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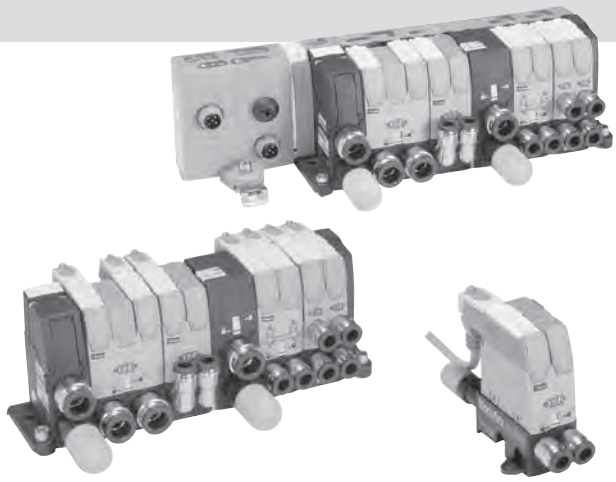
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Moduflex Series



The Moduflex Valve System redefines flexibility for pneumatic users. Whether configured from basic components or ordered as a pre-assembled and tested valve manifold, Moduflex flexibility is unmatched in the market place.

Ports

- Size 1: Push-in connectors for 5/32, 1/4 inch, 4, 6mm OD tube
- Size 2: Push-in connectors for 1/4, 3/8, 1/2 inch, 6, 8, 10, 12 mm OD tube

Mounting

- S Series – Individual subbase
- T Series – Manifold mount with individual connectors
- V Series – Manifold mount with collective wiring or fieldbus

Fieldbus options

- DeviceNet, Profibus, CANopen, AS-i, Interbus-S

Solenoids

- 1.0 Watt
- 24 VDC
- Compatible with PNP or NPN outputs

Certification / approval

- IP65 rated
- CE, as marked

Operating information

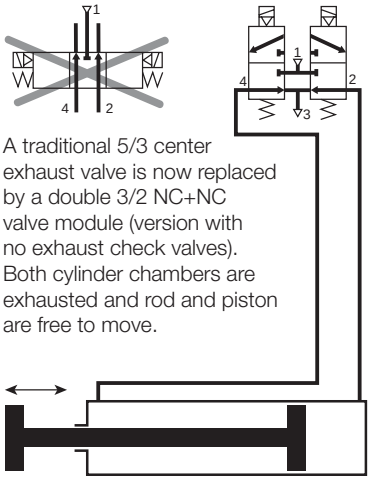
Operating pressure:	Vacuum to 123 PSIG (Vacuum to 8.3 bar)
Operating temperature:	5°F to 140°F (-15°C to 60°C)
Fieldbus operating temperature:	32°F to 130°F (0°C to 55°C)

Material specifications

End plates (T and V series)	Plastic
Fasteners	Nickel plated steel
Spool	Aluminum and nitrile rubber or ceramic plate
Subbase or manifold	Plastic
Valve body	Plastic

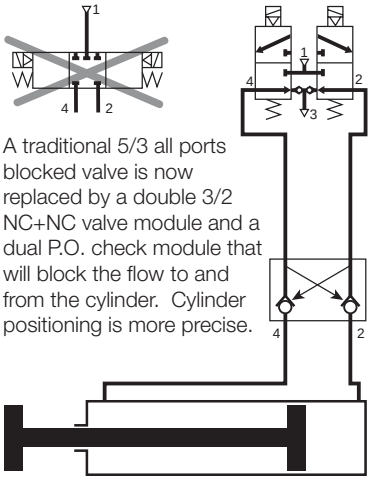
Dual 3/2 valves replace all 3-position valves for a better performance

3-position center exhaust



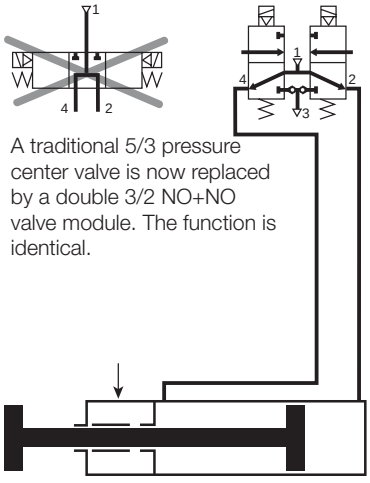
A traditional 5/3 center exhaust valve is now replaced by a double 3/2 NC+NC valve module (version with no exhaust check valves). Both cylinder chambers are exhausted and rod and piston are free to move.

3-position all ports blocked



A traditional 5/3 all ports blocked valve is now replaced by a double 3/2 NC+NC valve module and a dual P.O. check module that will block the flow to and from the cylinder. Cylinder positioning is more precise.

3-position pressure center



A traditional 5/3 pressure center valve is now replaced by a double 3/2 NO+NO valve module. The function is identical.

☐ Most popular.

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"S" Series Individual Subbase Valves Size 1 (Valve & Base without Pneumatic Connectors)

	Symbol	Type	Cv	Operator	Part number
 Single Solenoid  Single Air Pilot		4-way, 2-position	0.32	Single solenoid	**P2M1S4ES2C**
				Single air pilot	**P2M1S4PS**
		4-way, 2-position	0.32	Double solenoid	**P2M1S4EE2C**
				Double air pilot	**P2M1S4PP**
		3-way, 2-position, dual valve, NC/NC w/ exhaust check	0.22	Double solenoid	**P2M1SDEE2C**
				Double air pilot	**P2M1SDPP**
		3-way, 2-position, dual valve, NO/NO w/ exhaust check	0.22	Double solenoid	**P2M1SCEE2C**
				Double air pilot	**P2M1SCPP**
 Double Solenoid  Double Air Pilot		3-way, 2-position, dual valve, NC/NO w/ exhaust check	0.22	Double solenoid	**P2M1SEEE2C**
		3-way, 2-position, NC w/ exhaust check	0.22	Single solenoid	**P2M1S3ES2C**
				Single air pilot	**P2M1S3PS**
		3-way, 2-position, dual valve, NC/NC	0.22	Double solenoid	**P2M1SGEE2C**

"S" Series Size 1 Accessories

	Description	Tube Size	Option	Part number
	Size 1 push to connect fitting	5/32"	Elbow	**CMD04-1**
			Straight	**FMD04-1**
	Size 1 push to connect fitting	1/4"	Elbow	**CMD07-1B**
			Straight	**FMD07-1B**
	Size 1 push to connect fitting	6mm	Elbow	**CMD06-1**
			Straight	**FMD06-1**
	Muffler for exhaust port			**MMDVA1**
	Plug			**PMDYY1**
	Double male union		Connecting peripheral modules	**HMDXX1**
	M8 female connector to flying lead - IP67 LED and surge protection		2m Cable	**P8LS08L226C**
			5m Cable	**P8LS08L526C**
			9m Cable	**P8LS08L926C**
	Field wireable connector		M8 Connector	**P8CS0803J**
			M12 Connector	**P8CS1204J**

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"S" Series Individual Subbase Valves Size 2 (Valve & Base without Pneumatic Connectors)


Single Solenoid


Single Air Pilot


Double Solenoid


Double Air Pilot

Symbol	Type	Cv	Operator	Part number
	4-way, 2-position	0.8	Single solenoid	**P2M2S4ES2C**
			Single air pilot	**P2M2S4PS**
	4-way, 2-position	0.8	Double solenoid	**P2M2S4EE2C**
			Double air pilot	**P2M2S4PP**
	3-way, 2-position, dual valve, NC/NC w/ exhaust check	0.44	Double solenoid	**P2M2SDEE2C**
			Double air pilot	**P2M2SDPP**
	3-way, 2-position, dual valve, NO/NO w/ exhaust check	0.44	Double solenoid	**P2M2SCEE2C**
			Double air pilot	**P2M2SCPP**
	3-way, 2-position, dual valve, NC/NO w/ exhaust check	0.44	Double solenoid	**P2M2SEEE2C**
	3-way, 2-position, NC w/ exhaust check	0.44	Single solenoid	**P2M2S3ES2C**
			Single air pilot	**P2M2S3PS**
	3-way, 2-position, dual valve, NC/NC	0.44	Double solenoid	**P2M2SGEE2C**

"S" Series Size 2 Accessories

	Description	Tube Size	Option	Part number
	Size 2 push to connect fitting	1/4" OD tube	Elbow	**CMD07-2B**
			Straight	**FMD07-2B**
	Size 2 push to connect fitting	3/8" OD tube	Elbow	**CMD09-2B**
			Straight	**FMD09-2B**
	Size 2 push to connect fitting	1/2" OD tube	Straight	**FMD13-2B**
	Size 2 push to connect fitting	6mm OD tube	Elbow	**CMD06-2**
			Straight	**FMD06-2**
	Size 2 push to connect fitting	8mm OD tube	Elbow	**CMD08-2**
			Straight	**FMD08-2**
	Size 2 push to connect fitting	10mm OD tube	Elbow	**CMD10-2**
			Straight	**FMD10-2**
	Size 2 push to connect fitting	12mm OD tube	Elbow	**CMD12-2**
			Straight	**FMD12-2**
	Muffler for exhaust port			**MMDVA2**
	Plug			**PMDYY2**
	Double male union		Connecting peripheral modules	**HMDXX2**
	M8 female connector to flying lead - IP67 LED and surge protection		2m Cable	**P8LS08L226C**
			5m Cable	**P8LS08L526C**
			9m Cable	**P8LS08L926C**
	Field wireable connector		M8 Connector	**P8CS0803J**
			M12 Connector	**P8CS1204J**

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"S" Series Individual Subbase Valve
(Complete with Pneumatic and Electrical Connectors)

P2M 1 S 4ES 2C 00 A F4

Basic series	
Moduflex	P2M

Size	
Size 1	1
Size 2	2

Valve series	
Individual subbase	S

Valve type / function	
3-way / 2-position	
Single solenoid, NC spring return	**3ES**
Single air pilot, NC spring return	3PS
4-way / 2-position	
Single solenoid, spring return	**4ES**
Single air pilot, spring return	4PS
Double solenoid	4EE
Double air pilot	4PP
Dual 3-way, 2-position, spring return	
Solenoid, NC / NC + PO check (4/3 APB)	BEE*
Air pilot, NC / NC + PO check (4/3 APB)	BPP*
Solenoid, NO / NO (4/3 Pressure Ctr.)	CEE
Air pilot NO / NO (4/3 Pressure Ctr.)	CPP
Solenoid, NC / NC with exhaust check	**DEE**
Air pilot, NC / NC with exhaust check	DPP
Solenoid, NO / NC with exhaust check	EEE
Solenoid, NC / NC without check (4/3 Exh. Ctr.)	GEE

* Valve includes peripheral P. O. Check Valve and union fittings.

