting	6	10 15 20 25 30 40 50 60	60
	10	10 15 20 25 30 40 50 60 75 80 100 125 150	150
	12	10 15 20 25 30 40 50 60 75 80 100 125 150 160 175 200	200
	16	10 15 20 25 30 40 50 60 75 80 100 125 150 160 175 200	200

QSJ Series Stainless Steel Mini Cylinder

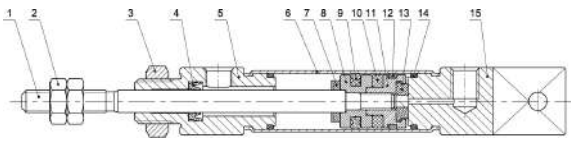
◎Internal Structure

QSJ Ø6



No.	Part name	Material
1	Piston rod	S45C hard chrome carbon steel
2	Nut	Carbon steel
3	Nut	Carbon steel
4	Piston seal	NBR
5	Head cover	Aluminum alloy
6	Barrel	Stainless steel
7	Anti-bump cushion	TPU
8	Piston	Ø10:SUS304 Ø16: Aluminum alloy
9	Piston seal	NBR
10	Magnet	RbFeB
11	Magnet Base	Ø10:SUS304 Ø16: Aluminum alloy
12	Wear ring	PTFE
13	Anti-bump cushion	TPU
14	O-ring	NBR
15	Rear cover	Aluminum alloy

QSJ Ø10、Ø12、Ø16

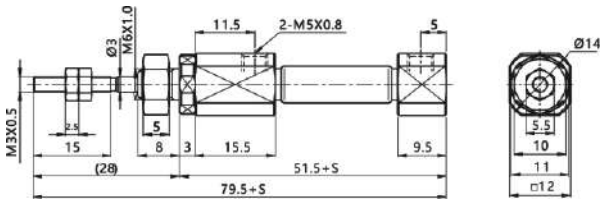


No.	Part name	Material
1	Piston rod	S45C hard chrome carbon steel
2	Nut	Carbon steel
3	Nut	Carbon steel
4	Head cover dust ring	NBR
5	Head cover	Aluminum alloy
6	Barrel	Stainless steel
7	Anti-bump cushion	TPU
8	Piston	Ø10:SUS304 Ø16: Aluminum alloy
9	Piston seal	NBR
10	Magnet	RbFeB
11	Magnet Base	Ø10:SUS304 Ø16: Aluminum alloy
12	Wear ring	PTFE
13	Anti-bump cushion	TPU
14	O-ring	NBR
15	Rear cover	Aluminum alloy

◎ Main Dimension

QSJ Φ6

U Type



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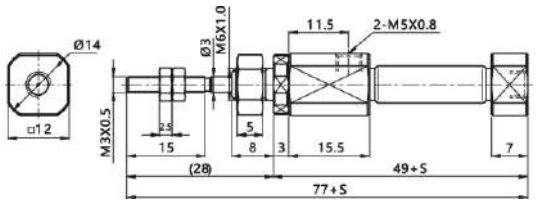
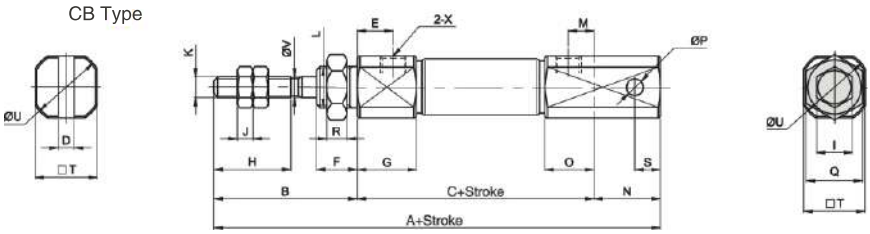


QSJ Φ10 Φ12 Φ16

CB Type



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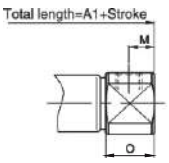
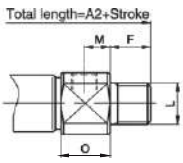
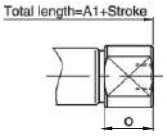


CM Type

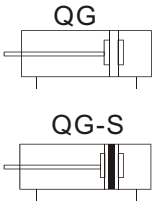


R Type



Bore\Sign	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	X
10	87	74	82	28	46	3.2	7	8	11.5	15	7	3	M4X0.7	M8X1.0	5	13	9.5	3.3	11	4	5	12	14	4	M5X0.8
12	92	74	82	28	46	6.5	7.5	8	12	15	8	4	M5X0.8	M10X1.0	5	18	9.5	5	14	4	8	15	17	5	M5X0.8
16	93	75	83	28	47	6.5	7.5	8	12.3	15	8	4	M5X0.8	M10X1.0	5	18	9.5	5	14	4	8	18.3	19.7	5	M5X0.8

QG



Series No	Type No	Bore	X Stroke	– Magnet No	– Piston Rod thread type	– Thread Type
QG	Blank:Basic type D：Double shaft type C：Air cushion type	20 25 32 40 50 63	20 50 75 100	Blank：no magnet S：with magnet	Blank：Female thread M：Male thread N：No thread	空白：G P：PT T：NPT

SPECIFICATION

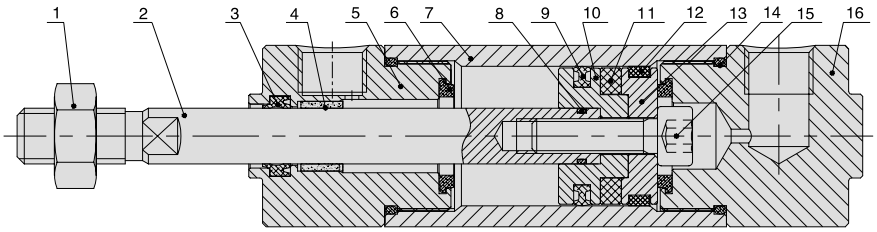
Bore size(mm)		20	25	32	40	50	63
Acting type		Double acting					
Working medium		Clean air(25μm filteration)					
Working pressure	PSI	14.5~145 (Double Acting) / 29~145 (Single Acting)					
	Bar	1~10 (Double Acting) / 2~10 (Single Acting)					
	Mpa	0.1~1.0 (Double Acting) / 0.2~1.0 (Single Acting)					
Guaranteed pressure		215PSI / 15Bar / 1.5Mpa					
Working temperature		－20~80℃ / －5~176℉(No freezing)					
Speed range(mm/s)		50~1000					
Stroke range		$^{+1.4}_{0}$					
Cushion type		Anti–bump cushion （Currently developed only 63mm bore）					
Air Inlet		M5	G1/8❶			G1/4❶	
Kinetic energy J	male thread on piston rod	0.28	0.41	0.66	1.20	2.00	3.40
	female thread on piston rod	0.11	0.18	0.29	0.52	0.91	1.54

❶ NPT、PT port size is optional.

STROKE

Bore(mm)		Standard stroke (mm)	Long stroke (mm)
Double acting	20	25 50 75 100 125 150 200	201~1200
	25	25 50 75 100 125 150 175 200 250 300	301~1200
	32	25 50 75 100 125 150 175 200 250 300	301~1500
	40	25 50 75 100 125 150 175 200 250 300	301~1500
	50	25 50 75 100 125 150 175 200 250 300	301~1500
	63	25 50 75 100 125 150 175 200 250 300	301~1500

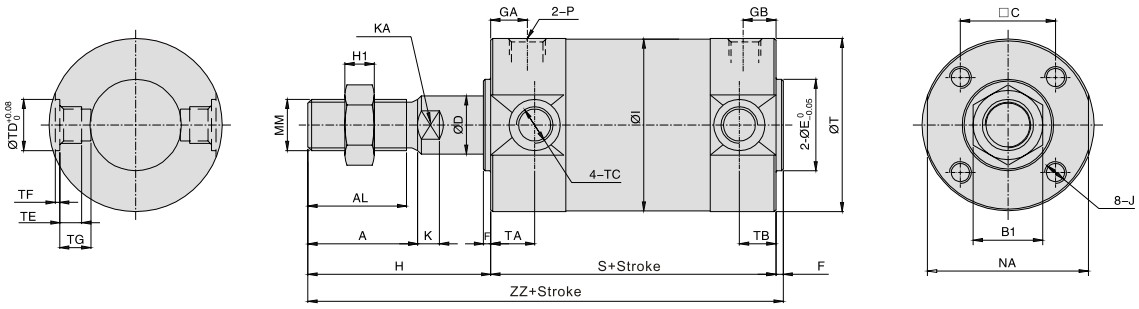
◎ Internal structure



No	Part name	Material	No	Part name	Material
1	Nut	Carbon steel(Nickel plating)	9	Piston seal	NBR(Japanese brand)
2	Piston rod	Stainless steel(EG20、25)	10	Piston	Aluminum alloy
		Carbon steel(EG32、40、50、63)	11	Magnet	RbFeB(EG20、25)
3	Piston rod seal	TPU			Plastic(EG32、40、50、63)
4	Self-lubricating bearing	Compound material	12	Wear ring	PTFE
5	Head cover	Aluminum alloy	13	Magnet base	Aluminum alloy
6	Anti-bump cushion	TPU	14	O-ring	NBR
7	Barrel	Aluminum alloy	15	Hex cylinder head screw	Carbon steel(Black)
8	O-ring	NBR	16	Rear cover	Aluminum alloy

