



NAF1000
mini filter

NAF 3000 – 03 D

Model Series

Body Size

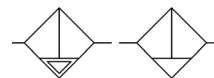
1000
2000
3000
4000
5000

Port Size

M5 10-32UNF
01 1/8NPT
02 1/4NPT
03 3/8NPT
04 1/2NPT
06 3/4NPT
10 1NPT

Drain Options

Blank Manual Drain
D Auto Drain



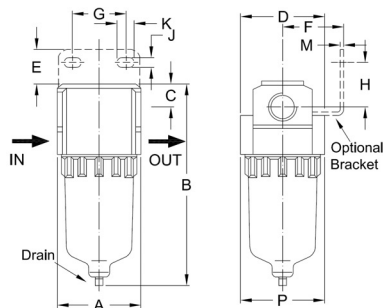
SPECIFICATIONS						
Model	NAF1000-M5	NAF2000-01/02	NAF3000-02/03	NAF4000-03/04	NAF4000-06	NAF5000-06/10
Port Size	10-32UNF	1/8" & 1/4"NPT	1/4" & 3/8"NPT	3/8" & 1/2"NPT	3/4"NPT	3/4" & 1"NPT
Filtration	25µ Sintered Bronze (5µ and 40µ and Polyethylene available)					
Max. Working Pressure	10bar(g) / 150psi(g)					
Proof Pressure	15bar(g) / 220psi(g)					
Working Temp. Range	5-60°C / 41-140°F					
Rated Flow	110l/min 4CFM	750l/min 27CFM	1500l/min 54CFM	4000l/min 143CFM	6000l/min 212CFM	7000l/min 250CFM
Weight	0.07kg / 0.15lbs	0.19kg / 0.4lbs	0.29kg / 0.6lbs	0.55kg / 1.2lbs	1.08kg / 2.4lbs	1.08kg / 2.4lbs
Capacity	4cm³ / 0.14oz	15cm³ / 0.5oz	20cm³ / 0.68oz	45cm³ / 1.5oz		130cm³ / 4.4oz
Materials	Body	Aluminum Alloy Die Casting				
	Bowl	Polycarbonate				
	Bowl Guard	n/a		Painted Steel		



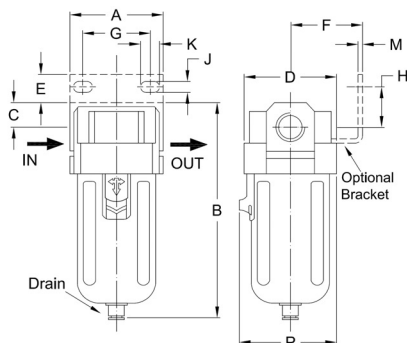
For spare elements
please refer to the FRL
accessory section.

DIMENSIONS (mm)													
Type	Port	A	B	C	D	E	F	G	H	J	K	M	P
NAF1000-M5	10-32UNF	25	66	7	25	-	-	-	-	-	-	-	26.5
NAF2000-01/02	1/8" & 1/4"NPT	40	97.5	11	40	17	30	27	22	5.4	8.4	2.3	40
NAF3000-02/03	1/4" & 3/8"NPT	53	132.5	14	53	16	41	40	23	6.5	8	2.3	56
NAF4000-03/04	3/8" NPT & 1/2"NPT	70	168.5	18	70	17	50	54	26	8.5	10.5	2.3	73
NAF4000-06	3/4"NPT	75	172.5	20	70	14	50	54	25	8.5	10.5	2.3	73
NAF5000-06/10	3/4" & 1"NPT	90	247.5	24	90	23	70	66	35	11	13	3.2	90

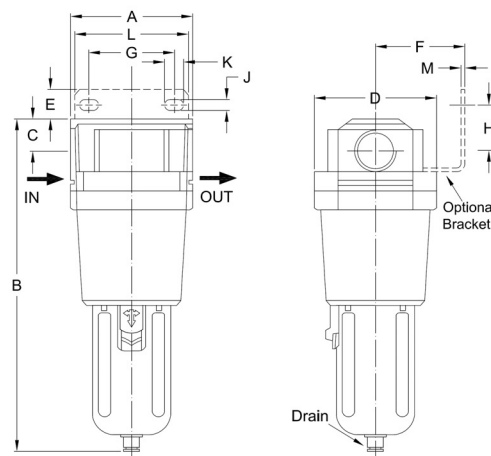
NAF1000-2000



NAF3000-4000



NAF5000





NAR 3000 – 03

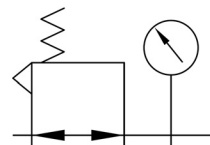
Model Series

Body Size

1000
2000
3000
4000
5000

Port Size

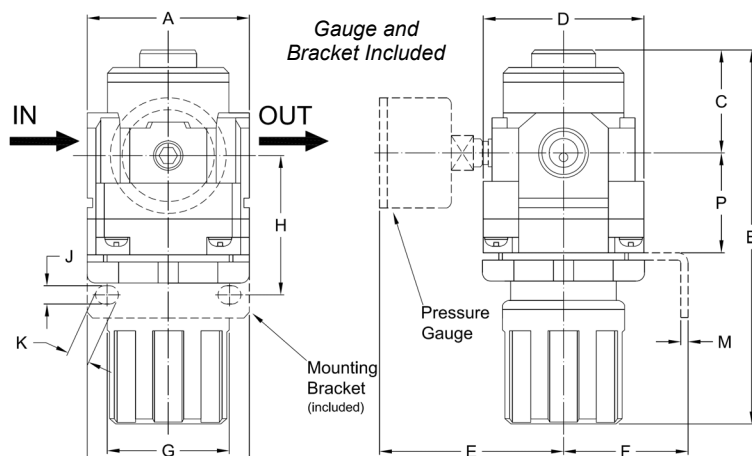
M5 10-32UNF
01 1/8NPT
02 1/4NPT
03 3/8NPT
04 1/2NPT
06 3/4NPT
10 1NPT



NAR1000 mini regulator

		SPECIFICATIONS					
Model		NAR1000-M5	NAR2000-01/02	NAR3000-02/03	NAR4000-03/04	NAR4000-06	NAR5000-06/10
Port Size		10-32UNF	1/8" & 1/4"NPT	1/4" & 3/8"NPT	3/8 & 1/2"NPT	3/4"NPT	3/4" & 1"NPT
Pressure Gauge Port		1/16NPT	1/8NPT	1/4NPT			
Max. Working Pressure		1MPa / 150psi					
Proof Pressure		1.5MPa / 220psi					
Working Temp. Range		5-60°C / 41-140°F					
Adj. Pressure Range		0.05-0.85MPa / 1-128psi(g)					
Rated Flow		100 l/min	550 l/min	2500 l/min	6000 l/min	6000 l/min	8000 l/min
		3.5CFM	20CFM	89CFM	214CFM	214CFM	286CFM
Weight		0.08kg / 0.18lbs	0.27kg / 0.6lbs	0.41kg / 0.9lbs	0.84kg / 1.8lbs	0.94kg / 2lbs	1.19kg / 2.6lbs
Materials	Body	Zinc Die Cast	Aluminum Alloy Die Cast				
	Deck	Reinforced Nylon			Aluminum Alloy Die Cast		
	Membrane	Nitrile Rubber					

DIMENSIONS (mm)													
Type	Port	A	B	C	D	E	F	G	H	J	K	L	M
NAR1000-M5	10-32UNF	25	61.5	11	25	26	25	28	30	4.5	6.5	40	20.5
NAR2000-01/02	1/8" & 1/4"NPT	40	95	17	40	56.8	30	34	45	5.4	15.4	55	2.3
NAR3000-02/03	1/4" & 3/8"NPT	53	127.5	35	53	60.8	41	40	46	6.5	8	53	2.3
NAR4000-03/04	3/8 & 1/2"NPT	70	149.5	37.5	70	65.5	50	54	54	8.5	10.5	70	2.3
NAR4000-06	3/4"NPT	75	154.5	40.5	70	69.5	50	54	56	8.5	10.5	70	2.3
NAR5000-06/10	3/4" & 1"NPT	90	168	48	90	75.5	70	66	65.8	11	13	90	3.2



SPARE GAUGES + ALTERNATE PRESSURE MODELS				
(160psi models supplied as standard)				
Part Number	Dial Size	Pressure Range	Case Material	Port Size
102D-158C	1.5"	0-30PSI	Black Carbon Steel	1/8NPT
102D-158D		0-60PSI		
102D-158F		0-160PSI		
102D-204C	2.0"	0-30PSI		1/4NPT
102D-204D		0-60PSI		
102D-204F		0-160PSI		

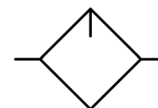


NAL1000
mini lubricator



NAL 3000 – 03

Model Series	Body Size	Port Size
	1000	M5 10-32UNF
	2000	01 1/8NPT
	3000	02 1/4NPT
	4000	03 3/8NPT
	5000	04 1/2NPT
		06 3/4NPT
		10 1NPT



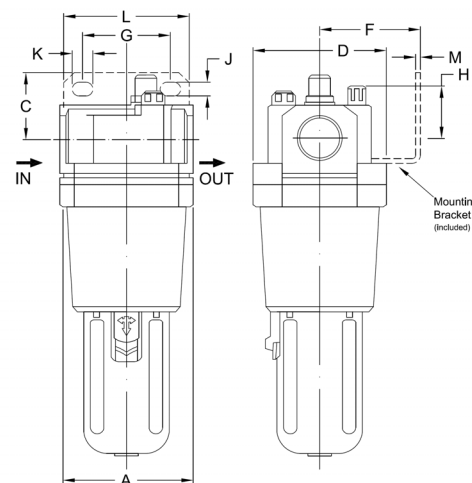
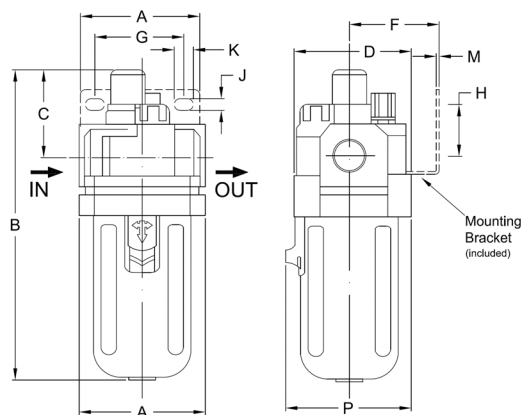
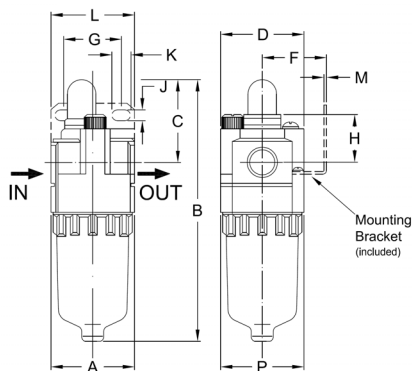
		SPECIFICATIONS				
Model	NAL1000-M5	NAL2000-01/02	NAL3000-02/03	NAL4000-03/04	NAL4000-06	NAL5000-06/10
Port Size	10-32UNF	1/8" & 1/4"NPT	1/4" & 3/8"NPT	3/8" & 1/2"NPT	3/4"NPT	3/4" & 1"NPT
Max. Working Pressure	1MPa / 150psi					
Proof Pressure	1.5MPa / 220psi					
Working Temp. Range	5-60°C / 41-140°F					
Lubrication Oil	ISOVG32 or equivalent					
Rated Flow	95 l/min 3.4CFM	800 l/min 26CFM	1700 l/min 61CFM	5000 l/min 179CFM	6300 l/min 223CFM	7000 l/min 250CFM
Weight	0.07kg / 0.15lbs	0.22kg / 0.5lbs	0.30kg / 0.6lbs	0.56kg / 1.2lbs	0.58kg / 1.3lbs	1.08kg / 2.4lbs
Bowl Capacity	7cm³ / 0.24oz	25cm³ / 0.85oz	50cm³ / 1.69oz	130cm³ / 4.4oz		
Materials	Body	Zinc Die Cast	Aluminum Alloy			
	Sight Glass	Polycarbonate				
	Bowl Guard	n/a		Painted Steel		

DIMENSIONS (mm)												
Type	Port	A	B	C	D	F	G	H	J	K	L	P
NAL1000-M5	10-32UNF	25	81.5	25.5	25	-	-	-	-	-	-	27
NAL2000-01/02	1/8" & 1/4"NPT	40	122	38	40	30	27	22	5.4	8.4	40	2.3
NAL3000-02/03	1/4" & 3/8"NPT	53	142	38	53	41	40	23	6.5	8	53	2.3
NAL4000-03/04	3/8" & 1/2"NPT	70	177	41	70	50	54	26	8.5	10.5	70	2.3
NAL4000-06	3/4"NPT	75	177	39	70	50	54	25	8.5	10.5	70	2.3
NAL5000-06/10	3/4" & 1"NPT	90	254	45	90	70	66	35	11	13	90	3.2

NAL1000-2000

NAL3000-4000

NAL5000





For spare elements please refer to the FRL accessory section.

NAW 3000 – 03 D

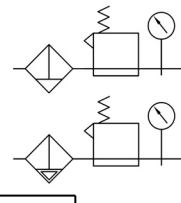
Model Series

Body Size

Port Size

1000
2000
3000
4000
5000

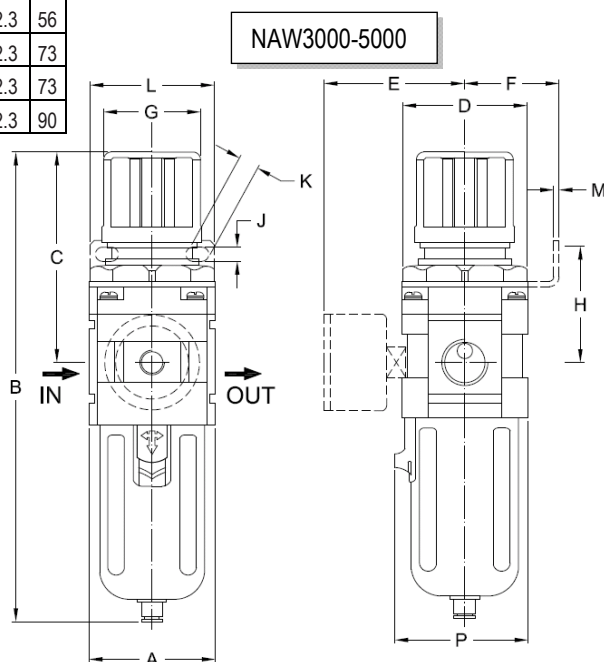
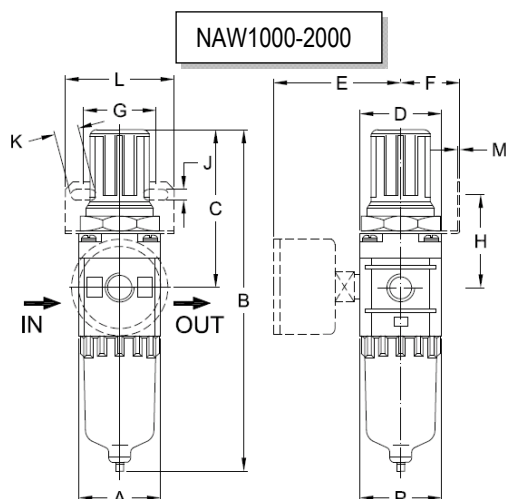
M5
01 10-32UNF
02 1/8NPT
03 1/4NPT
04 3/8NPT
06 1/2NPT
10 3/4NPT
10 1NPT



Drain Options
Blank Manual Drain
D Auto Drain

		SPECIFICATIONS					
Model		NAW1000-M5	NAW2000-01/02	NAW3000-02/03	NAW4000-03/04	NAW4000-06	NAW5000-06/10
Port Size		10-32UNF	1/8" & 1/4"NPT	1/4" & 3/8"NPT	3/8" & 1/2"NPT	3/4"NPT	3/4" & 1"NPT
Gauge Port		1/16NPT	1/8" NPT		1/4" NPT		
Max. Working Pressure		10bar(g) / 150psi(g)					
Proof Pressure		15bar(g) / 220psi(g)					
Working Temp. Range		5-60°C / 41-140°F					
Pressure Range		0.5-8.5bar(g) / 7-128psi(g)					
Filtration		25µ Sintered Bronze (5µ and 40µ and Polyethylene available)					
Rated Flow		110l/min 4CFM	550 l/min 20CFM	2000 l/min 71CFM	4000 l/min 143CFM	4500 l/min 159CFM	5500 l/min 197CFM
Weight		0.09kg / 0.2lbs	0.36kg / 0.8lbs	0.56kg / 1.2lbs	1.09kg / 2.4lbs	1.15kg / 2.5lbs	1.71kg / 3.7lbs
Bowl Capacity		4cm³ / 0.14oz	15cm³ / 0.51oz	20cm³ / 0.68oz	45cm³ / 1.5oz		130cm³ / 4.4oz
Materials	Body	Zinc Die Cast	Aluminum Alloy Die Cast				
	Deck	Reinforced Nylon			Aluminum Alloy Die Cast		
	Diaphragm	Nitrile Rubber					

DIMENSIONS (mm)														
Type	Port	A	B	C	D	E	F	G	H	J	K	L	M	P
NAW1000-M5	10-32UNF	25	109.5	50.5	25	26	25	28	30	4.5	6.5	40	2	28
NAW2000-01/02	1/8" & 1/4"NPT	40	164.5	78	40	56.8	30	34	45	5.4	15.4	55	2.3	40
NAW3000-02/03	1/4" & 3/8"NPT	53	211	92.5	53	60.8	41	40	46	6.5	8	53	2.3	56
NAW4000-03/04	3/8" & 1/2"NPT	70	262.5	112	70	70.5	50	54	54	8.5	10.5	70	2.3	73
NAW4000-06	3/4"NPT	75	267	114	70	70.5	50	54	56	8.5	10.5	70	2.3	73
NAW5000-06/10	3/4" & 1"NPT	90	338	116	90	75.5	49.2	54	62	8.5	10.5	70	2.3	90

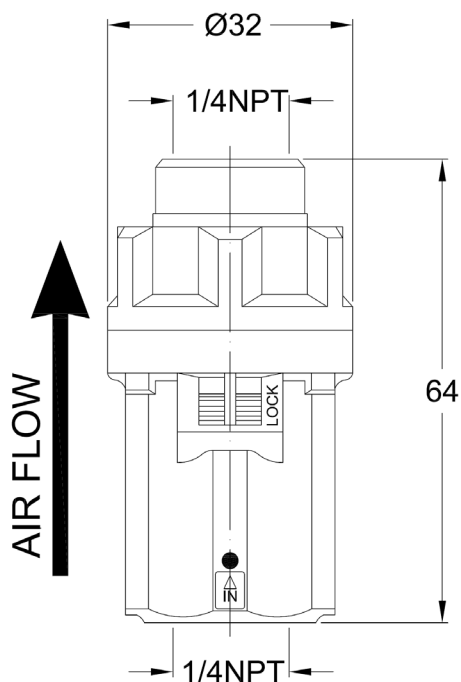




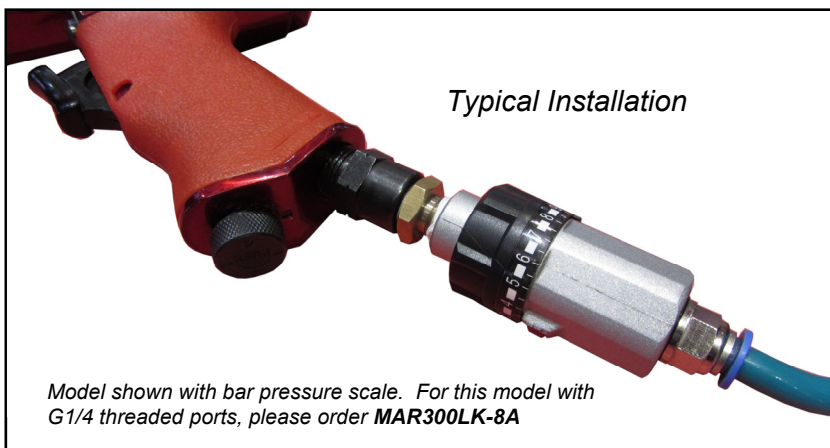
The NMAR series of pressure regulator has been designed for use in restricted space applications. An ideal application for the MAR regulator is with air tools where the user can adjust and lock the inlet pressure to the tool directly on the tool inlet.

Measuring just 2½' long and weighing only 2.8oz (80g) this regulator offers the user great flexibility in its installation and use. The locking feature of the regulator ensures that the pressure remains constant even when being rough handled during use.

*Model shown with bar pressure scale. For this model with G1/4 threaded ports, please order **MAR300LK-8A***



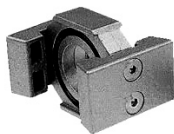
Part Number	NMAR300LK-8A
Port Connections	1/4NPT
Media	Compressed Air
Supply Pressure	0-150psi(g)
Proof Pressure	550psi(g)
Adjustment Range	45-135psi(g)
Flow Rate	11CFM
Ambient Temp	32-140°F / 0-60°C
Weight	2.8oz / 80g



Filter & Lubricator Brackets & Joiners



BRACKET



JOINER

BRACKETS are used for mounting the individual filters or lubricators to a panel. (Regulators include a bracket)

For FRL assemblies, select the brackets shown below.

JOINERS are used instead of pipe fittings to join Filters, Regulators or Lubricators together.

Filter Model	Lubricator Model	Bracket	Joiner
NAF1000	NAL1000	n/a	n/a
NAF2000	NAL2000	B240	Y20
NAF3000	NAL3000	B340	Y30
NAF4000	NAL4000	B440	Y40
NAF4000-06	NAL4000-06	B540	Y50
NAF5000	NAL5000	B640	Y60

FRL Assembly Guide

The preceding FRL components are able to be assembled together to make the traditional FRL assemblies using the appropriate bracket. Please refer to the following guide to select the correct components.

Filter + Regulator + Lubricator

To Make This Assembly

Use ONE of these "T" brackets



Assembly Ref	Filter	Bracket	Regulator	Bracket	Lubricator
NAC2000-01/02	NAF2000-01/02	B210L	NAR2000-01/02	B210L	NAL2000-01/02
NAC3000-02/03	NAF3000-02/03	B310L	NAR3000-02/03	B310L	NAL3000-02/03
NAC4000-03/04	NAF4000-03/04	B410L	NAR4000-03/04	B410L	NAL4000-03/04
NAC4000-06	NAF4000-06	B510L	NAR4000-06	B510L	NAL4000-06
NAC5000-06/10	NAF5000-06/10	B610L	NAR5000-06/10	B610L	NAL5000-06/10

Piggy Back Filter Regulator + Lubricator

To Make This Assembly

Use ONE of these "T" brackets



Assembly Ref	Filter Regulator	Bracket	Lubricator
NAC2010-01/02	NAW2000-01/02	B210T	NAL2000-01/02
NAC3010-02/03	NAW3000-02/03	B310T	NAL3000-02/03
NAC4010-03/04	NAW4000-03/04	B410T	NAL4000-03/04
NAC4010-06	NAW4000-06	B510T	NAL5000-06
NAC5010-06/10	NAW5000-06/10	B610T	NAL5000-06/10

Safety Lock Out Valves



The safety lock out valves are used to isolate machinery that the FRL assembly is attached to from the compressed air supply. The relieving feature of these valves "dumps" air in the machinery to allow safe inspection or maintenance. The valves are able to be locked in the shut off position using a padlock type device or maintenance lock out tool.



