

D
Valve Products

Valve Products

Direct Acting Valves

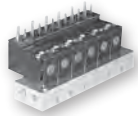
XM Series - Direct Acting



D4

- Inline or stacking
- 1/8 inch ports
- Pressures 0 to 125 PSIG
- Temperatures 32°F to 125°F
- Flow - .15 Cv

15mm Series - Direct Acting



D8

- Subbase or manifold
- 1/8 inch ports
- Pressures VAC to 145 PSIG
- Temperatures 5°F to 140°F
- Flow - .033 to .05 Cv

Inline Valves

Viking Lite Series - Inline



D11

- Inline or bar manifold
- 1/8 through 3/8 inch ports
- Pressures 22 to 145 PSIG
- Temperatures 14°F to 122°F
- Flow - .6 to 2.5 Cv

Viking Xtreme Series - Inline



D19

- Inline or bar manifold
- 1/8 through 1/2 inch ports
- Pressures VAC to 232 PSIG
- Temperatures -40°F to 140°F
- Flow - .7 to 2.7 Cv

B Series - Inline



D43

- Inline, subbase or bar manifold
- 1/8 through 3/4 inch ports
- Pressures VAC to 145 PSIG
- Temperatures 5°F to 120°F
- Flow - .75 to 7.0 Cv

ADEX Series - Inline



D68

- Inline, subbase or bar manifold
- M3, M5, 1/8 inch ports
- Pressures VAC to 100 PSIG
- Temperatures 32°F to 122°F
- Flow - .1 to .47 Cv

Inline – continued

N Series - Inline Poppet

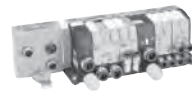


D78

- Inline mounted
- 3/8 through 1-1/2 inch ports
- Pressures 30 to 250 PSIG
- Temperatures 0°F to 200°F
- Flow - 3.6 to 29.9 Cv

Subbase & Manifold Valves

Moduflex Series Valves



D89

- Inline or stacking
- 4mm tube, 1/4, 3/8 inch ports
- Pressures VAC to 120 PSIG
- Temperatures 5°F to 140°F
- Flow - .18 to .80 Cv

Isys Micro Series



D113

- Subbase or manifold
- 4mm through 1/4 tube
- Pressures VAC to 145 PSIG
- Temperatures 5°F to 120°F
- Flow - .35 Cv

Isys ISO Series



D124

- Subbase or manifold
- 1/8 through 3/4 inch ports
- Pressures VAC to 145 PSIG
- Temperatures 5°F to 120°F
- Flow - .55 to 6.0 Cv

Fieldbus Series

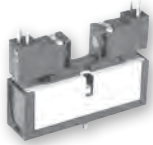


D166

- Fieldbus interface for Isys and Moduflex valves
- Up to 256 inputs
- Up to 256 outputs
- Digital or analog

Subbase & Manifold – continued

DX ISOMAX Series



D185

- Subbase or manifold
- 1/8 through 3/4 inch ports
- Pressures VAC to 145 PSIG
- Temperatures 14°F to 140°F
- Flow - .55 to 4.15 Cv

Valvair II Series

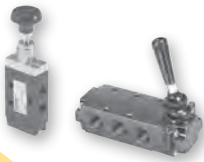


D198

- Subbase or manifold
- 3/8 through 1-1/2 inch ports
- Pressures VAC to 225 PSIG
- Temperatures 0°F to 200°F
- Flow - 1.9 to 12.0 Cv

Manual / Mechanical Valves

Directair 2 & 4



D208

- Manual / mechanical
- 1/8 and 1/4 inch ports
- Pressures VAC to 150 PSIG
- Temperatures 32°F to 175°F
- Flow - .20 to .84 Cv

Viking Xtreme



D218

- Manual / mechanical
- 1/8, 1/4 and 3/8 inch ports
- Pressures:
Type A & B - VAC to 232 PSIG
Type C & D - VAC to 174 Psig
- Temperatures -40°F to 140°F
- Flow - .5 to 2.7 Cv

42 Series



D225

- Manual / mechanical
- 1/4 and 3/8 inch ports
- Pressures VAC to 150 PSIG
- Temperatures 0°F to 140°F
- Flow - 1.3 to 2.9 Cv

Manual / Mechanical – continued

M0 Series



D227

- Air Pilot, Manual / mechanical
- 1/4 and 1 inch ports
- Pressures VAC to 225 PSIG
- Temperatures -15°F to 200°F
- Flow - .5 to 1.25 Cv

LV / EZ Lockout Valves



D231

- Port sizes 3/8 through 1-1/4 inch
- Max. supply pressure 300 PSIG
- Max. operating temperature 175°F
- Cv from 3.7 to 14

Brass Poppet, Sliding Seal



D233

- 4-way, 3-position rotary disc, direct air operated valves
- Pressures 0 to 150 PSIG
- Temperatures 18°F to 200°F
- Flow - 2.5 to 6.2 Cv

Valve Accessories

Control Panel Products



D236

- A wide variety of push buttons and selector switches
- Visual indicators
- Foot pedal switches
- Modular pneumatic / electric push buttons

Sensing / Limit Switches



D240

- Limit switches in a variety of sizes and configurations
- Pressure switches with many adjustable ranges
- Components designed specifically for pneumatic technology using pressure variation, air bleen or blocking for detection

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

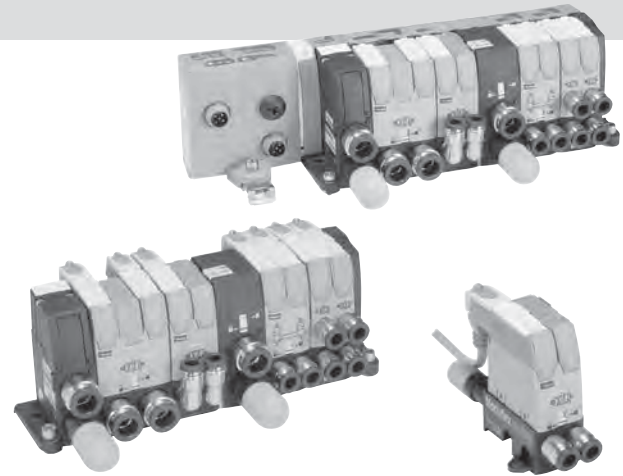
- 1.0 Watt
- 24 VDC
- Compatible with PNP or NPN outputs

Certification / approval

- IP65 rated
- CE, as marked

Material specifications

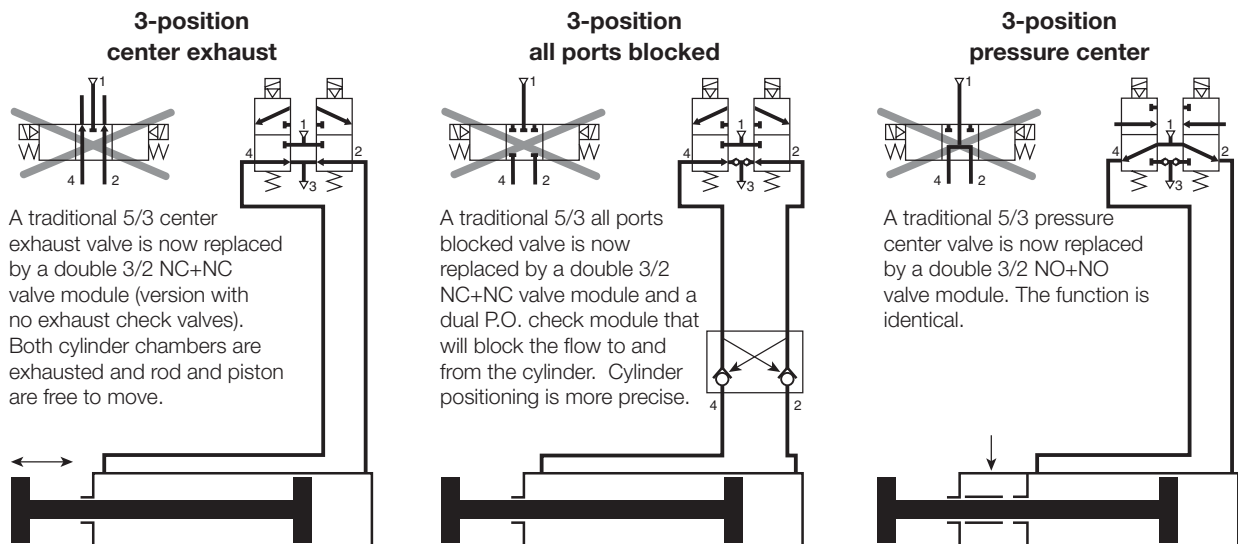
End plates (T and V series)	Plastic
Fasteners	Nickel plated steel
Spool	Aluminum and nitrile rubber or ceramic plate
Subbase or manifold	Plastic
Valve body	Plastic



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)

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



 Most popular.



Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus









DX ISOMAX Series

Valvair II Series









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Subbase & Manifold Valve Products











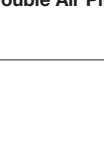
“S” Series Individual Subbase Valves Size 1 (Valve & Base without Pneumatic Connectors)

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












“S” Series Size 1 Accessories

	Description	Tube Size	Option	Part number	
DX ISOMAX Series		Size 1 push to connect fitting	5/32"	Elbow	CMD04-1
				Straight	FMD04-1
Valvair II Series		Size 1 push to connect fitting	1/4"	Elbow	CMD07-1B
				Straight	FMD07-1B
Subbase & Manifold Valve Products		Size 1 push to connect fitting	6mm	Elbow	CMD06-1
				Straight	FMD06-1
D		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		

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

	Symbol	Type	Cv	Operator	Part number
 Single Solenoid		4-way, 2-position	0.8	Single solenoid	P2M2S4ES2C
				Single air pilot	P2M2S4PS
 Single Air Pilot		4-way, 2-position	0.8	Double solenoid	P2M2S4EE2C
				Double air pilot	P2M2S4PP
 Double Solenoid		3-way, 2-position, dual valve, NC/NC w/ exhaust check	0.44	Double solenoid	P2M2SDEE2C
				Double air pilot	P2M2SDPP
 Double Air Pilot		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

Moduflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

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

- Moduflex Series
- Isys Micro Series
- Isys ISO Series
- Fieldbus
- DX ISOMAX Series
- Valvair II Series
- D** Subbase & Manifold Valve Products

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

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.

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.