◎Main Dimensions

QG

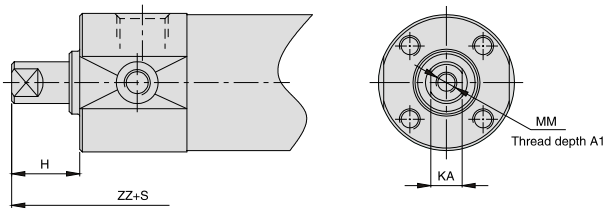


Bore	Standard Stoke Range	Long Stoke Range	A	AL	B1	C	D	E	F	H	I	J	K	KA	MM	NA
20	≤200	201~1200	18	15.5	12	14	8	12	2	35	26	M4X0.7depth7	5.5	6	M8X1.25	24
25	≤300	301~1200	22	19.5	17	16.5	10	14	2	40	31	M5X0.8depth7.5	6	8	M10X1.25	29
32	≤300	301~1500	22	19.5	17	20	12	18	2	40	38	M5X0.8depth8	6	10	M10X1.25	35.5
40	≤300	301~1500	30	27	19	26	16	25	2	50	47	M6X1.0depth12	6.5	14	M14X1.5	44
50	≤300	301~1500	35	32	27	32	20	30	2	58	58	M8X1.25depth16	7.5	18	M18X1.5	55
63	≤300	301~1500	35	32	27	38	20	32	2	58	72	M10X1.5depth16	7.5	18	M18X1.5	69

Bore	Standard Stoke Range	Long Stoke Range	P	S	GA	GB	T	H1	TA	TB	ZZ	TD	TF	TE	TG	TC
20	≤200	201~1200	M5X0.8	69(77)	13.5	13.5	26.5	6	11	11	106(114)	8	0.5	4	5.5	M5X0.8
25	≤300	301~1200	1/8"	69(77)	10	10	31.5	6	11	11	111(119)	10	1	5	6.5	M6X0.75
32	≤300	301~1500	1/8"	71(79)	10.5	9.5	38.5	6	11	10	113(121)	12	1	5.5	7.5	M8X1.0
40	≤300	301~1500	1/8"	78(87)	11.5	10	47.5	8	12	10	130(139)	14	1.25	6	8.5	M10X1.25
50	≤300	301~1500	1/4"	90(102)	13	13	58.5	11	13	12	150(162)	16	2	7.5	10	M12X1.25
63	≤300	301~1500	1/4"	90(102)	14	12	72.5	11	13	12	150(162)	18	3	11.5	14.5	M14X1.5

Note:1、With magnet and without magnet,the dimensions are same.
2、Within the "()" size is the size of long stroke；
3、G 、PT 、NPT port size is optional.

Dimension of Female thread



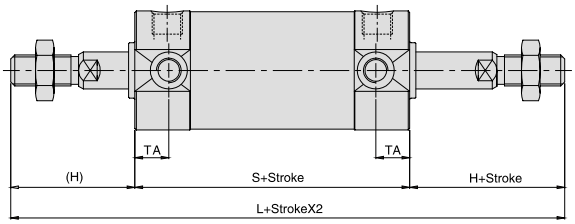
(mm)

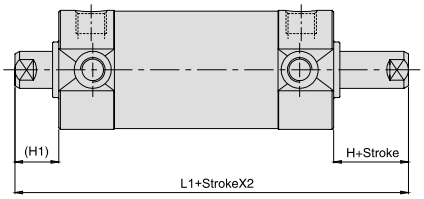
Bore/Sign	A1	H	MM	ZZ	KA
20	8	13	M4X0.7	84(92)	6
25	8	14	M5X0.8	85(93)	8
32	12	14	M6X1.0	87(95)	10
40	13	15	M8X1.25	95(104)	14
50	18	16	M10X1.5	108(120)	18
63	18	16	M10X1.5	108(120)	18

Note:1、This figure is dimension of female thread；
2、Other dimensions are same as male thread.

Dimension of Double shaft

QGD



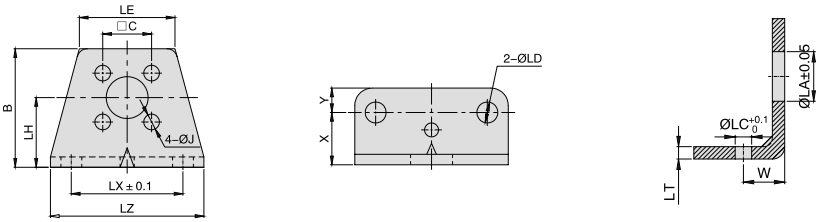


(mm)

Bore/Sign	S	H	H1	L	L1	TA
20	77	35	13	147	103	11
25	77	40	14	157	105	11
32	79	40	14	159	107	11
40	87	50	15	187	117	12
50	102	58	16	218	134	13
63	102	58	16	218	134	13

Note:Unlabeled the same size as standard type.

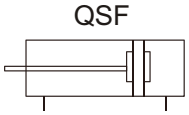
Dimension of Accessories

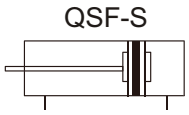


Bore/Sign	B	C	X	Y	J	W	LH	LX	LZ	LD	LA	LC	LT	LE	Screw
QG20LB	34	14	15	7	4.5	10	20	32	44	6	12.1	4	3	27.5	GSA4X8N
QG25LB	38.5	16.5	15	7	5.5	10	22	36	49	6	14.1	4	3	30	GSA5X10N
QG32LB	45	20	16	8	5.5	10	25	44	58	7	18.1	4	3	35.5	GSA5X10N
QG40LB	54.5	26	16.5	8.5	6.5	10	30	54	71	7	25.1	4	3	44	GSA6X12N
QG50LB	70.5	32	22	11	8.5	17.5	40	66	86	10	30.1	5	4.5	51	GSA8X20N
QG63LB	82.5	38	22	13	10	17.5	45	82	106	12	32.1	5	4.5	64.5	GSA10X20N

QSF Series ISO 21287 Compact Cylinder

QSF





Series No	Type No	Bore	X	Stroke	–	Adjustable Stroke	–	Magnet No	–	Piston Rod Thread Type	–	Thread Type
QSF	Blank: Basic type D: Double shaft type J: Double shaft and adjustable stroke type SA: Single acting spring extend SB: Single acting spring return	20 25 32 … 100		5 10 15 20 …		10 20 30 40 50 75 100		Blank: No magnet S: With magnet		Blank: Female thread M: Male thread N: No thread		Blank: G P: PT T: NPT

SPECIFICATION

Bore Size(mm)		20	25	32	40	50	63	80	100
Acting type		Double Acting/Single Acting							
Working medium		Clean Air(40 μ m filteration)							
Working pressure	PSI	14.5~145 (Double Acting) / 29~145 (Single Acting)							
	Bar	1~10 (Double Acting) / 2~10 (Single Acting)							
	Mpa	0.1~1.0 (Double Acting) / 0.2~1.0 (Single Acting)							
Guaranteed pressure		215PSI / 15Bar/ 1.5Mpa							
Working temperature		-20~80℃ / -5~176℉(No freezing)							
Speed range(mm/s)		30~500							
Cushion type		Rubber cushion							
Air Inlet		M5X0.8		G1/8❶					

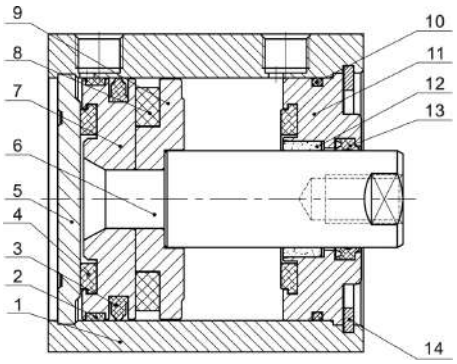
❶NPT 、PT port size is optional.

STROKE

Bore (mm)		Standard Stroke (mm)	Max. Stroke (mm)
Double Acting	20/25	5 10 15 20 25 30 35 40 45 50 60 80 100 125 150	150
	32~63	5 10 15 20 25 30 35 40 45 50 60 80 100 125 150 175 200	200
Single Acting	80/100	10 15 20 25 30 35 40 45 50 60 80 100 125 150 175 200	200
	20~63	5 10 15 20 25	25

Note:The dimensions of non–std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder.
e.g. 27mm stroke cylinder has the same dimensions of 30 std. stroke cylinder.
When ordering stroke is larger than the maximum stroke, please contact us.