Model	Port Size	Vent Port	Suitable for connection to
SLO2000-01	1/8NPT	1/8NPT	2000-01 series modules
SLO2000-02	1/4NPT	1/8NPT	2000-02 series modules
SLO3000-02	1/4NPT	1/4NPT	3000-02 series modules
SLO3000-03	3/8NPT	1/4NPT	3000-03 series modules
SLO4000-03	3/8NPT	3/8NPT	4000-03 series modules
SLO4000-04	1/2NPT	3/8NPT	4000-04 series modules
SLO5000-06	3/4NPT	3/8NPT	5000-06 series modules
SLO5000-10	1NPT	3/8NPT	5000-10 series modules

Spare Filtration Elements



Element Number	Description
FE2000-25	ELEMENT 2000 SERIES 25 MICRON
FE2000-40	ELEMENT 2000 SERIES 40 MICRON
FE2000-5	ELEMENT 2000 SERIES 5 MICRON
FE3000-25	ELEMENT 3000 SERIES 25 MICRON
FE3000-40	ELEMENT 3000 SERIES 40 MICRON
FE3000-5	ELEMENT 3000 SERIES 5 MICRON
FE4000-25	ELEMENT 4000 SERIES 25 MICRON
FE4000-40	ELEMENT 4000 SERIES 40 MICRON
FE4000-5	ELEMENT 4000 SERIES 5 MICRON
FE5000-25	ELEMENT 5000 SERIES 25 MICRON
FE5000-40	ELEMENT 5000 SERIES 40 MICRON
FE5000-5	ELEMENT 5000 SERIES 5 MICRON

*all elements are sintered bronze
For polyethylene, please inquire

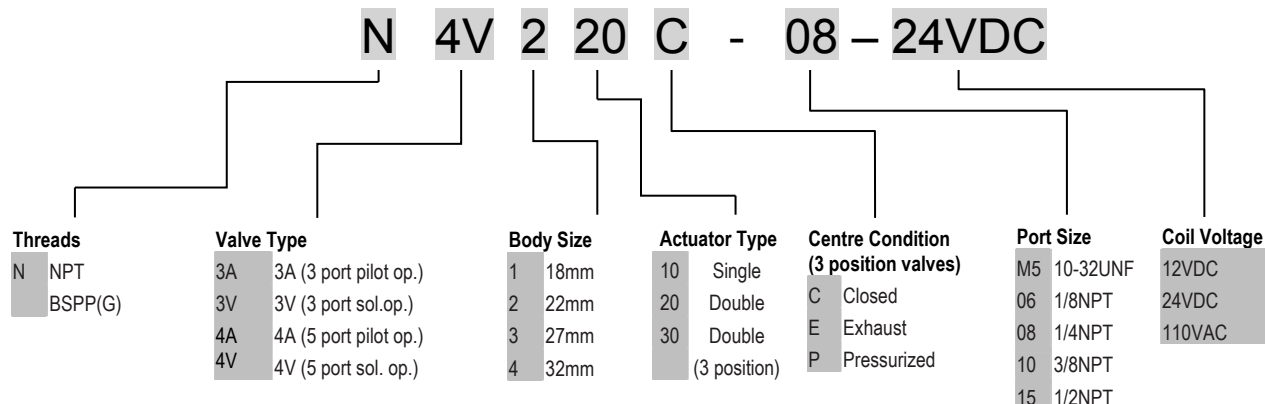
Available in two-way, three-way and four-way configuration and with port sizes from 10-32UNF through to 1/2"NPT.

The N2V & N3V1 offering is a direct acting solenoid poppet style whereas the N3A / V and N4A / V operate using a balanced spool design. Both the poppet and spool valves are body ported but are able to be mounted to an inline manifold system with up to twelve station positions.

The aluminum body construction is offered as standard with a black, hard anodized finish ensuring long life particularly in harsh environments such as wash down or outdoor applications.

- **Materials:** Hard Anodized Aluminum, Stainless Steel, Thermoplastic
- **Maximum Pressure:** 29.9"Hg vacuum to 150psi(g) for direct acting and 20-125psi(g) for spool design models
- **Response:** <20ms
- **Manual Override:** 100 series: non-locking (push button); 200,300 & 400 locking override (push button and "twist")
- **Electrical Connection:** DIN43650 with LED or 18" Lead Wire
- **Temperature Range:** 32°F to 150°F (0-65°C)
- **Seals:** Standard Nitrile (NBR), Viton or Silicone as an option. Please contact us for more information.





STANDARD MODELS

all solenoid valves are stocked with 24VDC DIN coils – Order spare coils for alternative voltages (Table 1)

Body Size 1	Body Size 2	Body Size 3	Body Size 4
N3A110-06	N3A210-08	N3A310-10	N3A410-15
N3A120-06	N3A220-08	N3A320-10	N3A420-15
N3V110-06-24VDC	N3V210-08-24VDC	N3V310-10-24VDC	N3V410-15-24VDC
N3V120-06-24VDC	N3V220-08-24VDC	N3V320-10-24VDC	N3V420-15-24VDC
N4A120-06	N4A210-08	N4A310-10	N4A410-15
N4A130C-06	N4A220-08	N4A320-10	N4A420-15
N4A130E-06	N4A230C-08	N4A330C-10	N4A430C-15
N4A130P-06	N4A230E-08	N4A330E-10	N4A430E-15
N4A110-06	N4A230P-08	N4A330P-10	N4A430P-15
N4V110-06-24VDC ✓	N4V210-08-24VDC ✓	N4V310-10-24VDC ✓	N4V410-15-24VDC ✓
N4V120-06-24VDC ✓	N4V220-08-24VDC ✓	N4V320-10-24VDC ✓	N4V420-15-24VDC ✓
N4V130C-06-24VDC ✓	N4V230C-08-24VDC ✓	N4V330C-10-24VDC ✓	N4V430C-15-24VDC ✓
N4V130E-06-24VDC ✓	N4V230E-08-24VDC ✓	N4V330E-10-24VDC ✓	N4V430E-15-24VDC ✓
N4V130P-06-24VDC ✓	N4V230P-08-24VDC ✓	N4V330P-10-24VDC ✓	N4V430P-15-24VDC ✓

*The valve models listed above are supplied with standard ports as shown in Table 2. Other port sizes are available. Please refer to Table 3 below.

① SPARE DIN COILS

Body Size	12VDC	24VDC	110VAC
1	110DIN12VDC	110DIN24VDC	110DIN110VAC
2	210DIN12VDC	210DIN24VDC	210DIN110VAC
3	210DIN12VDC	210DIN24VDC	210DIN110VAC
4	210DIN12VDC	210DIN24VDC	210DIN110VAC



① SPARE LEAD WIRE COILS (450mm / 18" leads)

Body Size	12VDC	24VDC	110VAC
1	110W12VDC	110W24VDC	110W110VAC
2	210W12VDC	210W24VDC	210W110VAC
3	210W12VDC	210W24VDC	210W110VAC
4	210W12VDC	210W24VDC	210W110VAC

② Valve Body Port Sizes

Port Sizes	Supply	Outlet	Exhaust
M5	10-32UNF	10-32UNF	10-32UNF
06	1/8NPT	1/8NPT	1/8NPT
08	1/4NPT	1/4NPT	1/8NPT
10	3/8NPT	3/8NPT	1/4NPT
15	1/2NPT	1/2NPT	1/2NPT

Flow Performance Spool Valves

Supply Ports	Cv	@50 psig	@100 psig
#10-32	0.58	16 SCFM	27 SCFM
1/8" NPT	0.67	18 SCFM	31 SCFM
1/4" NPT	0.89	26 SCFM	49 SCFM
3/8" NPT	1.68	51 SCFM	93 SCFM
1/2" NPT	2.79	91 SCFM	171 SCFM

Spool Valve Specifications

Working Medium	40 micron filtered air
Operating Temperature	-5°C - 60°C
Lubrication	Not Necessary
Working Pressure	1.5 - 8.0 bar(g)
Supply Pressure	<12bar(g)
Coil Power	AC2.5VA DC2.5W
Insulation Class	IP65
Material	Aluminum
Cycle Rate	5 cycle/sec
Insulation	Class F
Voltage Tolerance	+/- 10%
Reaction Time	0.05sec

③ OPTIONAL PORT SIZES

Body Size	Optional Port Size (all ports)	Part Number Indication
1	10-32UNF	-M5
2	1/8NPT	-06
3	1/4NPT	-08
4	only 1/2NPT	only 1/2NPT

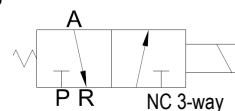
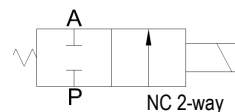
For example N4V310-08-24VDC is a Size 3 body but with 1/4NPT threads for inlet, supply and exhaust ports, (P, A,B,R & S)

✓ indicates standard in stock product

The N2V Series of direct acting poppet valves are available in both a 2-way and 3-way configuration. The exhaust port of the N2V035 valves is a 10-32UNF (M5) thread in the top of the solenoid stem.

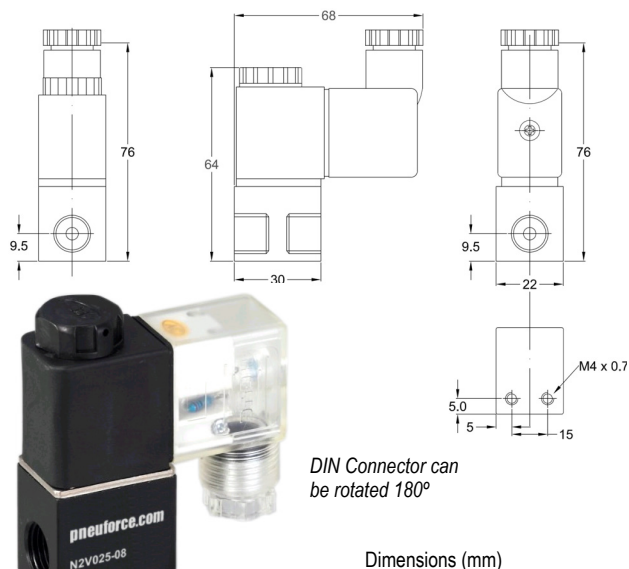
The N3V1 valves series is a 1/8NPT ported valve but is able to be joined directly to a corresponding unit which shares a common supply port at either end of the valve assembly block. Unlike other types of valves, this series of valve does not require a separate manifold block.

These valves are supplied as standard with a 24VDC coil. For other voltages please order coils separately as shown in Table 1 below. For larger quantities the valve can be supplied with the preferred coil. Please enquire.



Valve Model	N2V025-06-24VDC 	N2V025-08-24VDC 	N2V035-06-24VDC 	N2V035-08-24VDC 	N3V1-06-24VDC 
Valve Type	2-Way Direct Acting		3-Way Direct Acting		
Port Sizes	1/8NPT	1/4NPT	1/8NPT (10-32UNF exhaust)	1/4NPT (10-32UNF exhaust)	1/8NPT (10-32UNF exhaust)
Cv	0.23		0.05		
Orifice Size	Ø2.5mm		Ø1.0mm		
Working Pressure	28" Hg to 115psi(g)				
Working Medium	air, inert gas & liquid				
Ambient Temperature	-5°C - +80°C / 23°F - 176°F				
Working Temperature	5°C - +60°C / 41°F - 140°F (no freezing medium)				
Cycle rate	10 cycles/sec				
Coil Insulation & Protection Class	F Class, IP65 (CE Certification)				
Coil Duty Cycle	100% ED				
Power Consumption	AC: 6.5VA DC: 6.5W				AC 5.5VA DC 4.8W
Voltage Range	+/- 10%				
Reaction Time	0.05 sec				
Electrical Connection	D = Form B DIN (LED indicator) or W = Flying Lead Coil (18" Lead Wire)				
Body Material	Hard Anodized Aluminum				

N2V Series



Spare Coils

1



12VDC 24VDC 110VAC

DIN Connector 210DIN12VDC 210DIN24VDC 210DIN110VAC

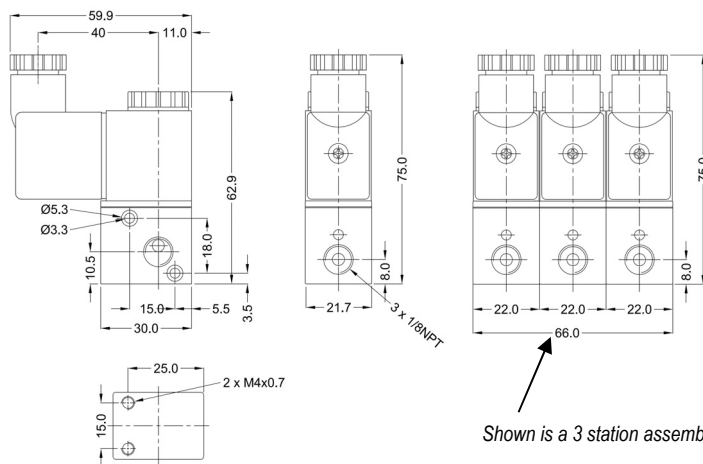
18" Lead Wire 210W12VDC 210W24VDC 210W110VAC

N3V1-06 Series



DIN Connector can be rotated 180°

Dimensions (mm)



Shown is a 3 station assembly

 indicates standard in stock product

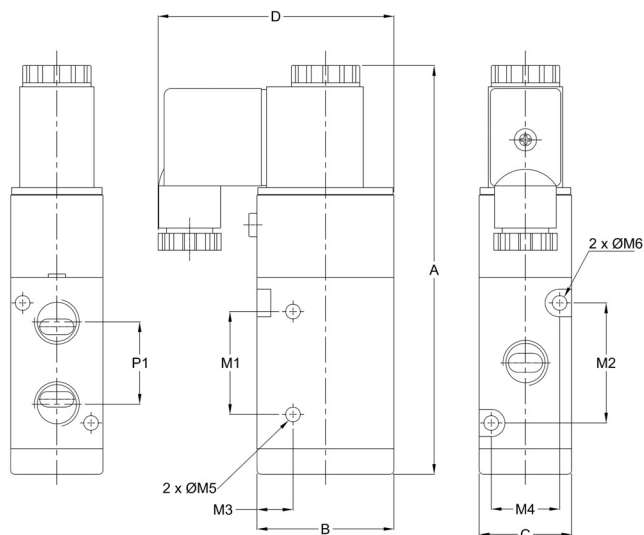
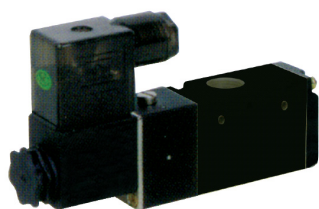
Dimensions (mm)

	N3V110	N3V210	N3V310	N3V410	N3V120	N3V220	N3V320	N3V420
Type	Single Solenoid / Spring Return				Double Solenoid			
A	57	77	81	97	69	88	96.5	120
B	27	35	40	50	27	35	40	50
C	18	22	27	34	18	22	27	34
D	55	67	69	75	55	67	69	75
M1	21	25	30	51	21	25	30	51
M2	19	33	35	44	19	33	35	44
M3	7.5	8	10.5	13.5	7.5	8	10.5	13.5
ØM4	18	22	27	34	18	22	27	34
ØM5	3.3	4.3		5.6	3.3		4.3	
ØM6	3.3	3.3	4.3	4.3	3.3	3.3	4.3	4.3
P1	16	18	24	36	16	18	24	36

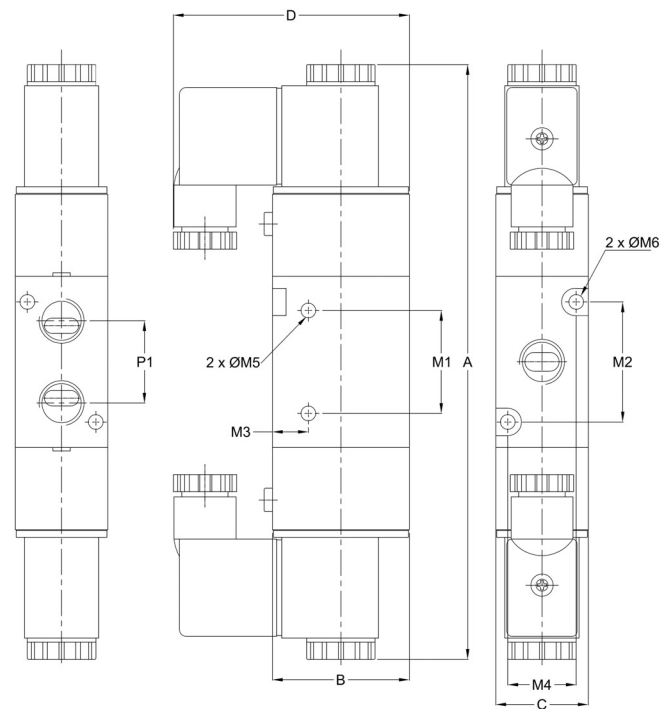
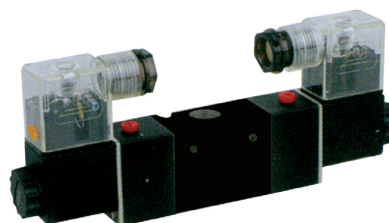
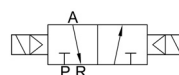
For complete model options including part numbers for ordering, please refer to the control valves specification page(s).

e.g N3V110-06-24VDC

N3V110 N3V210 N3V310 N3V410



N3V120 N3V220 N3V320 N3V420

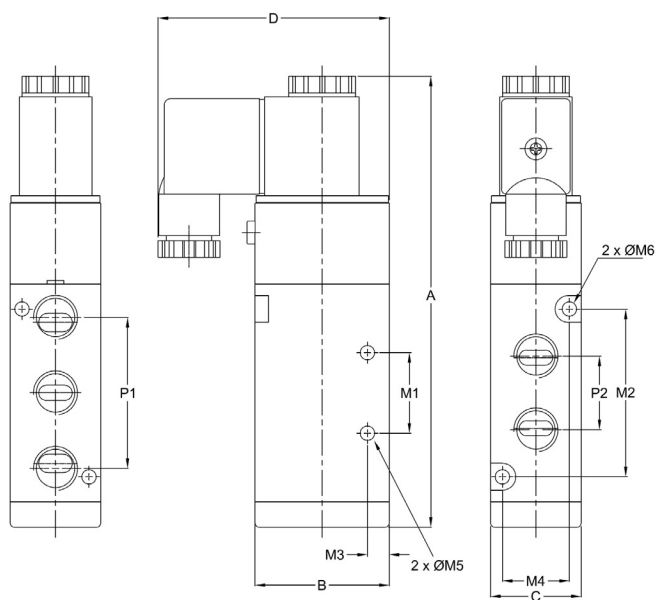
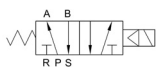


Dimensions (mm)

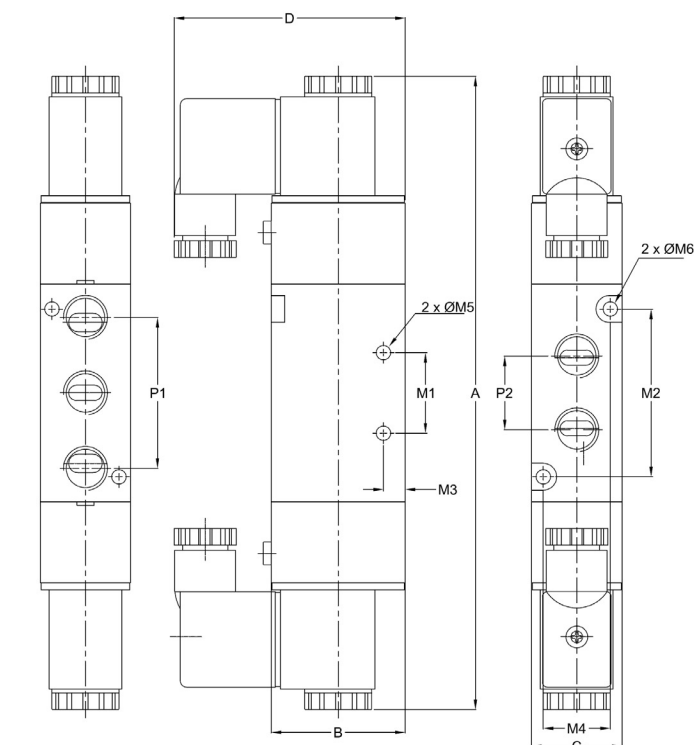
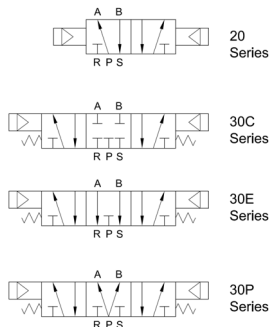
	N4V110	N4V210	N4V310	N4V410	N4V120	N4V220	N4V320	N4V420	N4V130	N4V230	N4V330	N4V430
Type	Single Solenoid / Spring Return				Double Solenoid				Double Solenoid 3 Position			
A	98	117	135	169	140	170	188	245	155	189	208	215
B	27	35	40	50	27	35	40	50	27	35	40	50
C	18	22	27	34	18	22	27	34	18	22	27	34
D	55	67	69	75	55	67	69	75	55	67	69	75
M1	14	20	24	28	14	20	24	28	14	20	24	28
M2	30	36	50	72	30	36	50	72	30	36	50	72
M3	4	7	6.5	7.5	4	7	6.5	7.5	4	7	6.5	7.5
ØM4	13	17	20	27	13	17	20	27	13	17	20	27
ØM5	3.3	4.3		5.5	3.3	4.3		5.5	3.3	4.3		5.5
P1	16	18	22	36	16	18	22	36	16	18	22	36
P2	28	36	45	63	28	36	45	63	28	36	45	63

For complete model options including part numbers for ordering, please refer to the control valves specification page(s).
e.g N4V110-06-24VDC

N4V110 N4V210 N4V310 N4V410



N4V120/30 N4V220/30 N4V320/30 N4V420/30



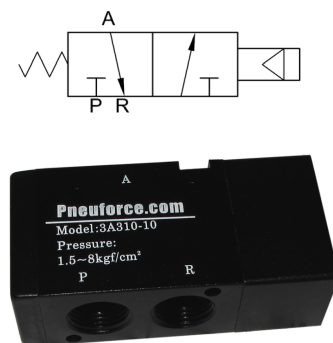
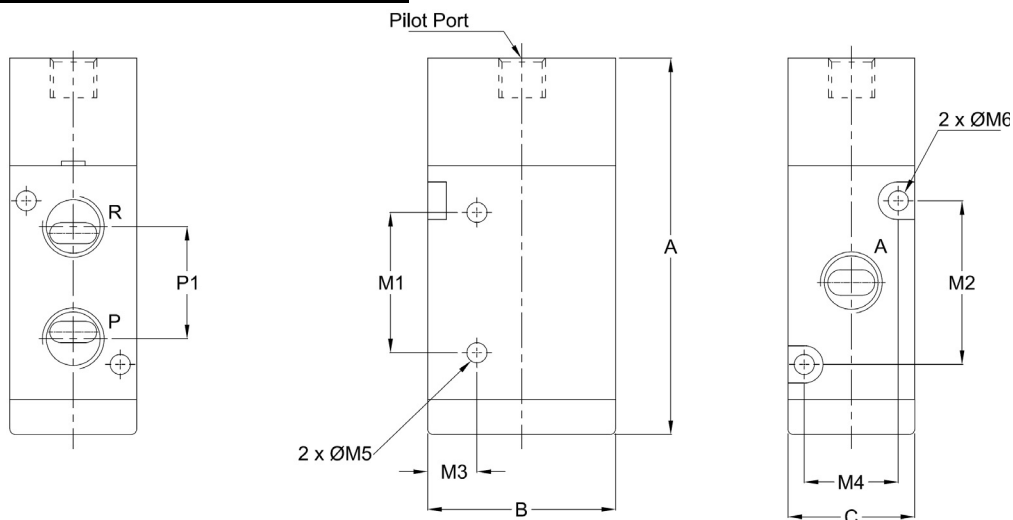
Dimensions (mm)

	N3A110	N3A210	N3A310	N3A410	N3A120	N3A220	N3A320	N3A420
Type	Single Pilot / Spring Return				Double Pilot			
Pilot Port	1/8NPT							
A	57	77	81	97	69	88	96.5	120
B	27	35	40	50	27	35	40	50
C	18	22	27	34	18	22	27	34
M1	21	25	30	51	21	25	30	51
M2	18	22	27	34	18	22	27	34
M3	7.5	8	10.5	13.5	7.5	8	10.5	13.5
M4	18	22	27	34	18	22	27	34
ØM5	3.3		4.3		3.3		4.3	
ØM6	3.3	4.3		5.6	3.3	4.3		5.6
P1	16	18	24	36	16	18	24	36

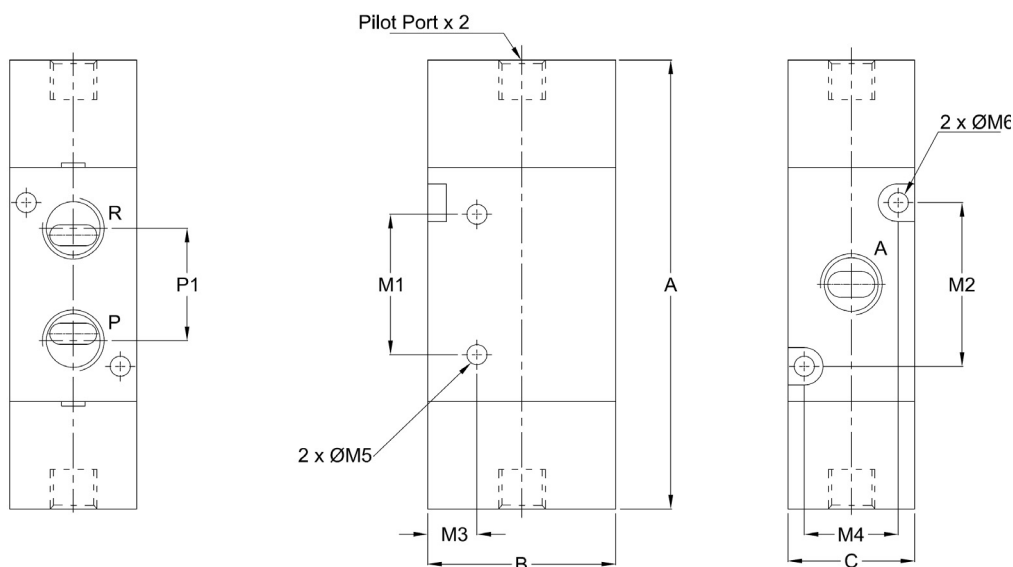
For complete model options including part numbers for ordering, please refer to the control valves specification page(s).