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

Example for fitting configuration:
Size 1

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

Size 2

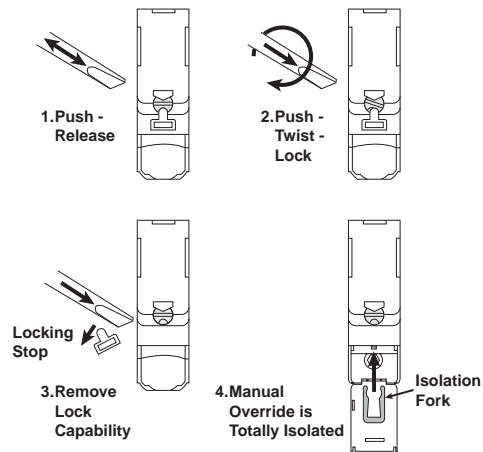
AC0 Ports 1 & 3
 10mm elbow fittings
 Ports 2 & 4
 10mm elbow fittings

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



“T” Series Manifold Valves with Individual Connectors Size 1

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




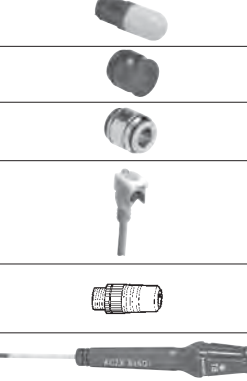





P2M2BXT0A

“T” Series Manifold Valves with Individual Connectors Size 2

	Symbol	Type	Cv	Operator	Part number
 <p>Single Solenoid Single Air Pilot</p>		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
 <p>Double Solenoid Double Air Pilot</p>		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
 <p>Double Solenoid Double Air Pilot</p>		3-way, 2-position, dual valve, NC/NO w/ exhaust check	0.44	Double solenoid	P2M2TEEE2C
		3-way, 2-position, dual valve, 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
 <p>Fieldbus Series</p>	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
 <p>DX ISOMAX Series</p>	Size 2 push to connect fitting	1/2"	Straight	FMD13-2B
			Size 2 push to connect fitting	6mm
	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	
 <p>Valvair II Series</p>	Size 2 Push to connect fitting	12mm	Elbow	CMD12-2
			Straight	FMD12-2
 <p>D Series</p>	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



“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	
<i>3-way / 2-position</i>	
Single solenoid, NC spring return	3ES
Single air pilot, NC spring return	3PS
<i>4-way / 2-position</i>	
Single solenoid, spring return	4ES
Single air pilot, spring return	4PS
Double solenoid	4EE
Double air pilot	4PP
<i>Dual 3-way, 2-position, spring return</i>	
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
<i>Dual 4-way, 2-position, Spring Return</i>	
Solenoid	JEE**
Air pilot	JPP**

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	
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

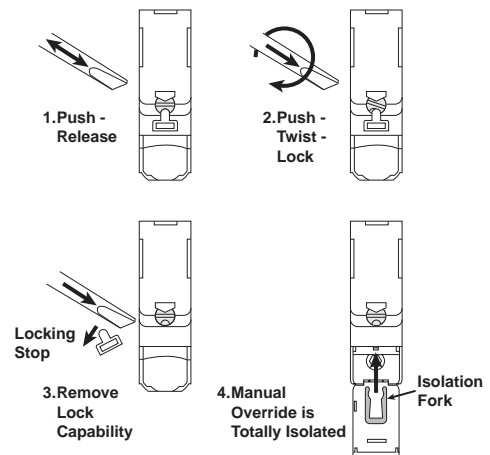
Operator Voltage	
2C	24VDC
00	Remote pilot - 5/32" (4mm) tube

Moduflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus Series
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products









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.


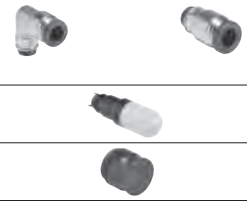



Multi-function adaptable manual override



“V” Series Manifold Valves with Collective Wiring Size 1

	Symbol	Type	Cv	Operator	Part number
 <p>Single Solenoid</p> <p>Double Solenoid</p>		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

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

Moduflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus









DX ISOMAX
Series

Valvair II
Series








D

Subbase & Manifold
Valve Products

“V” Series Manifold Valves with Collective Wiring Size 2

	Symbol	Type	Cv	Operator	Part number
 <p>Single Solenoid</p> <p>Double Solenoid</p>		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, dual valve, 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
	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
9M cable	SCD259WE			
	Torx screwdriver			P2M1K0TASD

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

Moduflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus

DX ISOMAX
Series

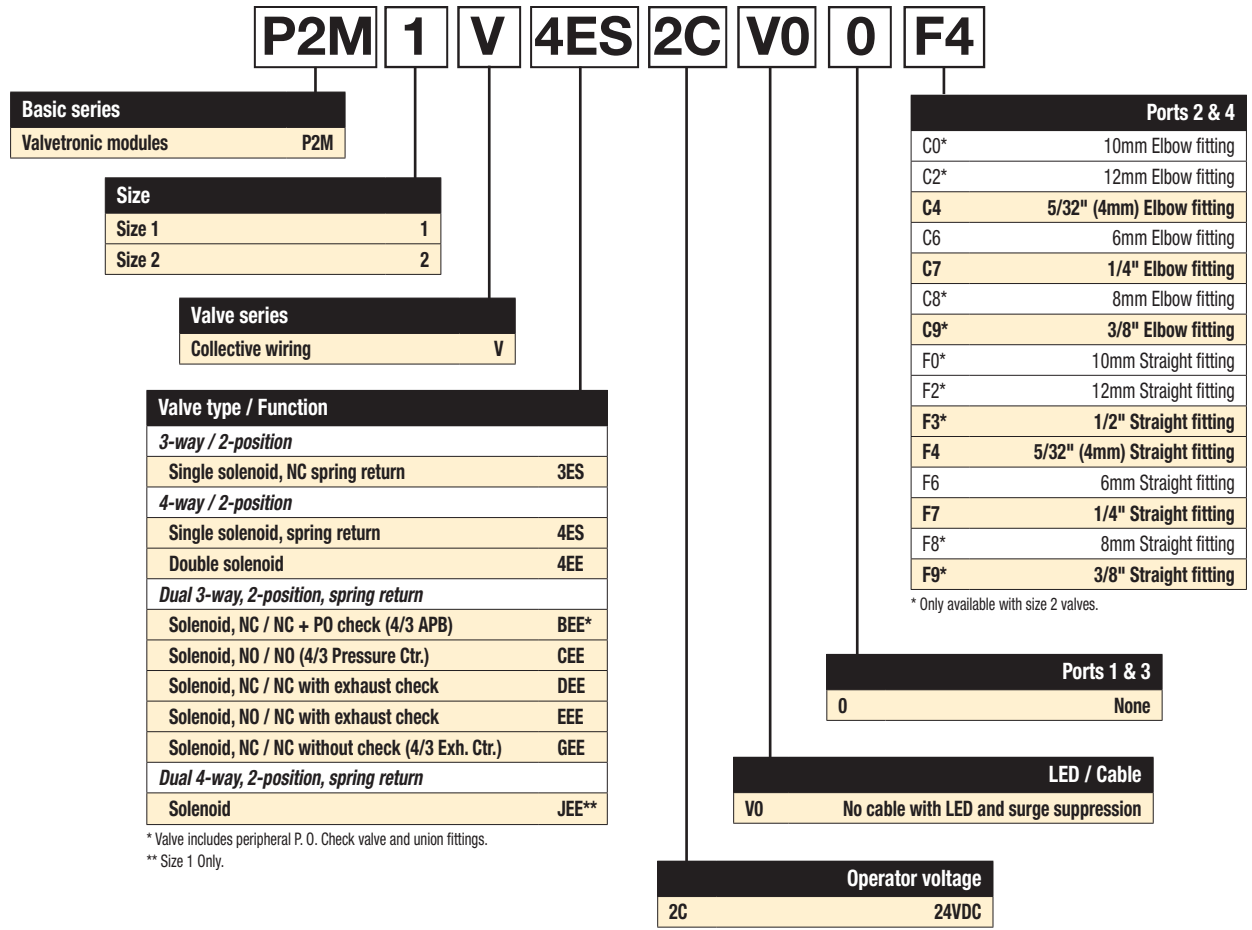
Valvair II
Series

D

Subbase & Manifold
Valve Products

“V” Series Valve Manifold with Collective Wiring
(Complete with Pneumatic Connectors)

Moduflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products

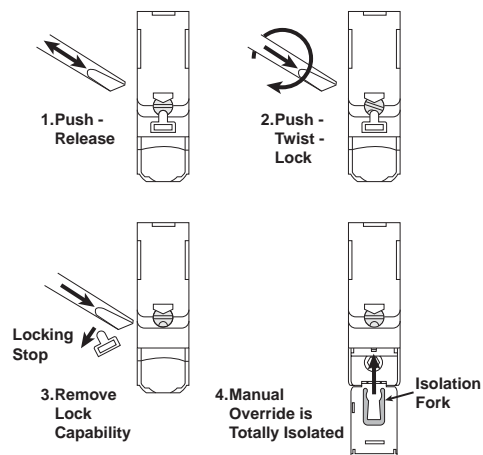


* Valve includes peripheral P. O. Check valve and union fittings.
 ** Size 1 Only.