◎Internal Structure

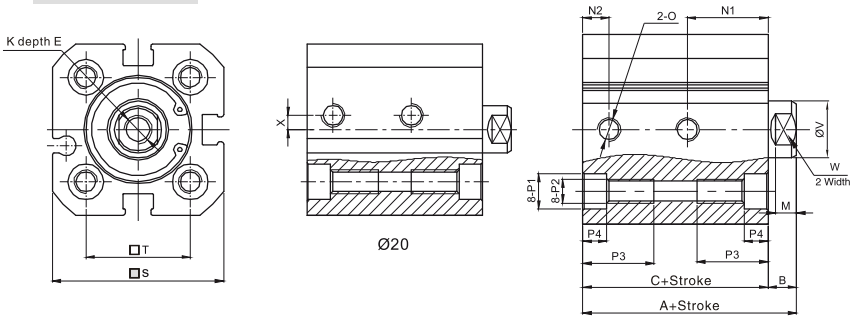


No·	Part Name	20	25	32	40	50	63	80	100
1	Barrel	Aluminum alloy							
2	Wear ring	No			PTEE				
3	Piston seal	NBR							
4	Anti–bump cushion	TPU				NBR			
5	Rear cover	Aluminum alloy							
6	Piston rod	Stainless steel		Carbon steel					
7	Piston	Aluminum alloy							
8	Magnet	RbFeB			Plastic				
9	Magnet base	Aluminum alloy							
10	O–ring	NBR							
11	Head cover	Aluminum alloy							
12	Bearing	No			Bronze powder				
13	Piston rod seal	TPU							
14	C type retainer ring	Spring steel							

◎ Main Dimension

QSF

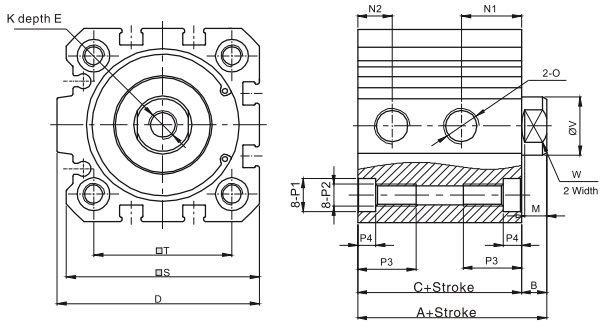
Φ20、Φ25



Bore\Sign	A	C	N1	N2	B	E	M	K	O
20	43	37	15	5.5	6	10	4	M6X1.0	M5X0.8
25	45	39	17	5.5	6	10	4.5	M6X1.0	M5X0.8

Bore\Sign	P1	P2	P3	P4	S	T	X	V	W
20	Φ7.3	M5X0.8	15	5	36	22	3	10	8
25	Φ7.3	M5X0.8	15	5	40	26	–	12	10

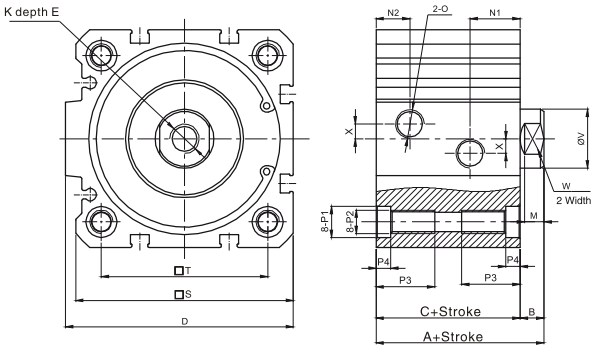
Φ32、Φ40



Bore\Sign	A	C	N1	N2	B	D	E	M	K
32	51	44	15	8	7	48	12	6	M8X1.25
40	52	45	16.5	9.5	7	55.5	12	6	M8X1.25

Bore\Sign	O	P1	P2	P3	P4	S	T	V	W
32	1/8"	Φ9	M6X1.0	16	5	45.5	32.5	16	14
40	1/8"	Φ9	M6X1.0	16	5	53	38	16	14

Φ50~Φ100



Bore\Sign	A	C	N1	N2	B	D	E	M	K
50	53	45	16	10.5	8	65.5	16	6.5	M10X1.5
63	57	49	17	11.5	8	77.5	16	6.5	M10X1.5
80	64	54	17	15	10	95.5	21	8.5	M12X1.75
100	77	67	24.5	19	10	113.5	21	8	M12X1.75

Bore\Sign	O	P1	P2	P3	P4	S	T	X	V	W
50	1/8"	Ø10.5	M8X1.25	20	5	63	46.5	4	20	17
63	1/8"	Ø10.5	M8X1.25	20	5	74	56.5	5	20	17
80	1/8"	Ø13.7	M10X1.5	25	5	92	72	10	25	22
100	1/8"	Ø13.7	M10X1.5	25	5	109	89	14	32	27

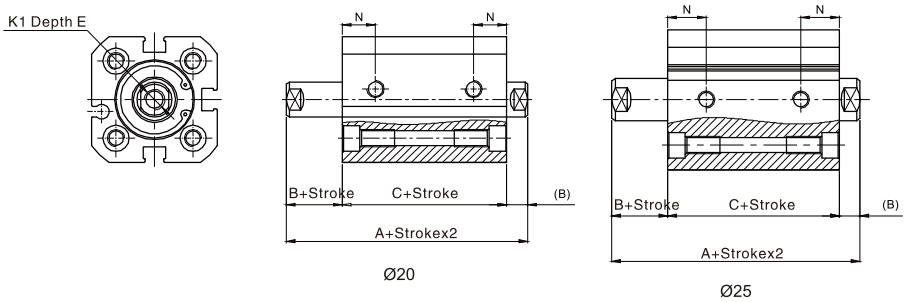
Note: With magnet and no magnet,the dimensions are same.

QSF Series ISO 21287 Compact Cylinder

◎ Main Dimension

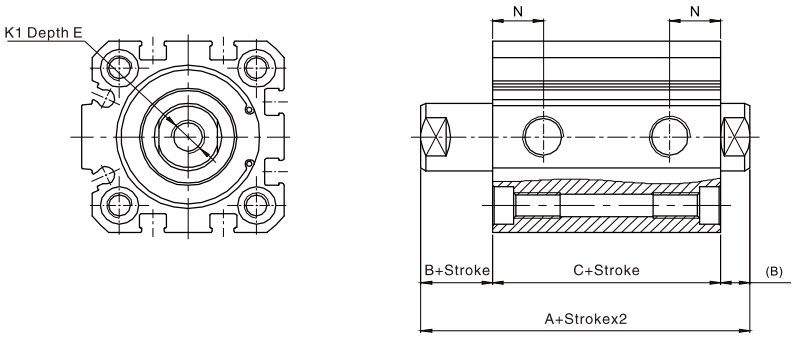
QSFD

Φ20、Φ25



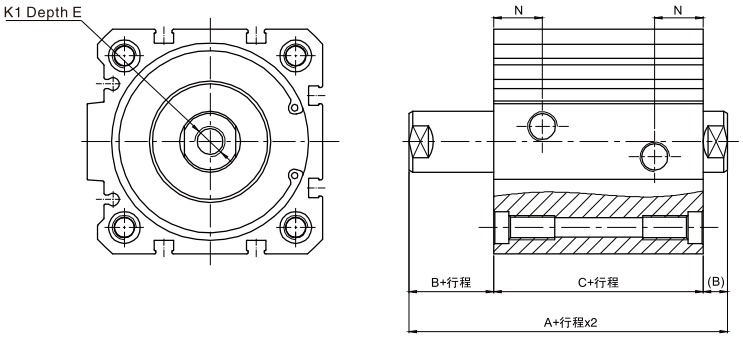
Bore\Sign	A	B	C	N	K1	E
20	49	6	37	9.5	M6X1.0	10
25	51	6	39	11	M6X1.0	10

Φ32、Φ40



Bore\Sign	A	B	C	N	K1	E
32	58	7	44	12	M8X1.25	12
40	59	7	45	13	M8X1.25	12

Φ50~Φ100



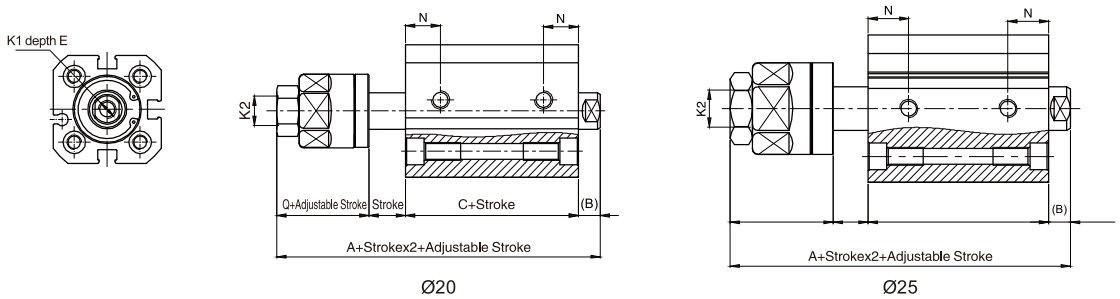
Bore\Sign	A	B	C	N	K1	E
50	61	8	45	13.5	M10X1.5	12(5≤S<15)/16(S≥15)
63	65	8	49	16	M10X1.5	12(5≤S<15)/16(S≥15)
80	74	10	54	16	M12X1.75	14(10≤S<25)/21(S≥25)
100	87	10	67	20.5	M12X1.75	21

Note:Not marked dimension,the same as standard type.Parts of double shaft male thread type,please refer to standard dimension.