Operator voltage	
24VDC	**2C**
Remote pilot - 5/32" (4mm) Tube	00

LED / Cable	
00	**No cable, no LED, no surge suppression**
V2	**2 Meter cable with LED and surge suppression**
V5	5 Meter cable with LED and surge suppression
V9	9 Meter cable with LED and surge suppression

Fitting configuration	
A*	**Straight fittings**
B*	**Elbow fittings**
C*†	**Straight fitting & muffler**
D*†	**Elbow fitting & muffler**

* Ports 1 & 3 fittings sizes are same as ports 2 & 4 (see example at left.)
† Fitting in port 1, muffler in port 3.

Ports (all ports)	
C0*	10mm Elbow fitting
C2*	12mm Elbow fitting
C4	**5/32" (4mm) Elbow fitting**
C6	6mm Elbow fitting
C7	**1/4" Elbow fitting**
C8*	8mm Elbow fitting
C9*	**3/8" Elbow fitting**
F0*	10mm Straight fitting
F2*	12mm Straight fitting
F3*	**1/2" Straight fitting**
F4	**5/32" (4mm) Straight fitting**
F6	6mm Straight fitting
F7	**1/4" Straight fitting**
F8*	8mm Straight fitting
F9*	**3/8" Straight fitting**

* Only available with size 2 valves.

Example for fitting configuration:

Size 1

CF7 Ports 1 & 3
1/4" straight fitting
& muffler
Ports 2 & 4
1/4" straight fittings

Size 2

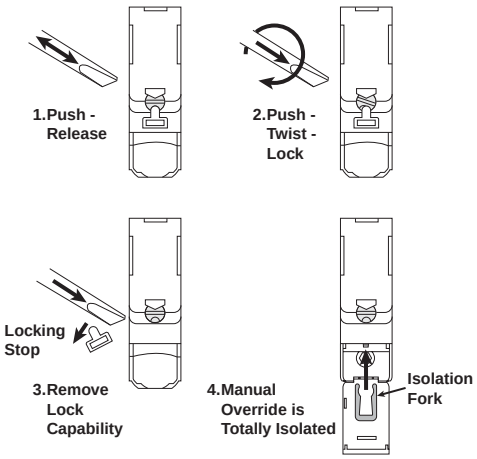
AC0 Ports 1 & 3
10mm elbow fittings
Ports 2 & 4
10mm elbow fittings

With only one universal solenoid pilot for all configurations

24VDC is now a global standard for all machines.

The Moduflex 24VDC unique solenoid pilot is supplied with the multi-function manual override that can be adapted to all requirements, as explained by the drawings.

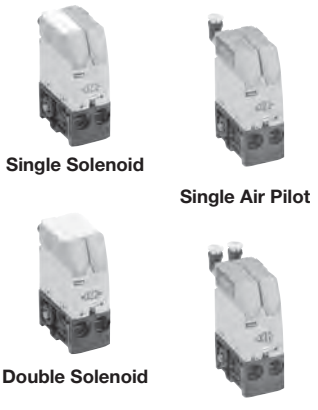
Multi-function adaptable manual override



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"T" Series Manifold Valves with Individual Connectors Size 1



Symbol	Type	Cv	Operator	Part number
	4-way, 2-position	0.32	Single solenoid	**P2M1T4ES2C**
			Single air pilot	**P2M1T4PS**
	4-way, 2-position	0.32	Double solenoid	**P2M1T4EE2C**
			Double air pilot	**P2M1T4PP**
	4-way, 2-position, dual valve w/ exhaust check	0.18	Double solenoid	**P2M1TJEE2C**
			Double air pilot	**P2M1TJPP**
	3-way, 2-position, dual valve, NC/NC w/ exhaust check	0.22	Double solenoid	**P2M1TDEE2C**
			Double air pilot	**P2M1TDPP**
	3-way, 2-position, dual valve, NO/NO w/ exhaust check	0.22	Double solenoid	**P2M1TCEE2C**
			Double air pilot	**P2M1TCPP**
	3-way, 2-position, dual valve, NC/NO w/ exhaust check	0.22	Double solenoid	**P2M1TEEE2C**
	3-way, 2-position, NC w/ exhaust check	0.22	Single solenoid	**P2M1T3ES2C**
			Single air pilot	**P2M1T3PS**
	3-way, 2-position, dual valve, NC/NC	0.22	Double solenoid	**P2M1TGEE2C**

"T" Series Size 1 Accessories

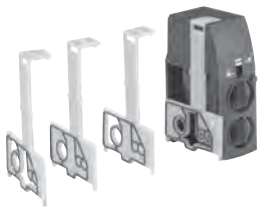
	Description	Tube size	Option	Part number
	Size 1 push to connect fitting	5/32" or 4mm	Elbow	**CMD04-1**
			Straight	**FMD04-1**
	Size 1 push to connect fitting	1/4"	Elbow	**CMD07-1B**
			Straight	**FMD07-1B**
	Size 1 push to connect fitting	6mm	Elbow	**CMD06-1**
			Straight	**FMD06-1**
	Muffler for exhaust port			**MMDVA1**
	Plug			**PMDYY1**
	Double male union		Connecting peripheral modules	**HMDXX1**
	M8 female connector to flying lead - IP67 LED and surge protection		2M cable	**P8LS08L226C**
			5M cable	**P8LS08L526C**
			9M cable	**P8LS08L926C**
	Field wireable connector		M8 connector	**P8CS0803J**
			M12 connector	**P8CS1204J**
	Torx screwdriver			**P2M1K0TASD**

Manifold Options

Module	Part number
Pneumatic end plate kit	**P2M2HXT01***
Pneumatic end plate kit with torx screwdriver	**P2M2HXT0T***
Intermediate supply module (Includes 4 configuration plates)	**P2M2BXT0A***

* Use Fittings for Size 2 Modules Only


P2M2HXT01


P2M2BXT0A

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"T" Series Manifold Valves with Individual Connectors Size 2


Single Solenoid


Single Air Pilot


Double Solenoid


Double Air Pilot

Symbol	Type	Cv	Operator	Part number
	4-way, 2-position	0.8	Single solenoid	**P2M2T4ES2C**
			Single air pilot	**P2M2T4PS**
	4-way, 2-position	0.8	Double solenoid	**P2M2T4EE2C**
			Double air pilot	**P2M2T4PP**
	3-way, 2-position, dual valve, NC/NC w/ exhaust check	0.44	Double solenoid	**P2M2TDEE2C**
			Double air pilot	**P2M2TDPP**
	3-way, 2-position, dual valve, NO/NO w/ exhaust check	0.44	Double solenoid	**P2M2TCEE2C**
			Double air pilot	**P2M2TCPP**
	3-way, 2-position, dual valve, NC/NO w/ exhaust check	0.44	Double solenoid	**P2M2TEEE2C**
	3-way, 2-position, NC w/ exhaust check	0.44	Single solenoid	**P2M2T3ES2C**
			Single air pilot	**P2M2T3PS**
	3-way, 2-position, dual valve, NC/NC	0.44	Double solenoid	**P2M2TGEE2C**

"T" Series Size 2 Accessories

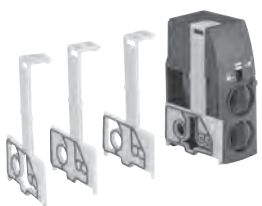
	Description	Tube size	Option	Part number
 	Size 2 push to connect fitting	1/4"	Elbow	**CMD07-2B**
			Straight	**FMD07-2B**
	Size 2 push to connect fitting	3/8"	Elbow	**CMD09-2B**
			Straight	**FMD09-2B**
	Size 2 push to connect fitting	1/2"	Straight	**FMD13-2B**
	Size 2 push to connect fitting	6mm	Elbow	**CMD06-2**
			Straight	**FMD06-2**
	Size 2 push to connect fitting	8mm	Elbow	**CMD08-2**
			Straight	**FMD08-2**
	Size 2 push to connect fitting	10mm	Elbow	**CMD10-2**
			Straight	**FMD10-2**
	Size 2 Push to connect fitting	12mm	Elbow	**CMD12-2**
			Straight	**FMD12-2**
	Muffler for exhaust port			**MMDVA2**
	Plug			**PMDYY2**
	Double male union		Connecting peripheral modules	**HMDXX2**
	M8 female connector to flying lead - IP67 LED and surge protection		2M cable	**P8LS08L226C**
			5M cable	**P8LS08L526C**
			9M cable	**P8LS08L926C**
	Field wireable connector		M8 connector	**P8CS0803J**
			M12 connector	**P8CS1204J**
	Torx screwdriver			**P2M1K0TASD**

Manifold Options

Module	Part number
Pneumatic end plate kit	**P2M2HXT01***
Pneumatic end plate kit with torx screwdriver	**P2M2HXT0T***
Intermediate supply module (Includes 4 configuration plates)	**P2M2BXT0A***

* Use Fittings for Size 2 Modules Only


P2M2HXT01


P2M2BXT0A

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"T" Series Valve Manifold with Individual Connectors
(Complete with Pneumatic and Electrical Connectors)

P2M 1 T 4ES 2C 00 0 F4

Basic series	
Valvetronic modules	P2M

Size	
Size 1	1
Size 2	2

Valve series	
Individual wire	T

Valve type / function	
3-way / 2-position	
Single solenoid, NC spring return	**3ES**
Single air pilot, NC spring return	**3PS**
4-way / 2-position	
Single solenoid, spring return	**4ES**
Single air pilot, spring return	**4PS**
Double solenoid	**4EE**
Double air pilot	**4PP**
Dual 3-way, 2-position, spring return	
Solenoid, NC / NC + PO check (4/3 APB)	**BEE***
Air pilot, NC / NC + PO check (4/3 APB)	BPP*
Solenoid, NO / NO (4/3 Pressure Ctr.)	CEE
Air pilot NO / NO (4/3 Pressure Ctr.)	CPP
Solenoid, NC / NC with exhaust check	DEE
Air pilot, NC / NC with exhaust check	DPP
Solenoid, NO / NC with exhaust check	**EEE**
Solenoid, NC / NC without check (4/3 Exh. Ctr.)	**GEE**
Dual 4-way, 2-position, Spring Return	
Solenoid	**JEE****
Air pilot	**JPP****

* Valve includes peripheral P. O. check valve and union fittings.
** Size 1 only.