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

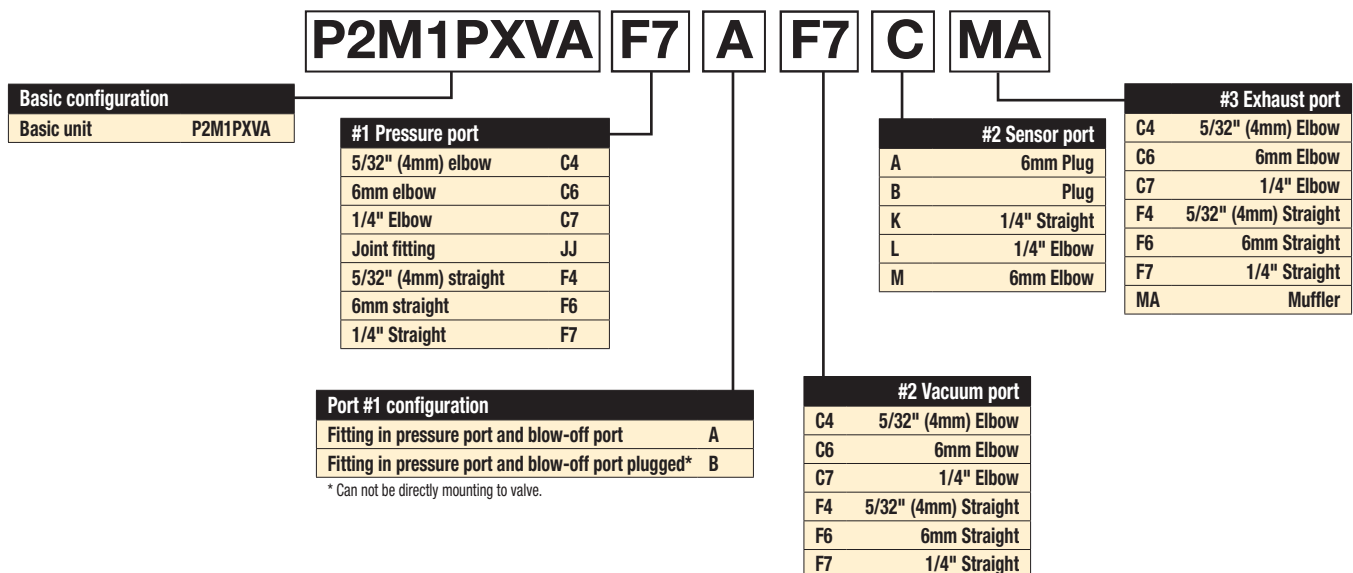


Peripheral Modules Size 1

Accessories	Description	Option	Part number
	Pressure regulator without gauge	0 to 30 PSI	P2M1PXST
		0 to 60 PSI	P2M1PXSL
		0 to 120 PSI	P2M1PXSX
	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
		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
			Connecting peripheral modules
	Double male union		HMDXX1
	Muffler for vacuum exhaust port		MMDVA1
	Plug		PMDYY1










Moduflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus
 DX ISOMAX Series
 Valvair II Series

Vacuum Generator Model Number Index

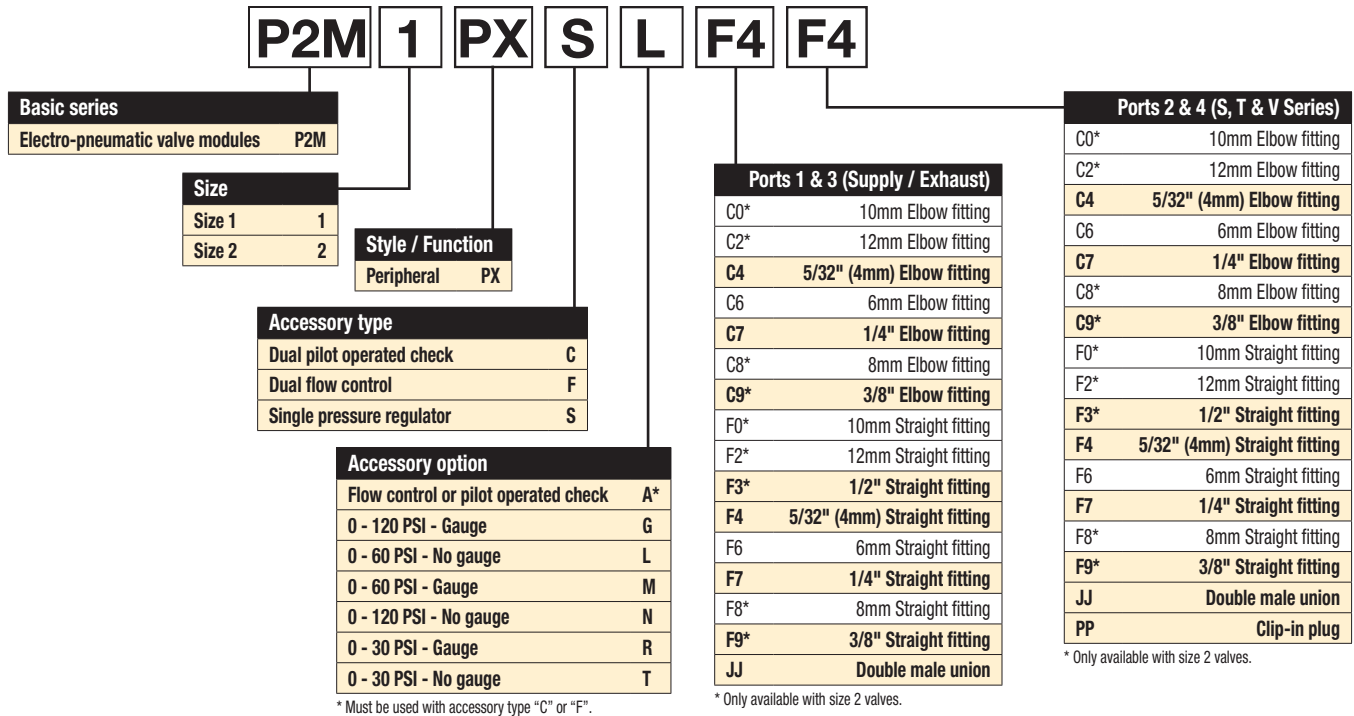


D
 Subbase & Manifold Valve Products

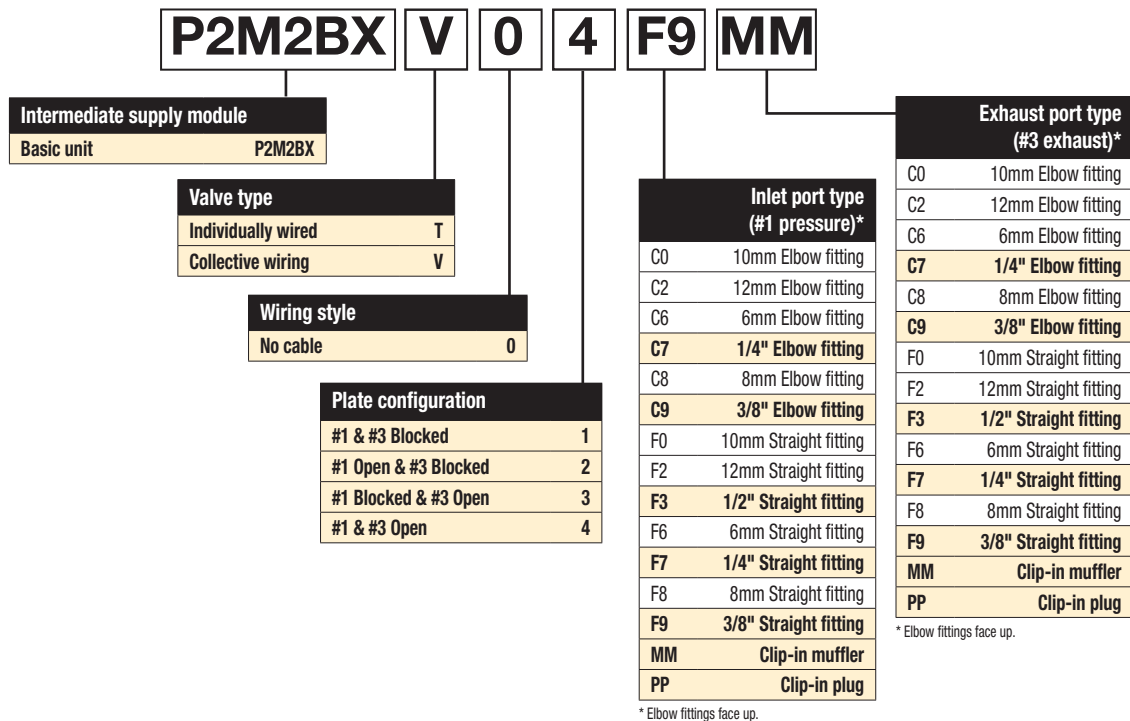
Peripheral Modules Size 2

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

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



Intermediate Supply Module Model Number Index



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 multi-connector T series)	0
2 Meter cable (20-pin)	2
5 Meter cable (20-pin)	5
9 Meter cable (20-pin)	9
Bus	
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.

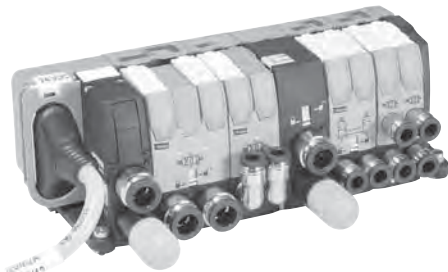
† Intermediate modules are considered stations, but do not count against maximum number of addresses for manifold.

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

Moduflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products

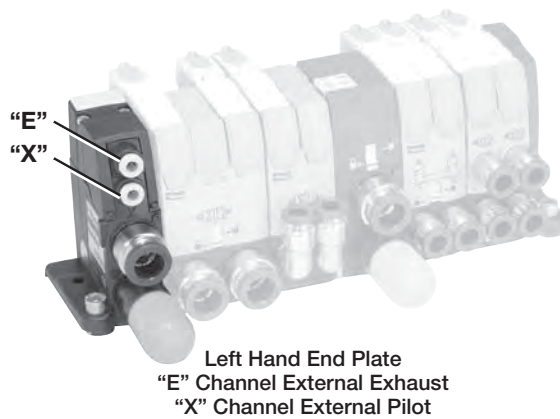
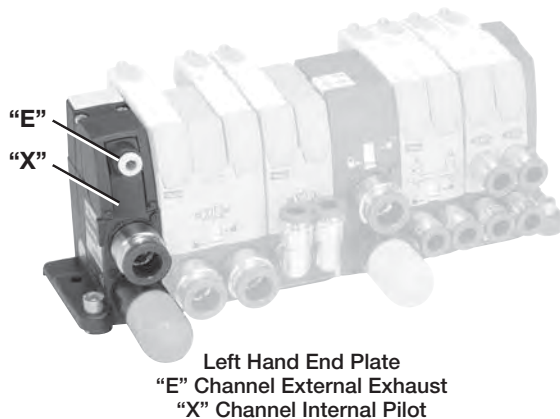
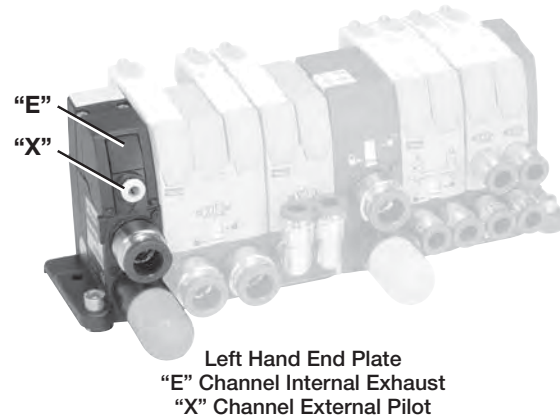
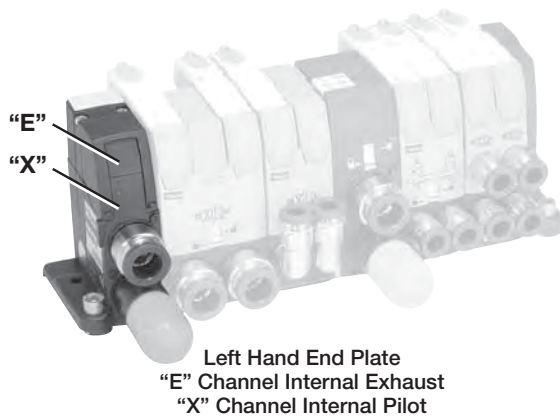
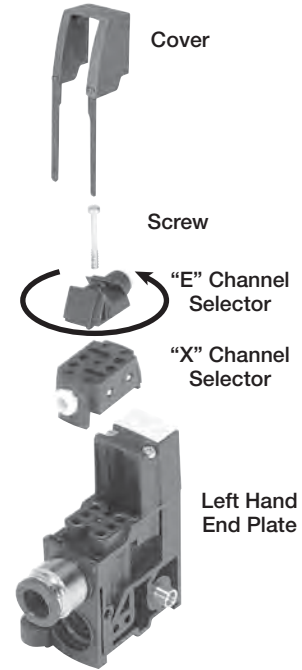
Internal and external pilot supply options