◎ Main Dimension

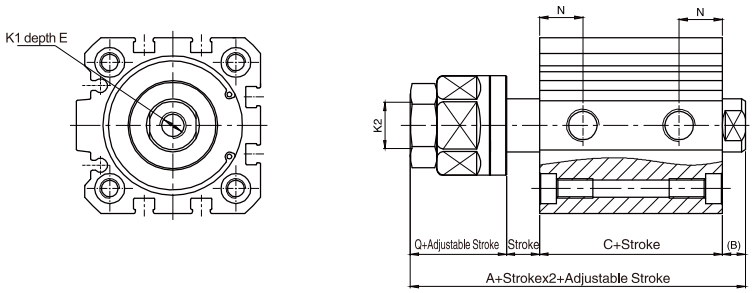
QSFJ

Φ20、Φ25



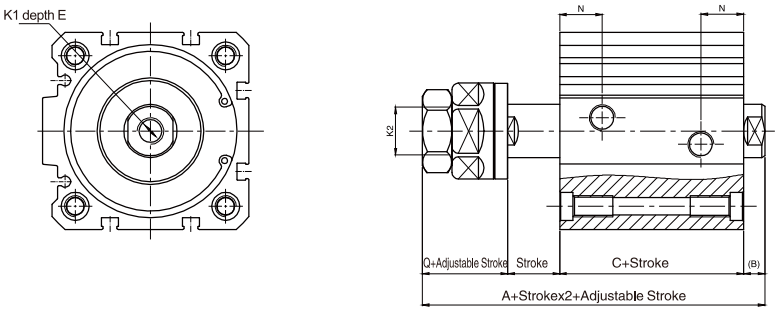
Bore\Sign	A	B	C	Q	N	K1	E	K2
20	68	6	37	25	9.5	M6X1.0	10	M8X1.25
25	72.5	6	39	28	11	M6X1.0	10	M10X1.25

Φ32、Φ40



Bore\Sign	A	B	C	Q	N	K1	E	K2
32	79	7	44	30	12	M8X1.25	12	M14X1.5
40	81	7	45	29	13	M8X1.25	12	M14X1.5

Φ50~Φ100



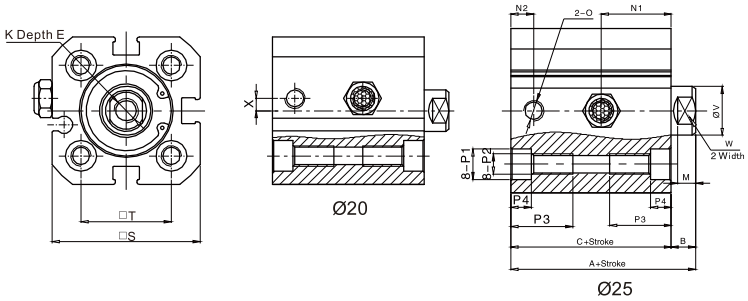
Bore\Sign	A	B	C	Q	N	K1	E	K2
50	85	8	45	32	13.5	M10X1.5	12(5≤S<15)/16(S≥15)	M18X1.5
63	88.5	8	49	32	16	M10X1.5	12(5≤S<15)/16(S≥15)	M18X1.5
80	101	10	54	37	16	M12X1.75	14(10≤S<25)/21(S≥25)	M22X1.5
100	113.5	10	67	37	20.5	M12X1.75	21	M26X1.5

Note:Not marked dimension,the same as standard type.Parts of double shaft male thread type,please refer to standard dimension.

◎ Main Dimension

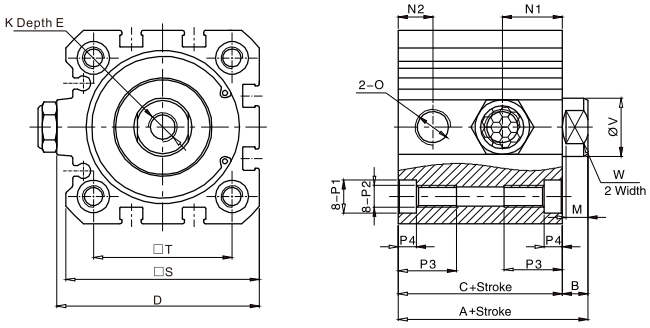
QSFSB

Φ20、Φ25



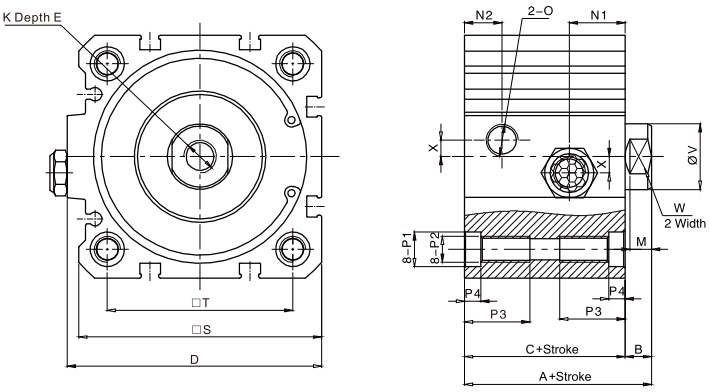
Bore\Sign	A	C	N1	N2	B	E	M	K	O	P1	P2	P3	P4	S	T	X	V	W
20	43	37	15	5.5	6	10	4	M6X1.0	M5X0.8	Φ7.3	M5X0.8	15	5	36	22	3	10	8
25	45	39	17	5.5	6	10	4.5	M6X1.0	M5X0.8	Φ7.3	M5X0.8	15	5	40	26	–	12	10

Φ32、Φ40



Bore\Sign	A	C	N1	N2	B	D	E	M	K	O	P1	P2	P3	P4	S	T	V	W
32	51	44	15	8	7	48	12	6	M8X1.25	1/8"	Φ9	M6X1.0	16	5	45.5	32.5	16	14
40	52	45	16.5	9.5	7	55.5	12	6	M8X1.25	1/8"	Φ9	M6X1.0	16	5	53	38	16	14

Φ50~Φ100



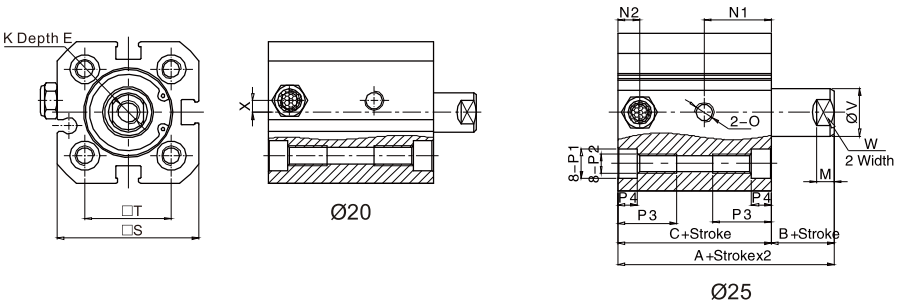
Bore\Sign	A	C	N1	N2	B	D	E	M	K	O	P1	P2	P3	P4	S	T	X	V	W
50	53	45	16	10.5	8	65.5	16	6.5	M10X1.5	1/8"	Φ10.5	M8X1.25	20	5	63	46.5	4	20	17
63	57	49	17	11.5	8	77.5	16	6.5	M10X1.5	1/8"	Φ10.5	M8X1.25	20	5	74	56.5	5	20	17

Note：With magnet and without magnet, the dimensions are same.

◎ Main Dimension

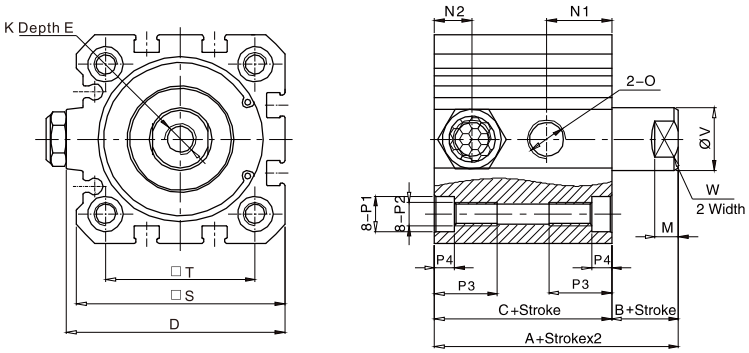
QSFSA

Φ20、Φ25



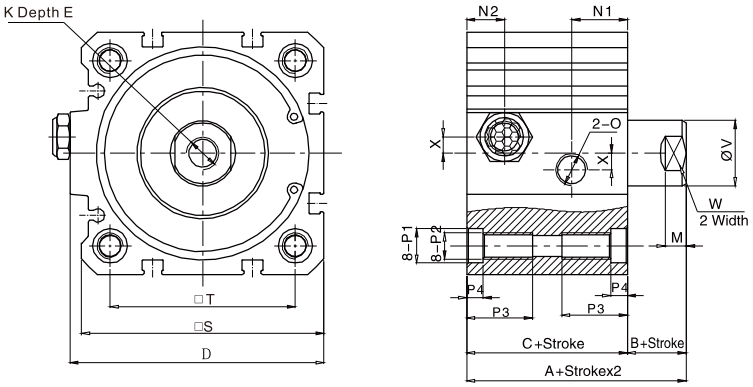
Bore\Sign	A	C	N1	N2	B	E	M	K	O	P1	P2	P3	P4	S	T	X	V	W
20	43	37	15	5.5	6	10	4	M6X1.0	M5X0.8	Φ7.3	M5X0.8	15	5	36	22	3	10	8
25	45	39	12	5.5	6	10	4.5	M6X1.0	M5X0.8	Φ7.3	M5X0.8	15	5	40	26	–	12	10