e.g N3A110-06

N3A110 N3A210 N3A310 N3A410



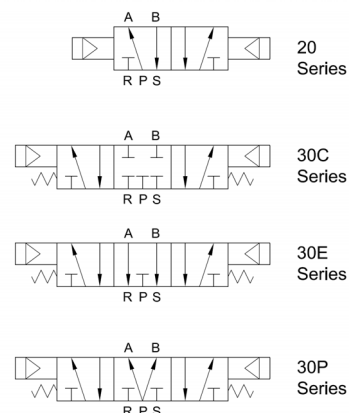
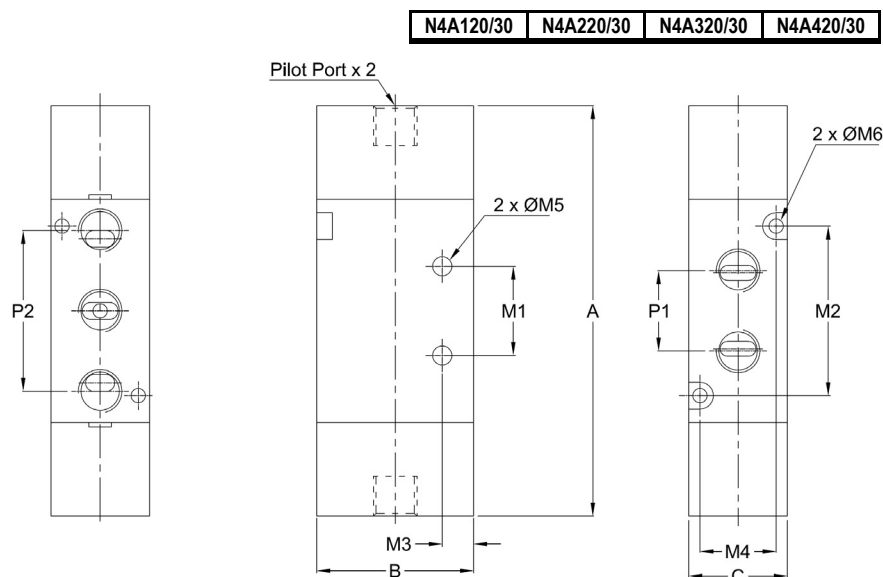
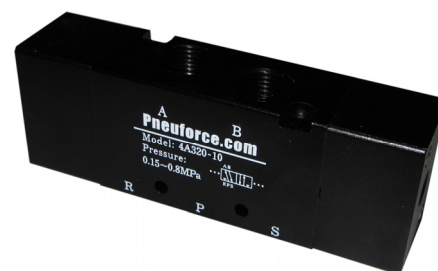
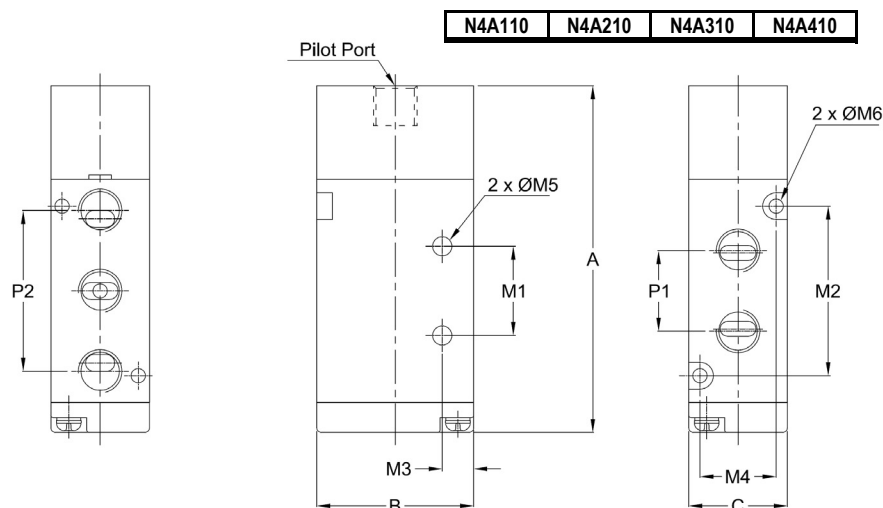
N3A120 N3A220 N3A320 N3A420



Dimensions (mm)

	N4A110	N4A210	N4A310	N4A410	N4A120	N4A220	N4A320	N4A420	N4A130	N4A230	N4A330	N4A430
Type	Single Pilot / Spring Return				Double Pilot				Double Pilot 3 Position			
Pilot Port	1/8NPT											
A	69	78	96	124	81	92	111	138	96	111	130	159
B	27	35	40	50	27	35	40	50	27	35	40	50
C	18	22	27	34	18	22	27	34	18	22	27	34
M1	14	20	24	28	14	20	24	28	14	20	24	28
M2	30	38	50	72	30	38	50	72	30	38	50	72
M3	4	7	6.5	7.5	4	7	6.5	7.5	4	7	6.5	7.5
ØM4	13	17	20	27	13	17	20	27	13	17	20	27
ØM5	3.3	4.3		5.5	3.3	4.3		5.5	3.3	4.3		5.5
P1	16	18	22	36	16	18	22	36	16	18	22	36
P2	28	36	45	63	28	36	45	63	28	36	45	63

For complete model options including part numbers for ordering, please refer to the control valves specification page(s).
e.g N4V110-06



Spool Valve Manifolds



These manifold blocks enable the connection of a common pressure supply (P) and exhaust ports (R & S) to multiple valves stations.

These manifolds are suitable for the spool valves N4V and N4A. Manifolds for the N3V and N3A are also available. Please enquire.

Manufactured in aluminum with an anodized finish.

Manifold Kit Contents

- Manifold
- Sealing Gaskets
- Connecting Bolts

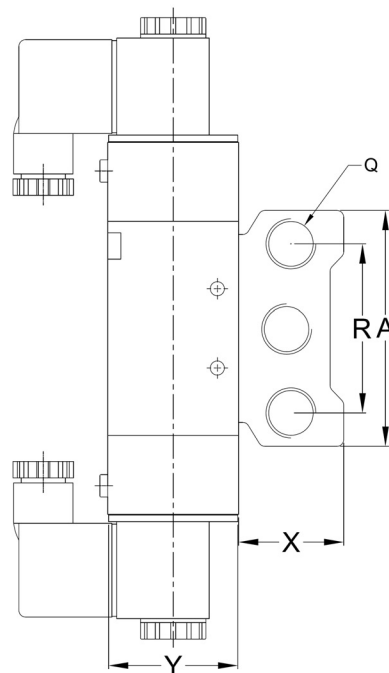
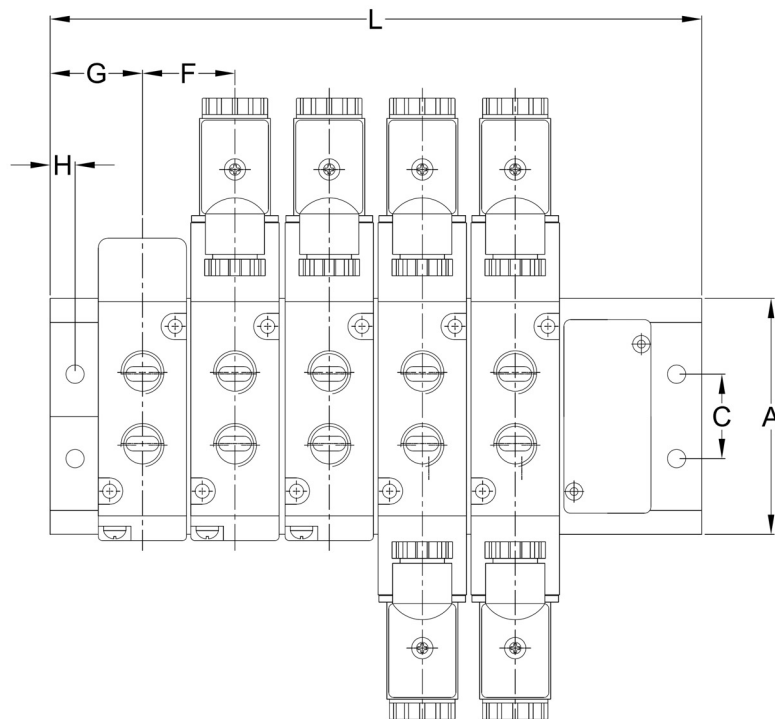
BLANKING PLATES (to seal an empty valve station)	
Kit Part Number*	Manifold Series
N4V1BGS	N4V110F
N4V2BGS	N4V210F
N4V3BGS	N4V310F
N4V4BGS	N4V410F

*Kit comprises of one blanking plate, gasket and 2 screws

N **4V** **110F** - **2**
 | |
 NPT 4V

110F 100 Series	22 station ✓
210F 100 Series	44 station ✓
310F 300 Series	66 station ✓
410F 400 Series	88 station ✓
	10 10 station
	12 12 station
	16 16 station

e.g N4V210F-8
8 station manifold suitable for 200 series valve.



Dimensions (mm)

	A	B	C	E	F	G	H	K	L*	M	Q	R	X	Y
110F	58	43	20	4.2	18.3	19	5	140	N * 19 + 19	155	1/4NPT	40	25	27
210F	59	50	21	4.3	22.2	23	6	170	N * 23 + 23	189	1/4NPT	43	26	35
310F	75	64	26	4.5	27.3	27	6	189	N * 28 + 26	208	3/8NPT	53	30	40
410F	98	94	32	4.5	34.3	31.5	7	222	N * 35 + 28	243	1/2NPT	68	38	50

Dimension L explained

N equals number of valve positions. For a 6 station manifold for the 110F series the calculation would be (6-1) x 19 + 38 = 133

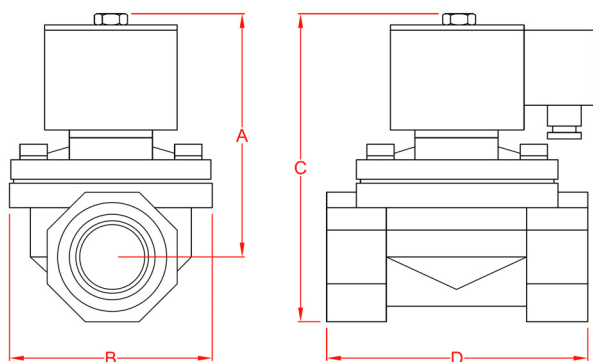
 indicates standard in stock product

The N2W and N2S series of process valves have been designed for general industrial use. These valves are manufactured with a coupled diaphragm and therefore can be used without a media pressure differential. Because of this feature they can also be used for vacuum duty or very low air pressure applications.

Supplied with a DIN43650 Form A coil, these simple and robust valves offer the user unparalleled performance and reliability.



- Port sizes from 3/8NPT to 2NPT.
- 2-way (2-port | 2-position)
- Viton seals available, please enquire.
- N2W models are brass
- N2S are stainless steel.
- Normally closed operation (power to start media flow)



Body Size	A	B	C	D
160	102	57	117	69
200	107	57	124	73
250	112	74	135	99
350	142	95	172	123
400	142	95	172	123
500	172	123	209	168

Part Number Brass Body	N2W160-10	N2W160-15 	N2W200-20 	N2W250-25 	N2W350-35	N2W400-40	N2W500-50
Part Number Stainless Steel	N2S160-10	N2S160-15	N2S200-20	N2S250-25	N2S350-35	N2S400-40	N2S500-50
Orifice	16mm	16mm	20mm	25mm	35mm	40mm	50mm
Valve Type	2 Way Normally Closed						
Method	Coupled Diaphragm						
Operating Pressure	Vacuum & 150psi(g) (110AC Coil) , 0 to 120psi(g) (24DC coil)						
Operating Temperature	14 to 176 °F (-10 TO 80 °C)						
Port Size (NPT)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Body Materials	2W Series Brass 2S Series: Stainless Steel						
Seal Materials:	NBR (Viton® is optional)						
Insulation Class	IP65						
Coil Duty	100% ED						
Coil Power	20W				40W		
Electrical Connections	DIN43650 Form A (30mm Square)						
Service	Air, Liquid, Vacuum						

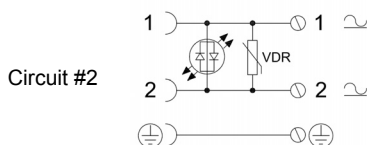
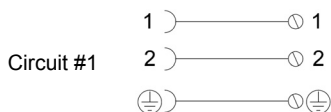
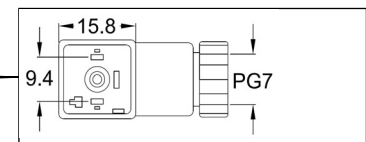
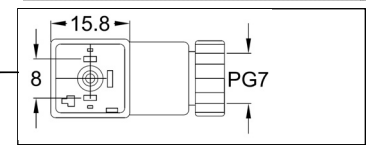
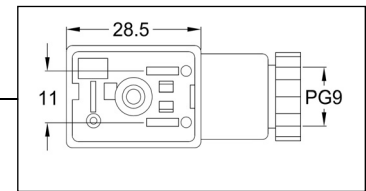
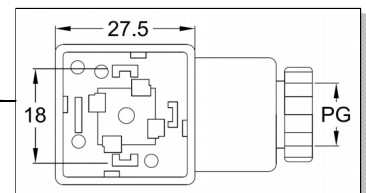
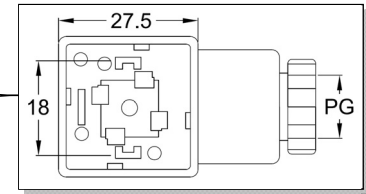
Voltage Requirements

Valves are available in 24VDC or 110VAC. Please add the voltage at the end of the part number.

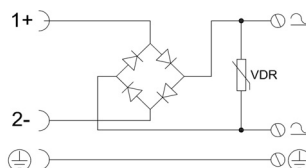
e.g. N2W160-10-24VDC or N2W160-10-110VAC. Other voltages available, please contact us

 indicates standard in stock product

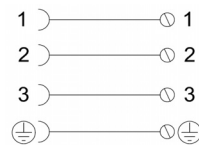
Part Number	Type	Color	Cable Gland	Circuit & Voltage	Contacts
FORM A 18mm 3 Contacts (2 + GRND)					
KA132000B9	 FORM A 18MM	Black	PG9	No Circuit	Circuit 1
KA132000B1	 FORM A 18MM	Black	PG11	No Circuit	
KA132000B3	 FORM A 18MM	Black	1/2NPTF	No Circuit	
KA132000A9	 FORM A 18MM	Gray	PG9	No Circuit	
KA132000A1	 FORM A 18MM	Gray	PG11	No Circuit	
KA132000A3	 FORM A 18MM	Gray	1/2NPTF	No Circuit	
KA132V5GT9	 FORM A 18MM	Transparent	PG9	12V Varistor and LED	Circuit 2
KA132V54T9	 FORM A 18MM	Transparent	PG9	24V Varistor and LED	
KA132V55T9	 FORM A 18MM	Transparent	PG9	115V Varistor and LED	
KA132R13B9	 FORM A 18MM	Black	PG9	Rectifier Circuit	Circuit 3
FORM A 18mm 4 Contacts (3 + GRND)					
KA042000B9	 FORM A 18MM	Black	PG9	No Circuit	Circuit 4
KA042000B1	 FORM A 18MM	Black	PG11	No Circuit	
KA042000B3	 FORM A 18MM	Black	1/2NPTF	No Circuit	
KA042000A9	 FORM A 18MM	Gray	PG9	No Circuit	
KA042000A1	 FORM A 18MM	Gray	PG11	No Circuit	
KA042000A3	 FORM A 18MM	Gray	1/2NPTF	No Circuit	
FORM B 11mm 3 Contacts (2 + GRND)					
KB132000B9	 FORM B 11MM	Black	PG9	No Circuit	Circuit 1
KB132V54T9	 FORM B 11MM	Transparent	PG9	24V Varistor and LED	Circuit 2
KB132V55T9	 FORM B 11MM	Transparent	PG9	115V Varistor and LED	
FORM C 8mm 3 Contacts (2 + GRND)					
KC136000B7	 FORM C 8MM	Black	PG7	No Circuit	Circuit 1
KC136V54T7	 FORM C 8MM	Transparent	PG7	24V Varistor and LED	Circuit 2
KC136V55T7	 FORM C 8MM	Transparent	PG7	115V Varistor and LED	
FORM C 9.4mm 3 Contacts (2 + GRND)					
KD136000B7	 FORM C 9.4MM	Black	PG7	No Circuit	Circuit 1
KD136V54T7	 FORM C 9.4MM	Transparent	PG7	24V Varistor and LED	Circuit 2
KD136V55T7	 FORM C 9.4MM	Transparent	PG7	115V Varistor and LED	



Circuit #3



Circuit #4



 indicates standard in stock product



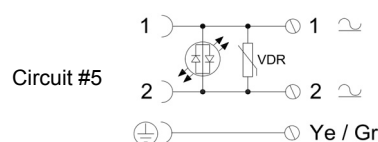
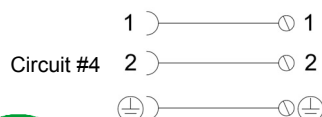
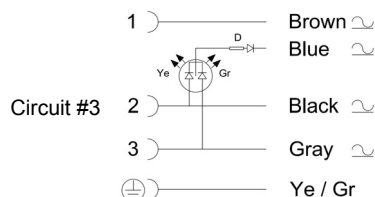
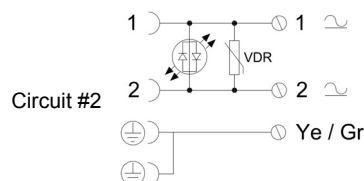
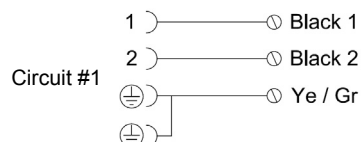
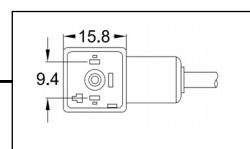
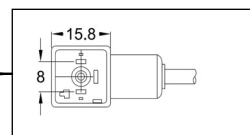
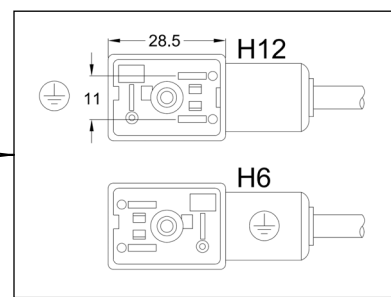
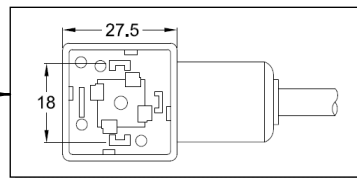
Standard
silver plated
contacts



Anti crush spigot to
prevent housing
deformation,
captive contacts
within body,
patented wire
protection plate



Part Number	Type	Cable Length	Circuit and Voltage	Contacts
FORM A 18mm				
MA134000PA05200	FORM A 18mm	6ft	Circuit 1	
MA134000PA05500	FORM A 18mm	15ft	Circuit 1	
MA634V54PA05200	FORM A 18mm	6ft	24VDC Circuit 2	
MA634V54PA05500	FORM A 18mm	15ft	24VDC Circuit 2	
MA634V55PA05200	FORM A 18mm	6ft	110VAC Circuit 2	
MA634V55PA05500	FORM A 18mm	15ft	110VAC Circuit 2	
MA634V5GPA05200	FORM A 18mm	6ft	12VDC Circuit 2	
MA634V5GPA05500	FORM A 18mm	15ft	12VDC Circuit 2	
MA635P3YPC04200	FORM A 18mm H12	6ft	Circuit 3	
MA635P3YPC04500	FORM A 18mm H12	15ft	Circuit 3	
MA636P3ZPC04200	FORM A 18mm H6	6ft	Circuit 3	
MA636P3ZPC04500	FORM A 18mm H6	15ft	Circuit 3	
FORM B 11mm				
MB135000PA05200	FORM B 11MM H12	6ft	Circuit 4	
MB135000PA05500	FORM B 11MM H12	15ft	Circuit 4	
MB136000PA05200	FORM B 11MM H6	6ft	Circuit 4	
MB136000PA05500	FORM B 11MM H6	15ft	Circuit 4	
MB635V54PA05200	FORM B 11MM H12	6ft	24VDC Circuit 5	
MB635V54PA05500	FORM B 11MM H12	15ft	24VDC Circuit 5	
MB635V55PA05200	FORM B 11MM H12	6ft	110VAC Circuit 5	
MB635V55PA05500	FORM B 11MM H12	15ft	110VAC Circuit 5	
MB636V54PA05200	FORM B 11MM H6	6ft	24VDC Circuit 5	
MB636V54PA05500	FORM B 11MM H6	15ft	24VDC Circuit 5	
MB636V55PA05200	FORM B 11MM H6	6ft	110VAC Circuit 5	
MB636V55PA05500	FORM B 11MM H6	15ft	110VAC Circuit 5	
FORM C 8mm				
MC134000PA01200	FORM C 8MM	6ft	Circuit 1	
MC134000PA01500	FORM C 8MM	15ft	Circuit 1	
MC634V54TA01200	FORM C 8MM	6ft	24VDC Circuit 2	
MC634V54TA01500	FORM C 8MM	15ft	24VDC Circuit 2	
MC634V55TA01200	FORM C 8MM	6ft	110VAC Circuit 2	
MC634V55TA01500	FORM C 8MM	15ft	110VAC Circuit 2	
FORM D 9.4mm				
MD134000PA01200	FORM C 9.4MM	6ft	Circuit 1	
MD134000PA01500	FORM C 9.4MM	15ft	Circuit 1	
MD634V54TA01200	FORM C 9.4MM	6ft	24VDC Circuit 2	
MD634V54TA01500	FORM C 9.4MM	15ft	24VDC Circuit 2	
MD634V55TA01200	FORM C 9.4MM	6ft	110VAC Circuit 2	
MD634V55TA01500	FORM C 9.4MM	15ft	110VAC Circuit 2	



The molded cable connectors have an insulation protection when installed correctly of IP67.
Factory assembly procedure shown here

indicates standard in stock product



Installation



Protective Cover



Over Molding

Specifications	
Voltage	24-240V AC/DC 50/60Hz
Absorption Current	4mA
Operating Temp	-10°C - +50°C / 14°F - +122°F
Insulation	IP65 – EN60529
Switch Holding Voltage	400V
Switch Capacity	1A
Inrush Current	10A for 10ms
Duty Cycle	100% ED
Switch Life	3 x 10 ³

The following timers are normally used on condensate dump valve on pressurized air receivers and vessels. However they can be used for other timed circuits based on the user application.

Digital and Analogue types are available.