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.



Moduflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

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

Moduflex Series

Isys Micro Series

Size 1 Valve Without Solenoid Pilot and Without Subbase

4-way / 2-position / Single Valve



P2M1X4EE

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	P2M1XDDE
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

4-way / 2-position / Dual Valve



P2M2X4EE

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	P2M2XDDE
Double solenoid NO + NO with exhaust check	P2M2XCEE
Double solenoid NC + NO with exhaust check	P2M2XEEE
Single solenoid NC with exhaust check	P2M2X3ES

Isys ISO Series

Fieldbus

DX ISOMAX Series

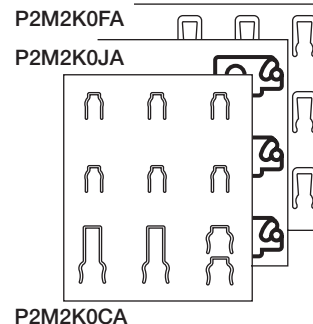
Valvair II Series

D

Subbase & Manifold Valve Products

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



“S” Series Individual Subbase Valve Dimensions and Mounting

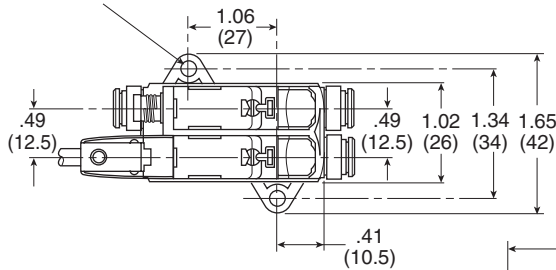
Subbase Valve Size 1



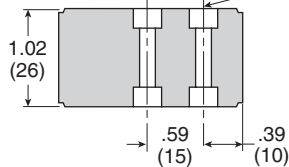
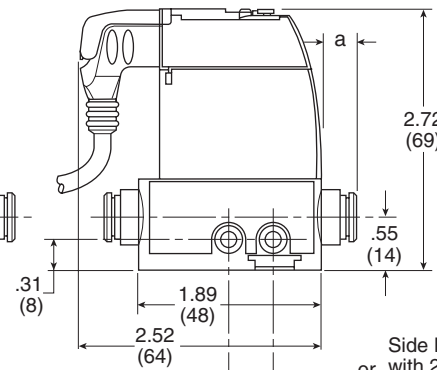
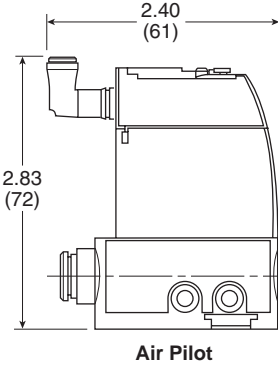
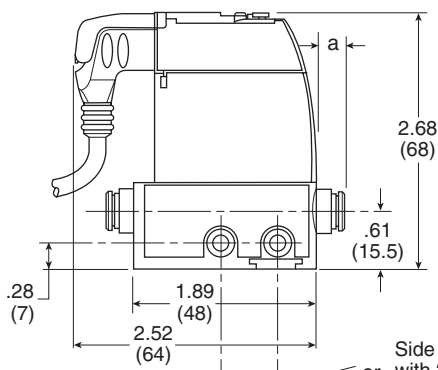
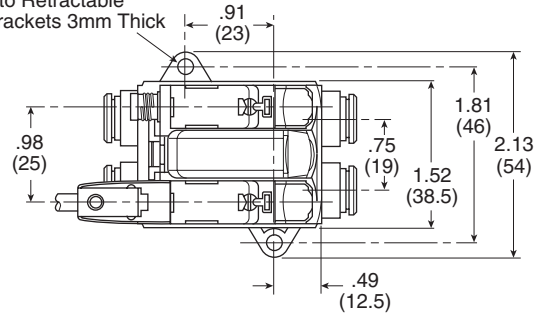
Subbase Valve Size 2



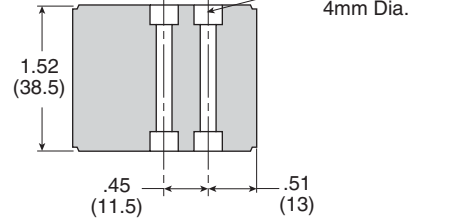
Surface Mounting with Screws 4 mm Dia. into Retractable Brackets 3mm Thick



Surface Mounting with Screws 4 mm Dia. into Retractable Brackets 3mm Thick



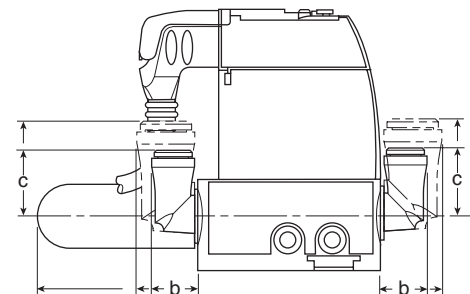
Size 1



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.



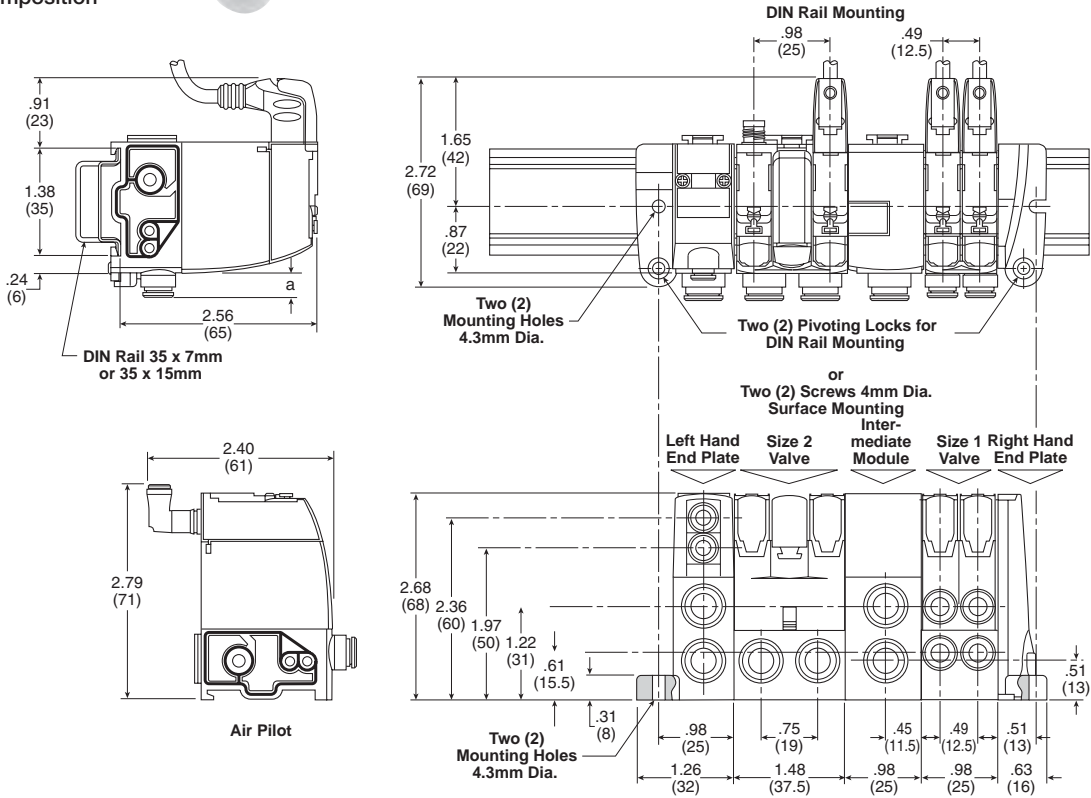
Moduflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

"T" Series Manifold Dimensions and Mounting

- Moduflex Series
- Isys Micro Series
- Isys ISO Series
- Fieldbus
- DX ISOMAX Series
- Valvair II Series
- D**
- Subbase & Manifold Valve Products



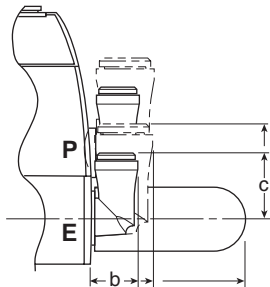
Total Width Depends on Valve Composition



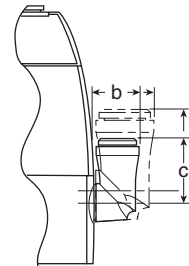
Special Case: 4/3 all ports blocked function within island version, add the dimensions of the dual P.O. check valve plugged into the island.