Φ32、Φ40



Bore\Sign	A	C	N1	N2	B	D	E	M	K	O	P1	P2	P3	P4	S	T	V	W
32	51	44	15	8	7	48	12	6	M8X1.25	1/8"	Φ9	M6X1.0	16	5	45.5	32.5	16	14
40	52	45	16.5	9.5	7	55.5	12	6	M8X1.25	1/8"	Φ9	M6X1.0	16	5	53	38	16	14

Φ50~Φ100



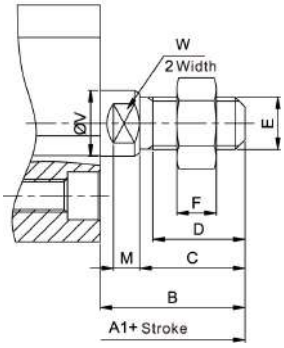
Bore\Sign	A	C	N1	N2	B	D	E	M	K	O	P1	P2	P3	P4	S	T	X	V	W
50	53	45	16	10.5	8	65.5	16	6.5	M10X1.5	1/8"	Φ10.5	M8X1.25	20	5	63	46.5	4	20	17
63	57	49	17	11.5	8	77.5	16	6.5	M10X1.5	1/8"	Φ10.5	M8X1.25	20	5	74	56.5	5	20	17

Note：With magnet and without magnet, the dimensions are same.

QSF Series ISO 21287 Compact Cylinder

◎ Male Thread Dimension

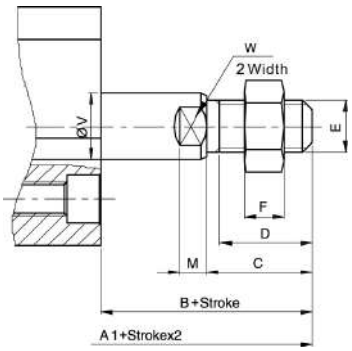
QSFD、QSFJ、QSFSB



Bore\Sign	A1	B	C	D	E	F	M	V	W
20	59	22	16	14	M8X1.25	6	4	10	8
25	61	22	16	14	M8X1.25	6	4.5	12	10
32	70	26	19	16.5	M10X1.25	6	6	16	14
40	71	26	19	16.5	M10X1.25	6	6	16	14
50	75	30	22	19.5	M12X1.25	7	6.5	20	17
63	79	30	22	19.5	M12X1.25	7	6.5	20	17
80	92	38	28	25	M16X1.5	8	8.5	25	22
100	105	38	28	25	M16X1.5	8	8	32	27

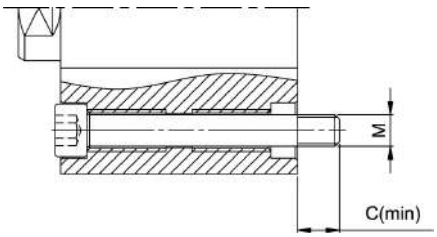
Note：For SFSB cylinder, Φ80 and Φ100 are not optional.

QSFSA



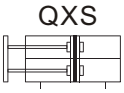
Bore\Sign	A1	B	C	D	E	F	M	V	W
20	59	22	16	14	M8X1.25	6	4	10	8
25	61	22	16	14	M8X1.25	6	4.5	12	10
32	70	26	19	16.5	M10X1.25	6	6	16	14
40	71	26	19	16.5	M10X1.25	6	6	16	14
50	75	30	22	19.5	M12X1.25	7	6.5	20	17
63	79	30	22	19.5	M12X1.25	7	6.5	20	17

◎ Installation Note



Bore\Sign	M	C
20	M4X0.7	6
25	M4X0.7	6
32	M5X0.8	7
40	M5X0.8	7
50	M6X1.0	9
63	M6X1.0	9
80	M8X1.25	12
100	M8X1.25	12

QXS



Series No	Type No	Bore	X	Stroke	–	Magnet No	–	Thread type
QXS	M: slide bearing	6 10 12 16 20 …		25 50 75 …		S : with magnet		Blank: G P : PT T : NPT

SPECIFICATION

Bore(mm)		6	10	16	20	25	32
Acting type		Double acting					
Working Medium		Clean air (40μm filteration)					
Working pressure	PSI	14.5~145					
	Bar	1~10					
	Mpa	0.1~1.0					
Guaranteed pressure		215PSI / 15Bar / 1.5Mpa					
Working temperature		-20~80℃ / -5~176℉(No freezing)					
Cushion type		Both Ends Cushion					
Structure		Double Power					
Lubrication		Not required					
Adjustable Cushion		Return Stroke 0--5mm					
Bearing		Slide Bearing type / Linear Bearing type					
No-rotating accuracy	Slide Bearing type	±0.1°	±0.15°	±0.13°	±0.11°	±0.1°	±0.08°
	Linear Bearing type	±0.1°	±0.1°	±0.07°	±0.06°	±0.05°	±0.04°
Port Size		M5x0.8				G1/8 ❶	

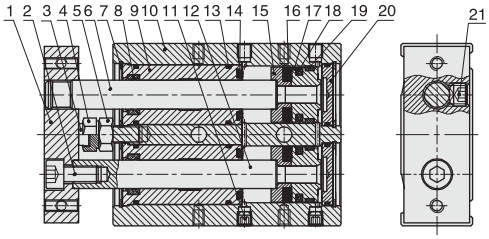
● NPT、PT port size is optional.

Bore (mm)	Standard stroke (mm)	Max. stroke (mm)
6	10 20 30 40 50	50
10	10 20 25 30 40 50 60 70 75 80 90 100	100
16~32	10 20 25 30 40 50 60 70 75 80 90 100 125 150 175 200	200

Note:The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder.
e.g. 27mm stroke cylinder has the same dimensions of 30 std. stroke cylinder.

QXS Series
Double shaft Cylinder

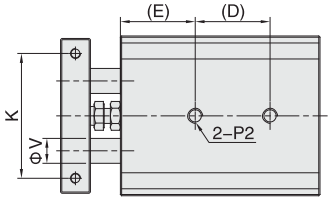
◎ Internal structure

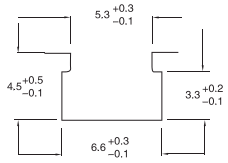


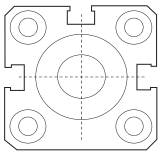
NO.	Part name	Material
1	Fixing plate	Aluminum alloy
2	Nut	Carbon steel
3	Bumper	POM
4	Adjustable nut	Carbon steel
5	Screw	Carbon steel
6	Piston rod	S45C hard chrome carbon steel
7	C clip	Spring steel
8	Wiper seal	NBR
9	Head cover	Aluminum alloy
10	Body	Aluminum alloy
11	Hex fix screw	Cu
12	Piston rod	S45C hard chrome carbon steel
13	O–ring	NBR
14	Anti–bump cushion	TPU
15	Magnet holder	Aluminum alloy
16	Magnet	Plastic
17	Piston	Aluminum alloy
18	Piston seal	NBR
19	Wear ring	PTFE
20	Rear cover	Aluminum alloy
21	Hex fix screw	Cu

◎Main Dimensions

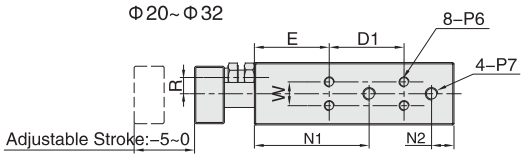
QXSM

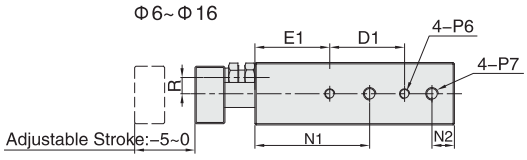


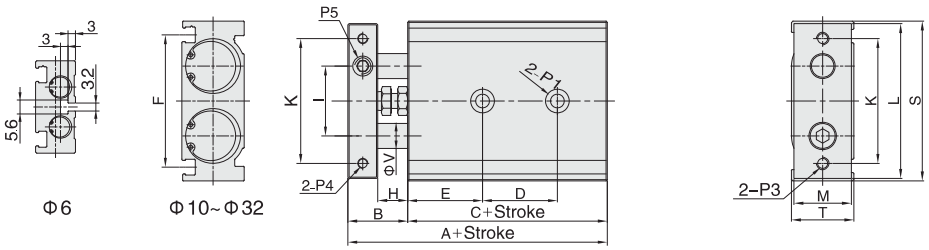




Suitable for FVBC air cylinder







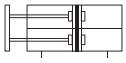
(mm)