Model XY-2000

Digital Timer



- Maximum absorption current: 4mA
- Class protection: IP65-EN 60529
- Supply voltage: 240V AC/DC, 50Hz/60Hz
- CE marked timer
- Maximum switch holding voltage: 400V
- Switch capacity: 1A
- Inrush current: 10A for 10ms
- Duty cycle: 100% ED
- Operating temperature: -10 to +50°C
- Switch lifespan: 3 x 10, 8

Time on (power to valve)

0.5 to 9.5s step 0.5s

OR

10 to 99sec step 1s

Time off (no power to valve)

0.5 to 9.5min step 0.5min

OR

10 to 99min step 1min

- Indicators: green LED for on, red LED for off
- Manual override: test
- Termination: DIN43650A
- Requires Form A DIN Connector options available on previous two pages



Model XY-720

Analogue Timer



- Supply voltage: 24 to 240V AC/DC, 50/60Hz
- Maximum absorption current: 4mA
- Operating temperature: -10 to +50°C
- Class protection: IP65-EN 60529
- Maximum switch holding voltage: 400V
- Switch capacity: 1A
- Inrush current: 10A for 10ms
- Duty cycle: 100% ED
- **Time on (power to valve)**
From 0.5 to 10s
- **Time off (no power to valve)**
From 0.5 to 45 minutes
- Indicator: yellow LED
- Manual override: test
- Termination: DIN 43650A
- Certification: CE
- Requires Form A DIN Connector options available on previous two pages

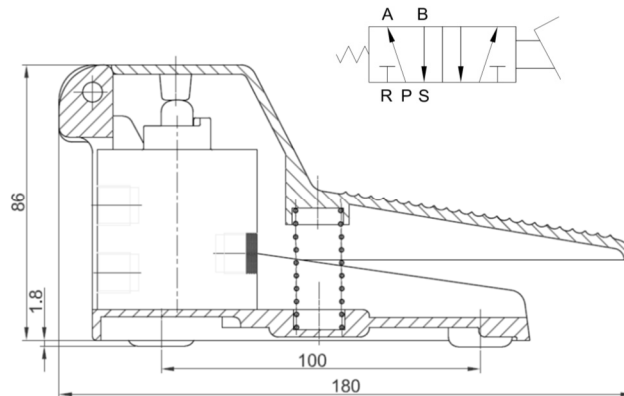
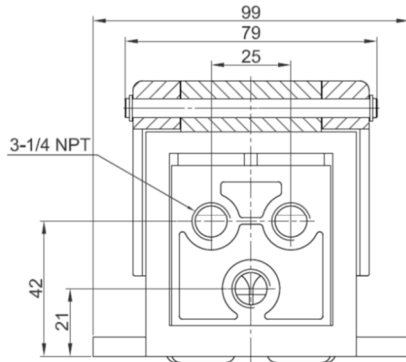


Three standard types of foot pedal valve as shown below. Other types are available such as 3-way models. Please enquire. All ports for supply and signal and exhaust are 1/4NPT.

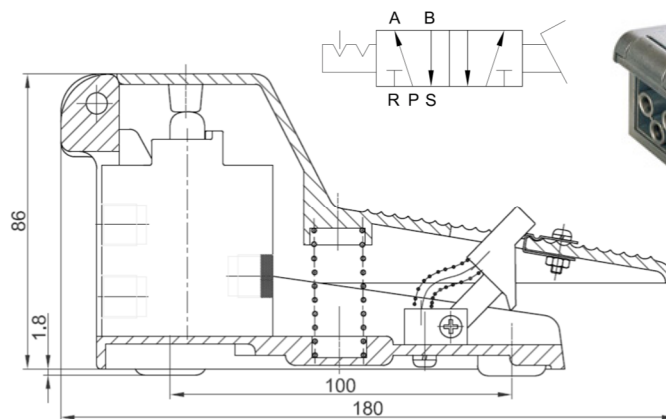
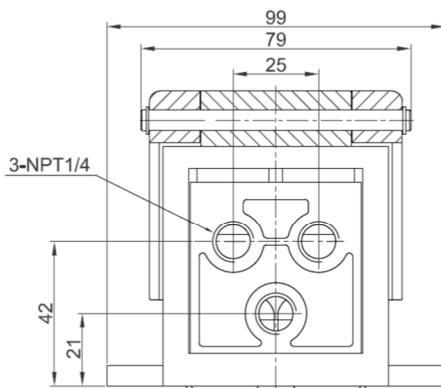
- 5 Port Two Position (N4F210-08)
- 5 Port Two Position With Latching Detent (N4F210-08L)
- 5 Port Two Position With Foot Guard (N4F210-08G)

Dimensions (mm)

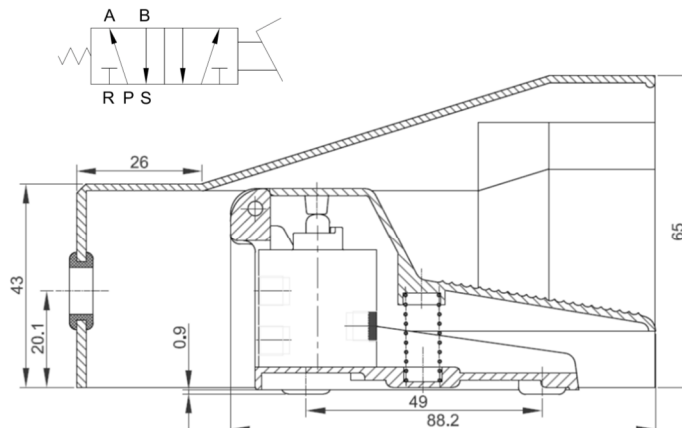
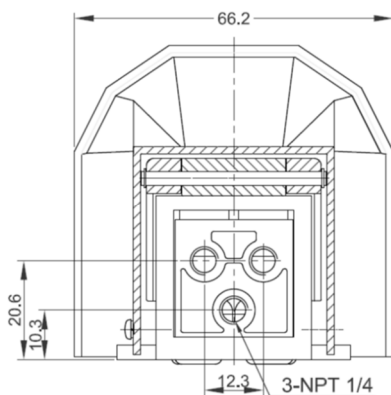
N4F210-08 



N4F210-08L 



N4F210-08G 



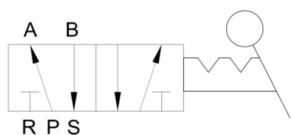
The N4H is available in 1/8, 1/4, 3/8 and 1/2NPT ports with either a 5/2 or 5/3 operation.

An ergonomically designed rubber handle with a dust cover to prevent debris from interfering with the lever mechanism, this valve design ensures reliability and long life. The M22 thread offers a panel mount installation option.

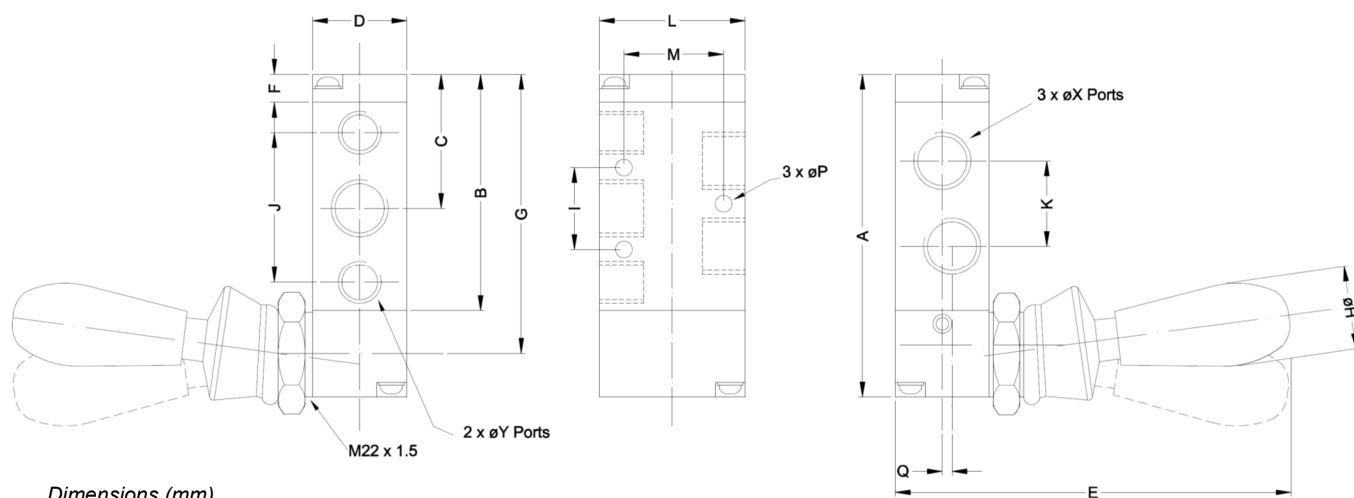
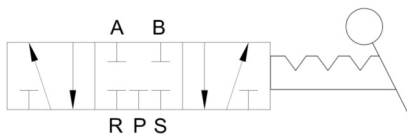
Finished in hard anodized black aluminum.

Dimensions (mm)

N4H ***-** 2 position



N4H ***-C** 3 position

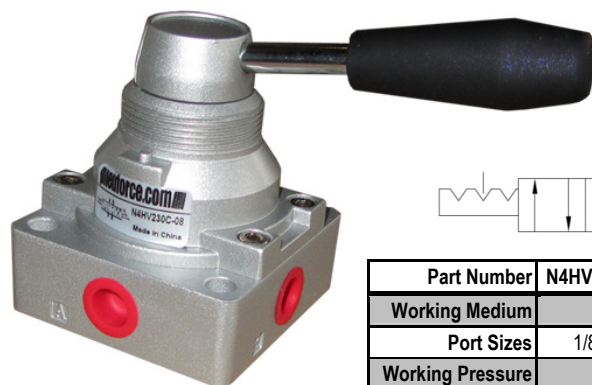


Dimensions (mm)

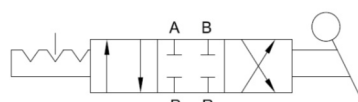
	N4H210-08 	N4H230C-08 	N4H310-10 	N4H330C-10 	N4H410-15 	N4H430C-15 
Type	2 position	3 position	2 position	3 position	2 position	3 position
A	76	95	96	115	126	147
B	56.5	75.5	72	91	102	123
C	31.5	31.5	40	60	55.5	76.5
D	22	22	27	27	34	34
E	95	95	100	100	110	110
F	6.5	6.5	7.5	7.5	7.5	7.5
G	66.5	85.5	84	103	114	135
ØH	18	18	18	18	18	18
I	20	20	24	24	28	28
J	36	36	45	45	63	63
K	21	21	24	24	36	36
L	35	35	40	40	50	50
M	21	21	27	27	35	35
X Ports	1/8NPT	1/8NPT	3/8NPT	3/8NPT	1/2NPT	1/2NPT
Y Ports	1/4NPT	1/4NPT	3/8NPT	3/8NPT	1/2NPT	1/2NPT
P	4.3	4.3	4.3	4.3	5.5	5.5
Q	1.5	1.5	2	2	-	-

N4HV Rotary Valve

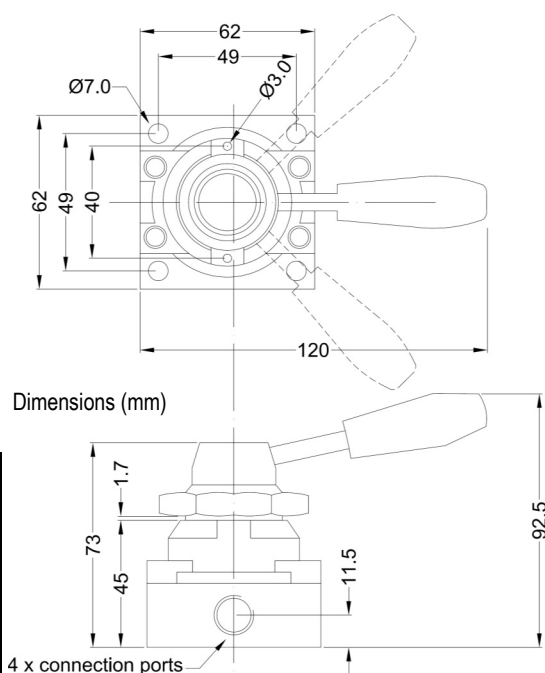
The N4HV is available in 1/8 and 1/4 NPT ports (*3/8 and 1/2 models available please inquire*) and is used to mount directly to the machinery it is being used on. This selection valve is commonly used for the manual actuation of pneumatic cylinders and other pneumatic devices. The ceramic valve plate ensures a consistent performance and life.



Larger models with 3/8 or 1/2" ports available. Please contact.



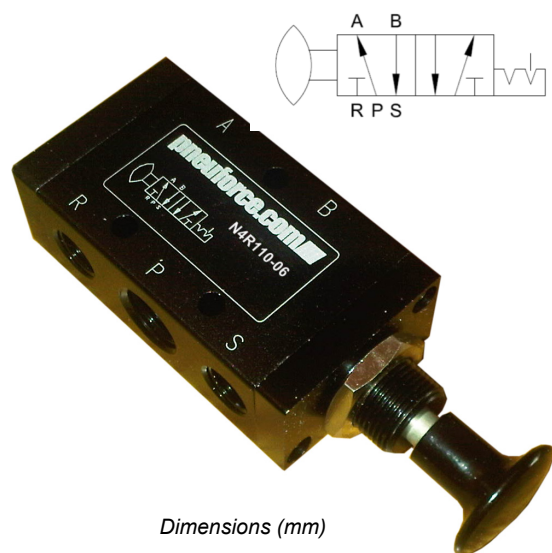
Part Number	N4HV230C-06	N4HV230C-08 
Working Medium	40 Micron Air	
Port Sizes	1/8NPT	1/4NPT
Working Pressure	150psi(g)	
Test Pressure	180psi(g)	
Max Temperature	32 - 140°F	
Working Angle	90° (2 x 45°)	



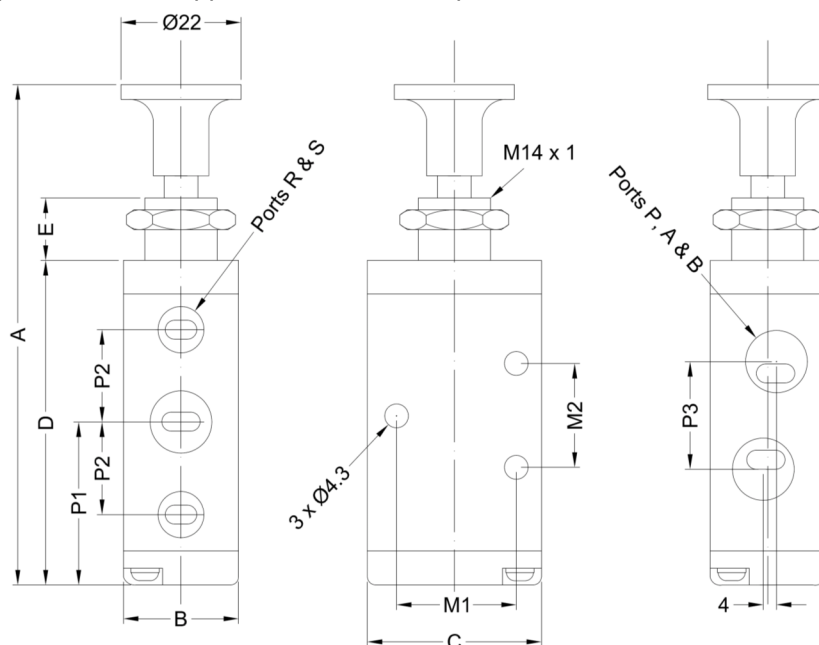
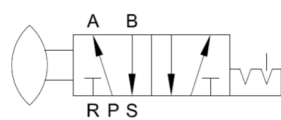
N4R Push-Pull Valve

The N4R valves are used in applications where a simple “push-pull” operation is required. An ergonomically designed handle allows a definite and positive feel to valve actuation. The handle which is Ø22mm (7/8") diameter, is available in special styles and designs to suit user application. Please enquire.

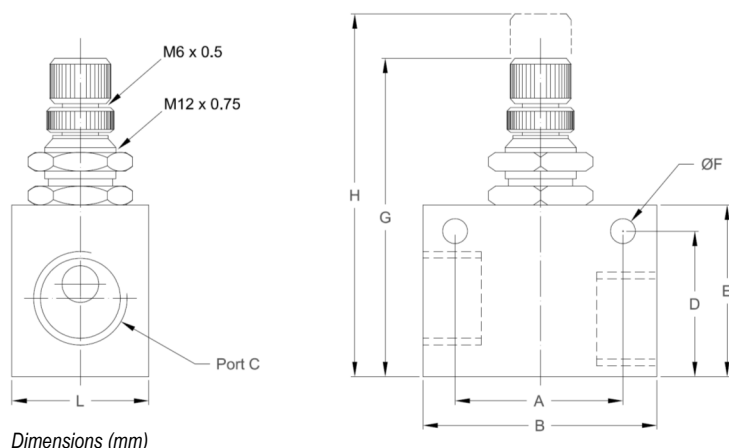
Finished in hard anodized black aluminum.



Dimensions (mm)



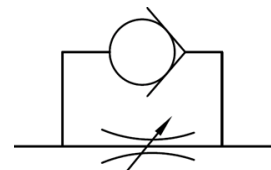
Model	A	B	C	D	E	P1	P2	P3	M1	M2	Ports R,S	Ports P,A,B
N4R110-06 	102	18	27	59	13	27	14	16	19	14	1/8NPT	1/8NPT
N4R210-08 	98	22	35	64	13	32	18	21	24	20	1/8NPT	1/4NPT
N4R310-10 	115	27	40	79	13	40	22.5	24	27	24	1/4NPT	3/8NPT



Dimensions (mm)

The NASC flow controls are lightweight, very compact and are ideal for heavy duty applications.

The included lock nut allows installation in panel mount applications.



Model	A	B	C	D	E	ØF	G	H	K	L
NASC-06 	22	32	1/8NPT	22	27	4.3	49.7	56.5	12	18
NASC-08 	26	36	1/4NPT	22	27	4.3	49.7	56.5	12	18
NASC-10 	28	40	3/8NPT	25	30	4.3	52.7	59.5	13	22
NASC-15 	28	40	1/2NPT	30	35	4.3	58.7	65.5	13.5	26

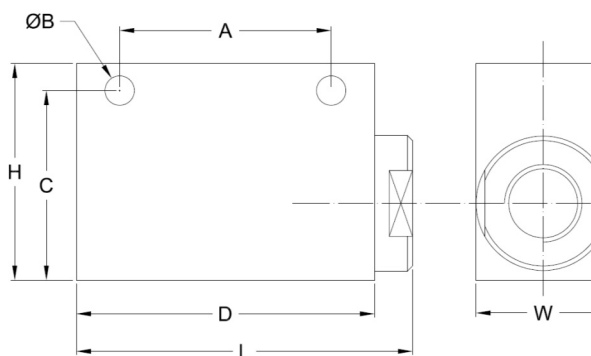
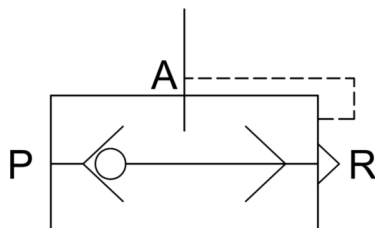


NQE Quick Exhaust Valve

Part Number	NQE-01	NQE-02	NQE-03	NQE-04
Effective cross section area	16mm ²	27.5mm ²	28mm ²	71mm ²
Port size	1/8NPT	1/4NPT	3/8NPT	1/2NPT
Working medium	Compressed Air			
Maximum Working pressure	0-150psi(g) (0-10bar)			
Max. Ambient Temperature	32-140°F (0-60°C)			

Quick exhaust valves are used to increase the speed of pneumatic cylinders by dumping the exhaust stream directly at the cylinder port instead of back through the control valve.

The NQE is available in 4 sizes up to 1/2NPT and manufactured in aluminum with an anodized finish.



Dimensions (mm)

Part Number	Thread	L	W	H	A	ØB	C	D
NQE-01 	1/8NPT	46	20	32	30	4.3	27	40
NQE-02 	1/4NPT	62	25	40	39	5.6	33.5	55
NQE-03 	3/8NPT	62	25	40	39	5.6	33.5	55
NQE-04 	1/2NPT	98	38	64	-	-	-	90

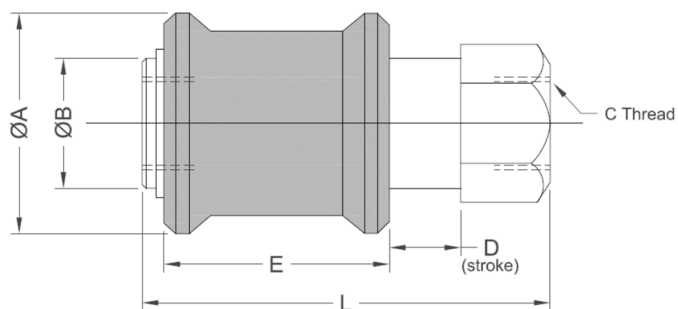
NHSV Slide Valves



The NHSV slide valve is a simple ON/OFF isolation valve. It is compact unlike its predecessor, the typical ball valve. The 3/2 operation vents the downstream machine pressure when the valve is turned off.

Produced with an anodized finish and in NPT ports. G thread ports are also available.

Part Number	NHSV-01	NHSV-02	NHSV-03	NHSV-04
Thread Size (C)	1/8NPT	1/4NPT	3/8NPT	1/2NPT
Orifice Size	4mm	7mm	10mm	12mm
Working Medium	Air			
Working Pressure	0-150psi(g)			
Ambient Temperature	32 - 140°F			
Sliding Force	20N			



Dimensions (mm)

Model	NHSV-01	NHSV-02	NHSV-03	NHSV-04
A	25	30	35	40
B	13	18	21	26
C	1/8NPT	1/4NPT	3/8NPT	1/2NPT
D	9	11	14	15
E	28	32	39	45
F	14	19	22	27
L	48	58	68	80

NKA Check Valves

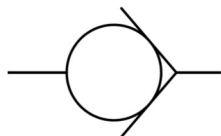
These check valves are able to be used on both pressure and vacuum systems. The crack pressure when being used in a vacuum operation is 10"Hg / 700mbar(a) or 532Torr.

Pressure Connections

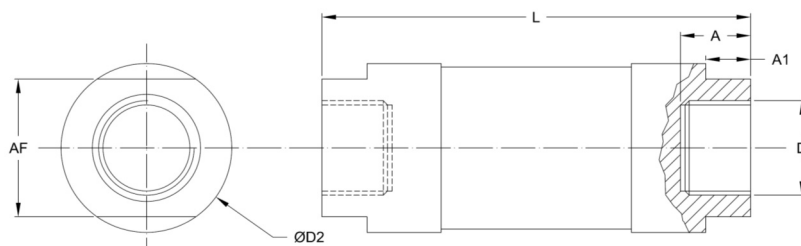
P – Pressure Supply A – Application

Vacuum Connections

P – Application A – Vacuum Source



	NKA-06 	NKA-08 	NKA-10 	NKA-15 
Working Medium	40 micron filtered air			
Port	1/8NPT	1/4NPT	3/8NPT	1/2NPT
Operating Temp	0-60°C / 32-140°F			
Working Pressure	5-150psi(g)			
Crack Pressure	5psi(g)			
Maximum Pressure	225psi(g)			



Dimensions (mm)

Model	Aperture	A	A1	D	ØD2	L	AF
NKA-6	6	10	6	1/8NPT	25	63	22
NKA-8	8	12	6	1/4NPT	25	63	22
NKA-10	10	14	10	3/8NPT	38	81	34
NKA-15	15	14	10	1/2NPT	38	81	34



AP25 Series



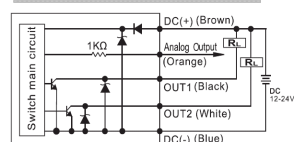
AP30 Series

The AP25 and AP30 are the same fundamental switch with regards to performance and selection criteria. They only differ in physical form and size.

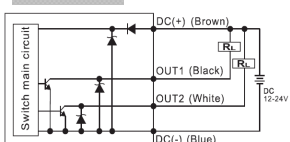
Available in the following configurations.