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		



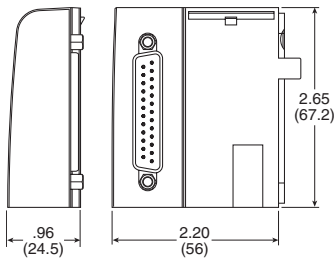
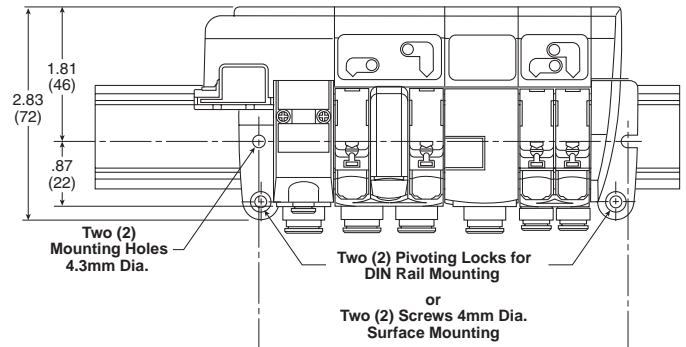
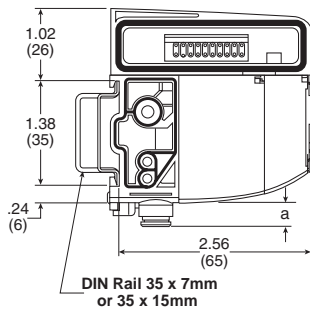
OD Tube	Ext.	a	b	c
Size 1 Valves	5/32" (4 mm)	8	10	12
	6 mm	8	13	16
Size 2 Valves	1/4"	15	18	22
	1/4"	12	18	22
	8 mm	9	16	19
	3/8"	16	23	26
	10 mm	13	18	22



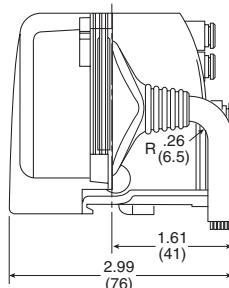
“V” Series Manifold Dimensions and Mounting
 20-pin, Multi-Connector Valve Manifold



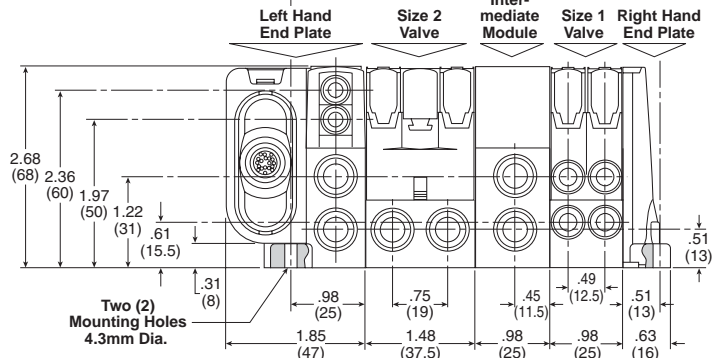
Total Width Depends
 on Valve Composition



25-pin,
 D-Sub

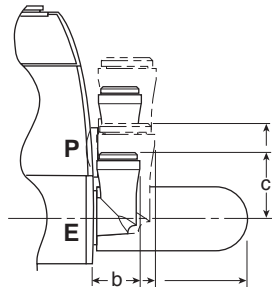


20-pin,
 Multi-Connector

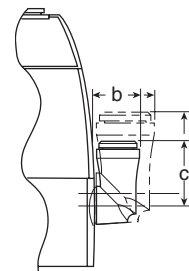


End Plate and Intermediate Modules

	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



Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

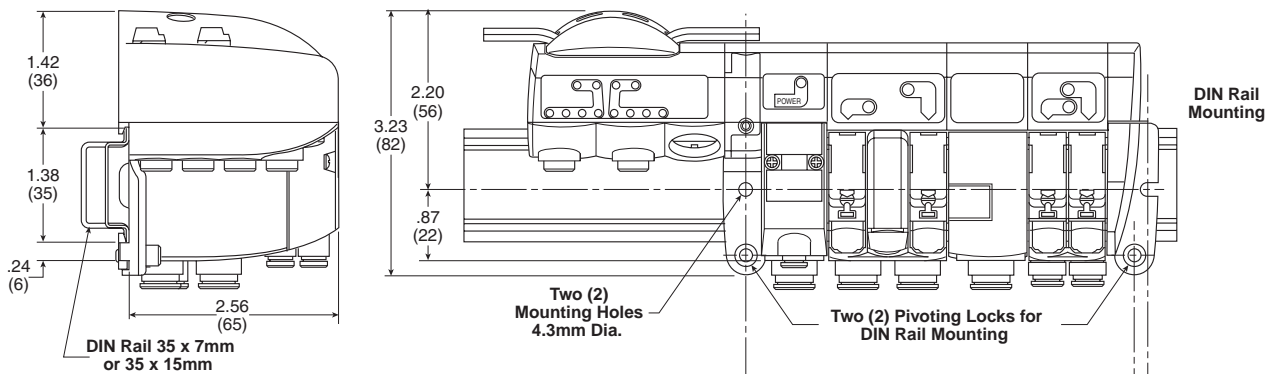
Subbase & Manifold Valve Products

“V” Series Manifold Dimensions and Mounting
 Fieldbus Connected Manifolds

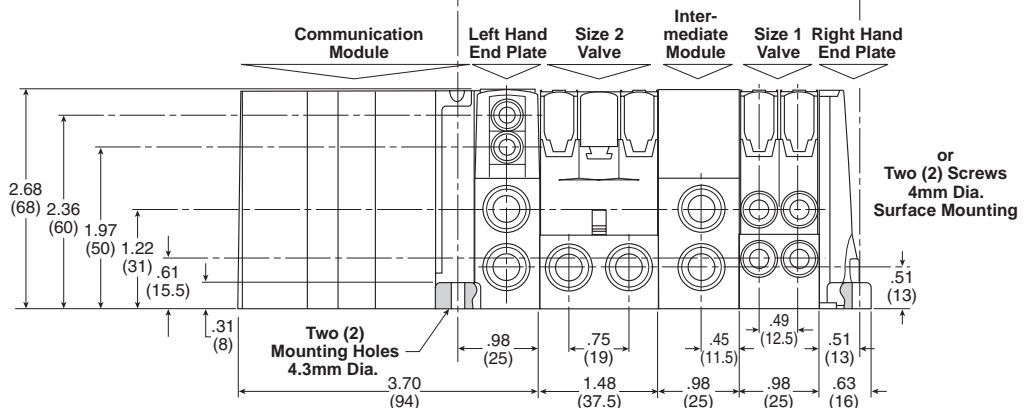
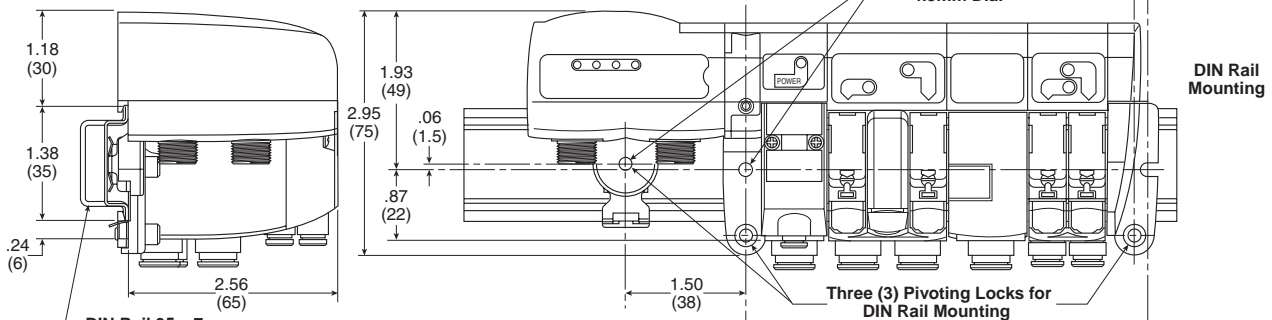
Total Width Depends
 on Valve Composition



AS-i Bus Islands



Device Bus Islands

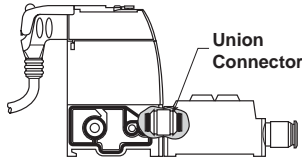


Moduflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

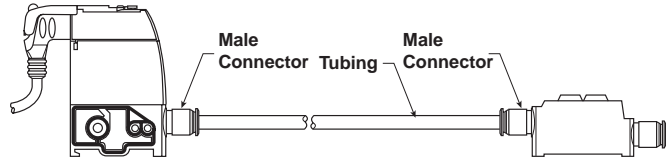
“P” Series Peripheral Modules Dimensions and Mounting

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

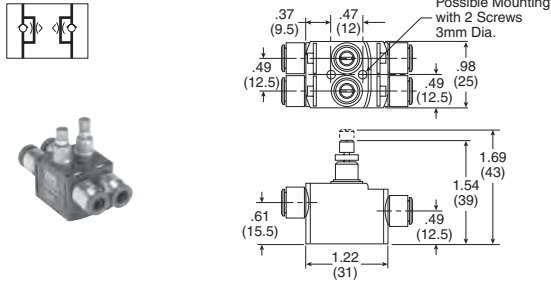
Peripheral Module
 Plugged in a Valve



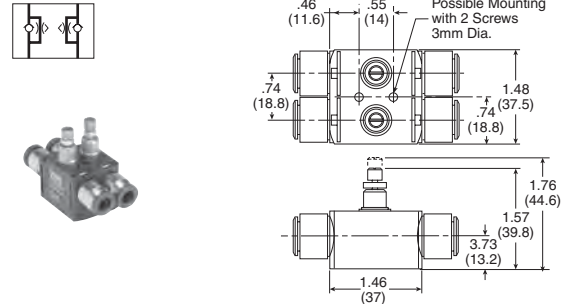
In-Line Peripheral Modules:
 Mounting is Required