Operator Voltage	
2C	**24VDC**
00	Remote pilot - 5/32" (4mm) tube

Led / Cable	
00	**No cable, no led, no surge suppression**
V2	**2 Meter cable with led and surge suppression**
V5	5 Meter cable with led and surge suppression
V9	9 Meter cable with led and surge suppression

Ports 1 & 3	
0	**None**

Ports 2 & 4	
C0*	10mm Elbow fitting
C2*	12mm Elbow fitting
C4	**5/32" (4mm) Elbow fitting**
C6	6mm Elbow fitting
C7	**1/4" Elbow fitting**
C8*	8mm Elbow fitting
C9*	**3/8" Elbow fitting**
F0*	10mm Straight fitting
F2*	12mm Straight fitting
F3*	**1/2" Straight fitting**
F4	**5/32" (4mm) Straight fitting**
F6	6mm Straight fitting
F7	**1/4" Straight fitting**
F8*	8mm Straight fitting
F9*	**3/8" Straight fitting**

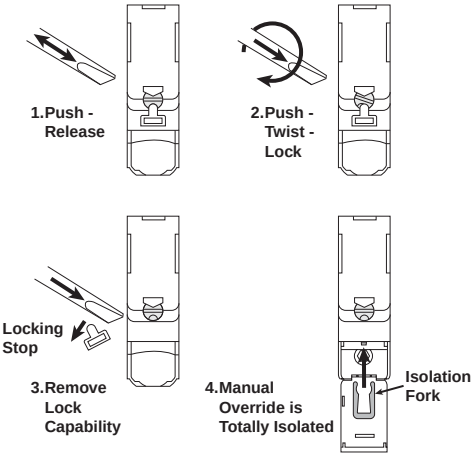
* Only available with size 2 valves.

With only one universal solenoid pilot for all configurations

24VDC is now a global standard for all machines.

The Moduflex 24VDC unique solenoid pilot is supplied with the multi-function manual override that can be adapted to all requirements, as explained by the drawings.

Multi-function adaptable manual override



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"V" Series Manifold Valves with Collective Wiring Size 1


Single Solenoid


Double Solenoid

Symbol	Type	Cv	Operator	Part number
	4-way, 2-position	0.32	Single solenoid	**P2M1V4ES2CV**
	4-way, 2-position	0.32	Double solenoid	**P2M1V4EE2CV**
	4-way, 2-position, dual valve, w/ exhaust check	0.18		**P2M1VJEE2CV**
	3-way, 2-position, dual valve, NC/NC w/ exhaust check	0.22	Double solenoid	**P2M1VDEE2CV**
	3-way, 2-position, dual valve, NO/NO w/ exhaust check	0.22	Double solenoid	**P2M1VCEE2CV**
	3-way, 2-position, dual valve, NC/NO w/ exhaust check	0.22	Double solenoid	**P2M1VEEE2CV**
	3-way, 2-position, NC w/ exhaust check	0.22	Single solenoid	**P2M1V3ES2CV**
	3-way, 2-position, dual valve, NC/NC	0.22	Double solenoid	**P2M1VGEE2CV**

"V" Series Size 1 Accessories

	Description	Tube size	Option	Part number
	Size 1 push to connect fitting	5/32"	Elbow	**CMD04-1**
			Straight	**FMD04-1**
	Size 1 push to connect fitting	1/4"	Elbow	**CMD07-1B**
			Straight	**FMD07-1B**
	Size 1 push to connect fitting	6mm	Elbow	**CMD06-1**
			Straight	**FMD06-1**
	Muffler for exhaust port			**MMDVA1**
	Plug			**PMDYY1**
	Double male union		Connecting peripheral modules	**HMDXX1**
	Electrical 20-pin multi-connector cable with flying leads	IP65 rated	2M cable	**P8LMH20M2A**
			5M cable	**P8LMH20M5A**
			9M cable	**P8LMH20M9A**
	Electrical 25-pin D-sub cable	IP20 rated	3M cable	**P8LMH25M3A**
			9M cable	**SCD259D**
		IP65 rated	3M cable	**SCD253W**
			9M cable	**SCD259WE**
	Field wireable connector for power supply	Female	M12 - A code	**P8CS1205AA**
	Line termination resistor	Profibus DP	M12 type B	**P8BPA00MB**
		Devicenet or Canopen	M12 type A	**P8BPA00MA**
	AS-i M12 cable with jack for addressing		1M cable	**P8LS12JACK**
	Torx screwdriver			**P2M1K0TASD**

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Electrical Connections

Description	Part number
20-pin, Multi-connector electrical head module	**P2M2HEV0A**
25-pin, D-sub, electrical head module	**P2M2HEV0D**

Fieldbus Connections

Description		Part number
Profibus DP		**P2M2HBVP21600**
DeviceNet		**P2M2HBVD21600**
CANopen		**P2M2HBVC21600**
Interbus S		**P2M2HBVS11600**
AS-i	0 inputs and 8 solenoid outputs	**P2M2HBVA10800**
AS-i	8 (PNP) inputs on eight (M8) connectors and 8 solenoid outputs	**P2M2HBVA10808A**
AS-i	8 (PNP) inputs on four (M12) connectors and 8 solenoid outputs	**P2M2HBVA10808B**
AS-i Version 2.1 ProtocolAS-i	0 inputs and 6 solenoid outputs	**P2M2HBVA20600**
AS-i Version 2.1 ProtocolAS-i	8 (PNP) inputs on eight (M8) connectors and 6 solenoid outputs	**P2M2HBVA20608A**
AS-i Version 2.1 ProtocolAS-i	8 (PNP) inputs on four (M12) connectors and 6 solenoid outputs	**P2M2HBVA20608B**

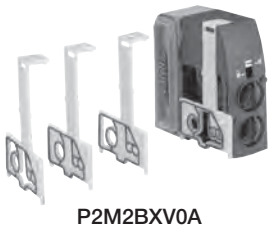
Manifold Options

Module	Part number
Pneumatic end plate kit	**P2M2HXT01***
Pneumatic end plate kit with torx screwdriver	**P2M2HXT0T***
Intermediate supply module (Includes 4 configuration plates)	**P2M2BXV0A***

* Use Fittings for Size 2 Modules Only



P2M2HXT01



P2M2BXV0A

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"V" Series Manifold Valves with Collective Wiring Size 2


Single Solenoid


Double Solenoid

Symbol	Type	Cv	Operator	Part number
	4-way, 2-position	0.8	Single solenoid	**P2M2V4ES2CV**
	4-way, 2-position	0.8	Double solenoid	**P2M2V4EE2CV**
	3-way, 2-position, dual valve, NC/NC w/ exhaust check	0.44	Double solenoid	**P2M2VDEE2CV**
	3-way, 2-position, dual valve, NO/NO w/ exhaust check	0.44	Double solenoid	**P2M2VCEE2CV**
	3-way, 2-position, dual valve, NC/NO w/ exhaust check	0.44	Double solenoid	**P2M2VEEE2CV**
	3-way, 2-position, NC w/ exhaust check	0.44	Single solenoid	**P2M2V3ES2CV**
	3-way, 2-position, dual valve, NC/NC	0.44	Double solenoid	**P2M2VGEE2CV**

"V" Series Size 2 Accessories

	Description	Tube size	Option	Part number
	Size 2 push to connect fitting	1/4" OD tube	Elbow	**CMD07-2B**
			Straight	**FMD07-2B**
	Size 2 push to connect fitting	3/8" OD tube	Elbow	**CMD09-2B**
			Straight	**FMD09-2B**
	Size 2 push to connect fitting	1/2" OD tube	Straight	**FMD13-2B**
	Size 2 push to connect fitting	6mm OD tube	Elbow	**CMD06-2**
			Straight	**FMD06-2**
	Size 2 push to connect fitting	8mm OD tube	Elbow	**CMD08-2**
			Straight	**FMD08-2**
	Size 2 push to connect fitting	10mm OD tube	Elbow	**CMD10-2**
			Straight	**FMD10-2**
	Size 2 push to connect fitting	12mm OD tube	Elbow	**CMD12-2**
			Straight	**FMD12-2**
	Muffler for exhaust port			**MMDVA2**
	Plug			**PMDYY2**
	Double Male Union		Connecting peripheral modules	**HMDXX2**
	Electrical 20-pin multi-connector cable with flying leads	IP65 rated	2M cable	**P8LMH20M2A**
			5M cable	**P8LMH20M5A**
			9M cable	**P8LMH20M9A**
	Electrical 25-pin D-sub cable	IP20 rated	3M cable	**P8LMH25M3A**
			9M cable	**SCD259D**
		IP65 rated	3M cable	**SCD253W**
			9M cable	**SCD259WE**
	Torx screwdriver			**P2M1K0TASD**