- COMPOUND 29.9"Hg - +14.7psi(g)
- PRESSURE -14.7psi(g) - 150psi(g)
- VACUUM 0 - 29"Hg (0 - 101.3KPa)

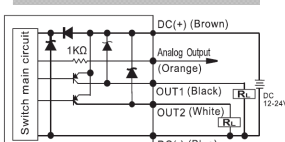
(01) NPN + ANALOGUE



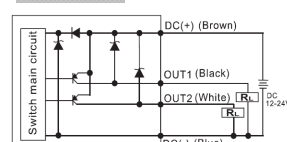
(02) NPN



(03) PNP + ANALOGUE



(04) PNP



	AP25	AP30
Media	Non lubricated dry air or non corrosive gas	
Maximum Over Pressure	43.5psi(g)	
Electrical Connection	M8 4 Pin male connector (analogue models – 6ft lead wire)	
Operating Voltage	12 – 24VDC ±10%	
Current Consumption	≤55mA	
Display	4 Digit 7 Segment Red LED (	
Display Units	kPa, MPa, kgf/cm ² , bar, psi, inHg, mmHg, mmH ₂ O	
Repeatability	≤2% F.S ± 1 digit	
Hysteresis	Adjustable	
Response Time	≤2.5ms (chatter proof selectable 24, 192 & 768ms)	
Indicator	OUT1 = Green LED OUT2 = Red LED	
Analogue Output	1 to 5V ≤ ±5% F.S Linearity ≤ ±1% F.S	
Insulation	IP65	IP40
Ambient Temp.	0-50°C (32-122°F)	
Vacuum / Pressure Port	1/8NPT Female	
Shock Resistance	980m/s (100G) 3 times in each direction X,Y & Z	
Weight	71g	35g

AP25 V 01 - F2 - QD

Series
25
30

M8 Male – non
analogue only

Type
C - Compound
P - Pressure
V - Vacuum

Output
01 – 2 x NPN + 1 x Analogue
02 – 2 x NPN
03 – 2 x PNP + 1 x Analogue
04 – 2 x PNP

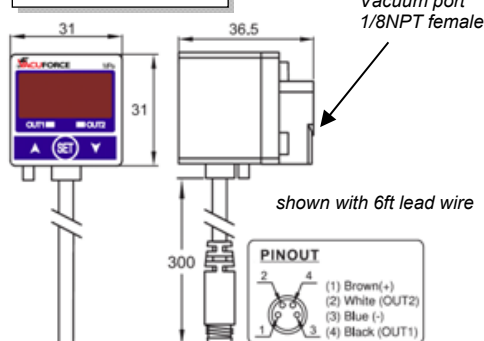
M8 Connectors
for QD Models



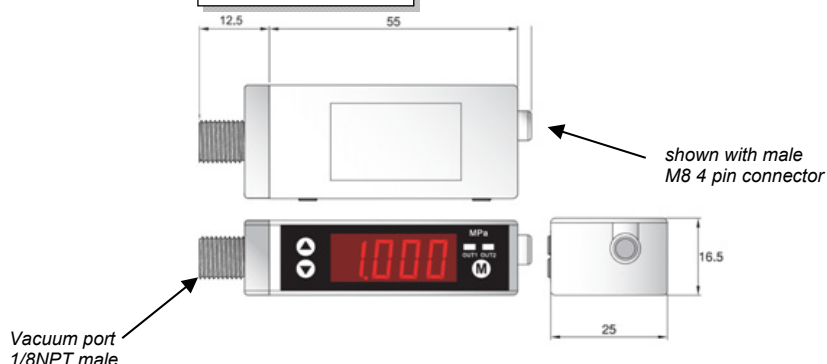
C8-I-F-4A-5M	15ft Straight Connector
C8-L-F-4A-5M	15ft 90° Connector

all dimensions are mm

AP25 Series



AP30 Series



Pressure & Vacuum Measurement

	AP10V	AP10P
Media	Non lubricated dry air or non corrosive gas	
Maximum Over Pressure	AP10V 87psi	AP10P 217psi
Electrical Connection	M8 3 Pin male connector or 9ft lead wire	
Operating Voltage	10.8 – 30VDC (includes ripple voltage)	
Load Current	90mA max.	
Repeatability	≤1% F.S ± 1 digit	
Hysteresis	3% F.S. max	
Response Time	≤2.5ms (chatter proof selectable 24, 192 & 768ms)	
Indicator	Red LED turns on	
Insulation	IP40	
Ambient Temp.	0-60°C (32-140°F)	
Vacuum / Pressure Port	Push In Stem for Fitting or 1/8NPT Male	
Shock Resistance	980m/s (100G) 3 times in each direction X,Y & Z	
Weight	50g with 9ft cable	

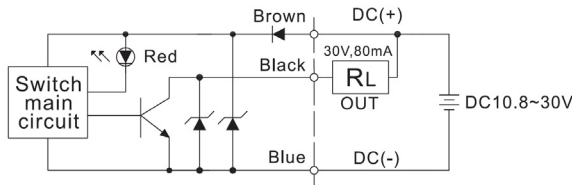
The AP10 series of Micro Sensors are able to be installed at the point of use.

With extremely small dimensions these adjustable sensors are available for both pressure and vacuum applications.

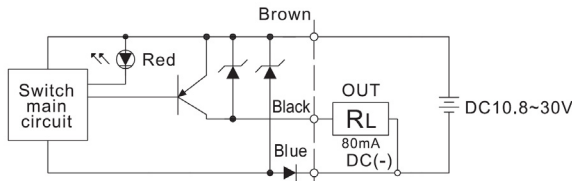


- PRESSURE -14.7psi(g) - 150psi(g)
- VACUUM 0 - 29"Hg (0 - -101.3KPa)

NPN



PNP



AP10 V - 04 - 1/4 - C

Series
10

Blank – 9ft cable
C – M8 3Pin male connector

Type
P - Pressure
V - Vacuum

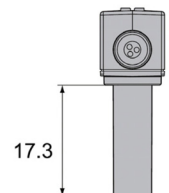
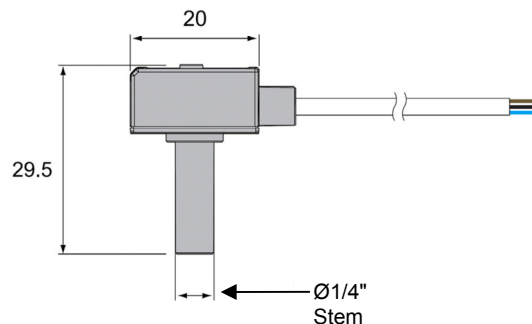
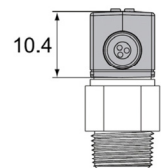
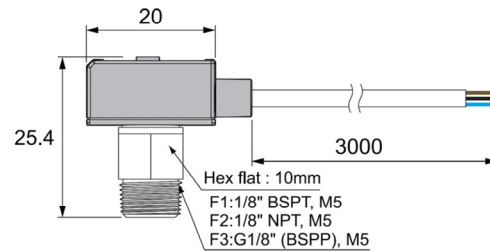
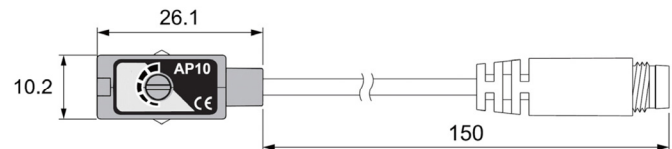
Output
02 – 2 x NPN
04 – 2 x PNP

Port Connection
1/4 - Ø1/4" Stem
F2 - 1/8NPT Male
M5 Female

Recommended Accessories
PC1/4 stud fittings



PE1/4 union elbow

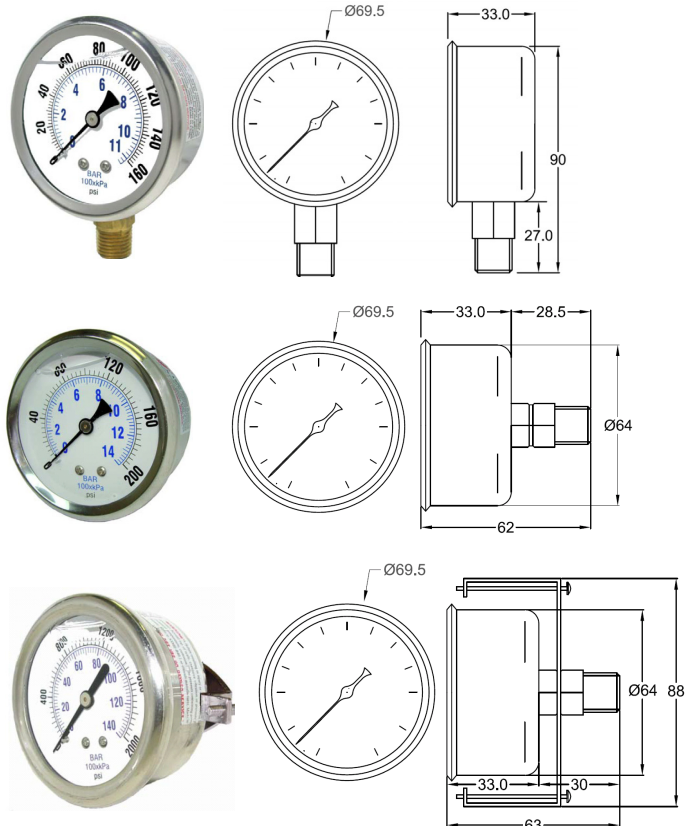


All dimensions are mm

Stainless Steel Case Gauges

Part Number	Dial Ø	Pressure Range	Port	Port Position
SEC-201L-254A	2.5"	30"Hg Vacuum	1/4NPT	Stem Mount
SEC-201L-254F	2.5"	160psi	1/4NPT	
SEC-201L-254N	2.5"	1,500psi	1/4NPT	
SEC-201L-254P	2.5"	3,000psi	1/4NPT	
SEC-201L-254R	2.5"	5,000psi	1/4NPT	
SEC-201L-254U	2.5"	10,000psi	1/4NPT	
SEC-202L-254A	2.5"	30"Hg Vacuum	1/4NPT	Centre Back Mount
SEC-202L-254F	2.5"	160psi	1/4NPT	
SEC-202L-254N	2.5"	1,500psi	1/4NPT	
SEC-202L-254P	2.5"	3,000psi	1/4NPT	
SEC-202L-254R	2.5"	5,000psi	1/4NPT	
SEC-202L-254U	2.5"	10,000psi	1/4NPT	
SEC-203L-254A	2.5"	30"Hg Vacuum	1/4NPT	Panel Mount Centre Back Connection
SEC-203L-254F	2.5"	160psi	1/4NPT	
SEC-203L-254N	2.5"	1,500psi	1/4NPT	
SEC-203L-254P	2.5"	3,000psi	1/4NPT	
SEC-203L-254R	2.5"	5,000psi	1/4NPT	
SEC-203L-254U	2.5"	10,000psi	1/4NPT	

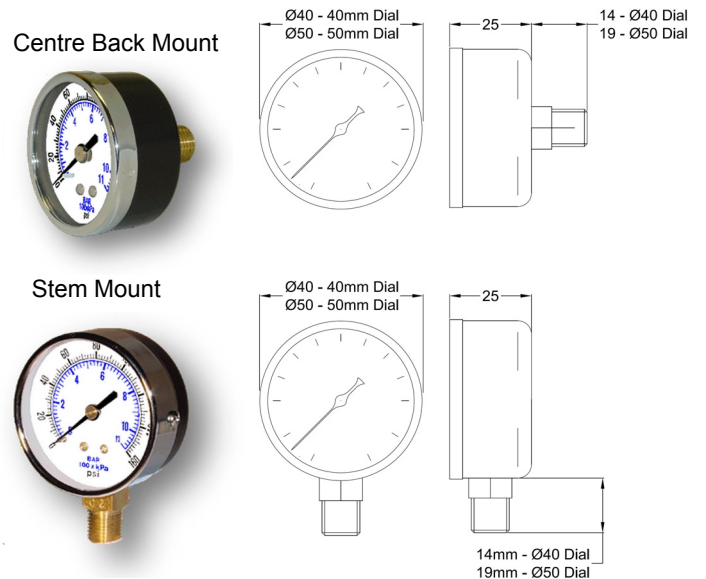
All dimensions are mm



- Dial Sizes: 2 1/2"
- Stainless Steel Case and Bezel
- Wetted Parts: Brass (with built-in snubber)
- Bourdon Tube: Phosphor Bronze
- Lens: Plastic
- Liquid Filled
- Accuracy : 3-2-3 %
- Dual Scale : PSI & Bar (x100=kPa)
- Ambient temperature: 30°F to 160°F

Carbon Steel Case Gauges

Part Number	Dial Ø	Pressure Range	Port	Port Position
102D-158C	1.5"	30psi	1/8NPT	Centre Back Mount
102D-158A		30"Hg Vacuum	1/8NPT	
102D-158D		60psi	1/8NPT	
102D-158F		160psi	1/8NPT	
101D-158C		30psi	1/8NPT	
101D-158A		30"Hg Vacuum	1/8NPT	
101D-158D	2.0"	60psi	1/8NPT	Stem Mount
101D-158F		160psi	1/8NPT	
102D-204C		30psi	1/4NPT	Centre Back Mount
102D-204A		30"Hg Vacuum	1/4NPT	
102D-204D		60psi	1/4NPT	
102D-204F		160psi	1/4NPT	
101D-204C		30psi	1/4NPT	Stem Mount
101D-204A		30"Hg Vacuum	1/4NPT	
101D-204D		60psi	1/4NPT	
101D-204F		160psi	1/4NPT	



- Dial Sizes: 1.5", 2.0"
- Case Material: Black Steel Case With Chrome Bezel
- Wetted Parts: Phosphor Bronze
- Lens: Plastic Lens
- Accuracy : 3-2-3 %
- Dual Scale: PSI & Bar (x100=kPa)
- Ambient temperature: 30°F to 160°F

How To Order

Plastic Body – Brass Nickel Plated Threads

PC 1/4 – N1

Tube Size ØOD

Tubing – inch and mm

Thread – NPT, BSPP(G) and Universal

Fitting Model	
PC	Male Connector
POC	Male Round Connector
PCF	Female Connector
PL	Male Elbow
PLH	Male 45° Elbow
PLL	Extended Male Elbow
PLF	Female Elbow
PB	Branch Tee
PD	Run Tee
PX	Branch Y
PH	Universal Elbow
PHF	Universal Female Elbow
PMF	Female Bulkhead
JSC	Flow Control
JSU	Inline Flow Control
PM	Bulkhead Union
PU	Straight Union
PV	Union Elbow
PE	Union Tee
PY	Union Y
PG	Reducing Straight Union
PW	Reducing Union Y
PGJ	Plug in Reducer
PEG	Reducing Tee Union
PZA	Union Cross
PP	Plug
PLJ	Plug In Elbow
PLGJ	Plug In Reducing Elbow
PYJ	Plug In Y
PWJ	Plug In Reducing Elbow
PIJ	Nipple
PIG	Reducing Nipple

Thread Type	
U	10-32UNF (M5)
N1	1/8NPT
N2	1/4NPT
N3	3/8NPT
N4	1/2NPT
U01	1/8 Universal
U02	1/4 Universal
U03	3/8 Universal
U04	1/2 Universal



One touch “push in” fittings are used to connect pneumatic tubing to various fluid power valves, cylinders and associated equipment. The tubing can be attached and reattached many times without damaging the tube or fitting. All threads are nickel plated. NPT tapered threads have a pre-coated thread sealant applied for ease of assembly. Universal Tri Thread fittings and 10-32UNF threads utilize an NBR O Ring seal.

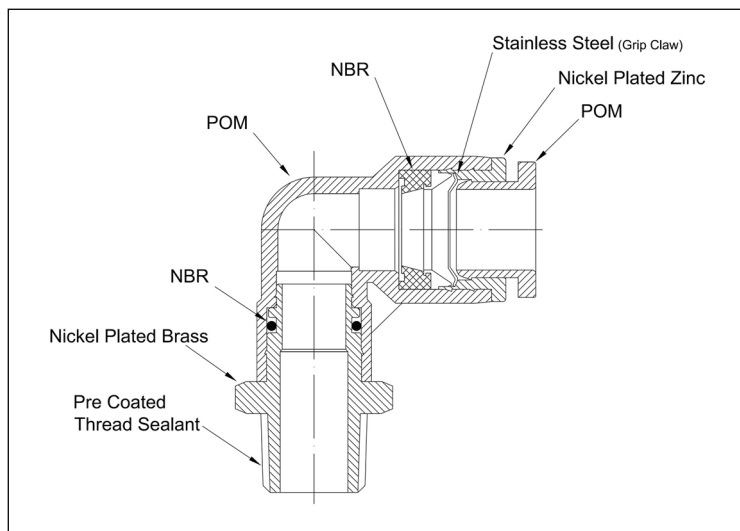


Fluid Medium	Air
Working Pressure	0-150 psi(g) / 10bar(g)
Proof Pressure	450psi(g) / 30bar(g)
Vacuum Duty	29.5”Hg / 27mbar(a)
Working Temperature	32-140°F / 0-60°C (high temperature models available upon request)

NPT Thread Fittings

The pneuforce.com NPT fittings are suitable for inch size tubing. Tube sizes available: 1/8”, 5/32”, 3/16”, 1/4”, 5/16”, 3/8” & 1/2”.

It should be noted that 5/32” is identical in diameter to 4mm and 5/16” is identical to 8mm tubing. It should also be noted that 10-32UNF is the same thread form as the metric M5 model.



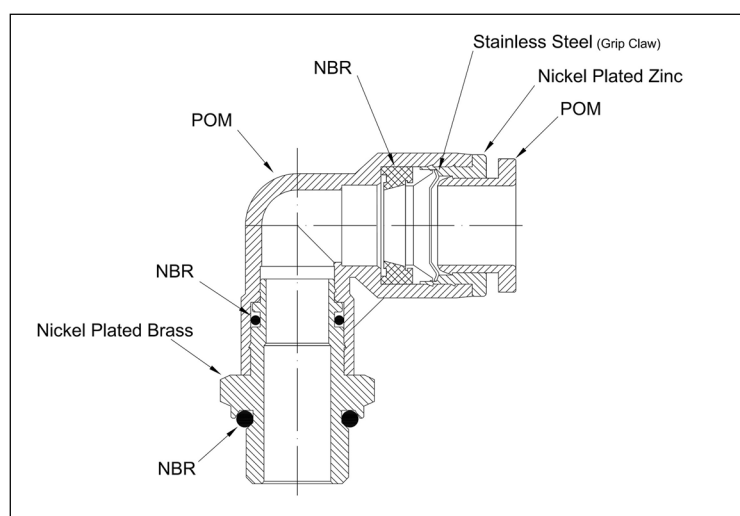
Tri Thread Universal Fittings

The pneuforce.com TRI THREAD fittings have been developed to connect with global fluid power products. With many factories in North America using a mix of NPT (American) and BSPP (Europe and Asia) threads, there is some confusion as to what male threads should be used or stocked by fluid power users.

Therefore the universal thread form of the TRI THREAD series has been developed to enable the connection of 1/8, 1/4, 3/8 and 1/2 male threads into the following female thread forms.

NPT, NPSF, BSPP(G), BSPT(R)

Tubing sizes available:
1/8”, 5/32”, 3/16”, 1/4”, 5/16”, 3/8” & 1/2”
4mm, 6mm, 8mm, 10mm & 12mm.



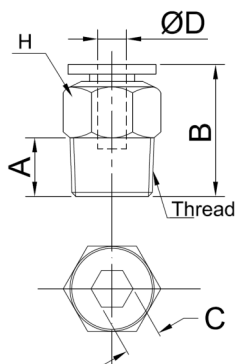
Due to the design of this thread form, the time taken to install the fittings has been dramatically decreased. The following procedure should be used when installing TRI THREAD fittings.

By hand, screw the TRI THREAD fitting into the female thread until the O ring seal pushes against the face of the component.

Using a suitably sized wrench, continue to tighten the fitting by turning clockwise by a further 1/4 turn.

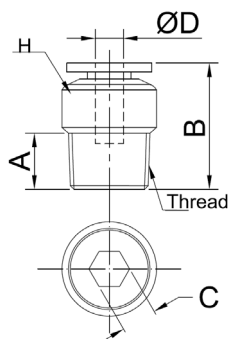
Unlike a tapered thread, the seal is made via an O ring seal which is captive in the TRI THREAD. It is not an interference fit like that of male and female tapered threads. The TRI THREAD can seal repeatedly.

Male Connector



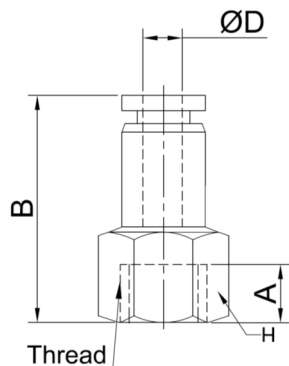
MODEL	Tube ØD	THREAD	A (mm)	B (mm)	H (inch)	C	
PC1/8-U	1/8	10-32UNF	3.8	20.3	7/16"	3/32"	
PC1/8-N1		1/8NPT	7.5	19.8			
PC5/32-U	5/32 (4mm)	10-32UNF	3.8	20.3			9/16"
PC5/32-N1		1/8NPT	7.5	19.8			
PC5/32-N2	3/16	1/4NPT	10.5	18.9	9/16"		
PC3/16-U		10-32UNF	3.8	20.9		9/16"	
PC3/16-N1		1/8NPT	7.5	20.6	9/16"		
PC3/16-N2		1/4NPT	10.5	23.7		11/16"	
PC3/16-N3		3/8NPT	11.0	21.2			1/2"
PC1/4-U	1/4	10-32UNF	3.8	21.2	3/32"		
PC1/4-N1		1/8NPT	7.5	20.9		5/32"	
PC1/4-N2		1/4NPT	10.5	23.7	9/16"		
PC1/4-N3		3/8NPT	11.0	21.2			
PC5/16-N1	5/16 (8mm)	1/8NPT	7.5	25.9	3/16"		
PC5/16-N2		1/4NPT	10.5	25.9		7/32"	
PC5/16-N3		3/8NPT	11.0	22.4	11/16"		
PC3/8-N1	3/8	1/8NPT	7.5	28.2		3/16"	
PC3/8-N2		1/4NPT	10.5	30.5			7/32"
PC3/8-N3		3/8NPT	11.0	27.5		5/16"	
PC3/8-N4		1/2NPT	14.0	25.8			7/8"
PC1/2-N2	1/2	1/4NPT	10.5	33.9	1/4"		
PC1/2-N3		3/8NPT	11.0	30.4		5/16"	
PC1/2-N4		1/2NPT	14.0	33.4	5/16"		

Male Round Connector



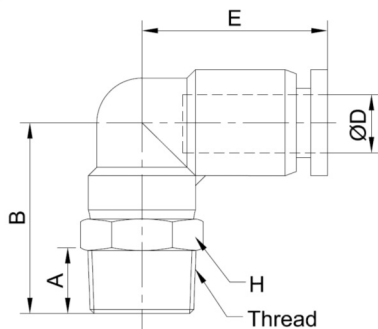
MODEL	Tube ØD	THREAD	A (mm)	B (mm)	H (mm)	C		
POC1/8-U	1/8	10-32UNF	3.8	20.3	Ø10.0	3/32"		
POC1/8-N1		1/8NPT	7.5	19.8				
POC5/32-U	5/32 (4mm)	10-32UNF	3.8	20.3			Ø12.0	5/32"
POC5/32-N1		1/8NPT	7.5	19.8				
POC1/4-U	1/4	10-32UNF	3.8	21.2	Ø14.0	3/16"		
POC1/4-N1		1/8NPT	7.5	20.9				
POC1/4-N2	5/16 (8mm)	1/4NPT	10.5	23.7			Ø17.0	7/32"
POC5/16-N1		1/8NPT	7.5	25.9				
POC5/16-N2		1/4NPT	10.5	25.9				
POC5/16-N3		3/8NPT	11.0	22.4				
POC3/8-N2	3/8	1/4NPT	10.5	30.5	Ø21.0	5/16"		
POC3/8-N3		3/8NPT	11.0	27.5				
POC3/8-N4		1/2NPT	14.0	25.8				
POC1/2-N2	1/2	1/4NPT	10.5	33.9			Ø21.0	1/4"
POC1/2-N3		3/8NPT	11.0	30.4				
POC1/2-N4		1/2NPT	14.0	33.4				

Female Connector



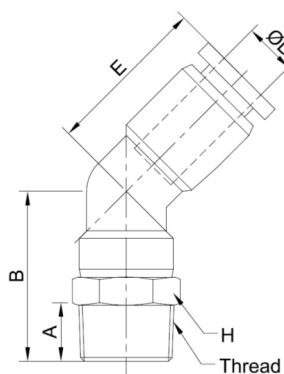
MODEL	Tube ØD	THREAD	A	B	H
PCF1/8-U	1/8	10-32UNF	4	23.8	7/16"
PCF1/8-N1		1/8NPT	7.5		9/16"
PCF5/32-N1	5/32 (4mm)	1/8NPT	7.5	26.8	11/16"
PCF5/32-N2		1/4NPT	10.5		9/16"
PCF3/16-N1	3/16	1/8NPT	7.5	27.4	11/16"
PCF3/16-N2		1/4NPT	10.5		9/16"
PCF1/4-N1	1/4	1/8NPT	7.5	24.9	11/16"
PCF1/4-N2		1/4NPT	10.5		11/16"
PCF5/16-N1	5/16 (8mm)	1/8NPT	7.5	29.9	7/8"
PCF5/16-N2		1/4NPT	10.5		11/16"
PCF5/16-N3		3/8NPT	11.0	31.2	7/8"
PCF3/8-N2	3/8	1/4NPT	10.5		
PCF3/8-N3		3/8NPT	11.0	34.4	7/8"
PCF1/2-N2	1/2	1/4NPT	10.5		
PCF1/2-N3		3/8NPT	11.0	34.9	