Bore\Sign	A	B	C	D D1								E	E1	F	H	I	K	L	M	N1	N2	R
				10~25	30~50	60~80	90~100	125	150	175	200											
6	58.5	13.5	45	D=10+Stroke/2 D1=13+Stroke		–	–	–	–	–	–	13	10	25.8	8	16	28	35	14	24.5	6.5	4.5
10	72	17	55	30	40	50	60	–	–	–	–	20	20	36.5	9	20	35	44	15	30	8	3.5
16	79	19	60	25	35	45	55	65	75	145	145	30	30	47.5	9	25	45	56	18	38	8	5
20	94	24	70	30	40	60	60	80	80	100	100	30	–	53	12	28	50	62	23	46	9	6.5
25	96	24	72	30	40	60	60	80	80	100	100	30	–	64	12	35	60	78	28	43	9	9
32	112	30	82	40	50	70	70	90	90	110	110	30	–	76	14	44	75	96	36	53	10	11.5

Bore\Sign	S	T	V	W	P1	P2	P3	P4	P5	P6	P7
6	37	16	4	–	Φ6.5 Dp:3.3;Thru.hole:Φ3.4	–	M3X0.5	M3X0.5	M3X0.5	M3X0.5 Dp:4.5	M5X0.8
10	46	17	6	–	Φ6.5 Dp:3.3;Thru.hole:Φ3.4	M4X0.7 Dp:7	M4X0.7	M3X0.5	M5X0.8	M3X0.5 Dp:5	M5X0.8
16	58	20	8	–	Φ8 Dp:4.4;Thru.hole:Φ4.3	M5X0.8 Dp:8	M5X0.8	M4X0.7	M6X1.0	M4X0.7 Dp:5	M5X0.8
20	64	25	10	9.5	Φ9.5 Dp:5.3;Thru.hole:Φ5.2	M6X1.0 Dp:10	M5X0.8	M4X0.7 Dp:6	M8X1.25	M4X0.7 Dp:5.5	M5X0.8
25	80	30	12	13	Φ11 Dp:6.3;Thru.hole:Φ6.8	M8X1.25 Dp:12	M6X1.0	M5X0.8 Dp:7.5	M8X1.25	M5X0.8 Dp:7	1/8"
32	98	38	16	20	Φ11 Dp:6.3;Thru.hole:Φ6.8	M8X1.25 Dp:12	M6X1.0	M5X0.8 Dp:8	M10X1.5	M5X0.8 Dp:7	1/8"

QN

QN-S



Series No	Bore	X	Stroke	–	Magnet No	–	Thread type
QN	10 16 20 … 32		25 50 75 …		S：With Magnet		Blank：G P：PT T：NPT

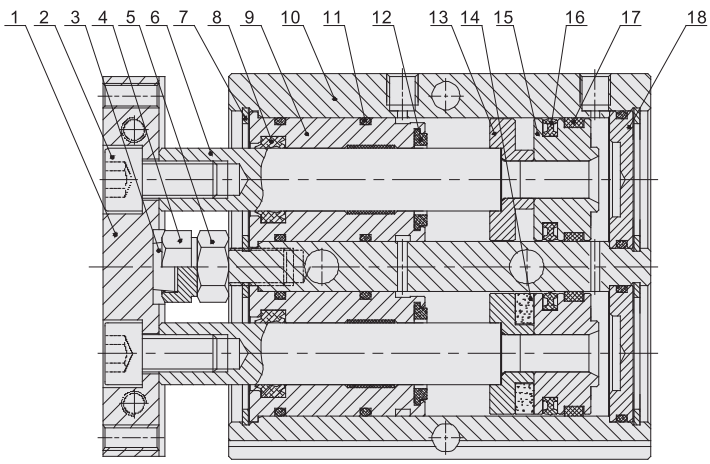
SPECIFICATION

Bore(mm)		10	16	20	25	32
Acting type		Double acting				
Working medium		Clean air (40μm filteration)				
Working pressure	PSI	14.5~145				
	Bar	1~10				
	Mpa	0.1~1.0				
Guaranteed pressure		215PSI / 15Bar / 1.5Mpa				
Working temperature		-20~80℃ / -5~176℉(No freezing)				
Speed range (mm/s)		30~500				
Adjusting stroke (mm)		-10~0				
Cushion type		Absorb shocks gasket				
No-return precision		±0.4°	±0.3°			
Port Size		M5x0.8				G 1/8 ❶

❶ NPT、PT port size is optional.

Bore (mm)	Standard stroke (mm)	Max. stroke (mm)
10	10 20 30 40 50 60 70 80 90 100	100
16~32	10 20 30 40 50 60 70 80 90 100 125 150 175 200	200

◎ Internal structure

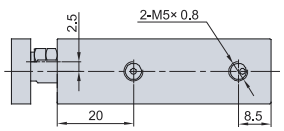


NO.	Part name	Material
1	Fixing plate	Aluminum alloy
2	Nut	Carbon steel
3	Bumper	POM
4	Adjustable nut	Carbon steel
5	Screw	Carbon steel
6	Piston rod	S45C hard chrome carbon steel
7	C clip	Spring steel
8	Wiper seal	NBR
9	Head cover	Aluminum alloy
10	Body	Aluminum alloy
11	O- ring	NBR
12	Anti-bump cushion	TPU
13	Magnet holder	Aluminum alloy
14	Magnet	Plastic
15	Piston	Aluminum alloy
16	Piston seal	NBR
17	Wear ring	PTFE
18	Rear cover	Aluminum alloy

QN Series Double Shaft Cylinder

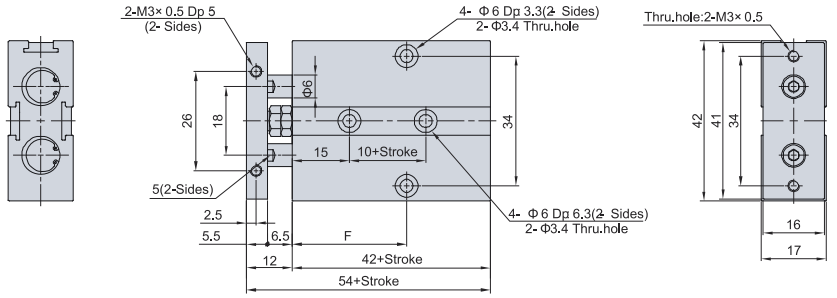
Main Dimensions

QN Φ 10

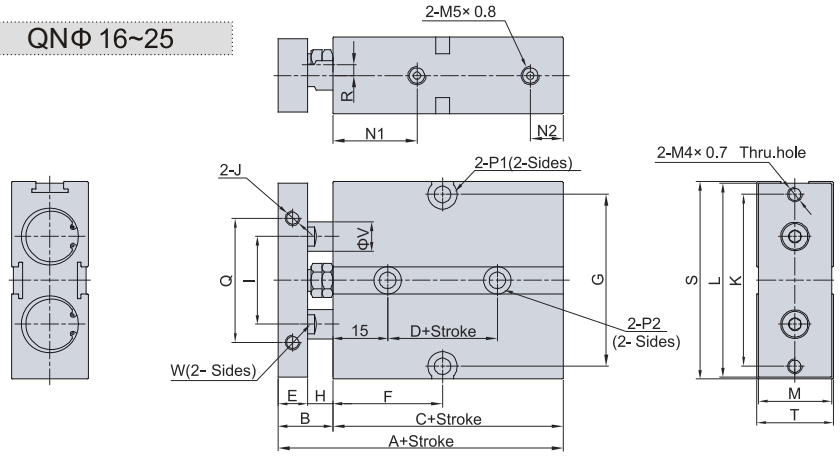


(mm)

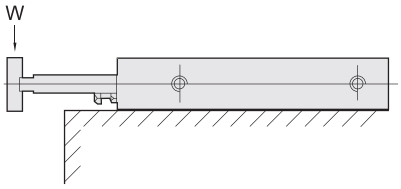
Bore\Sign	10	20	30	40	50
F	30	30	35	40	45
Bore\Sign	60	70	80	90	100
F	50	55	60	65	70

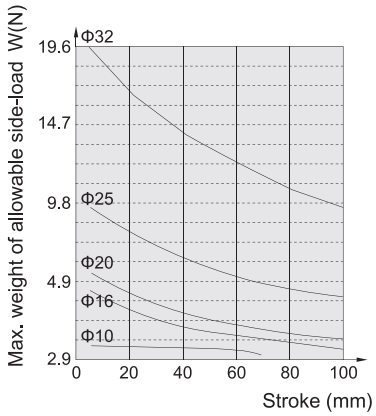


QNΦ 16~25



◎ Max. weight of allowable side-load



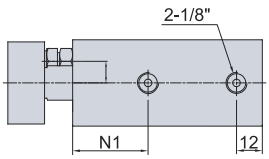


(mm)