Dual Flow Control Size 1

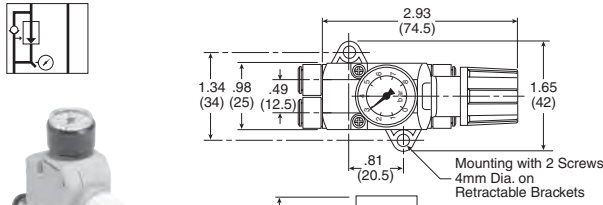


Dual Flow Control Size 2



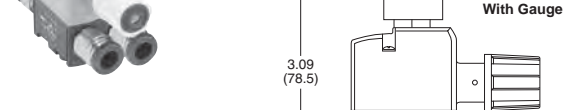
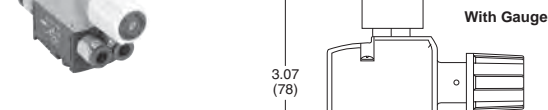
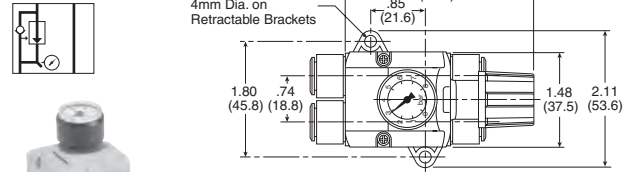
Pressure Regulator Size 1

With Gauge

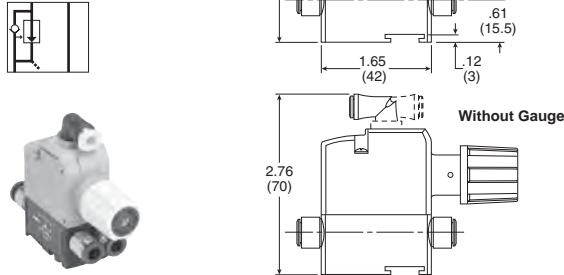


Pressure Regulator Size 2

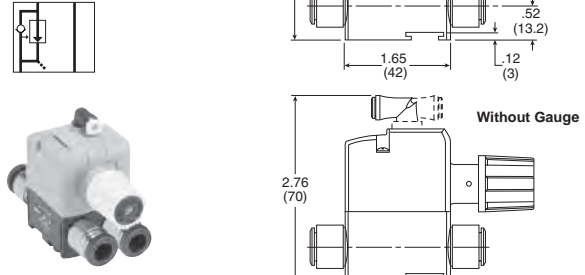
With Gauge



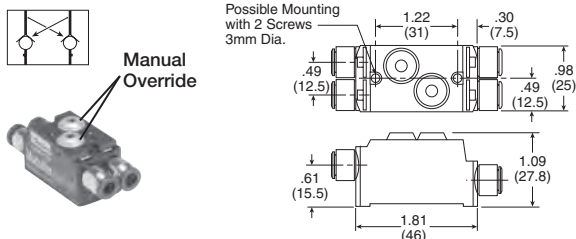
Without Gauge



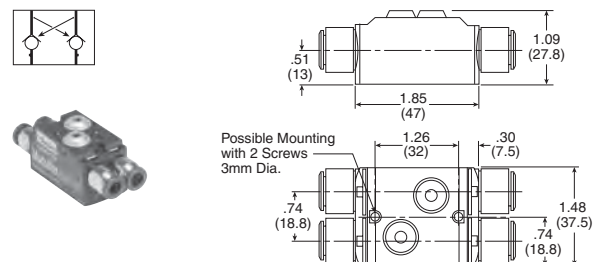
Without Gauge



Dual P.O. Check Valve Size 1



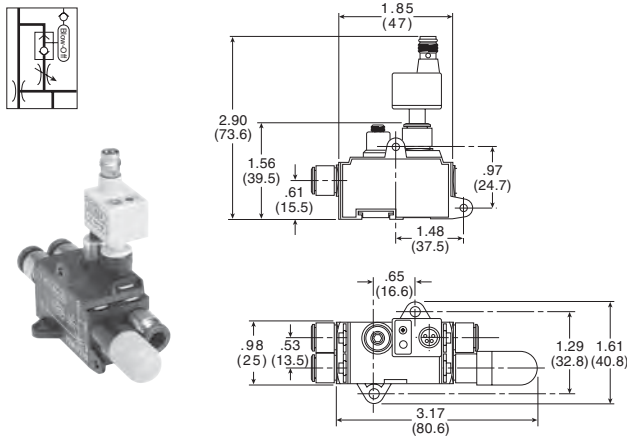
Dual P.O. Check Valve Size 2



“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

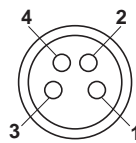


Sensor specifications

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)

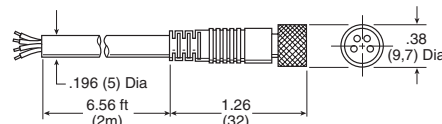
Sensor pin out

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

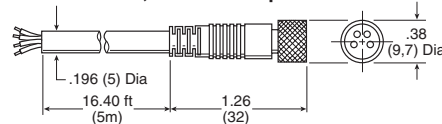


Cables

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



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



Isys Micro Series

The Isys Micro Valve System incorporates a space saving back to back valve mounting design, and achieves flow rates of 0.35 Cv per valve with 4 valves having a combined width of 42mm. This plug-in valve solution simplifies wiring with the use of 25 pin connectors or fieldbus systems.

Ports

- M7 on manifolds
- 3/8 Inch on end plates

Mounting

- Manifold

Solenoids

- 24 VDC, 1.0 watt

Certification / approval

- IP65 rated
- EMC / CE Mark: According to EN 61 000-6-2

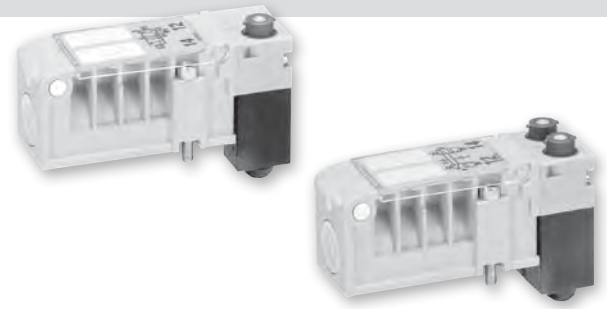
Material specifications

Body	Polyamide reinforced fiberglass
End plates	Aluminum
Fasteners	Zinc plated steel
Manifolds	Aluminum
Spool	Brass and nitrile rubber
Spool enclosure	Brass

Pilot configuration

Manifolds can be configured for either internal or external pilot in the field. Side ported manifolds are configured for internal pilot when the M7 plug is located in the Px port on the front of the right hand end plate. Moving this plug to the inside of the right hand end plate and replacing it with a fitting allows an external pilot to be used.

Bottom ported manifolds are configured for internal pilot when the M7 plug is located in the Px port on the bottom of the right hand end plate. Moving this plug to the inside of the right hand end plate and replacing it with a fitting allows an external pilot to be used.



Operating information

Operating pressure: Vacuum to 145 PSIG (Vacuum to 10 bar)

Pilot pressure requirements:

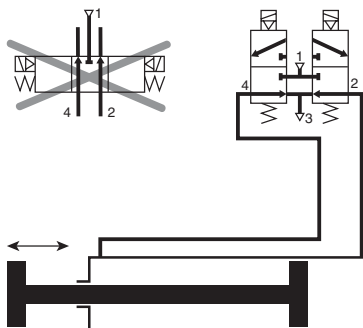
Valve number	Minimum pilot pressure	Maximum pilot pressure
HMEVX2049A	40 PSI	120 PSI
HM2VX2049A	25 PSI	120 PSI
HM5VX2049A	45 PSI	120 PSI
HMN VX2049A	40 PSI	120 PSI
HMPVX2049A	40 PSI	120 PSI
HMQVX2049A	40 PSI	120 PSI

Temperature range: 5°F to 120°F (-15°C to 49°C)

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

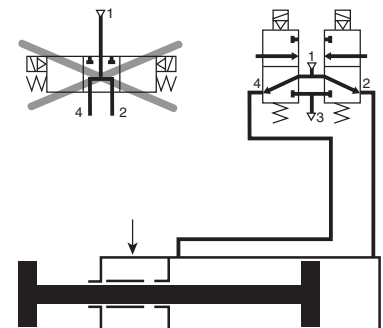
3-position center exhaust

A traditional 5/3 center exhaust valve is now replaced by a double 3/2 NC+NC valve module. Both cylinder chambers are exhausted and rod and piston are free to move.



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.

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

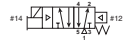
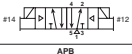
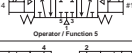
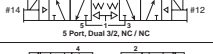
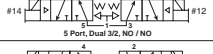



DX ISOMAX Series

Valvair II Series


D

Subbase & Manifold Valve Products









Isys Micro Valves

	Symbol	Type	Cv	Operator	Part number
Modulflex Series		4-way, 2-position	0.35	Single solenoid	HMEVX2049A
		4-way, 2-position	0.35	Double solenoid	HM2VX2049A
		4-way, 3-position, all ports blocked	0.3	Double solenoid	HM5VX2049A
Isys Micro Series		3-way, 2-position, dual valve, NC/NC	0.35	Double solenoid	HMNVX2049A
		3-way, 2-position, dual valve, NO/NO	0.35	Double solenoid	HMPVX2049A
		3-way, 2-position, dual valve, NO/NC	0.35	Double solenoid	HMQVX2049A
Isys ISO Series		Blanking plate	N/A	N/A	HMBVX00XXA
		Intermediate air supply	N/A	N/A	HMCVX00XXA

Manifold Bases

Fieldbus	Plug-in valve manifolds	Part numbers	
		Side port	Bottom port
Single solenoid outputs only		PSM21JAP	PSM22JAP
		PSM21MAP	PSM22MAP
Double or single solenoid outputs			