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Electrical Connections

Description	Part number
20-pin, Multi-connector electrical head module	**P2M2HEV0A**
25-pin, D-sub, electrical head module	**P2M2HEV0D**

Fieldbus Connections

Description		Part number
Profibus DP		**P2M2HBVP21600**
DeviceNet		**P2M2HBVD21600**
CANopen		**P2M2HBVC21600**
Interbus S		**P2M2HBVS11600**
AS-i	0 inputs and 8 solenoid outputs	**P2M2HBVA10800**
AS-i	8 (PNP) inputs on eight (M8) connectors and 8 solenoid outputs	**P2M2HBVA10808A**
AS-i	8 (PNP) inputs on four (M12) connectors and 8 solenoid outputs	**P2M2HBVA10808B**
AS-i Version 2.1 Protocol AS-i	0 inputs and 6 solenoid outputs	**P2M2HBVA20600**
AS-i Version 2.1 Protocol AS-i	8 (PNP) inputs on eight (M8) connectors and 6 solenoid outputs	**P2M2HBVA20608A**
AS-i Version 2.1 Protocol AS-i	8 (PNP) inputs on four (M12) connectors and 6 solenoid outputs	**P2M2HBVA20608B**

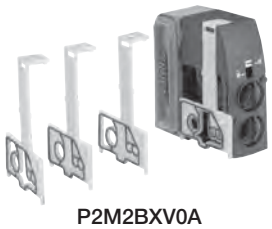
Manifold Options

Module	Part number
Pneumatic end plate kit	**P2M2HXT01***
Pneumatic end plate kit with torx screwdriver	**P2M2HXT0T***
Intermediate supply module (Includes 4 configuration plates)	**P2M2BXV0A***

* Use Fittings for Size 2 Modules Only



P2M2HXT01



P2M2BXV0A

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"V" Series Valve Manifold with Collective Wiring

(Complete with Pneumatic Connectors)

P2M 1 V 4ES 2C V0 0 F4

Basic series	
Valvetronic modules	P2M

Size	
Size 1	1
Size 2	2

Valve series	
Collective wiring	V

Valve type / Function	
3-way / 2-position	
Single solenoid, NC spring return	3ES
4-way / 2-position	
Single solenoid, spring return	4ES
Double solenoid	4EE
Dual 3-way, 2-position, spring return	
Solenoid, NC / NC + PO check (4/3 APB)	BEE*
Solenoid, NO / NO (4/3 Pressure Ctr.)	CEE
Solenoid, NC / NC with exhaust check	DEE
Solenoid, NO / NC with exhaust check	EEE
Solenoid, NC / NC without check (4/3 Exh. Ctr.)	GEE
Dual 4-way, 2-position, spring return	
Solenoid	JEE**

* Valve includes peripheral P. O. Check valve and union fittings.
** Size 1 Only.

Ports 2 & 4	
C0*	10mm Elbow fitting
C2*	12mm Elbow fitting
C4	**5/32" (4mm) Elbow fitting**
C6	6mm Elbow fitting
C7	**1/4" Elbow fitting**
C8*	8mm Elbow fitting
C9*	**3/8" Elbow fitting**
F0*	10mm Straight fitting
F2*	12mm Straight fitting
F3*	**1/2" Straight fitting**
F4	**5/32" (4mm) Straight fitting**
F6	6mm Straight fitting
F7	**1/4" Straight fitting**
F8*	8mm Straight fitting
F9*	**3/8" Straight fitting**

* Only available with size 2 valves.

Ports 1 & 3	
0	None

LED / Cable	
V0	No cable with LED and surge suppression

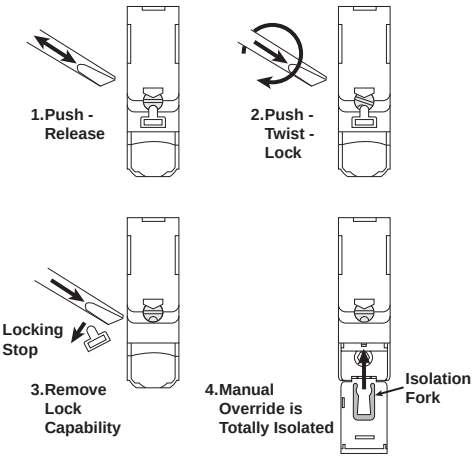
Operator voltage	
2C	24VDC

With only one universal solenoid pilot for all configurations

24VDC is now a global standard for all machines.

The Moduflex 24VDC unique solenoid pilot is supplied with the multi-function manual override that can be adapted to all requirements, as explained by the drawings.

Multi-function adaptable manual override



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Peripheral Modules Size 1

	Acessories	Description	Option	Part number
	Pressure regulator without gauge		0 to 30 PSI	**P2M1PXST**
			0 to 60 PSI	**P2M1PXSL**
			0 to 120 PSI	**P2M1PXSN**
	Pressure regulator with gauge		0 to 30 PSI	**P2M1PXSR**
			0 to 60 PSI	**P2M1PXSM**
			0 to 120 PSI	**P2M1PXSG**
	Gauge		0 to 30 PSI	**P2M1K0GT**
			0 to 60 PSI	**P2M1K0GL**
			0 to 120 PSI	**P2M1K0GN**
	Dual P.O. Check valve			**P2M1PXCA**
	Dual flow control			**P2M1PXFA**
	Vacuum generator		See ordering information below	**P2M1PXVA**
	Size 1 push to connect fitting	5/32" or 4mm OD tube	Elbow	**CMD04-1**
			Straight	**FMD04-1**
	Size 1 push to connect fitting	1/4" OD tube	Elbow	**CMD07-1B**
			Straight	**FMD07-1B**
	Size 1 push to connect fitting	6mm OD tube	Elbow	**CMD06-1**
			Straight	**FMD06-1**
	Double male union	Connecting peripheral modules		**HMDXX1**
	Muffler for vacuum exhaust port			**MMDVA1**
	Plug			**PMDYY1**

Vacuum Generator Model Number Index

P2M1PXVA **F7** **A** **F7** **C** **MA**

Basic configuration	
Basic unit	P2M1PXVA

#1 Pressure port	
5/32" (4mm) elbow	C4
6mm elbow	C6
1/4" Elbow	C7
Joint fitting	JJ
5/32" (4mm) straight	F4
6mm straight	F6
1/4" Straight	F7

Port #1 configuration	
Fitting in pressure port and blow-off port	A
Fitting in pressure port and blow-off port plugged*	B

* Can not be directly mounting to valve.

#2 Vacuum port	
C4	5/32" (4mm) Elbow
C6	6mm Elbow
C7	1/4" Elbow
F4	5/32" (4mm) Straight
F6	6mm Straight
F7	1/4" Straight

#2 Sensor port	
A	6mm Plug
B	Plug
K	1/4" Straight
L	1/4" Elbow
M	6mm Elbow

#3 Exhaust port	
C4	5/32" (4mm) Elbow
C6	6mm Elbow
C7	1/4" Elbow
F4	5/32" (4mm) Straight
F6	6mm Straight
F7	1/4" Straight
MA	Muffler

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Peripheral Modules Size 2

	Acessories	Description	Option	Part number
	Pressure regulator without gauge		0 to 30 PSI	**P2M2PXST**
			0 to 60 PSI	**P2M2PXSL**
			0 to 120 PSI	**P2M2PXSN**
	Pressure regulator with gauge		0 to 30 PSI	**P2M2PXSR**
			0 to 60 PSI	**P2M2PXSM**
			0 to 120 PSI	**P2M2PXSG**
	Gauge		0 to 30 PSI	**P2M1K0GT**
			0 to 60 PSI	**P2M1K0GL**
			0 to 120 PSI	**P2M1K0GN**
	Dual P.O. check valve			**P2M2PXCA**
	Dual flow control			**P2M2PXFA**
	Size 2 push to connect fitting	1/4" OD tube	Elbow	**CMD07-2B**
			Straight	**FMD07-2B**
	Size 2 push to connect fitting	3/8" OD tube	Elbow	**CMD09-2B**
			Straight	**FMD09-2B**
	Size 2 push to connect fitting	1/2" OD tube	Straight	**FMD13-2B**
	Size 2 push to connect fitting	6mm OD tube	Elbow	**CMD06-2**
			Straight	**FMD06-2**
	Size 2 push to connect fitting	8mm OD tube	Elbow	**CMD08-2**
			Straight	**FMD08-2**
	Size 2 push to connect fitting	10mm OD tube	Elbow	**CMD10-2**
			Straight	**FMD10-2**
	Size 2 push to connect fitting	12mm OD tube	Elbow	**CMD12-2**
			Straight	**FMD12-2**
	Muffler for exhaust port			**MMDVA2**
	Plug			**PMDYY2**
	Double Male Union		Connecting peripheral modules	**HMDXX2**

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"P" Series Peripheral Modules Model Number Index
(Complete with Pneumatic Connectors)

P2M 1 PX S L F4 F4

Basic series	
Electro-pneumatic valve modules	P2M

Size	
Size 1	1
Size 2	2

Style / Function	
Peripheral	PX

Accessory type	
Dual pilot operated check	C
Dual flow control	F
Single pressure regulator	S

Accessory option	
Flow control or pilot operated check	A*
0 - 120 PSI - Gauge	G
0 - 60 PSI - No gauge	L
0 - 60 PSI - Gauge	M
0 - 120 PSI - No gauge	N
0 - 30 PSI - Gauge	R
0 - 30 PSI - No gauge	T

* Must be used with accessory type "C" or "F".