Bore\Sign	A	B	C	D	E	F													G	H	I	K
						10	20	30	40	50	60	70	80	90	100	125	150	175	200				
16	68	15	53	20	8	30	35	40	45	50	55	60	65	70	75	87.5	100	112.5	125	47	7	24	47
20	78	20	58	20	10	35	35	40	45	50	55	60	65	70	75	87.5	100	112.5	125	55	10	28	55
25	81	19	62	30	10	40	40	45	50	55	60	65	70	75	80	92.5	105	117.5	130	66	9	34	66

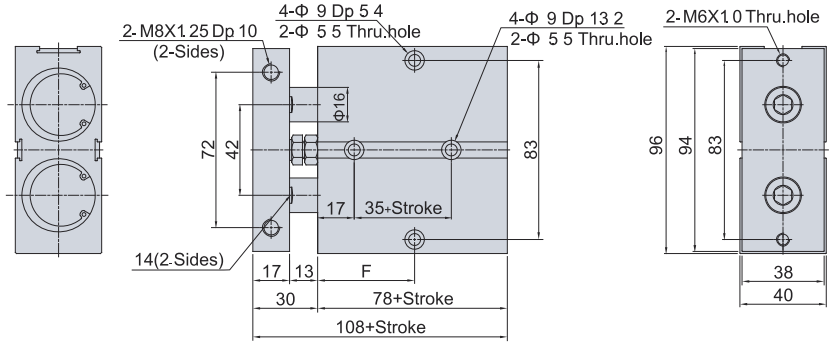
Bore\Sign	J	L	M	N1	N2	P1	P2	Q	R	S	T	V	W
16	M4×0.7 Dp 5	53	20	23	9	Φ 8 Dp 4.5 ; Thru.hole:Φ 4.5	Φ 7.5 Dp 7.3 ; Thru.hole:Φ 4.5	34	3	54	21	8	6
20	M4×0.7 Dp 5	61	24	28	9	Φ 8 Dp 4.5 ; Thru.hole:Φ 4.5	Φ 7.5 Dp 7.5 ; Thru.hole:Φ 4.5	44	3.5	62	25	10	8
25	M4×0.7 Dp 6	72	29	33	9	Φ 8 Dp 4.5 ; Thru.hole:Φ 4.5	Φ 7.5 Dp 7.5 ; Thru.hole:Φ 4.5	56	6	73	30	12	10

QN Φ 32

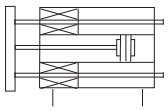


(mm)

Bore\Sign	10	20	30	40	50	60	70	80	90
N1	35							40	
F	45	50	55	60	65	70	75	80	85
Bore\Sign	100	125	150	175	200				
N1									
F	90	102.5	115	127.5	140				



QGM / QGL



Series No	Type No	Bore	X	Stroke	–	Magnet No	–	Thread type
QG	L: Linear bearing M: slide bearing	12 16 20 …		25 50 75 …		S : with magnet		Blank: G P : PT T : NPT

SPECIFICATION

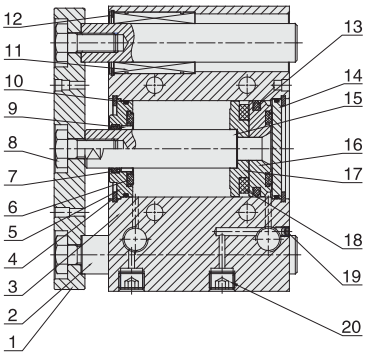
Bore(mm)		12	16	20	25	32	40	50	63
Acting type		Double acting							
Working medium		Clean air (40μm filteration)							
Working pressure	PSI	14.5~145							
	Bar	1~10							
	Mpa	0.1~1.0							
Guaranteed pressure		215PSI / 15Bar / 1.5Mpa							
Working temperature		-20~80℃ / -5~176℉(No freezing)							
Piston speed (mm/s)		30~500							
Cushion		Rubber cushion							
Tolerance of stroke (mm)		$\pm^{1.5}_{0}$							
Bearing		Slide bearing / Linear bearing							
No-rotating precision	Slide bearing	±0.08°		±0.07°		±0.06°		±0.05°	
	Linear bearing	±0.10°		±0.09°		±0.08°		±0.06°	
Port Size		M5x0.8		G 1/8				G 1/4	

Bore (mm)	Standard stroke (mm)	Max. stroke (mm)
12	10 20 25 30 40 50 60 70 75 80 90 100 125 150	150
16	10 20 25 30 40 50 60 70 75 80 90 100 125 150 175 200	200
20/25	20 25 30 40 50 60 70 75 80 90 100 125 150 175 200 225 250	250
32~63	25 30 40 50 60 70 75 80 90 100 125 150 175 200 225 250	250

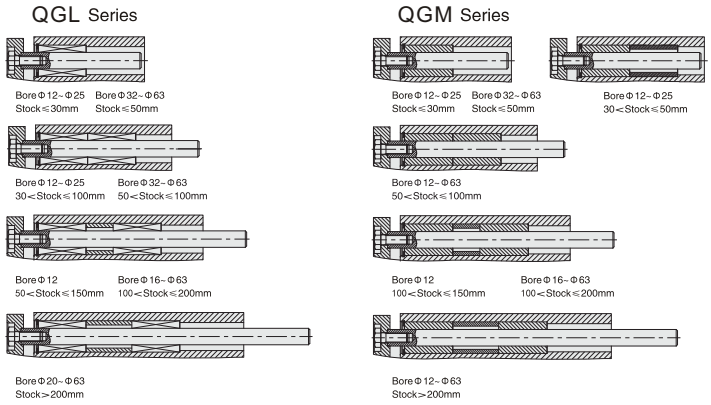
Note:The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder.
e.g. 27mm stroke cylinder has the same dimensions of 30 std. stroke cylinder.

QGM/QGL Series Compact Guide Cylinder

◎ Internal structure

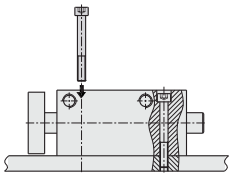


NO.	Part name	Material
1	Fixing plate	Aluminum alloy
2	Leader	Steel
3	Barrel	Aluminum alloy
4	C type retainer ring	Spring steel
5	Head cover	Aluminum alloy
6	Anti–bump cushion	NBR/TPU
7	Piston rod seal	TPU
8	Screw	Stainless steel
9	Self lubricating bearing	Bronze powder
10	O–ring	NBR
11	Bearing	Brass
12	C type retainer ring	Spring steel
13	Piston seal	NBR
14	Rear cover	Aluminum alloy
15	Piston rod	S45C hard chrome carbon steel
16	Piston	Aluminum alloy
17	Magnet base	Aluminum alloy
18	Magnet	Plastic
19	Nut	Carbon steel
20	Hex fix screw	Carbon steel
21	Spacer	Aluminum alloy

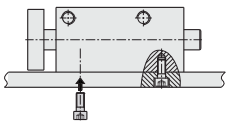


◎ How to mount

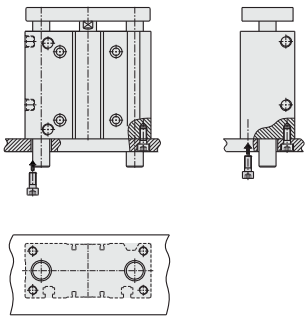
Fixation of screw on top surface



Fixation of screw at bottom surface



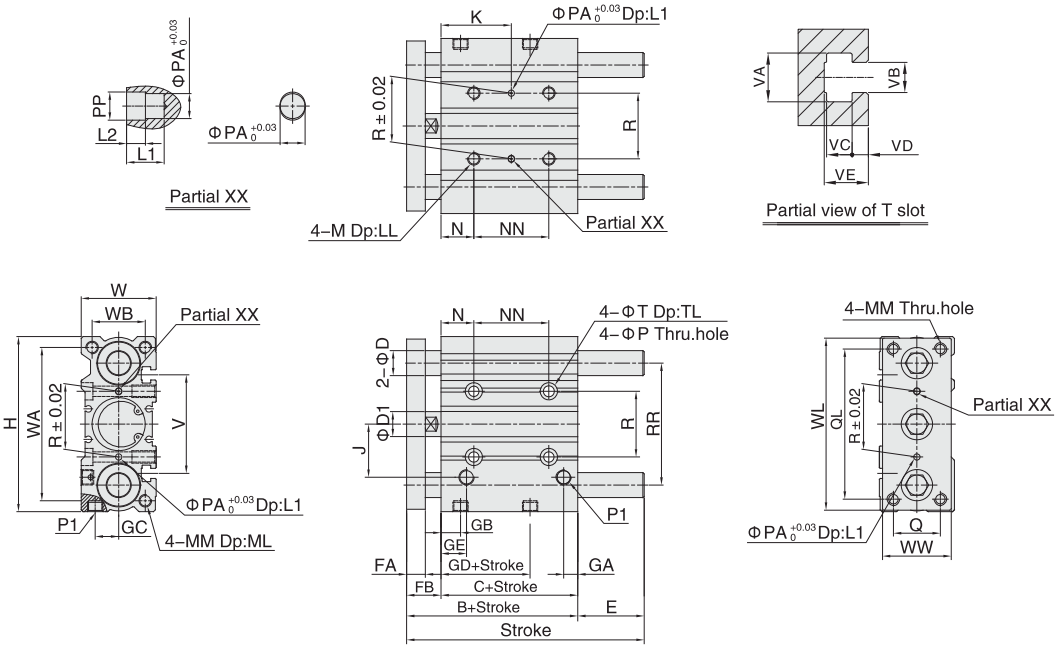
Fixation of screw at back surface



Fixation of T slot at bottom

◎Main Dimensions

QGM / QGL



(mm)