Male Swivel Elbow



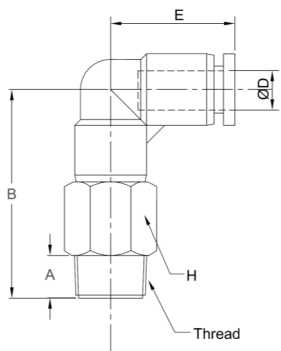
MODEL	Tube ØD	THREAD	A	B	E	H
PL1/8-U	1/8	10-32UNF	3.8	22.0	17.5	7/16"
PL1/8-N1		1/8NPT				
PL5/32-U	5/32 (4mm)	10-32UNF	7.5	24.0	17.5	9/16"
PL5/32-N1		1/8NPT				
PL5/32-N2	3/16	1/4NPT	10.5	28.0	17.8	11/16"
PL3/16-U		10-32UNF	3.8	22.0		
PL3/16-N1		1/8NPT	7.5	24.5		
PL3/16-N2	1/4	1/4NPT	10.5	28.0	19.0	11/16"
PL3/16-N3		3/8NPT	11.0	29.0		
PL1/4-U	1/4	10-32UNF	3.8	24.4	19.0	1/2"
PL1/4-N1		1/8NPT	7.5	25.7		
PL1/4-N2		1/4NPT	10.5	29.2		
PL1/4-N3	5/16 (8mm)	3/8NPT	11.0	30.2	22.8	9/16"
PL5/16-N1		1/8NPT	7.5	29.5		
PL5/16-N2		1/4NPT	10.5	32.5		
PL5/16-N3	3/8	3/8NPT	11.0	33.5	26.3	11/16"
PL3/8-N1		1/8NPT	7.5	34.3		
PL3/8-N2		1/4NPT	10.5	37.3		
PL3/8-N3	1/2	3/8NPT	11.0	37.8	29.6	7/8"
PL3/8-N4		1/2NPT	14.0	41.3		
PL1/2-N2	1/2	1/4NPT	10.5	39.5	29.6	7/8"
PL1/2-N3		3/8NPT	11.0	40.0		
PL1/2-N4	1/2	1/2NPT	14.0	43.0	29.6	7/8"

Male 45° Swivel Elbow



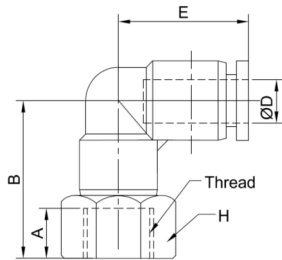
MODEL	Tube ØD	THREAD	A	B	E	H
PLH1/8-U	1/8	10-32UNF	3.8	20.7	16.5	7/16"
PLH1/8-N1		1/8NPT	7.5	22.7		
PLH5/32-U	5/32 (4mm)	10-32UNF	3.8	20.7	16.5	9/16"
PLH5/32-N1		1/8NPT	7.5	22.7		
PLH5/32-N2	3/16	1/4NPT	10.5	26.7	17.4	7/16"
PLH3/16-U		10-32UNF	3.8	20.7		
PLH3/16-N1		1/8NPT	7.5	23.2		
PLH3/16-N2	1/4	1/4NPT	10.5	26.7	17.7	14.3
PLH3/16-N3		3/8NPT	11.0	27.7		
PLH1/4-U	1/4	10-32UNF	3.8	23.1	17.7	12.7
PLH1/4-N1		1/8NPT	7.5	24.4		
PLH1/4-N2		1/4NPT	10.5	27.9		
PLH1/4-N3	5/16 (8mm)	3/8NPT	11.0	28.9	20.9	17.4
PLH5/16-N1		1/8NPT	7.5	27.6		
PLH5/16-N2		1/4NPT	10.5	30.6		
PLH5/16-N3	3/8	3/8NPT	11.0	31.6	22.2	22.2
PLH3/8-N1		1/8NPT	7.5	30.2		
PLH3/8-N2		1/4NPT	10.5	33.2		
PLH3/8-N3	1/2	3/8NPT	11.0	33.7	26.3	22.2
PLH3/8-N4		1/2NPT	14.0	37.2		
PLH1/2-N2	1/2	1/4NPT	10.5	36.2	26.3	22.2
PLH1/2-N3		3/8NPT	11.0	36.7		
PLH1/2-N4	1/2	1/2NPT	14.0	39.7	26.3	22.2

Male Extended Swivel Elbow



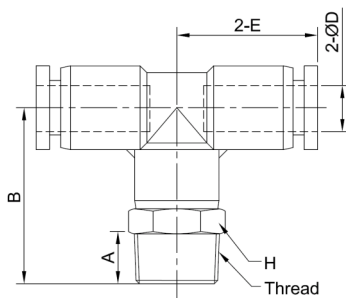
MODEL	Tube ØD	THREAD	A	B	E	H
PLL1/8-U	1/8	10-32UNF	3.8	33.5	17.5	7/16"
PLL1/8-N1		1/8NPT	7.5	36.0		
PLL5/32-U	5/32 (4mm)	10-32UNF	3.8	33.5	17.8	9/16"
PLL5/32-N1		1/8NPT	7.5	36.0		
PLL3/16-N1	3/16	1/8NPT	7.5	36.0	19.0	11/16"
PLL3/16-N2		1/4NPT	10.5	39.5		
PLL3/16-N3		3/8NPT	11.0	40.5		
PLL1/4-N1	1/4	1/8NPT	7.5	39.7	22.8	11/16"
PLL1/4-N2		1/4NPT	10.5	43.2		
PLL1/4-N3		3/8NPT	11.0	44.2		
PLL5/16-N1	5/16 (8mm)	1/8NPT	7.5	44.8	26.3	7/8"
PLL5/16-N2		1/4NPT	10.5	47.8		
PLL5/16-N3		3/8NPT	11.0	48.8		
PLL3/8-N2	3/8	1/4NPT	10.5	56.3	29.6	7/8"
PLL3/8-N3		3/8NPT	11.0	57.8		
PLL3/8-N4		1/2NPT	14.0	61.3		
PLL1/2-N2	1/2	1/4NPT	10.5	62.5	29.6	7/8"
PLL1/2-N3		3/8NPT	11.0	63.0		
PLL1/2-N4	1/2	1/2NPT	14.0	66.0	29.6	7/8"

Female Swivel Elbow



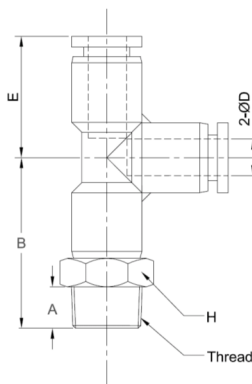
MODEL	TUBE ØD	THREAD	A	B	E	H
PLF1/8-U	1/8	10-32UNF	3.8	23.5	17.5	9/16
PLF5/32-N1	5/32 (4mm)	1/8NPT	7.5			
PLF3/16-N1	3/16	1/8NPT	7.5	23.8	17.8	11/16"
PLF3/16-N2		1/4NPT	10.5	26.5		
PLF1/4-N1	1/4	1/8NPT	7.5	24.9	19.0	9/16
PLF1/4-N2		1/4NPT	10.5	27.9		11/16"
PLF5/16-N1	5/16 (8mm)	1/8NPT	7.5	27.5	22.8	9/16
PLF5/16-N2		1/4NPT	10.5	31.0		
PLF5/16-N3	3/8	3/8NPT	11.0	32.0	26.3	7/8"
PLF3/8-N2		1/4NPT	10.5	35.3		
PLF3/8-N3	1/2	3/8NPT	11.0	35.8	29.6	7/8"
PLF1/2-N3		3/8NPT	11.0	37.5		
PLF1/2-N4		1/2NPT	14.0	40.5		

Branch Tee



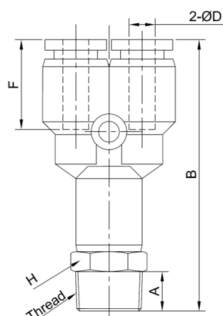
MODEL	Tube ØD	THREAD	A	B	E	H
PB1/8-U	1/8	10-32UNF	3.8	23.0	18.5	7/16"
PB1/8-N1	5/32 (4mm)	1/8NPT	7.5	25.0		
PB5/32-U		10-32UNF	3.8	29.0	18.8	9/16
PB5/32-N1	3/16	1/8NPT	7.5	25.5		
PB5/32-N2		1/4NPT	10.5	29.0	19.3	11/16"
PB3/16-U	3/16	10-32UNF	3.8	24.7		
PB3/16-N1		1/8NPT	7.5	26.0	22.75	9/16
PB3/16-N2	1/4	1/4NPT	10.5	29.5		
PB3/16-N3		3/8NPT	11.0	30.5	27.0	11/16"
PB1/4-U	1/4	10-32UNF	3.8	29.45		
PB1/4-N1		1/8NPT	7.5	32.45	29.6	7/8"
PB1/4-N2	5/16 (8mm)	1/4NPT	10.5	33.45		
PB1/4-N3		3/8NPT	11.0	35.0	27.0	11/16"
PB5/16-N1	5/16 (8mm)	1/8NPT	7.5	38.0		
PB5/16-N2		1/4NPT	10.5	38.5	29.6	7/8"
PB5/16-N3	3/8	3/8NPT	11.0	42.0		
PB3/8-N1		1/8NPT	7.5	39.5	29.6	7/8"
PB3/8-N2	1/2	1/4NPT	10.5	40.0		
PB3/8-N3		3/8NPT	11.0	43.0		
PB3/8-N4						
PB1/2-N2						
PB1/2-N3						
PB1/2-N4						

Run Tee



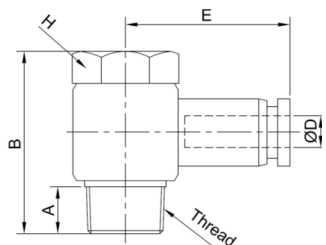
MODEL	Tube ØD	THREAD	A	B	E	H
PD1/8-U	1/8	10-32UNF	3.8	23.0	18.5	7/16"
PD1/8-N1	5/32 (4mm)	1/8NPT	7.5	25.0		
PD5/32-U		10-32UNF	3.8	29.0	18.8	9/16
PD5/32-N1	3/16	1/8NPT	7.5	25.5		
PD5/32-N2		1/4NPT	10.5	29.0	19.3	11/16"
PD3/16-U	3/16	10-32UNF	3.8	24.7		
PD3/16-N1		1/8NPT	7.5	26.0	22.75	9/16
PD3/16-N2	1/4	1/4NPT	10.5	29.5		
PD3/16-N3		3/8NPT	11.0	30.5	27.0	11/16"
PD1/4-U	1/4	10-32UNF	3.8	29.45		
PD1/4-N1		1/8NPT	7.5	32.45	29.6	7/8"
PD1/4-N2	5/16 (8mm)	1/4NPT	10.5	33.45		
PD1/4-N3		3/8NPT	11.0	35.0	27.0	11/16"
PD5/16-N1	5/16 (8mm)	1/8NPT	7.5	38.0		
PD5/16-N2		1/4NPT	10.5	38.5	29.6	7/8"
PD5/16-N3	3/8	3/8NPT	11.0	42.0		
PD3/8-N1		1/8NPT	7.5	39.5	29.6	7/8"
PD3/8-N2	1/2	1/4NPT	10.5	40.0		
PD3/8-N3		3/8NPT	11.0	43.0		
PD3/8-N4						
PD1/2-N2						
PD1/2-N3						
PD1/2-N4						

Branch 'Y'



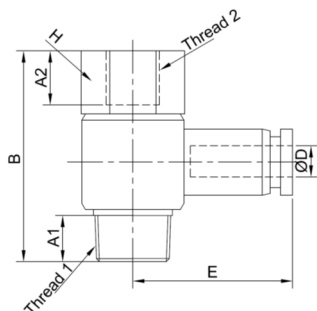
MODEL	Tube ØD	THREAD	A	B	F	H
PX1/8-U	1/8	10-32UNF	3.8	40.0	14	7/16"
PX1/8-N1		1/8NPT	7.5	42.0		
PX5/32-U	5/32 (4mm)	10-32UNF	3.8	40.0		
PX5/32-N1		1/8NPT	7.5	42.0		
PX5/32-N2		1/4NPT	10.5	46.0		
PX3/16-U	3/16	10-32UNF	3.8	40.3	9/16	9/16"
PX3/16-N1		1/8NPT	7.5	42.8		
PX3/16-N2		1/4NPT	10.5	46.3		
PX3/16-N3		3/8NPT	11.0	47.3		
PX1/4-U	1/4	10-32UNF	3.8	42.5	14.8	1/2"
PX1/4-N1		1/8NPT	7.5	43.8		
PX1/4-N2		1/4NPT	10.5	47.3		
PX1/4-N3		3/8NPT	11.0	48.3		
PX5/16-N1	5/16 (8mm)	1/8NPT	7.5	47.1	18.2	9/16
PX5/16-N2		1/4NPT	10.5	50.1		
PX5/16-N3		3/8NPT	11.0	51.1		
PX3/8-N1	3/8	1/8NPT	7.5	55.1	19.5	11/16"
PX3/8-N2		1/4NPT	10.5	58.1		
PX3/8-N3		3/8NPT	11.0	58.6		
PX3/8-N4		1/2NPT	14.0	62.1		
PX1/2-N2	1/2	1/4NPT	10.5	63.1	21.6	7/8"
PX1/2-N3		3/8NPT	11.0	63.6		
PX1/2-N4		1/2NPT	14.0	66.6		

Universal Elbow



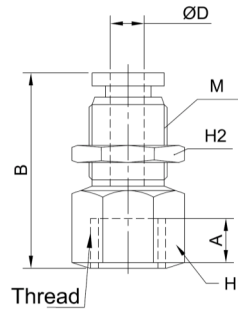
MODEL	TUBE ØD	THREAD	A	B	H	E
PH1/8-U	1/8	10-32UNF	3.8	17.0	8.0	20.0
PH1/8-N1		1/8NPT	7.5	23.5	11.1	20.3
PH5/32-U	5/32 (4mm)	10-32UNF	3.8	17.0	8.0	20.0
PH5/32-N1		1/8NPT	7.5	23.5	11.1	22.3
PH3/16-U	3/16	10-32UNF	3.8	17.0	8.0	20.3
PH3/16-N1		1/8NPT	7.5	23.5	11.1	22.6
PH3/16-N2		1/4NPT	10.5	27.3	9/16	24.3
PH1/4-N1	1/4	1/8NPT	7.5	23.5	11.1	23.1
PH1/4-N2		1/4NPT	10.5	27.3	9/16	25.1
PH5/16-N1	5/16 (8mm)	1/8NPT	7.5	23.5	11.1	25.6
PH5/16-N2		1/4NPT	10.5	27.3	9/16	28.6
PH5/16-N3		3/8NPT	11.0	32.4	19.0	29.6
PH3/8-N2	3/8	1/4NPT	10.5	27.3	9/16	31.0
PH3/8-N3		3/8NPT	11.0	32.4	19.0	31.6
PH1/2-N3	1/2	3/8NPT	11.0	32.4	19.0	35.6
PH1/2-N4		1/2NPT	14.0	39.1	25.4	36.6

Universal Female Elbow



MODEL	TUBE	THREAD	A1	A2	H	B	E
PHF1/8-U	1/8	10-32UNF	3.8	5.5	7/16"	19.5	20.0
PHF1/8-N1		1/8NPT	7.5	7.5	9/16"	30.0	22.3
PHF5/32-U	5/32 (4mm)	10-32UNF	3.8	5.5	7/16"	19.5	20.0
PHF5/32-N1		1/8NPT	7.5	7.5	9/16	30.0	22.3
PHF3/16-U	3/16	10-32UNF	3.8	5.5	11.1	19.5	20.3
PHF3/16-N1		1/8NPT	7.5	7.5	9/16	30.0	22.6
PHF3/16-N2		1/4NPT	10.	10.5	11/16"	35.8	24.3
PHF1/4-N1	1/4	1/8NPT	7.5	7.5	9/16	30.0	23.1
PHF1/4-N2		1/4NPT	10.	10.5	11/16"	35.8	25.1
PHF5/16-N1	5/16 (8mm)	1/8NPT	7.5	7.5	9/16	30.0	25.6
PHF5/16-N2		1/4NPT	10.	10.5	11/16"	35.8	28.6
PHF5/16-N3		3/8NPT	11.0	11.0	7/8"	40.9	29.6
PHF3/8-N2	3/8	1/4NPT	10.	10.5	11/16"	35.8	31.0
PHF3/8-N3		3/8NPT	11.0	11.0	7/8"	40.9	31.6
PHF1/2-N3	1/2	3/8NPT	11.0	11.0	7/8"	40.9	35.6
PHF1/2-N4		1/2NPT	14.	14.0	25.4	49.0	36.6

Female Bulkhead

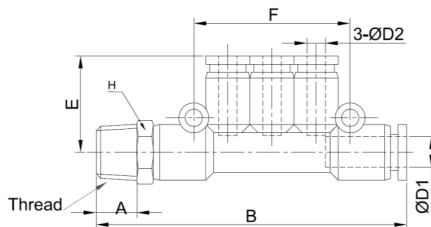


MODEL	TUBE ØD	THREAD	M	A	H1	H2	B
PMF5/32-N1	5/32 (4mm)	1/8NPT	M12	7.5	9/16	9/16	23.8
PMF3/16-N1	3/16	1/8NPT	M14	7.5			24.7
PMF3/16-N2		1/4NPT		10.5			30.4
PMF1/4-N1	1/4	1/8NPT		7.5	11/16"	11/16"	24.7
PMF1/4-N2		1/4NPT		10.5			30.4
PMF5/16-N1	5/16 (8mm)	1/8NPT	M16	7.5	19.0	19.0	27.9
PMF5/16-N2		1/4NPT		10.5			35.9
PMF5/16-N3		3/8NPT		11.0			35.4
PMF3/8-N2	3/8	1/4NPT	M20	10.5	7/8"	7/8"	31.9
PMF3/8-N3		3/8NPT		11.0			34.7
PMF1/2-N3	1/2	3/8NPT	M22	11.0	25.4	25.4	35.4
PMF1/2-N4		1/2NPT		14.0			41.4

4 Port Threaded Manifold

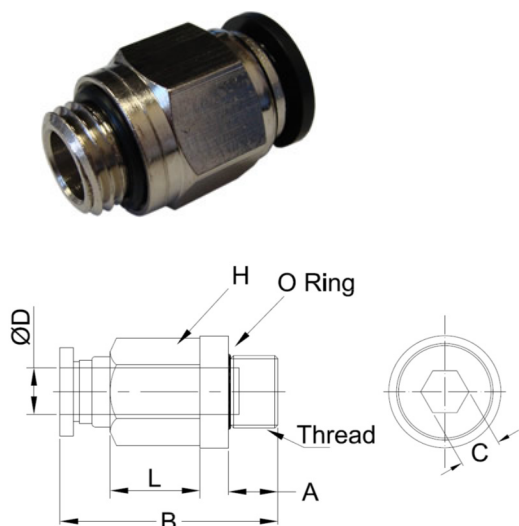


MODEL	ØD1	ØD2	H	THREAD	E	F	B	A
PKD3/16-5/32-N1	3/16	5/32 (4mm)	11.1	1/8NPT	19.0	36.0	64.3	7.5
PKD1/4-5/32-N1	1/4		12.7		19.0	36.0	64.3	
PKD5/16-5/32-N2	5/16 (8mm)	3/16	14.3	1/4NPT	20.0	42.0	72.3	10.5
PKD5/16-3/16-N2					20.3			
PKD5/16-1/4-N2		1/4			20.3			
PKD3/8-5/16-N3	3/8	5/16 (8mm)	17.4	3/8NPT	24.3	48.0	91.5	11.0



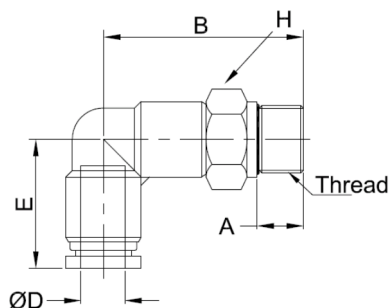
The following three pages are the unique pneuforce TRI THREAD series. These fitting threads screw into all corresponding sizes of NPT, BSPP, BSPT and NPSF female threads.

Male Connector – Universal Thread



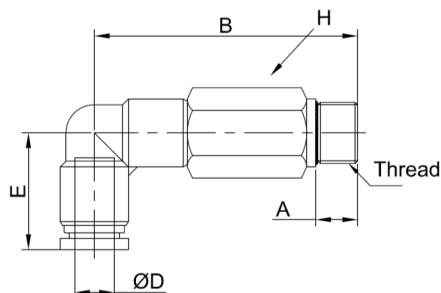
MODEL	Tube ØD	Thread	A	B	L	H	C
PC5/32-U01	5/32" (4mm)	1/8	5.0	16.6	3.9	10	3/32
PC5/32-U02		1/4	5.8			14	
PC06-M5	6	M5	4.0	21.0	6.0	12	5/32"
PC06-U01		1/8	5.0	19.9	6.7		
PC06-U02		1/4	5.8	20.4	6.4		
PC06-U03		3/8	6.8	20.0	4.5		
PC1/4-U01	1/4"	1/8	5.0	19.9	6.7	14	5/32"
PC1/4-U02		1/4	5.8	20.4	6.4		
PC1/4-U03		3/8	6.8	20.0	4.5		
PC5/16-U01	5/16" (8mm)	1/8	5.0	24.4	11.1	14	3/16"
PC5/16-U02		1/4	5.8	22.2	7.0		7/32"
PC5/16-U03		3/8	6.8	21.2	4.5		
PC3/8-U01	3/8"	1/8	5.0	26.3	11.0	17	3/16"
PC3/8-U02		1/4	5.8	27.5	13.9		7/32"
PC3/8-U03		3/8	6.8	25.0	8.9		5/16"
PC3/8-U04		1/2	8.0	22.7	4.9		
PC10-U01	10	1/8	5.0	26.3	11.0	20	5mm
PC10-U02		1/4	5.8	27.5	13.9		6mm
PC10-U03		3/8	6.8	25.0	8.9		5/16"
PC10-U04		1/2	8.0	22.7	4.9		
PC12-U02	12	1/4	5.8	31.2	12.0	20	6mm
PC12-U03		3/8	6.8	28.2	11.0		5/16"
PC12-U04		1/2	8.0	28.9	9.5		1/4"
PC1/2-U02	1/2"	1/4	5.8	31.2	12.0	20	5/16"
PC1/2-U03		3/8	6.8	28.2	11.0		
PC1/2-U04		1/2	8.0	28.9	9.5		

Male Swivel Elbow – Universal Thread



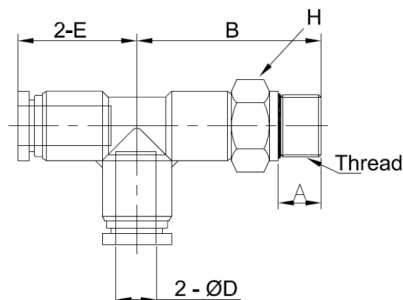
MODEL	ØD	Thread	A	B	E	H
PL1/8-U01	1/8	1/8	5.0	24.0	17.5	14
PL5/32-M5	5/32" (4mm)	M5	4.0	23.0		17
PL5/32-U01		1/8	5.0	24.0		
PL5/32-U02	6	1/4	5.8	25.3	19	14
PL06-M5		M5	4.0	25.0		17
PL06-U01		1/8	5.0	25.2		20
PL06-U02		1/4	5.8	26.5		14
PL06-U03	1/4"	3/8	6.8	28.0	22.8	17
PL1/4-U01		1/8	5.0	25.2		20
PL1/4-U02		1/4	5.8	26.5		14
PL1/4-U03	5/16" (8mm)	3/8	6.8	28.0	26.3	17
PL5/16-U01		1/8	5.0	28.5		20
PL5/16-U02		1/4	5.8	29.8		24
PL5/16-U03		3/8	6.8	31.3		17
PL5/16-U04	10	1/2	8.0	32.5	29.6	21
PL10-U01		1/8	5.0	33.3		20
PL10-U02		1/4	5.8	34.1		
PL10-U03		3/8	6.8	35.6		
PL10-U04	3/8"	1/2	8.0	37.8		17
PL3/8-U01		1/8	5.0	33.3	29.6	24
PL3/8-U02		1/4	5.8	34.1		21
PL3/8-U03		3/8	6.8	35.6		
PL3/8-U04		1/2	8.0	37.8		
PL12-U02	12	1/4	5.8	36.8	29.6	21
PL12-U03		3/8	6.8	37.8		
PL12-U04		1/2	8.0	39.5		
PL1/2-U02	1/2"	1/4	5.8	36.8		
PL1/2-U03		3/8	6.8	37.8		
PL1/2-U04		1/2	8.0	39.5		