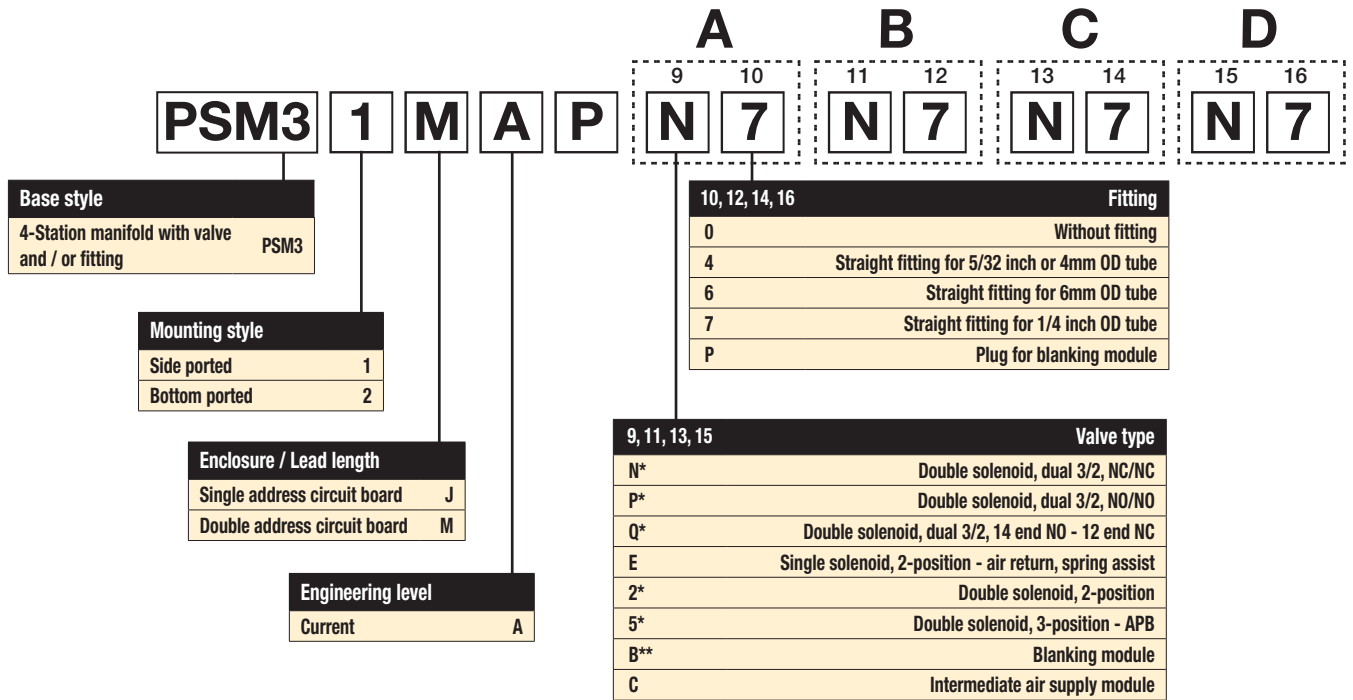
Internal Pilot End Plate Kits

	Electrical option	Porting	Side port	Bottom port
	25-pin, D-sub	NPT	PSML25AP	PSML26AP
		BSPP	PSML21AP	PSML22AP
	Turck fieldbus with valve driver module - 16 outputs	NPT	PSMT15AP	PSMT16AP
		BSPP	PSMT11AP	PSMT12AP
	Turck fieldbus with valve driver module - 32 outputs	NPT	PSMT25AP	PSMT26AP
		BSPP	PSMT21AP	PSMT22AP
	Modulflex 16 outputs	NPT	PSMM45AP	PSMM46AP
		BSPP	PSMM41AP	PSMM42AP
	Isysnet with valve driver module	NPT	PSML65AP	PSML66AP
		BSPP	PSML61AP	PSML62AP
	Isysnet with valve driver module and bus extension connector	NPT	PSMM55AP	PSMM56AP
		BSPP	PSMM51AP	PSMM52AP
	Isysnet with valve driver module and 24VDC connector	NPT	PSMM65AP	PSMM66AP
		BSPP	PSMM61AP	PSMM62AP
	Isysnet with valve driver module, bus extension connector and 24VDC connector	NPT	PSMM75AP	PSMM76AP
		BSPP	PSMM71AP	PSMM72AP

Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
Subbase & Manifold Valve Products

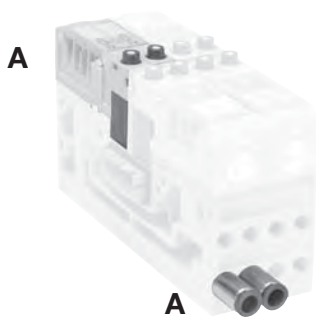
Simple Manifold Assemblies

Includes a valve manifold with 4 valves and fittings installed.
 End Plates must be ordered separately.

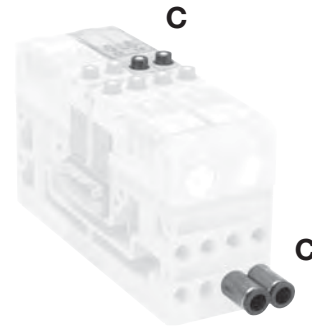


BOLD OPTIONS ARE MOST POPULAR.

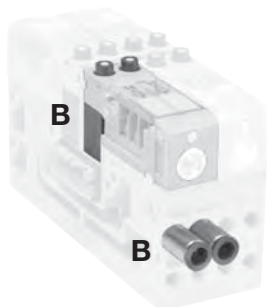
* Requires double address circuit board, enclosure "M".
 ** Requires fitting "P".



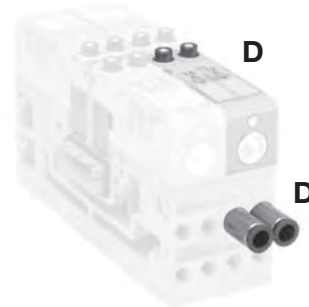
Valve Position A - Character 9
 Fitting Position A - Character 10



Valve Position C - Character 13
 Fitting Position C - Character 14



Valve Position B - Character 11
 Fitting Position B - Character 12



Valve Position D - Character 15
 Fitting Position D - Character 16

Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

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 Simple Manifold Assemblies. List left to right, LOOKING AT THE CYLINDER PORTS on the manifold.

Maximum Number of Solenoids (Maximum Energized Simultaneously)

24VDC	25-pin D-sub	Moduflex	Isysnet*	Turck	
				16 Outputs	32 Outputs
	24 (24)	16 (16)	32 (32)	16 (16)	32 (32)

* Maximum of 32 solenoids per manifold. With Bus Extension functionality, 4 manifolds with up to 32 solenoids each can be connected on the same network.

Add-A-Fold Assembly Model Number

AAHM D 3 24 0 0 0 0

Valve series	
Isys micro add-a-fold	AAHM

End plate option	
Turck fieldbus with valve driver module - 16 outputs	A
Turck fieldbus with valve driver module - 32 outputs	B
25-pin, D-sub - 24 outputs	D
Isysnet with valve drive module - 32 outputs	Y
Isysnet with valve drive module and bus extension connector - 32 outputs	W
Isysnet with valve drive module and 24VDC connector - 32 outputs	X
Isysnet with valve drive module and bus extension and 24VDC connector - 32 outputs	Z
Moduflex - 16 outputs	T

Isysnet and Moduflex communication modules must be ordered separately.

End plate type		
BSPP Threads	BSPP side port, internal pilot	1
	BSPP bottom port, internal pilot	2
	BSPP side port, external pilot	3
	BSPP bottom port, external pilot	4
NPT Threads	NPT side port, internal pilot	5
	NPT bottom port, internal pilot	6
	NPT side port, external pilot	7
	NPT bottom port, external pilot	8

Number of stations*	
4 Valve manifold	04
8 Valve manifold	08
12 Valve manifold	12
16 Valve manifold	16
20 Valve manifold	20
24 Valve manifold	24
28 Valve manifold	28
32 Valve manifold	32

* For an Add-A-Fold part number to be valid, all stations must have a corresponding electrical connection at the end plate. See Maximum Number of Solenoids chart.

Pilot exhaust on end plate		
0	Without fitting	
M	Muffler	
4	Straight fitting for 4mm OD tube	BSPP Threads
6	Straight fitting for 6mm OD tube	
4	Straight fitting for 5/32 inch OD tube	NPT Threads
7	Straight fitting for 1/4 inch OD tube	

M7 pilot port on end plate		
<i>Internal pilot end plate</i>		
0	With standard plug	
<i>External pilot end plate</i>		
0	Without fitting	
4	Straight fitting for 4mm OD tube	BSPP Threads
6	Straight fitting for 6mm OD tube	
4	Straight fitting for 5/32 inch OD tube	NPT Threads
7	Straight fitting for 1/4 inch OD tube	

3/8" exhaust on end plate		
0	Without fitting	
M	Muffler	
8	Straight fitting for 8mm OD tube	BSPP Threads
A	Straight fitting for 10mm OD tube	
7	Straight fitting for 1/4 inch OD tube	NPT Threads
9	Straight fitting for 3/8 inch OD tube	

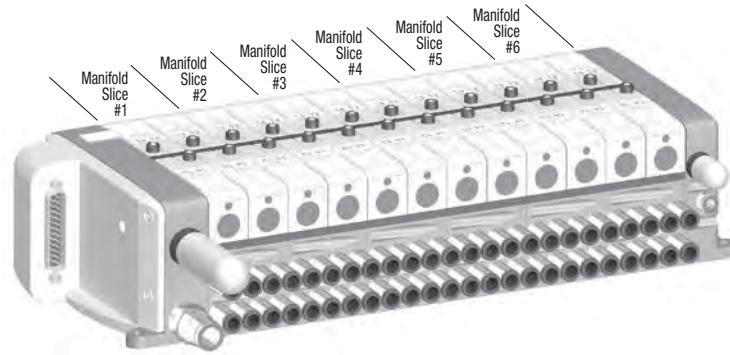
3/8" inlet port on end plate		
0	Without fitting	
8	Straight fitting for 8mm OD tube	BSPP Threads
A	Straight fitting for 10mm OD tube	
7	Straight fitting for 1/4 inch OD tube	NPT Threads
9	Straight fitting for 3/8 inch OD tube	

Note:
 BSPP fittings can only be used with BSPP Manifolds.
 NPT fittings can only be used with NPT Manifolds.



25-pin, D-Sub Manifolds

24 Single Solenoid Valves



Add-A-Fold


Manifold is factory assembled and tested for pneumatic leaks and electrical continuity.

Item	Qty	Description	Part number
01	1	24 valve Add-A-Fold with end plates	AAHMD5249M0M
02	6	4 valve simple manifold slices #1-6	PSM31JAPE7E7E7E7

Component Level




Item	Qty	Description	Part number
01	1	25-pin, D-sub, end plate	PSML25AP
02	24	Single solenoid valve	HMEVX2049A
03	6	Manifold, side ported, single address	PSM21JAP
04	50	1/4" Tube fittings (in box quantity)	PS567925
05	10	3/8" Tube fittings (in box quantity)	PS568338
06	1	3/8" Exhaust muffler	P6M-PAB3
07	1	1/8" Exhaust muffler	P6M-PAB1

Sandwich Regulator


Description	Kit number
 Common port regulator, 5 to 125 PSI with gauge	PSMRAX6AP

Note: Cv values are reduced when using a sandwich regulator to 0.20 for 2-position and Dual 3/2 valves, and 0.17 for 3-position APB valves.
 Note: The sandwich regulator passes full pilot pressure from the manifold, allowing the regulated pressure to adjusted down to 5 PSI without affecting valve functionality.