Ports 1 & 3 (Supply / Exhaust)	
C0*	10mm Elbow fitting
C2*	12mm Elbow fitting
C4	**5/32" (4mm) Elbow fitting**
C6	6mm Elbow fitting
C7	**1/4" Elbow fitting**
C8*	8mm Elbow fitting
C9*	**3/8" Elbow fitting**
F0*	10mm Straight fitting
F2*	12mm Straight fitting
F3*	**1/2" Straight fitting**
F4	**5/32" (4mm) Straight fitting**
F6	6mm Straight fitting
F7	**1/4" Straight fitting**
F8*	8mm Straight fitting
F9*	**3/8" Straight fitting**
JJ	**Double male union**

* Only available with size 2 valves.

Ports 2 & 4 (S, T & V Series)	
C0*	10mm Elbow fitting
C2*	12mm Elbow fitting
C4	**5/32" (4mm) Elbow fitting**
C6	6mm Elbow fitting
C7	**1/4" Elbow fitting**
C8*	8mm Elbow fitting
C9*	**3/8" Elbow fitting**
F0*	10mm Straight fitting
F2*	12mm Straight fitting
F3*	**1/2" Straight fitting**
F4	**5/32" (4mm) Straight fitting**
F6	6mm Straight fitting
F7	**1/4" Straight fitting**
F8*	8mm Straight fitting
F9*	**3/8" Straight fitting**
JJ	**Double male union**
PP	**Clip-in plug**

* Only available with size 2 valves.

Intermediate Supply Module Model Number Index

P2M2BX V 0 4 F9 MM

Intermediate supply module	
Basic unit	P2M2BX

Valve type	
Individually wired	T
Collective wiring	V

Wiring style	
No cable	0

Plate configuration	
#1 & #3 Blocked	1
#1 Open & #3 Blocked	2
#1 Blocked & #3 Open	3
#1 & #3 Open	4

Inlet port type (#1 pressure)*	
C0	10mm Elbow fitting
C2	12mm Elbow fitting
C6	6mm Elbow fitting
C7	**1/4" Elbow fitting**
C8	8mm Elbow fitting
C9	**3/8" Elbow fitting**
F0	10mm Straight fitting
F2	12mm Straight fitting
F3	**1/2" Straight fitting**
F6	6mm Straight fitting
F7	**1/4" Straight fitting**
F8	8mm Straight fitting
F9	**3/8" Straight fitting**
MM	**Clip-in muffler**
PP	**Clip-in plug**

* Elbow fittings face up.

Exhaust port type (#3 exhaust)*	
C0	10mm Elbow fitting
C2	12mm Elbow fitting
C6	6mm Elbow fitting
C7	**1/4" Elbow fitting**
C8	8mm Elbow fitting
C9	**3/8" Elbow fitting**
F0	10mm Straight fitting
F2	12mm Straight fitting
F3	**1/2" Straight fitting**
F6	6mm Straight fitting
F7	**1/4" Straight fitting**
F8	8mm Straight fitting
F9	**3/8" Straight fitting**
MM	**Clip-in muffler**
PP	**Clip-in plug**

* Elbow fittings face up.

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Moduflex Add-A-Fold Assembly Model Number Index
(Complete with Pneumatic and Electrical Connectors)

How To Order Plug-in Add-A-Fold Assemblies

1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List valves and manifolds. List left to right, LOOKING AT THE CYLINDER PORTS on the manifold.

P2MA V 0 1 C9 C9 ##

Moduflex island assembly	
Add-A-Fold	P2MA*

*Includes pneumatic H & T end plate kit.

Style	
Individually wired	T
Collective wiring	V*

* Includes 20-pin multi-connector or 25-pin, D-sub electrical head module.

Wiring / Bus protocol	
No cable (20-pin or multi-connector T series)	0
2 Meter cable (20-pin)	2
5 Meter cable (20-pin)	5
9 Meter cable (20-pin)	9
Bus	B*
No cable (25-pin, D-sub)	D
3 Meter cable (25-pin, D-sub)	F

* Order bus module as a separate line item.
† Default to option "0" for T series.

Pilot source	
Internal supply / Internal exhaust	1
Internal supply / External exhaust	2
External supply / Internal exhaust	3
External supply / External exhaust	4

Number of stations†	
01 - 19*	V-Type
01 - 30	T-Type

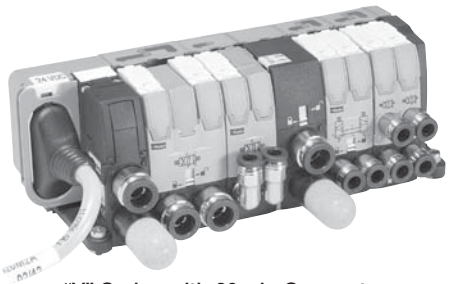
* Max. number of addresses for V type is 19. Single solenoid valves equal one address. Double solenoid valves equal two addresses. Maximum address may depend upon choice of bus protocol.
† Intermediate modules are considered stations, but do not count against maximum number of addresses for manifold.

Exhaust port type (#3 Exhaust)*	
C0	10mm Elbow fitting
C2	12mm Elbow fitting
C6	6mm Elbow fitting
C7	1/4" Elbow fitting
C8	8mm Elbow fitting
C9	3/8" Elbow fitting
F0	10mm Straight fitting
F2	12mm Straight fitting
F3	1/2" Straight fitting
F6	6mm Straight fitting
F7	1/4" Straight fitting
F8	8mm Straight fitting
F9	3/8" Straight fitting
MM	Clip-in muffler
PP	Clip-in plug

* Elbow fittings face up.

Inlet port type (#1 pressure)*	
C0	10mm Elbow fitting
C2	12mm Elbow fitting
C6	6mm Elbow fitting
C7	1/4" Elbow fitting
C8	8mm Elbow fitting
C9	3/8" Elbow fitting
F0	10mm Straight fitting
F2	12mm Straight fitting
F3	1/2" Straight fitting
F6	6mm Straight fitting
F7	1/4" Straight fitting
F8	8mm Straight fitting
F9	3/8" Straight fitting
MM	Clip-in muffler
PP	Clip-in plug

* Elbow fittings face up.



"V" Series with 20-pin Connector



"V" Series with Field Bus Connection

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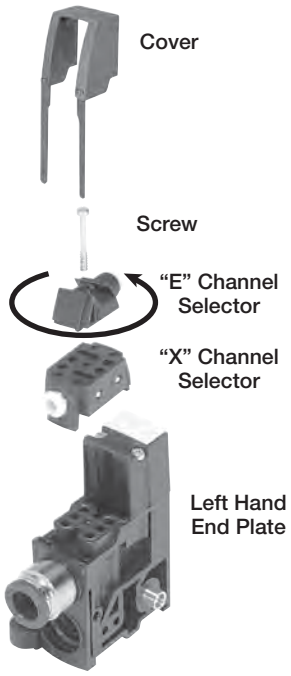
Internal and external pilot supply options

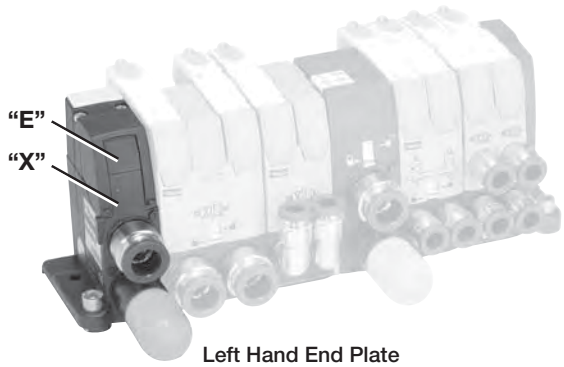
All T and V Series Valve bases incorporate an auxiliary channel **"X"** to supply pressure to the solenoid pilots. The **"X"** galley is pressurized from the left hand end plate. Depending on the configuration of the left hand end plate, this pressure is either supplied from the #1 port in the left hand end plate or supplied externally through a 4mm OD tube fitting in the left hand end plate This fitting is supplied in all left hand end plates and can be converted in the field.

Internal and external solenoid pilot exhaust options

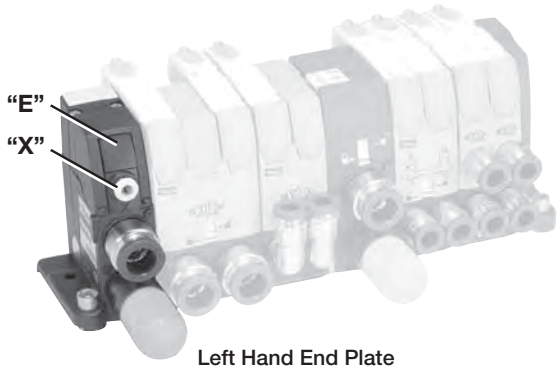
All T and V Series Valve bases incorporate an auxiliary channel **"E"** which is used to exhaust the solenoid pilot pressure from each solenoid valve. The **"E"** galley is connected to the left hand end plate. Depending on the configuration of the left hand end plate, this exhaust is either connected to the #3 exhaust port or is connected to a 4mm OD Tube fitting in the left hand end plate. This fitting is supplied in all left hand end plates and can be converted in the field.

To configure the left hand end plate, with pressure off, remove head cover to expose the selector section. Loosen selector section and rotate **"X"** or **"E"** channel selector to desired position. Tighten selector section and assemble cover.