Male Extended Swivel Elbow - Universal Thread



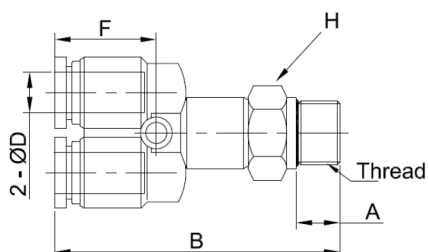
MODEL	ØD	Thread	A	B	E	H
PLL5/32-M5	5/32" (4mm)	M5	4.0	37.7	17.5	10
PLL5/32-U01		1/8	5.0	38.7		17
PLL5/32-U02		1/4	5.8	40.5		17
PLL06-M5	6	M5	4.0	38.0	19	14
PLL06-U01		1/8	5.0	38.7		17
PLL06-U02		1/4	5.8	40.5		20
PLL06-U03		3/8	6.8	42.0		24
PLL06-U04	1/4"	1/2	8.0	43.2	19	14
PLL1/4-U01		1/8	5.0	38.7		17
PLL1/4-U02		1/4	5.8	40.5		20
PLL1/4-U03		3/8	6.8	42.0		24
PLL1/4-U04	5/16" (8mm)	1/2	8.0	43.2	23	14
PLL5/16-U01		1/8	5.0	43.3		17
PLL5/16-U02		1/4	5.8	45.1		20
PLL5/16-U03		3/8	6.8	46.7		24
PLL5/16-U04	3/8"	1/2	8.0	47.8	26	17
PLL3/8-U01		1/8	5.0	52.8		20
PLL3/8-U02		1/4	5.8	54.0		24
PLL3/8-U03		3/8	6.8	55.6		24
PLL3/8-U04	10	1/2	8.0	57.8	26	17
PLL10-U01		1/8	5.0	52.8		20
PLL10-U02		1/4	5.8	54.0		24
PLL10-U03		3/8	6.8	55.6		24
PLL10-U04	12	1/2	8.0	57.8	29.6	20
PLL12-U02		1/4	5.8	56.8		24
PLL12-U03		3/8	6.8	57.8		24
PLL12-U04		1/2	8.0	59.5		24
PLL1/2-U02	1/2	1/4	5.8	56.8	29.6	20
PLL1/2-U03		3/8	6.8	57.8		24
PLL1/2-U04		1/2	8.0	59.5		24

Run Tee - Universal Thread



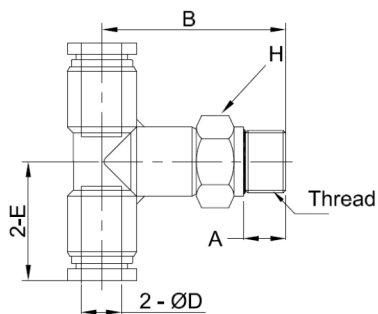
MODEL	ØD	Thread	A	B	E	H
PD5/32-U01	5/32" (4mm)	1/8	5.0	25.0	18.5	14
PD5/32-U02		1/4	5.8	26.3		17
PD06-M5	6	M5	4.0	24.5	19	14
PD06-U01		1/8	5.0	25.5		17
PD06-U02		1/4	5.8	26.8		20
PD06-U03		3/8	6.8	28.3		24
PD1/4-U01	1/4"	1/8	5.0	25.5	19	14
PD1/4-U02		1/4	5.8	26.8		17
PD1/4-U03		3/8	6.8	28.3		20
PD5/16-U01	5/16" (8mm)	1/8	5.0	28.5	22.75	14
PD5/16-U02		1/4	5.8	29.8		17
PD5/16-U03		3/8	6.8	31.3		20
PD3/8-U01	3/8"	1/8	5.0	34.0	27	17
PD3/8-U02		1/4	5.8	34.8		20
PD3/8-U03		3/8	6.8	36.3		24
PD3/8-U04		1/2	8.0	38.5		24
PD10-U01	10	1/8	5.0	34.0	27	17
PD10-U02		1/4	5.8	34.8		20
PD10-U03		3/8	6.8	36.3		24
PD10-U04		1/2	8.0	38.5		24
PD12-U02	12	1/4	5.8	36.8	30	21
PD12-U03		3/8	6.8	37.8		24
PD12-U04		1/2	8.0	39.5		24
PD1/2-U02	1/2	1/4	5.8	36.8	30	21
PD1/2-U03		3/8	6.8	37.8		24
PD1/2-U04		1/2	8.0	39.5		24

Branch 'Y' - Universal Thread



MODEL	ØD	Thread	A	B	F	H
PX5/32-U01	5/32" (4mm)	1/8	5.0	42.0	14.0	14
PX5/32-U02		1/4	5.8	43.3		17
PX06-M5	6	M5	4.0	42.5	14.8	14
PX06-U01		1/8	5.0	43.3		17
PX06-U02		1/4	5.8	44.6		20
PX06-U03		3/8	6.8	46.1		24
PX06-U04		1/2	8.0	47.3		24
PX1/4-U01	1/4"	1/8	5.0	43.3	18.2	14
PX1/4-U02		1/4	5.8	44.6		17
PX1/4-U03		3/8	6.8	46.1		20
PX1/4-U04		1/2	8.0	47.3		24
PX5/16-U01	5/16" (8mm)	1/8	5.0	46.1	19.5	14
PX5/16-U02		1/4	5.8	47.4		17
PX5/16-U03		3/8	6.8	48.9		20
PX5/16-U04		1/2	8.0	50.1		24
PX3/8-U01	3/8"	1/8	5.0	54.1	21.6	17
PX3/8-U02		1/4	5.8	54.9		20
PX3/8-U03		3/8	6.8	56.4		24
PX3/8-U04		1/2	8.0	58.6		24
PX10-U01	10	1/8	5.0	54.1	21.6	17
PX10-U02		1/4	5.8	54.9		20
PX10-U03		3/8	6.8	56.4		24
PX10-U04		1/2	8.0	58.6		24
PX12-U02	12	1/4	5.8	60.4	21.6	21
PX12-U03		3/8	6.8	61.4		24
PX12-U04		1/2	8.0	63.1		24
PX1/2-U02	1/2"	1/4	5.8	60.4		21
PX1/2-U03		3/8	6.8	61.4		24
PX1/2-U04		1/2	8.0	63.1		24

Branch Tee - Universal Thread

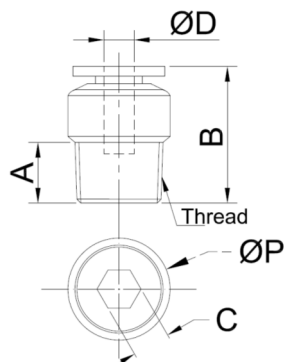


MODEL	ØD	Thread	A	B	E	H
PB5/32-U01	5/32" (4mm)	1/8	5.0	25.0	18.5	14
PB5/32-U02		1/4	5.8	26.3		17
PB06-M5	6	M5	4.0	24.5	19	14
PB06-U01		1/8	5.0	25.5		17
PB06-U02		1/4	5.8	26.8		20
PB06-U03		3/8	6.8	28.3		24
PB1/4-U01	1/4"	1/8	5.0	25.5	23	14
PB1/4-U02		1/4	5.8	26.8		17
PB1/4-U03		3/8	6.8	28.3		20
PB5/16-U01	5/16" (8mm)	1/8	5.0	28.5	27	14
PB5/16-U02		1/4	5.8	29.8		17
PB5/16-U03		3/8	6.8	31.3		20
PB5/16-U04		1/2	8.0	32.5		24
PB3/8-U02	3/8"	1/4	5.8	34.8	30	17
PB3/8-U03		3/8	6.8	36.3		20
PB3/8-U04		1/2	8.0	38.5		24
PB10-U02	10	1/4	5.8	34.8	30	17
PB10-U03		3/8	6.8	36.3		20
PB10-U04		1/2	8.0	38.5		24
PB12-U02	12	1/4	5.8	36.8	30	21
PB12-U03		3/8	6.8	37.8		24
PB12-U04		1/2	8.0	39.5		24
PB1/2-U02	1/2"	1/4	5.8	36.8	30	21
PB1/2-U03		3/8	6.8	37.8		24
PB1/2-U04		1/2	8.0	39.5		24

The following fittings are all BSPP and BSPT threaded models. For metric tube models not shown such as stud and elbows as shown on the right, please refer to the TRI THREAD series shown on preceding pages.



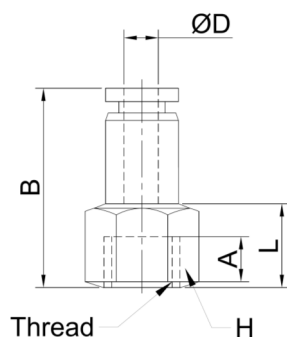
Male Round Connector



MODEL	Tube ØD	Thread	A	B	ΦP	C
POC04-M6	5/32 (4mm)	M6	4.5	20.8	10	2.0
POC04-01		R1/8	7.0	19.3		3.0
POC04-02		R1/4	9.5	17.9	14	
POC06-M5	6	M5	3.8	21.0	12	2.0
POC06-M6		M6	4.5	21.7		
POC06-01		R1/8	7.0	20.4		4.0
POC06-02		R1/4	9.5	22.7	14	
POC06-03		R3/8	10.5	20.7	17	
POC08-01	5/16 (8mm)	R1/8	7.0	25.4	14	5.0
POC08-02		R1/4	9.5	24.9		6.0
POC08-03		R3/8	10.5	21.9	17	
POC08-04		R1/2	13.5	25.9	21	
POC10-01	10	R1/8	7.0	27.7		5.0
POC10-02		R1/4	9.5	29.5	17	6.0
POC10-03		R3/8	10.5	27.0		8.0
POC10-04		R1/2	13.5	25.3	21	
POC12-02	12	R1/4	9.5	32.9	20	6.0
POC12-03		R3/8	10.5	29.9		8.0
POC12-04		R1/2	13.5	32.9	21	

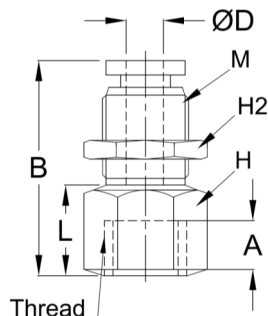
For POC04-M5 use POC5/32-U (same fitting)

Female Connector



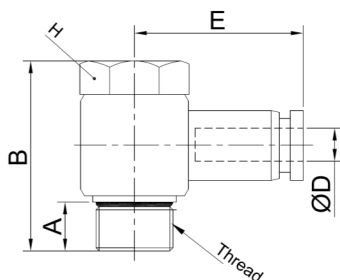
MODEL	ØD	Thread	A	B	H	L
PCF04-G01	5/32" (4mm)	G1/8	7.0	23.3	14	9.5
PCF04-G02		G1/4	9.0	25.3	17	11.5
PCF06-M5	6	M5	7.0	24.4	14	10.0
PCF06-G01		G1/8				
PCF06-G02		G1/4	9.0	26.4	17	12.0
PCF06-G03		G3/8	10.0	27.4	19	13.0
PCF08-G01	5/16" (8mm)	G1/8	7.0	25.9	14	10.0
PCF08-G02		G1/4	9.0	27.9	17	12.0
PCF08-G03		G3/8	10.0	28.9	19	13.0
PCF08-G04		G1/2	12.0	30.9	24	15.0
PCF10-G01	10	G1/8	7.0	27.7	17	10.0
PCF10-G02		G1/4	9.0	29.7		13.3
PCF10-G03		G3/8	10.0	30.7	19	14.3
PCF10-G04		G1/2	12.0	32.7	24	16.3
PCF12-G02	12	G1/4	9.0	32.9	20	11.0
PCF12-G03		G3/8	10.0	33.9		12.0
PCF12-G04		G1/2	12.0	35.9	24	15.5

Female Bulkhead



MODEL	ØD	Thread	M	A	H1	H2	L	B
PMF04-G01	5/32"	G1/8	M12	7.0	14	14	9.5	23.3
PMF04-G02	(4mm)	G1/4		9.0	17		11.6	25.4
PMF06-G01	6	G1/8	M14	7.0	17	17	7.0	24.2
PMF06-G02		G1/4		9.0	17		12.0	29.2
PMF06-G03		G3/8		10.0	19		13.0	30.2
PMF08-G01	5/16"	G1/8	M16	7.0	19	19	5.0	27.4
PMF08-G02		G1/4		9.0	19		12.0	34.4
PMF08-G03		G3/8		10.0	19		13.0	34.4
PMF08-G04		G1/2		12.0	24		15.0	36.4
PMF10-G01	10	G1/8	M20	7.0	21	24	7.7	28.4
PMF10-G02		G1/4		9.0	21		9.7	30.4
PMF10-G03		G3/8		10.0	21		13.0	33.7
PMF10-G04		G1/2		12.0	24		15.0	35.7
PMF12-G02	12	G1/4	M22	9.0	24	27	9.1	33.5
PMF12-G03		G3/8		10.0	24		10.0	34.4
PMF12-G04		G1/2		12.0	24		15.0	39.4

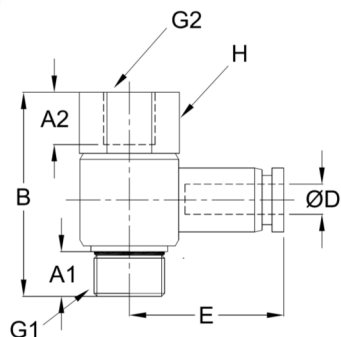
Universal Swivel Elbow



MODEL	ØD	Thread	A	B	H	E
PH04-G01	5/32"	G1/8	5.0	22.5	10	22.3
PH06-G01	(4mm)	G1/8	5.0			23.1
PH06-G02	6	G1/4	5.8	26.2	14	25.15
PH08-G01	5/16"	G1/8	5.0	22.5	10	25.6
PH08-G02		G1/4	5.8	26.2	14	28.65
PH08-G03		G3/8	6.8	31.7	19	29.6
PH10-G02	10	G1/4	5.8	26.2	14	31.05
PH10-G03		G3/8	6.8	31.7	19	31.6
PH12-G03	12	G3/8	6.8	37.1	24	35.6
PH12-G04		G1/2	8.0			36.6

For PH04-M5 use PH5/32-U (same fitting)

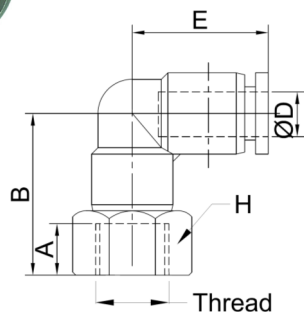
Female Swivel Elbow



MODEL	ØD	G1	G2	A1	A2	H	B	E
PHF04-G01	4	G1/8	G1/8	5.5	7.0	14	30.0	22.3
PHF06-M5	6	M5	M5	3.8	3.8			23.1
PHF06-G01		G1/8	G1/8	5.5	7.0			25.1
PHF06-G02		G1/4	G1/4	6.5	9.0	17	33.7	25.1
PHF08-G01	8	G1/8	G1/8	5.5	7.0	14	30.0	25.6
PHF08-G02		G1/4	G1/4	6.5	9.0	17	33.7	28.6
PHF08-G03		G3/8	G3/8	7.5	10.0	19	39.7	29.6
PHF10-G02	10	G1/4	G1/4	6.5	9.0	17	33.7	31.1
PHF10-G03	12	G3/8	G3/8	7.5	10.0	19	39.7	31.6
PHF12-G03						19		35.6
PHF12-G04						24		36.6

For PHF04-M5 use PHF5/32-U (same fitting)

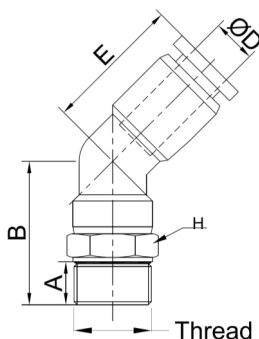
Female Elbow Connector



MODEL	ØD	Thread	A	B	E	H
PLF04-G01	5/32" (4mm)	G1/8	7.0	23.0	17.5	14
PLF04-G02		G1/4	9.0	25.0		17
PLF06-M5	6	M5	3.8	24.4	19.0	14
PLF06-G01		G1/8	7.0	24.4		14
PLF06-G02		G1/4	9.0	26.4		17
PLF06-G03		G3/8	10.0	27.7		19
PLF08-G01	5/16" (8mm)	G1/8	7.0	24.8	22.8	14
PLF08-G02		G1/4	9.0	27.0		17
PLF08-G03		G3/8	10.0	28.5		19
PLF08-G04		G1/2	12.0	30.5		24
PLF10-G01	10	G1/8	7.0	23.0	26.3	17
PLF10-G02		G1/4	9.0	29.5		19
PLF10-G03		G3/8	10.0	31.0		24
PLF10-G04		G1/2	12.0	33.5		24
PLF12-G02	12	G1/4	9.0	26.0	29.6	21
PLF12-G03		G3/8	10.0	34.0		24
PLF12-G04		G1/2	12.0	36.5		24

For PLF04-M5 use PLF5/32-U (same fitting)

Male 45° Swivel Elbow



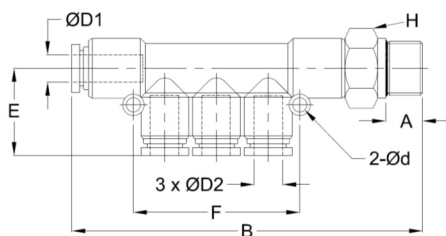
MODEL	ØD	Thread	A	B	E	H
PLH04-G01	5/32" (4mm)	G1/8	5.0	22.7	16.2	14
PLH04-G02		G1/4	5.8	24.0		17
PLH06-M5	6	M5	3.8	22.7	17.7	14
PLH06-G01		G1/8	5.0	23.9		17
PLH06-G02		G1/4	5.8	25.2		20
PLH06-G03		G3/8	6.8	26.7		24
PLH06-G04	5/16" (8mm)	G1/2	8.0	27.9	20.9	24
PLH08-G01		G1/8	5.0	26.6		14
PLH08-G02		G1/4	5.8	27.9		17
PLH08-G03		G3/8	6.8	29.4		20
PLH08-G04		G1/2	8.0	30.6		24
PLH10-G01	10	G1/8	5.0	29.2	22.2	17
PLH10-G02		G1/4	5.8	30.0		20
PLH10-G03		G3/8	6.8	31.5		24
PLH10-G04		G1/2	8.0	33.7		24
PLH12-G02	12	G1/4	5.8	33.5	26.3	21
PLH12-G03		G3/8	6.8	34.5		24
PLH12-G04		G1/2	8.0	36.2		24

For PLH04-M5 use PLH5/32-U (same fitting)

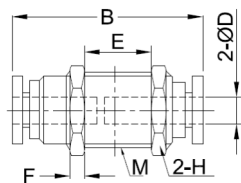
4 Port Threaded Manifold



MODEL	ØD1	ØD2	H	Thread	E	F	B	A	Ød
PKD06-04-G01	6	5/32"	14	G1/8	19.0	36	63.8	5.0	3.2
PKD08-04-G02	8	(4mm)	17	G1/4	20.0	42	69.6	5.8	
PKD08-06-G02		6			20.3				
PKD10-08-G03	10	5/16" (8mm)	20	G3/8	24.3	48	89.3	6.8	4.2

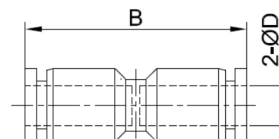


Bulkhead Union



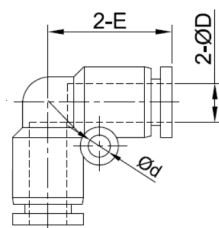
MODEL	TUBE ØD inch	M	E	B	H	F
PM1/8	1/8	M12	9.7	30.1	9/16	3.5
PM5/32	5/32					
PM3/16	3/16	M14	7.5	31.8	11/16"	3.5
PM1/4	1/4	M14	7.5	31.8	11/16"	4.0
PM5/16	5/16	M16	6.8	35.3	19.0	4.5
PM3/8	3/8	M20	8.9	36.4	7/8"	5.0
PM1/2	1/2	M22	12.8	45.3	25.4	5.0
MODEL	TUBE ØD mm	M	E	B	H	F
PM04	Use PM5/32 shown above					
PM06	6	M14	7.5	31.8	17	4.0
PM08	Use PM5/16 shown above					
PM10	10	M20	11.5	39.0	24	5.0
PM12	12	M22	12.8	45.3	27	5.0

Straight Union



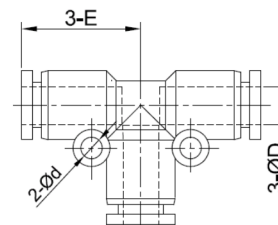
MODEL	TUBE ØD inch	B
PU1/8	1/8	33.0
PU5/32	5/32	
PU3/16	3/16	33.6
PU1/4	1/4	35.2
PU5/16	5/16	39.1
PU3/8	3/8	45.2
PU1/2	1/2	49.2
MODEL	TUBE ØD mm	B
PU04	Use PU5/32 shown above	
PU06	6	35.2
PU08	Use PU5/16 shown above	
PU10	10	45.2
PU12	12	49.2
PU16	16	51.0

Union Elbow



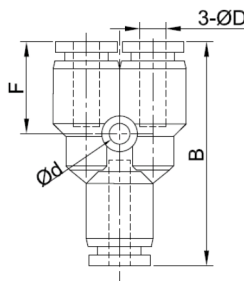
MODEL	TUBE ØD inch	Ød	E
PV1/8	1/8	3.2	17.5
PV5/32	5/32		
PV3/16	3/16	3.2	17.8
PV1/4	1/4	3.2	19.0
PV5/16	5/16	3.2	22.8
PV3/8	3/8	4.2	26.3
PV1/2	1/2	4.3	29.6
MODEL	TUBE ØD mm	Ød	E
PV04	Use PV5/32 shown above		
PV06	6	3.2	19.0
PV08	Use PV5/16 shown above		
PV10	10	4.2	26.3
PV12	12	4.3	29.6
PV16	16	5.1	33.0

Union Tee



MODEL	TUBE ØD inch	Ød	E
PE5/32	5/32	3.2	18.5
PE3/16	3/16	3.2	18.8
PE1/4	1/4	3.2	19.3
PE5/16	5/16	3.2	22.75
PE3/8	3/8	4.2	27.0
PE1/2	1/2	4.3	29.6
MODEL	TUBE ØD mm	Ød	E
PE04	Use PE5/32 shown above		
PE06	6	3.2	19.3
PE08	Use PE5/16 shown above		
PE10	10	4.2	27.0
PE12	12	4.3	29.6
PE16	16	5.1	33.0

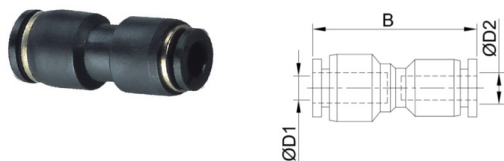
Union 'Y'



All dimensions are mm

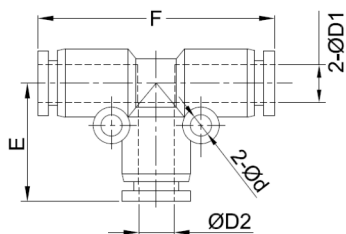
MODEL	TUBE ØD inch	Ød	B	F
PY5/32	5/32	3.2	35.5	14.0
PY3/16	3/16		36.1	9/16
PY1/4	1/4		37.1	14.8
PY5/16	5/16	4.2	40.4	18.2
PY3/8	3/8		47.1	19.5
PY1/2	1/2		53.2	21.6
MODEL	TUBE ØDmm	Ød	B	F
PY04	Use PY5/32 shown above			
PY06	6	3.2	37.1	9/16
PY08	Use PY5/16 shown above			
PY10	10	4.2	47.1	18.2
PY12	12		53.2	19.5
PY16	16	5.1	61.0	21.6

Reducing Straight Union



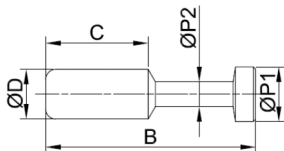
MODEL	TUBE ØD1	TUBE ØD2	B
PG3/16-5/32	3/16	5/32	33.3
PG5/32-1/8	5/32	1/8	
PG1/4-5/32	1/4	5/32	
PG1/4-3/16	1/4	3/16	
PG5/16-1/4	5/16	1/4	38.6
PG3/8-5/16	3/8	5/16	47.3
PG1/2-3/8	1/2	3/8	48.9
MODEL	TUBE ØD1	TUBE ØD2	B
PG06-04	6	4	33.6
PG08-06	8	6	36.1
PG10-08	10	8	41.8
PG12-10	12	10	46.1
PG16-12	16	12	50.1

Reducing Union Tee



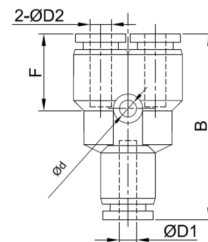
MODEL	TUBE ØD1	TUBE ØD2	Ød	E	F
PEG1/4-5/32	1/4	5/32	3.2	19.0	38.6
PEG5/16-1/4	5/16	1/4	3.2	22.3	45.5
PEG3/8-5/16	3/8	5/16	3.2	27.8	54
PEG1/2-3/8	1/2	3/8	4.2	29.3	59.2
MODEL	TUBE ØD1	TUBE ØD2	Ød	E	F
PEG06-04	6	4	3.2	19.5	38.6
PEG08-06	8	6	3.2	20.3	45.5
PEG10-08	10	8	4.2	24.8	54.0
PEG12-10	12	10	4.2	28.5	59.2
PEG16-12	16	12	5.1	32.1	66.0