Bore\Sign	E(SGL)				E(SGM)				NN				K			
	≤30	31~100	101~200	>200	≤50	51~100	101~200	>200	≤30	31~100	101~200	>200	≤30	31~100	101~200	>200
12	0	13	43	–	0	13	43	–	20	40	110	–	15	25	60	–
16	0	19	49	–	0	19	49	–	24	44	110	–	17	27	60	–
20	0	27	51	69	0	27	51	69	24	44	120	200	29	39	77	117
25	0	28.5	51	68.5	0	28.5	51	68.5	24	44	120	200	29	39	77	117
Stroke	≤50	51~100	101~200	>200	≤50	51~100	101~200	>200	≤40	41~100	101~200	>200	≤40	41~100	101~200	>200
32	5.5	42.5	58.5	80.5	5.5	42.5	58.5	80.5	24	48	124	200	33	45	83	121
40	0	36	52	74	0	36	52	74	24	48	124	200	34	46	84	122
50	4	46	62	89	4	46	62	89	24	48	124	200	36	48	86	124
63	0	41	57	84	0	41	57	84	28	52	128	200	38	50	88	124

Bore\Sign	B	C	FA	FB	P1	GA	GB	GC	GD	GE	R	RR	N	P	PA	PP	T	TL	M	LL	D1
12	42	29	8	13	M5X0.8	7.5	11	8	13	11	23	41	5	4.2	3	3.5	8	4.5	M5X0.8	10	6
16	46	33	8	13	M5X0.8	8	11	10	15	11	24	46	5	4.2	3	3.5	8	4.5	M5X0.8	10	8
20	53	37	10	16	1/8"	9	10.5	10.5	12.5	10.5	28	54	17	5.2	3	3.5	9.5	5.5	M6X1.0	12	10
25	53.5	37.5	10	16	1/8"	9	11.5	13.5	12.5	11.5	34	64	17	5.2	4	4.5	9.5	5.5	M6X1.0	12	12
32	59.5	37.5	12	22	1/8"	9	12.5	15	7	12.5	42	78	21	6.9	4	4.5	11	7.5	M8X1.25	16	16
40	66	44	12	22	1/8"	10	14	18	13	14	50	86	22	6.9	4	4.5	11	7.5	M8X1.25	16	16
50	72	44	16	28	1/4"	11	12	21.5	9	14	66	110	24	8.7	5	6	14	9	M10X1.5	20	20
63	77	49	16	28	1/4"	13.5	16.5	28	14	16.5	80	124	24	8.7	5	6	14	9	M10X1.5	20	20

Bore\Sign	D(SGL)	D(SGM)	J	W	WA	WB	WL	WW	H	Q	QL	MM	ML	L1	L2	V	VA	VB	VC	VD	VE
12	6	8	18	26	50	18	56	22	58	14	48	M4X0.7	10	6	3	37	7.4	4.4	3.7	2	6.2
16	8	10	19	30	56	22	62	25	64	16	54	M5X0.8	12	6	3	38	7.4	4.4	3.7	2.5	6.7
20	10	12	25	36	72	24	81	30	83	18	70	M5X0.8	13	6	3	44	8.4	5.4	4.5	2.8	7.8
25	12	16	28.5	42	82	30	91	38	93	26	78	M6X1.0	15	6	3	50	8.4	5.4	4.5	3	8.2
32	16	20	34	48	98	34	110	44	112	30	96	M8X1.25	20	6	3	63	10.5	6.5	5.5	3.5	9.5
40	16	20	38	54	106	40	118	44	120	30	104	M8X1.25	20	6	3	72	10.5	6.5	5.5	4	11
50	20	25	47	64	130	46	146	60	148	40	130	M10X1.5	22	8	4	92	13.5	8.5	7.5	4.5	13.5
63	20	25	55	78	142	58	158	70	162	50	130	M10X1.5	22	8	4	110	17.8	11	10	7	18.5

ADVANTAGE:

1. Combo Kit:

→Bundle with Air Tools or Air Compressor Unit as gift set to add value.

2. Value Pack:

→Promotion item in store to catch users' eyes.

B26

JT05

B08KIT1-THB

B08KIT2-THB

HUR050805-BK-B90

THB

Pressure unit changing chart:

Unit	Pa	KPa	MPa	bar	mbar	kgf/cm^2	cmH_2O	mmH_2O	mmHg	p.s.i
Pa	1	10^{-3}	10^{-6}	10^{-5}	10^{-2}	$10.2x10^{-6}$	$1.02x10^{-3}$	$101.97x10^{-3}$	$7.5x10^{-3}$	$0.15x10^{-3}$
KPa	10^{3}	1	10^{-3}	10^{-2}	10	$10.2x10^{-3}$	10.2	101.97	7.5	0.15
MPa	10^{6}	10^{3}	1	10	10^{4}	10.2	$1.02x10^{3}$	$101.97x10^{3}$	$7.5x10^{3}$	$0.15x10^{3}$
bar	10^{5}	10^{2}	10^{-1}	1	10^{3}	1.02	$1.02x10^{3}$	$10.2x10^{3}$	750.06	14.5
mbar	10^{2}	10^{-1}	10^{-4}	10	1	$1.02x10^{-3}$	1.02	10.2	0.75	$14.5x10^{-3}$
kgf/cm^2	980066.5	98.07^{-3}	$98.07x10^{-3}$	0.98	980.67	1	1000	10	735.56	14.22
cmH_2O	98.06	$98.07x10^{-3}$	$98.07x10^{-6}$	$0.98x10^{-3}$	0.98	10^{-3}	1	10	0.74	$14.22x10^{3}$
mmH_2O	9.806	$90807x10^{-3}$	$9.807x10^{-6}$	$98.07x10^{-6}$	$98.07x10^{-3}$	10^{-4}	0.1	1	$73.56x10^{-3}$	$1.42x10^{3}$
mmHg	133.32	133.32x10	$133.32x10^{-6}$	$1.33x10^{-3}$	1.33	$1.36x10^{-3}$	1.36	13.6	1	$19.34x10^{-3}$
p.s.i	6894.76	6.89	$6.89x10^{-3}$	$68.95x10^{-3}$	68.95	$70.31x10^{-3}$	70.31	703.07	51.71	1

Air flow unit changing chart:

Unit	m^3/S	L/S	cm^3/S	m^3/h	m^3/min	L/h	L/min	ft/min (scfm)	gallon min UK	Gallon min USA
m^3/S	1	10^{3}	10^{6}	$3.6x10^{3}$	60	$3.6x10^{6}$	$60x10^{3}$	$2.12x10^{3}$	$13.2x10^{3}$	$15.85x10^{3}$
L/S	10^{-3}	1	10^{3}	3.6	$60x10^{-3}$	$3.6x10^{3}$	60	2.12	13.2	15.85
cm^3/S	10^{-6}	10^{-3}	1	$3.6x10^{-3}$	$60x10^{-6}$	3.6	$60x10^{-3}$	$2.12x10^{-3}$	$13.2x10^{-3}$	$15.58x10^{-3}$
m^3/h	$0.28x10^{-3}$	0.28	$0.28x10^{-3}$	1	$16.67x10^{-3}$	103	16.67	0.59	3.67	4.4
m^3/min	$16.67x10^{-3}$	16.67	$16.67x10^{-3}$	60	1	$60x10^{3}$	103	35.31	219.97	264.17
L/h	$0.28x10^{-6}$	$0.28x10^{-3}$	0.28	10^{-3}	$16.67x10^{-3}$	1	$16.67x10^{-3}$	$0.59x10^{-3}$	$3.67x10^{-3}$	$4.4x10^{-3}$
L/min	$16.67x10^{-6}$	$16.67x10^{-3}$	16.67	$60x10^{-3}$	10^{-3}	60	1	$35.31x10^{-3}$	$219.97x10^{-3}$	$264x10^{-3}$
ft/min (scfm)	$0.47x10^{-3}$	0.47	$0.47x10^{3}$	1.699	$28.32x10^{-3}$	$1.699x10^{3}$	28.32	1	6.23	7.48
gallon min UK	$75.79x10^{-6}$	$75.79x10^{-3}$	75.77	0.273	$4.55x10^{-3}$	$0.273x10^{3}$	4.55	0.16	1	1.2
Gallon min USA	$63.09x10^{-6}$	$63.09x10^{-3}$	63.09	0.227	$3.79x10^{-3}$	$0.227x10^{3}$	3.79	0.13	0.83	1

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