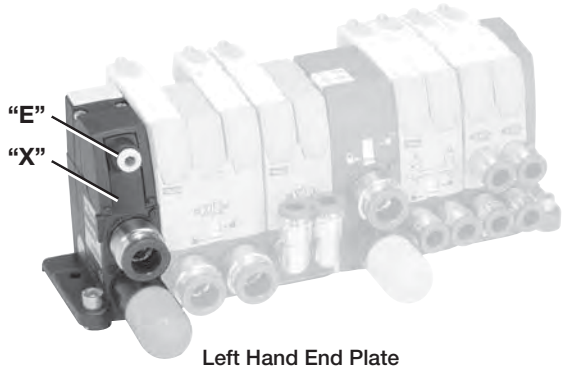




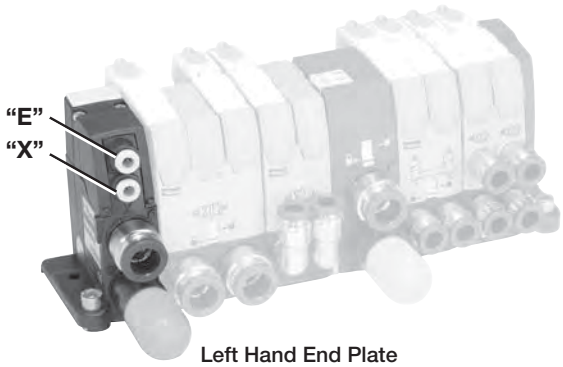
Left Hand End Plate
"E" Channel Internal Exhaust
"X" Channel Internal Pilot



Left Hand End Plate
"E" Channel Internal Exhaust
"X" Channel External Pilot



Left Hand End Plate
"E" Channel External Exhaust
"X" Channel Internal Pilot



Left Hand End Plate
"E" Channel External Exhaust
"X" Channel External Pilot

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Solenoid Pilot 24VDC

Description	Part number
Solenoid pilot (without plug-in electrical connector)	**P2D8V32C5**
Air pilot with 5/32" (4mm) tube fitting	**P2M2K0PA**



P2D8V32C5



P2M2K0PA

Size 1 Valve Without Solenoid Pilot and Without Subbase



P2M1X4EE

4-way / 2-position / Single Valve

	Solenoid	Part number
	Single solenoid (Monostable)	**P2M1X4ES**
	Double solenoid (Bistable)	**P2M1X4EE**

4-way / 2-position / Dual Valve

	Solenoid	Part number
	Solenoid spring with exhaust check	**P2M1XJEE**

3-way / 2-position / Dual Valve

	Solenoid	Part number
	Double solenoid NC + NC with exhaust check	**P2M1XDEE**
	Double solenoid NO + NO with exhaust check	**P2M1XCEE**
	Double solenoid NC + NO with exhaust check	**P2M1XEEE**
	Single solenoid NC with exhaust check	**P2M1X3ES**

Size 2 Valve Without Solenoid Pilot and Without Subbase



P2M2X4EE

4-way / 2-position / Dual Valve

	Solenoid	Part number
	Single solenoid (Monostable)	**P2M2X4ES**
	Double solenoid (Bistable)	**P2M2X4EE**

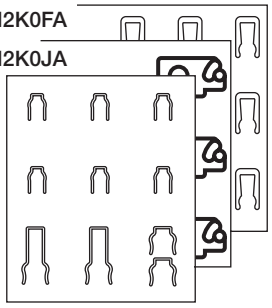
3-way / 2-position / Dual Valve

	Solenoid	Part number
	Double solenoid NC + NC with exhaust check	**P2M2XDEE**
	Double solenoid NO + NO with exhaust check	**P2M2XCEE**
	Double solenoid NC + NO with exhaust check	**P2M2XEEE**
	Single solenoid NC with exhaust check	**P2M2X3ES**

Set of Maintenance Parts

Description		Part number
Clips	Set of 10 clips: 6 for size 1 valves, 2 for size 2 valves, 2 for end plate and intermediate modules	**P2M2K0CA**
Seals	Set of 10 seals: 3 for manifold to manifold seals, 3 under solenoid pilot seals, 4 under valve seals (two size 1 seals, two size 2 seals)	**P2M2K0JA**
Forks	Set of 10 isolation forks for solenoid pilot manual override	**P2M2K0FA**

P2M2K0FA
P2M2K0JA



P2M2K0CA

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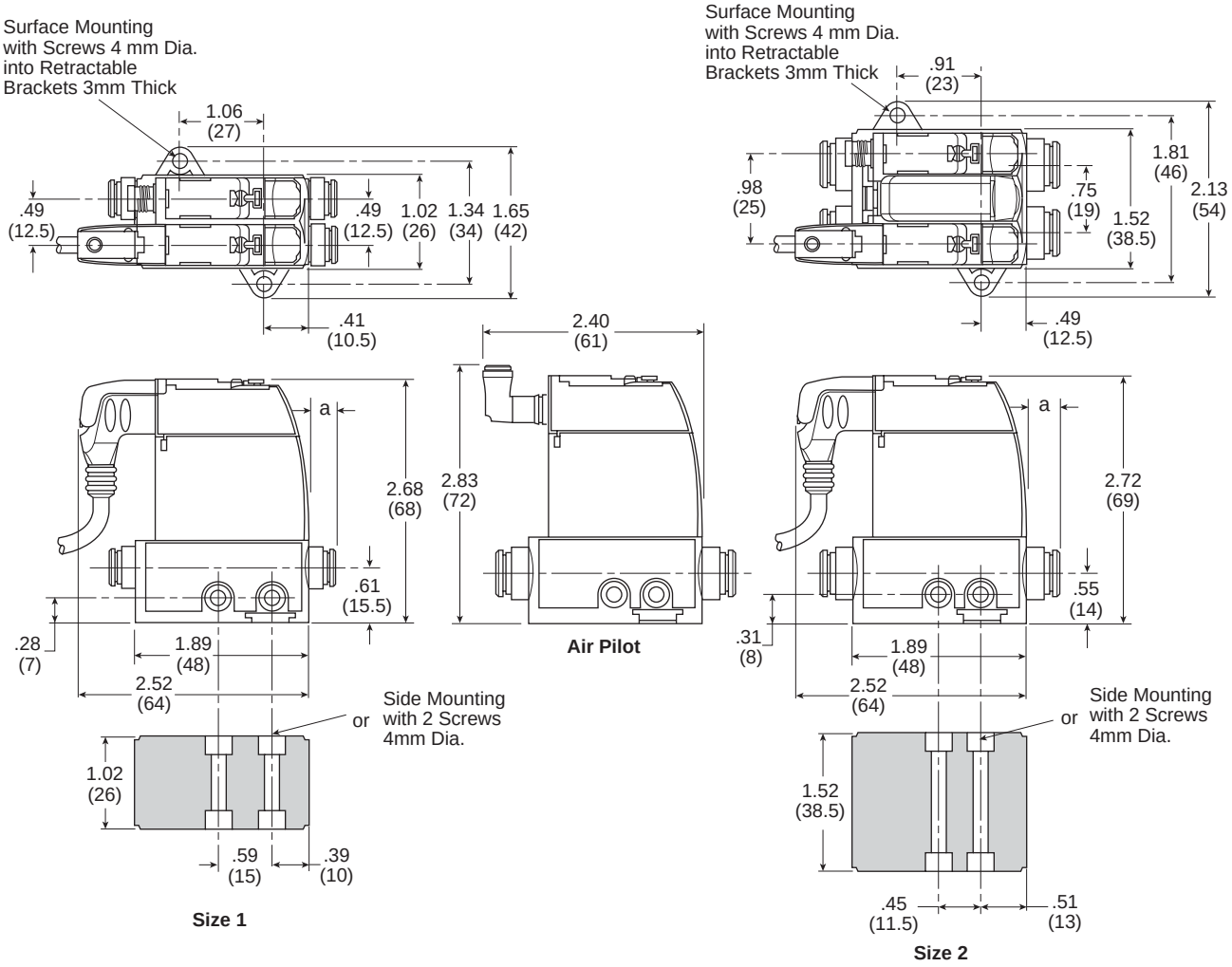
"S" Series Individual Subbase Valve Dimensions and Mounting

Subbase Valve Size 1

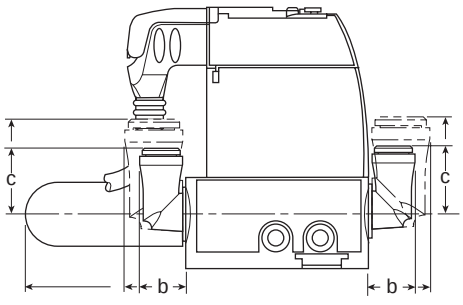


Subbase Valve Size 2





OD Tube Ext.		a	b	c
Size 1 Valves	5/32" (4 mm)	8	10	12
	6 mm	8	13	16
	1/4"	15	18	22
	Muffler		31	
Size 2 Valves	1/4"	12	18	22
	8 mm	9	16	19
	3/8"	16	23	26
	10 mm	13	18	22
	Muffler		40	



Special Case: 4/3 all ports blocked. Add the dual P.O. check valve that has been plugged in the basic valve.

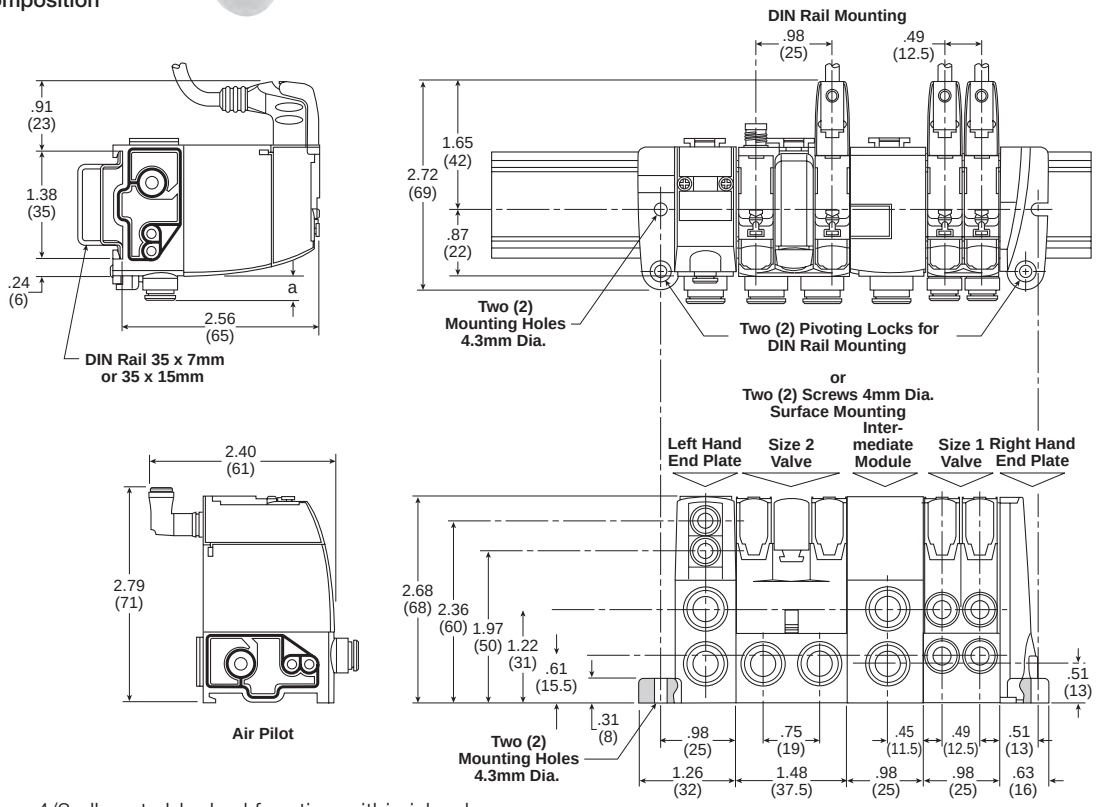
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"T" Series Manifold Dimensions and Mounting