Plug



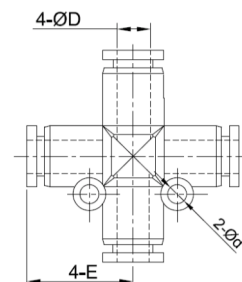
MODEL	TUBE ØD inch	B	ØP1	ØP2	C
PP5/32	5/32	28.0	5.0	3.0	15.0
PP3/16	3/16	28.0	5.0	3.0	15.0
PP1/4	1/4	33.0	7.0	3.0	17.0
PP5/16	5/16	37.0	9.0	4.0	18.0
PP3/8	3/8	42.0	11.0	5.0	20.5
PP1/2	1/2	44.0	13.0	6.0	23.0
MODEL	TUBE ØD mm	B	ØP1	ØP2	C
PP04	Use PP5/32 shown above				
PP06	6	33.0	7	3	17.0
PP08	Use PP5/16 shown above				
PP10	10	42.0	11.0	5	20.5
PP12	12	44.0	13.0	6	23.0

Reducing Y Union



MODEL	TUBE ØD1	TUBE ØD2	Ød	B	F
PW3/16-5/32	3/16	5/32	3.2	35.8	14.0
PW5/32-1/8	5/32	1/8		36.8	14.5
PW1/4-5/32	1/4	5/32		37.1	14.8
PW1/4-3/16	1/4	3/16		39.9	17.7
PW5/16-1/4	5/16	1/4	3.2	39.9	17.7
PW3/8-1/4	3/8	1/4	4.2	47.9	20.3
PW3/8-5/16	3/8	5/16	4.2	51.6	20.0
PW1/2-3/8	1/2	3/8	4.2	51.6	20.0
MODEL	TUBE ØD1	TUBE ØD2	Ød	B	F
PW06-04	6	4	3.2	36.8	14.5
PW08-06	8	6	3.2	39.9	17.7
PW10-08	10	8	4.2	47.9	20.3
PW12-10	12	10	4.2	51.6	20.0

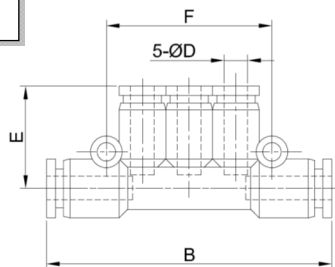
Union Cross



MODEL	TUBE ØD inch	Ød	E
PZA5/32	5/32	3.2	17.5
PZA3/16	3/16	3.2	17.8
PZA1/4	1/4	3.2	19.3
PZA5/16	5/16	3.2	22.75
PZA3/8	3/8	4.2	27.0
PZA1/2	1/2	4.3	29.6
MODEL	TUBE ØD mm	Ød	E
PZA04	Use PZA5/32 shown above		
PZA06	6	3.2	19.3
PZA08	Use PZA5/16 shown above		
PZA10	10	4.2	27.0
PZA12	12	4.3	29.6

All dimensions are mm

5 Port Equal Manifold



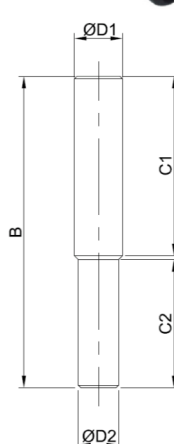
MODEL	ØD inch	F	E	B
PK5/32	5/32	36	19.0	57.0
PK3/16	3/16	36	19.3	57.6
PK1/4	1/4	42	20.3	61.6
PK5/16	5/16	48	24.3	81.6
MODEL	ØD mm	F	E	B
PK04	Use PK5/32 shown above			
PK06	6	42	20.3	61.6
PK08	8	48	24.3	81.6

Nipple



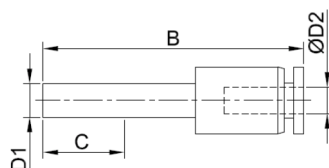
MODEL	TUBE ØD inch	B
PIJ5/32	5/32/4mm	35.0
PIJ3/16	3/16	35.0
PIJ1/4	1/4	37.0
PIJ5/16	5/16	41.0
PIJ3/8	3/8	51.0
PIJ1/2	1/2	54.0
MODEL	TUBE ØD mm	B
PIJ04	Use PIJ5/32 shown above	
PIJ06	6	37
PIJ08	8	41
PIJ10	10	51
PIJ12	12	54
PIJ16	16	58

Reducing Nipple



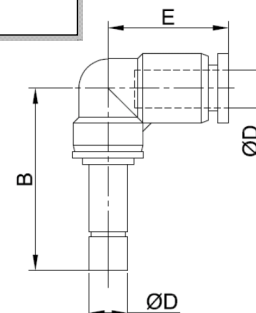
MODEL	TUBE ØD1 inch	TUBE ØD2 inch	C1	C2	B
PIG3/16-5/32	3/16	5/32	18.0	17.0	36.0
PIG1/4-5/32	1/4	5/32	18.0	17.0	
PIG1/4-3/16	1/4	3/16	18.0	17.0	
PIG5/16-1/4	3/16	1/4	20.0	18.0	39.0
PIG3/8-5/16	3/8	5/16	25.0	20.0	46.0
PIG1/2-3/8	1/2	3/8	27.0	26.0	54.0
MODEL	TUBE ØD1 mm	TUBE ØD2 mm	C1	C2	B
PIG06-04	6	4	18	17	36
PIG08-06	8	6	20	18	39
PIG10-08	10	8	25	20	46
PIG12-10	12	10	27	26	54
PIG16-12	16	12	28	28	56

Plug In Reducer



MODEL	TUBE ØD1 inch	TUBE ØD2 inch	B	C
PGJ1/4-5/32	1/4	5/32	39.5	16.0
PGJ5/16-5/32	5/16		41.5	18.6
PGJ5/16-1/4	1/4	1/4	41.8	
PGJ3/8-1/4	3/8		46.5	20.0
PGJ3/8-5/16	5/16	1/4	51.8	
PGJ1/2-1/4	1/2		52.3	23.5
PGJ1/2-5/16	5/16	3/8	51.5	
PGJ1/2-3/8	3/8			
MODEL	TUBE ØD1 mm	TUBE ØD2 mm	B	C
PGJ06-04	6	4	39.5	14.0
PGJ08-04	8		41.5	14.0
PGJ08-06	6	6	41.8	14.3
PGJ10-06	10		46.8	17.3
PGJ10-08	8	8	47.3	17.8
PGJ12-06	12		51.8	19.3
PGJ12-08	8	10	52.3	19.8
PGJ12-10	10		51.5	19.0

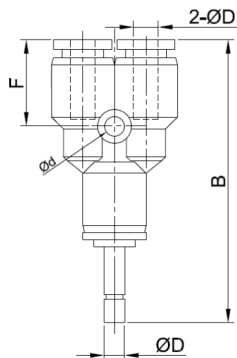
Plug In Elbow



MODEL	TUBE ØD inch	B	E
PLJ5/32	5/32	33.0	17.5
PLJ3/16	3/16	33.0	17.8
PLJ1/4	1/4	36.2	19.0
PLJ5/16	5/16	42.5	22.8
PLJ3/8	3/8	50.8	26.3
PLJ1/2	1/2	54.5	29.6
MODEL	TUBE ØD mm	B	E
PLJ04	Use PLJ5/32 shown above		
PLJ06	6	36.2	19.0
PLJ08	Use PLJ5/16 shown above		
PLJ10	10	50.8	26.3
PLJ12	12	54.5	29.6

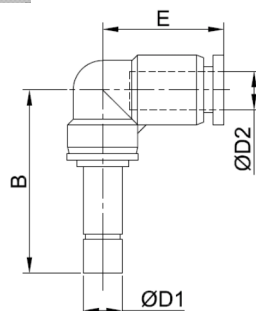
All dimensions are mm

Plug In 'Y'



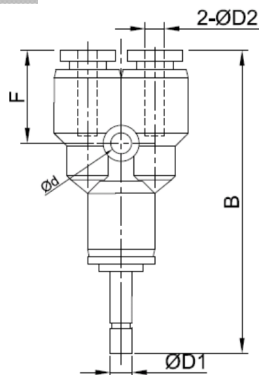
MODEL	TUBE ØD inch	Ød	B	F
PYJ5/32	5/32	3.2	51.0	14.0
PYJ3/16	3/16	3.2	51.3	9/16
PYJ1/4	1/4	3.2	54.3	14.8
PYJ5/16	5/16	3.2	60.1	18.2
PYJ3/8	3/8	4.2	71.6	19.5
PYJ1/2	1/2	4.2	78.1	21.6
MODEL	TUBE ØD mm	Ød	B	F
PYJ04	Use PYJ5/32 shown above			
PYJ06	6	3.2	54.3	14.8
PYJ08	Use PYJ5/16 shown above			
PYJ10	10	4.2	71.6	19.5
PYJ12	12	4.2	78.1	21.6

Plug In Reducing Elbow



MODEL	TUBE ØD1 inch	TUBE ØD2 mm	B	E
PLGJ3/16-5/32	3/16	5/32	33.0	17.5
PLGJ1/4-5/32	1/4	5/32	35.0	17.5
PLGJ1/4-3/16	1/4	3/16	35.0	17.5
PLGJ5/16-1/4	5/16	1/4	39.2	19.0
PLGJ3/8-5/16	3/8	5/16	42.5	22.8
PLGJ1/2-3/8	1/2	3/8	52.8	26.3
MODEL	TUBE ØD1 mm	TUBE ØD2	B	E
PLGJ06-04	6	4	35.0	17.5
PLGJ08-06	8	6	39.2	19.0
PLGJ10-08	10	8	46.5	22.8
PLGJ12-10	12	10	52.8	26.3

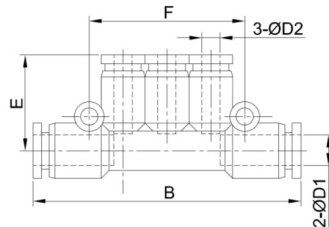
Plug In Reducing 'Y'



MODEL	TUBE ØD1 inch	TUBE ØD2 inch	Ød	B	F
PWJ1/4-5/32	1/4	5/32	3.2	53.0	14.0
PWJ5/16-1/4	5/16	1/4	3.2	57.3	14.8
PWJ3/8-5/16	3/8	5/16	4.2	64.1	18.2
PWJ1/2-3/8	1/2	3/8	4.2	73.6	19.5
MODEL	TUBE ØD1 mm	TUBE ØD2 mm	Ød	B	F
PWJ06-04	6	4	3.2	53.0	14.0
PWJ08-06	8	6	3.2	57.3	14.8
PWJ10-08	10	8	4.2	64.1	18.2
PWJ12-10	12	10	4.2	73.6	19.5

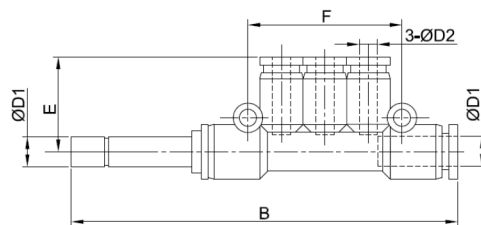
All dimensions are mm

5 Port Reducing Manifold



MODEL	ØD1 inch	ØD2 inch	E	F	B
PKG3/16-5/32	3/16	5/32	19.0	36.0	57.6
PKG1/4-5/32	1/4		20.0		
PKG5/16-5/32	5/16	3/16	20.3	42.0	62.6
PKG5/16-3/16		1/4	23.8		
PKG3/8-1/4	3/8	5/16	24.3	48.0	80.0
PKG3/8-5/16		3/4	25.4		
MODEL	ØD1 mm	ØD2 mm	E	F	B
PKG06-04	6	4	19.0	36	57.6
PKG08-04	Use PKG5/16-5/32 shown above				
PKG08-06	8	6	20.3	42	62.6
PKG10-06	10	8	23.8	48	80.0
PKG10-08		10	25.4		

4 Port Stem Manifold



MODEL	ØD1 inch	ØD2 inch	E	F	B
PKJ3/16-5/32	3/16	5/32	19.0	36.0	72.8
PKJ1/4-5/32	1/4		19.0		
PKJ5/16-5/32	5/16	3/16	20.0	42.0	82.3
PKJ5/16-3/16		1/4	20.3		
PKJ5/16-1/4	3/8	5/16	23.8	48.0	104.5
PKJ3/8-1/4		3/4	24.3		
PKJ3/8-5/16	3/8	5/16	24.3	48.0	104.5
PKJ3/8-1/2		3/4	25.4		
MODEL	ØD1 mm	ØD2 mm	E	F	B
PKJ06-04	6	4	19.0	36	74.8
PKJ08-04	Use PKJ5/16-5/32 shown above				
PKJ08-06	8	6	20.3	42	82.3
PKJ10-06	10	8	23.8	48	104.5
PKJ10-08		10	25.4		

All dimensions are mm



These all brass nickel plated push to connect fittings have been developed for use in harsh environments and applications.

Designed for low and high temperature operation these fittings exceed all normal criteria expected of a standard push to connect fitting.

The unique universal threads enable connection to all female BSPP, BSPT, NPT and NPSF threads.

SPECIFICATIONS

Minimum Operating Temperature -40°C / -40°F
Maximum Operating Temperature +120°C / +248°F

Minimum Operating Pressure 29"Hg (vacuum)
Maximum Operating Pressure 12bar(g) / 176psi(g)

Male Stud – Universal Thread



MODEL	ØD	Thread
BPC06-U01	6mm	1/8
BPC06-U02		1/4
BPC1/4-U01	1/4"	1/8
BPC1/4-U02		1/4
BPC5/16-U01	5/16" (8mm)	1/8
BPC5/16-U02		1/4
BPC3/8-U01	3/8"	1/8
BPC3/8-U02		1/4
BPC3/8-U03	10mm	3/8
BPC10-U01		1/8
BPC10-U02		1/4
BPC10-U03	12mm	3/8
BPC12-U03		1/2
BPC12-U04	1/2"	3/8
BPC1/2-U03		1/2
BPC1/2-U04		1/2
		1/2

Male Swivel Elbow – Universal Thread



MODEL	ØD	Thread
BPL06-U01	6mm	1/8
BPL06-U02		1/4
BPL1/4-U01	1/4"	1/8
BPL1/4-U02		1/4
BPL5/16-U01	5/16" (8mm)	1/8
BPL5/16-U02		1/4
BPL3/8-U01	3/8"	1/8
BPL3/8-U02		1/4
BPL3/8-U03	10mm	3/8
BPL10-U01		1/8
BPL10-U02		1/4
BPL10-U03	12mm	3/8
BPL12-U03		1/2
BPL12-U04	1/2"	3/8
BPL1/2-U03		1/2
BPL1/2-U04		1/2
		1/2

Branch Tee – Universal Thread



MODEL	ØD	Thread
BPB06-U01	6mm	1/8
BPB06-U02		1/4
BPB1/4-U01	1/4"	1/8
BPB1/4-U02		1/4
BPB5/16-U01	5/16" (8mm)	1/8
BPB5/16-U02		1/4
BPB3/8-U01	3/8"	1/8
BPB3/8-U02		1/4
BPB3/8-U03	10mm	3/8
BPB10-U01		1/8
BPB10-U02		1/4
BPB10-U03	12mm	3/8
BPB12-U03		1/2
BPB12-U04	1/2"	3/8
BPB1/2-U03		1/2
BPB1/2-U04		1/2
		1/2

Run Tee – Universal Thread



MODEL	ØD	Thread
BPD06-U01	6mm	1/8
BPD06-U02		1/4
BPD1/4-U01	1/4"	1/8
BPD1/4-U02		1/4
BPD5/16-U01	5/16" (8mm)	1/8
BPD5/16-U02		1/4
BPD3/8-U01	3/8"	1/8
BPD3/8-U02		1/4
BPD3/8-U03	10mm	3/8
BPD10-U01		1/8
BPD10-U02		1/4
BPD10-U03	12mm	3/8
BPD12-U03		1/2
BPD12-U04	1/2"	3/8
BPD1/2-U03		1/2
BPD1/2-U04		1/2
		1/2

Tee Union



MODEL	ØD
BPE06	6mm
BPE1/4	1/4"
BPE5/16	5/16" / 8mm
BPE3/8	3/8"
BPE10	10mm
BPE12	12mm
BPE1/2	1/2"

Straight Union



MODEL	ØD
BPU06	6mm
BPU1/4	1/4"
BPU5/16	5/16" / 8mm
BPU3/8	3/8"
BPU10	10mm
BPU12	12mm
BPU1/2	1/2"

Y Union



MODEL	ØD
BPY06	6mm
BPY1/4	1/4"
BPY5/16	5/16" / 8mm
BPY3/8	3/8"
BPY10	10mm
BPY12	12mm
BPY1/2	1/2"

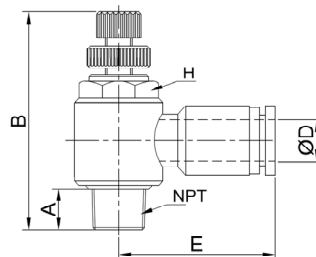
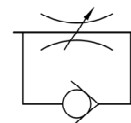
Union Elbow



MODEL	ØD
BPV06	6mm
BPV1/4	1/4"
BPV5/16	5/16" / 8mm
BPV3/8	3/8"
BPV10	10mm
BPVT12	12mm
BPV1/2	1/2"

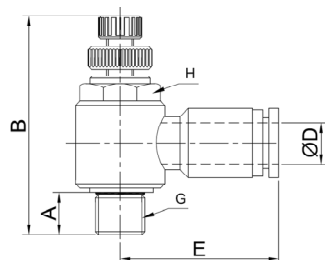
NPT to Inch Flow Control – Meter OUT
(for Meter IN add B suffix e.g JSC1/4-N1B)

All dimensions are mm



MODEL	TUBE ØD	Thread	A	H	E	B(max)
JSC1/8-U	1/8	10-32UNF	3.8	8.0	20.0	29.3
JSC1/8-N1		NPT1/8	7.5	11.1	22.6	40.1
JSC5/32-U	5/32	10-32UNF	3.8	8.0	20.0	29.3
JSC5/32-N1		NPT1/8	7.5	11.1	22.6	40.1
JSC1/4-U	1/4	10-32UNF	3.8	8.0	22.0	29.3
JSC1/4-N1		NPT1/8	7.5	11.1	23.1	40.1
JSC1/4-N2		NPT1/4	10.5	9/16	25.1	47.2
JSC1/4-N3	5/16	NPT3/8	11.0	19.0	26.8	53.9
JSC5/16-N1		NPT1/8	7.5	11.1	25.6	40.1
JSC5/16-N2		NPT1/4	10.5	9/16	28.6	47.2
JSC5/16-N3	3/8	NPT3/8	11.0	19.0	29.6	53.9
JSC3/8-N2		NPT1/4	10.5	9/16	31.0	47.2
JSC3/8-N3		NPT3/8	11.0	19.0	31.6	53.9
JSC3/8-N4	1/2	NPT1/2	14.0	25.4	34.6	58.4
JSC1/2-N3		NPT3/8	11.0	19.0	35.6	53.9
JSC1/2-N4		NPT1/2	14.0	25.4	36.6	58.4

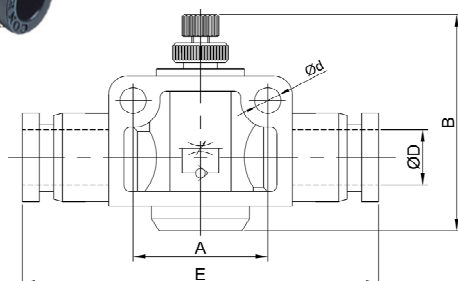
BSPP (G) to mm Flow Control – Meter OUT
(for Meter IN add B suffix e.g JSC1/4-N1B)



MODEL	TUBE ØD	Thread	A	H	E	B(max)
JSC04-G01	4	G1/8	5.8	10	22.3	39.7
JSC04-G02		G1/4	7.3	14	24.1	46.4
JSC06-M5	6	M5	4.0	10	23.1	39.7
JSC06-G01		G1/8	5.8			
JSC06-G02		G1/4	7.3	14	25.1	46.4
JSC06-G03		G3/8	8.5	19	26.8	53.4
JSC06-G04	8	G1/2	10.0	24	29.8	57.9
JSC08-G01		G1/8	5.8	10	25.6	39.7
JSC08-G02		G1/4	7.3	14	28.6	46.4
JSC08-G03		G3/8	8.5	19	29.6	53.4
JSC08-G04	10	G1/2	10.0	24	32.6	57.9
JSC10-G01		G1/8	5.8	10	28.8	39.7
JSC10-G02		G1/4	7.3	14	31.1	46.4
JSC10-G03		G3/8	8.5	19	31.6	53.4
JSC10-G04	12	G1/2	10.0	24	34.6	57.9
JSC12-G02		G1/4	7.3	14	33.5	46.4
JSC12-G03		G3/8	8.5	19	35.6	53.4
JSC12-G04		G1/2	10.0	24	36.6	57.9

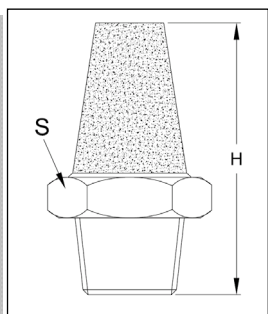
For JSC04-M5 use JSC5/32-U (same flow control)

Inline Flow Control inch & mm

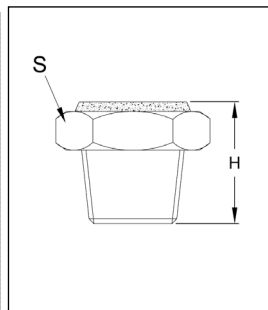


MODEL	TUBE ØD	Ød	A	B	E
JSU1/8	1/8	3.2	14.0	28.8	39.5
JSU5/32	5/32 / 4mm	3.2	14	28.8	39.5
JSU06	6	4.3	20	42.6	47.6
JSU1/4	1/4	4.3	20.0	42.6	47.6
JSU5/16	5/16 / 8mm	4.3	22	44.3	52.6
JSU3/8	3/8	4.3	26.0	53.4	60.5
JSU10	10	4.3	26	53.4	60.5
JSU12	12	4.3	32	55.6	74.2
JSU1/2	1/2	4.3	32.0	55.6	74.2

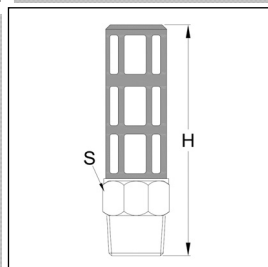
For JSU04 use JSU5/32 and for JSU08 use JSU5/16
(same flow controls)



BSL Sintered Bronze Muffler			
Model	Thread	H	S
BSL-M5	10-32UNF	20	8
BSL-N1	1/8NPT	24	12
BSL-N2	1/4NPT	28	15
BSL-N3	3/8NPT	36	18
BSL-N4	1/2NPT	41	21
BSL-N6	3/4NPT	49	27
BSL-N8	1NPT	64	34

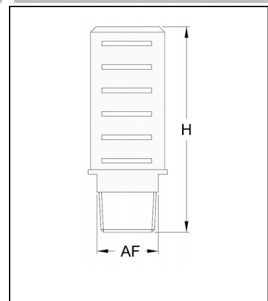


BSLM Sintered Bronze Breather			
Model	Thread	H	S
BSLM-M5	10-32UNF	9	8
BSLM-N1	1/8NPT	11	12
BSLM-N2	1/4NPT	13	15
BSLM-N3	3/8NPT	14	18
BSLM-N4	1/2NPT	15	21
BSLM-N6	3/4NPT	18	27
BSLM-N8	1NPT	19	34



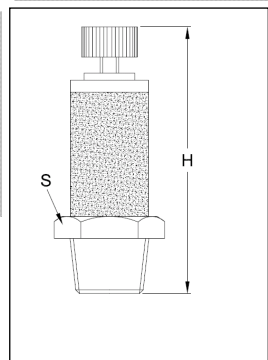
PSU Plastic Polyethylene Silencer			
Model	Thread	H	S
PSU-01	1/8	35	n/a
PSU-02	1/4	65	18
PSU-03	3/8	84	21
PSU-04	1/2	93	25

The PSU thread is suitable for both NPT & G female thread connection. 5μ Porosity



ASL Aluminum Silencer			
Model	Thread	H	AF
ALS-01	1/8NPT	41	16
ALS-02	1/4NPT	41	16
ALS-03	3/8NPT	84	25
ALS-04	1/2NPT	84	25

50μ stainless steel mesh element



Brass Flow Control			
Model	Thread	H	S
BESL-01	1/8NPT	33	12
BESL-02	1/4NPT	35	14
BESL-03	3/8NPT	43	17
BESL-04	1/2NPT	50	21