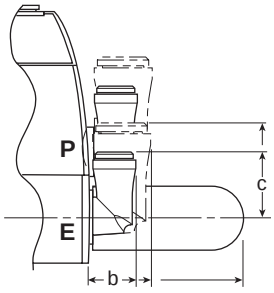
Total Width Depends on Valve Composition



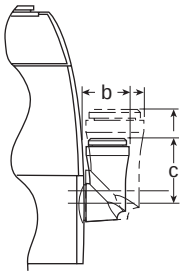
Special Case: 4/3 all ports blocked function within island version, add the dimensions of the dual P.O. check valve plugged into the island.

End Plate and Intermediate Modules

	a	b	c
6 mm Tube OD	8	13	16
1/4" Tube OD	12	18	22
8 mm Tube OD	9	16	19
3/8" Tube OD	16	23	26
10 mm Tube OD	13	18	25
12 mm Tube OD	13	19	25
1/2" Tube OD	13		
Muffler		40	



OD Tube	Ext.	a	b	c
Size 1 Valves	5/32" (4 mm)	8	10	12
	6 mm	8	13	16
	1/4"	15	18	22
Size 2 Valves	1/4"	12	18	22
	8 mm	9	16	19
	3/8"	16	23	26
	10 mm	13	18	22

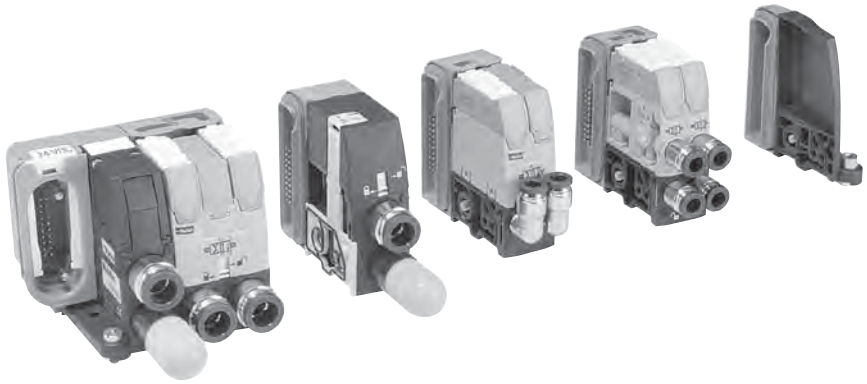


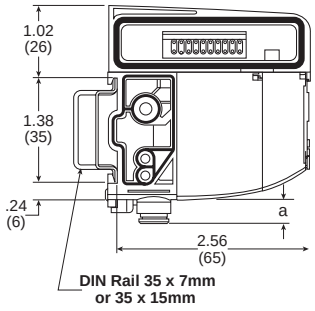
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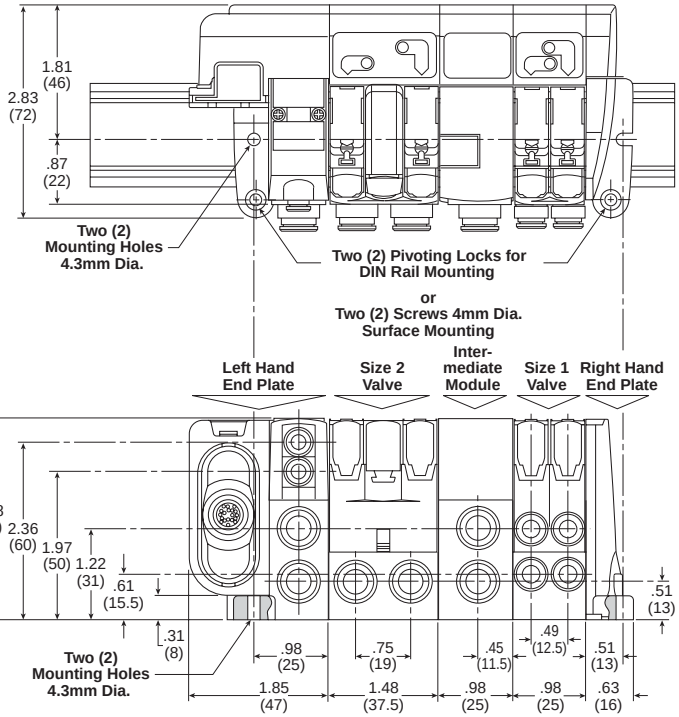
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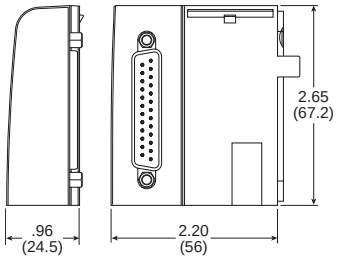
"V" Series Manifold Dimensions and Mounting
20-pin, Multi-Connector Valve Manifold

Total Width Depends on Valve Composition

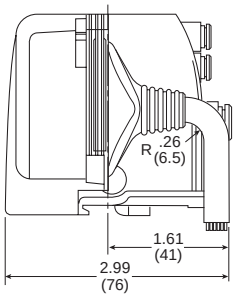








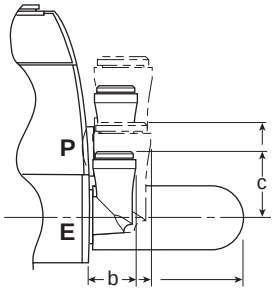
25-pin,
D-Sub



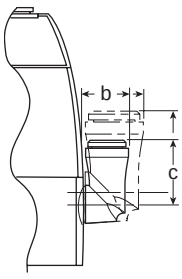
20-pin,
Multi-Connector

End Plate and Intermediate Modules

	a	b	c
6 mm Tube OD	8	13	16
1/4" Tube OD	12	18	22
8 mm Tube OD	9	16	19
3/8" Tube OD	16	23	26
10 mm Tube OD	13	18	25
12 mm Tube OD	13	19	25
1/2" Tube OD	13		
Muffler		40	



OD Tube	Ext.	a	b	c
Size 1 Modules	5/32" (4 mm)	8	10	12
	6 mm	8	13	16
	1/4"	15	18	22
Size 2 Modules	1/4"	12	18	22
	8 mm	9	16	19
	3/8"	16	23	26
	10 mm	13	18	22



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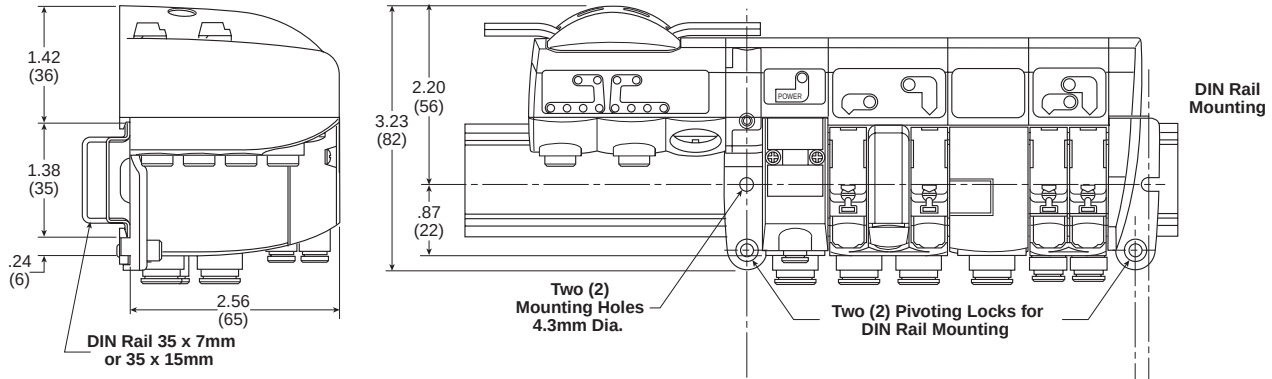
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"V" Series Manifold Dimensions and Mounting
Fieldbus Connected Manifolds

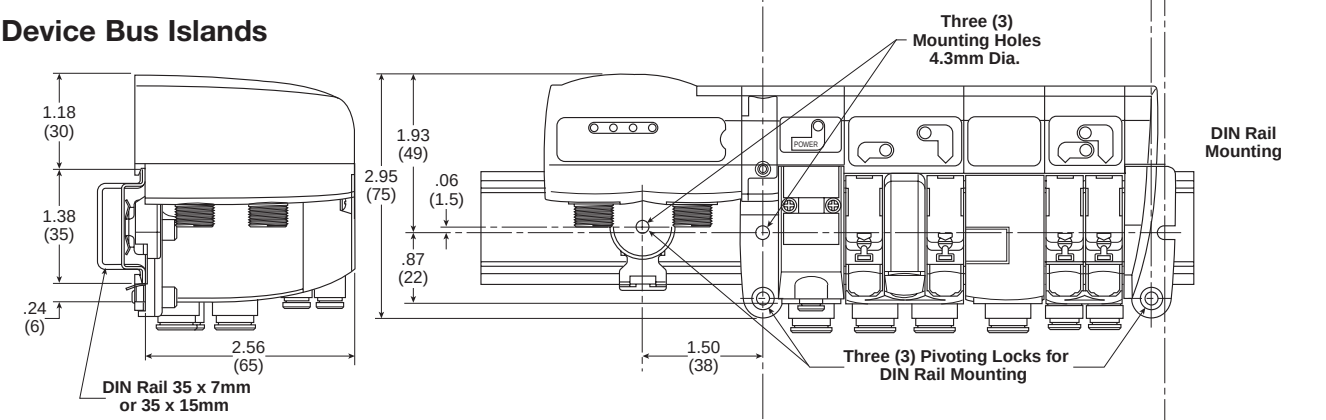
Total Width Depends on Valve Composition

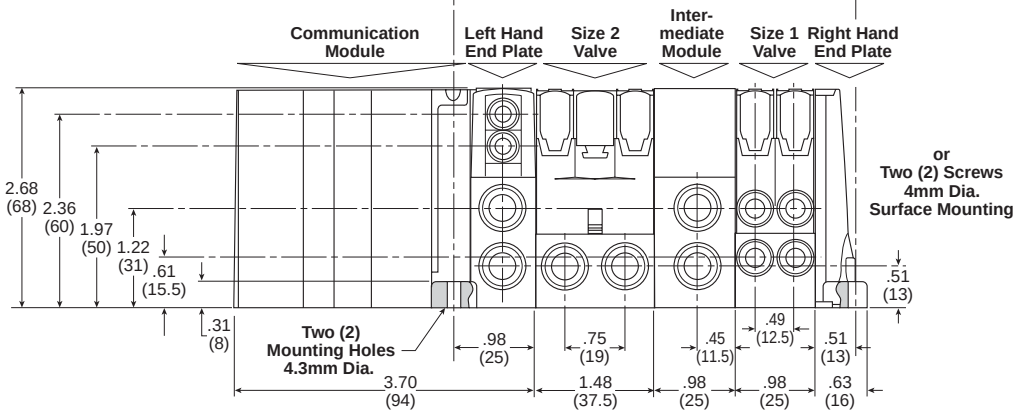


AS-i Bus Islands



Device Bus Islands





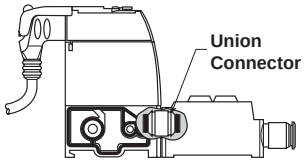
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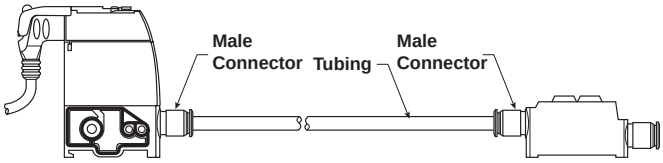
"P" Series Peripheral Modules Dimensions and Mounting

Reminder: Peripheral modules may either be plugged in the valve output ports or mounted in-line separate from the valve.

Peripheral Module Plugged in a Valve

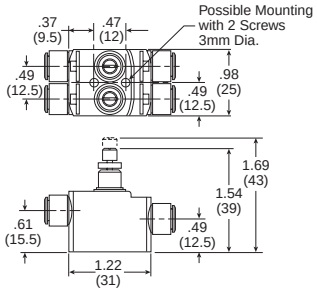


In-Line Peripheral Modules: Mounting is Required

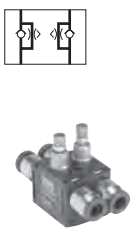


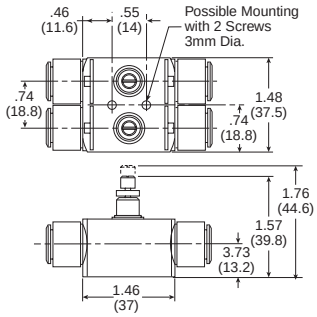
Dual Flow Control Size 1





Dual Flow Control Size 2

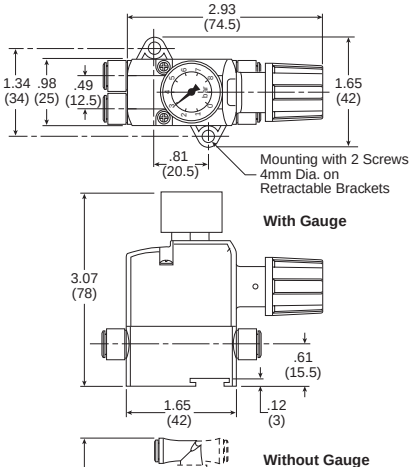




Pressure Regulator Size 1

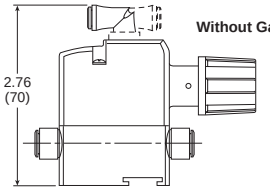
With Gauge





Without Gauge

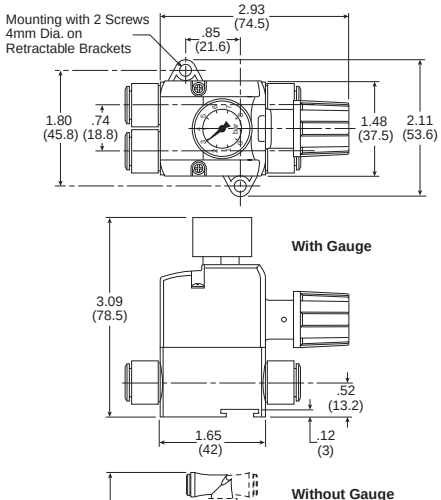




Pressure Regulator Size 2

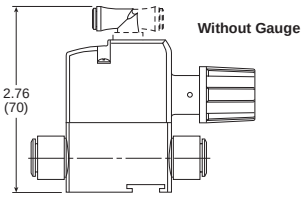
With Gauge



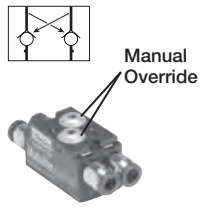


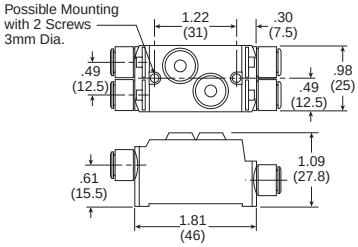
Without Gauge



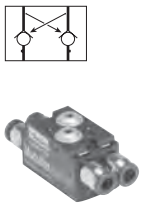


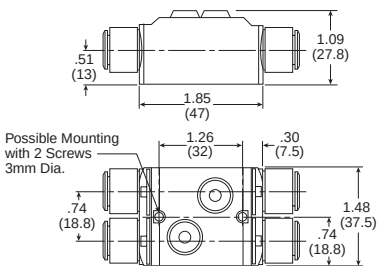
Dual P.O. Check Valve Size 1





Dual P.O. Check Valve Size 2





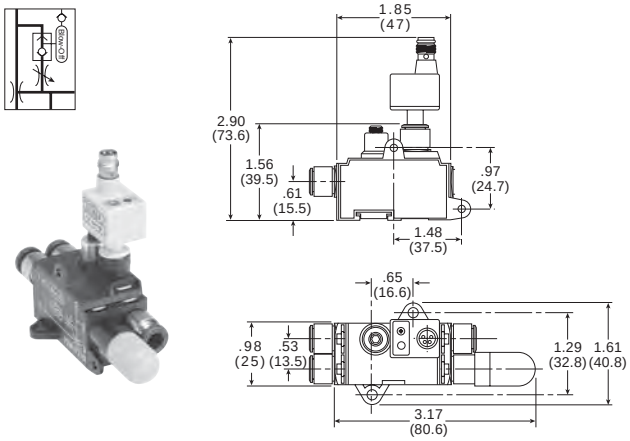
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"P" Series Peripheral Modules Dimensions and Mounting

Reminder: Peripheral modules may either be plugged in the valve output ports or mounted in-line separate from the valve.

Vacuum Generator Size 1



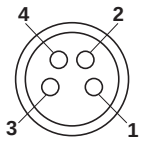
Sensor specifications

Media	Air and non-corrosives gases
Proof pressure	(V) 72.5 PSI
Operating temperature	32 to 122°F (0 to 50°C)
Storage temperature	14 to 140°F (-10 to 60°C)
Humidity	35 to 85% RH
Electrical connection	(C) 4-pin, M8 connector
Power supply	10.8 to 30 VDC, ripple Vp-p 10% max., reverse voltage protection
Switch output	1 output signal open and closed, NPN or PNP, 30VDC, 125mA
Linear output	Analog output 1 to 5 VDC
Switch point setting	2/3 turn trimmer
Hysteresis setting	< 2% of F.S.
Output response time	<1ms
Repeatability	<0.2% F.S.
Shock resistance	100 G, XYZ
Material	Housing: Polycarbonate, pressure port: Zinc die-cast
Mass	T Port: 0.25 oz. (7g)

Sensor pin out

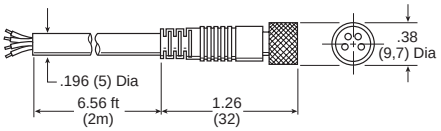
Pin #

1 Brown: 24VDC
2 White: NPN / PNP open collector output
3 Blue: 0VDC
4 Black: NPN / PNP open collector output

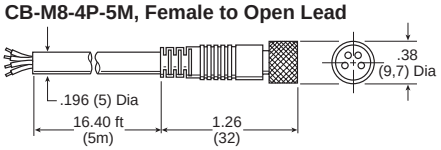


Cables

CB-M8-4P-2M, Female to Open Lead



CB-M8-4P-5M, Female to Open Lead



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