Mufflers

Description	Part number
 1/8" pilot exhaust – BSPP or NPT	P6M-PAB1
 3/8" main exhaust – BSPP or NPT	P6M-PAB3
 M7 bottom port pilot exhaust (must be ordered in multiples of 10)	PS568800




Flow Controls

Description	Kit number
 4mm to 4mm or 5/32" to 5/32" OD tube	FC800-5/32
1/4" to 1/4" O.D. tube	FC800-4

25-pin, D-Sub Cable (Female)

Description	Length	Part number
 25-pin, D-sub cable, IP20	3 meters	P8LMH25M3A
25-pin, D-sub cable, IP20	9 meters	SCD259D
25-pin, D-sub cable, IP65	3 meters	SCD253W
25-pin, D-sub cable, IP65	9 meters	SCD259WE

Fittings – Must be ordered in multiples of 10

Thread	Tube O.D.	Part number
Manifold or pilot supply ports – straight		
 M7	4mm or 5/32"	PS567904
M7	6mm	PS567906
M7	1/4"	PS567925
Main inlet or exhaust ports		
 3/8" NPT	1/4"	PS568325
3/8" NPT	3/8"	PS568338
3/8" BSPP	8mm	PS568308
3/8" BSPP	10mm	PS568310
Pilot exhaust ports		
 1/8" NPT	5/32"	PS568215
1/8" NPT	1/4"	PS568225
1/8" BSPP	4mm	PS568204
1/8" BSPP	6mm	PS568206



Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

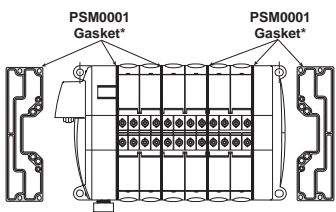
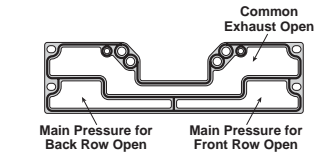
D

Subbase & Manifold Valve Products

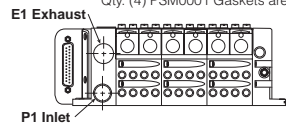
Multiple Pressure Zones

PSM0001 –

All ports open. Common pressure for front and rear manifold.
 Common exhausts.
 Standard gasket included with each manifold and end plate.

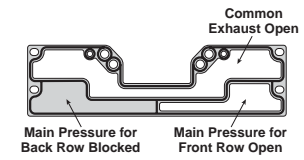


* Qty. (4) PSM0001 Gaskets are required.

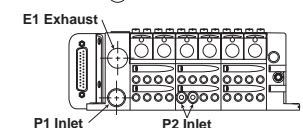
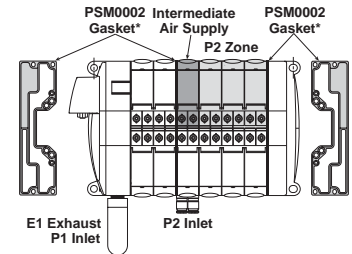


PSM0002 –

Rear manifold blocked for separate pressure supply.
 Common exhausts.
 Flip gasket to block front of manifold.



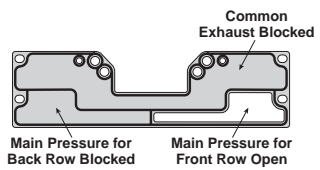
Internal Pilot Pressure from P1 Inlet



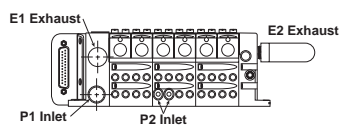
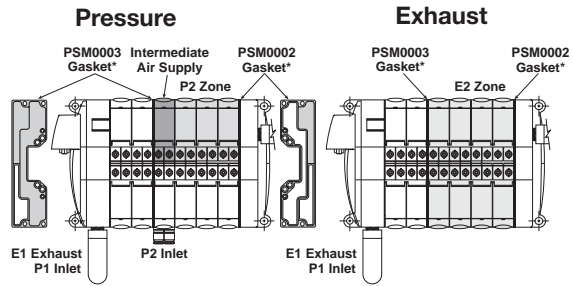
* Qty. (2) PSM0002 Gaskets are required.
 Remainder are PSM0001 Gaskets (Not shown)

PSM0003 –

Rear manifold blocked for separate pressure supply.
 Exhaust blocked also.
 Flip gasket to block front of manifold.
 If used with bottom ported end plates, second exhaust must be piped from the side of the right end plate.



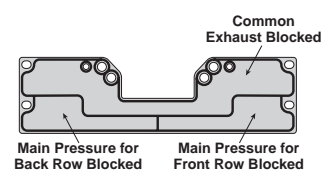
Internal Pilot Pressure from P1 Inlet



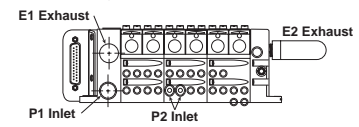
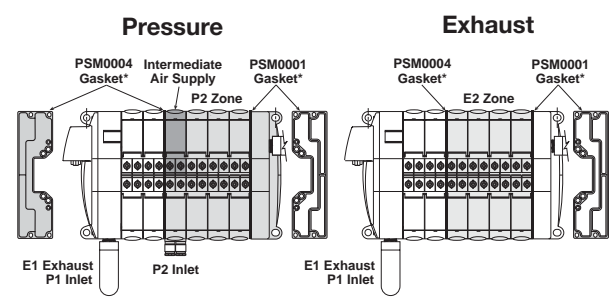
* Qty. (1) PSM0003 and Qty. (1) PSM0002 Gaskets are required.
 Remainder are PSM0001 Gaskets (Not shown)

PSM0004 –

All galleys blocked.
 Two pressure zones and two exhaust zones.
 If used with bottom ported end plates, second exhaust must be piped from the side of the right end plate.



Internal Pilot Pressure from P2 Inlet



* Qty. (1) PSM0004 Gasket is required.
 Remainder are PSM0001 Gaskets (Not shown)

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus Series



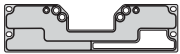

DX ISOMAX Series

Valvair II Series

D


Subbase & Manifold Valve Products

Manifold to Manifold Gaskets*


	Description	Part number
	All galleys passing	PSM0001
	Main pressure to rear or front valves blocked, exhaust passing	PSM0002
	Main pressure to rear or front valves blocked, exhaust blocked	PSM0003
	All galleys blocked	PSM0004

* Includes 1 Gasket


Replacement Solenoid Kit

	Description	Part number
	24VDC solenoid kit with screws	PSM0010


Replacement Override Caps

	Description	Part number
	Set of 10 manual override caps	PSM0011

Replacement Gaskets and Valve Screws

	Description	Part number
	Set of 5 valve manifold gaskets and 10 screws	PSM0012

Replacement Plugs


	Description	Part number
	Set of 10 M7 plugs (Part No. PS567900) for auxiliary and pilot pressure ports	PSM0013

Valve Labels*


Description	Part number
Single solenoid diagram	PSM002E
Double solenoid diagram	PSM0022
Double solenoid diagram – APB	PSM0025
Double solenoid diagram – Dual 3/2 NC/NC	PSM002N
Double solenoid diagram – Dual 3/2 NO/NO	PSM002P
Double solenoid diagram – Dual 3/2, 14 end NO, 12 end NC	PSM002Q

*Includes 10 Labels.


Replacement Screws

	Description	Part number
	Set of 10 manifold to manifold M3 screws	PSM0014

Replacement Regulator Gauge

	Description	Part number
	5 to 125 PSI Gauge	P0566202

Replacement Protective Cover

	Description	Part number
	Protective Polyester Cover Set of 10	PS5706

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

25-pin, D-Sub with Isys Micro Valves, Side Ported

Dimensions

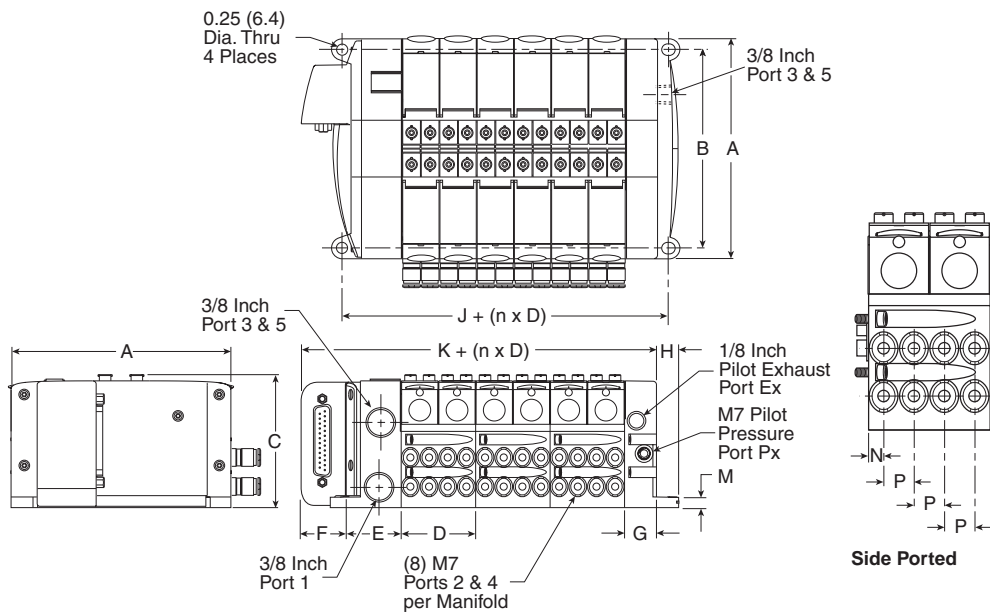
A	B	C	D
4.88 (124.0)	4.41 (112.0)	2.95 (75.0)	1.65 (42.0)

E	F	G	H
1.22 (31.0)	1.02 (26.0)	0.71 (18.0)	0.49 (12.5)

J	K	M	N
2.28 (58.0)	3.44 (87.5)	0.24 (6.1)	0.21 (5.2)

P
0.41 (10.5)

Inches (mm)
 n = Number of manifolds



25-pin, D-Sub with Isys Micro Valves, Bottom Ported

Dimensions

A	B	C	D
4.88 (124.0)	4.41 (112.0)	2.95 (75.0)	1.65 (42.0)

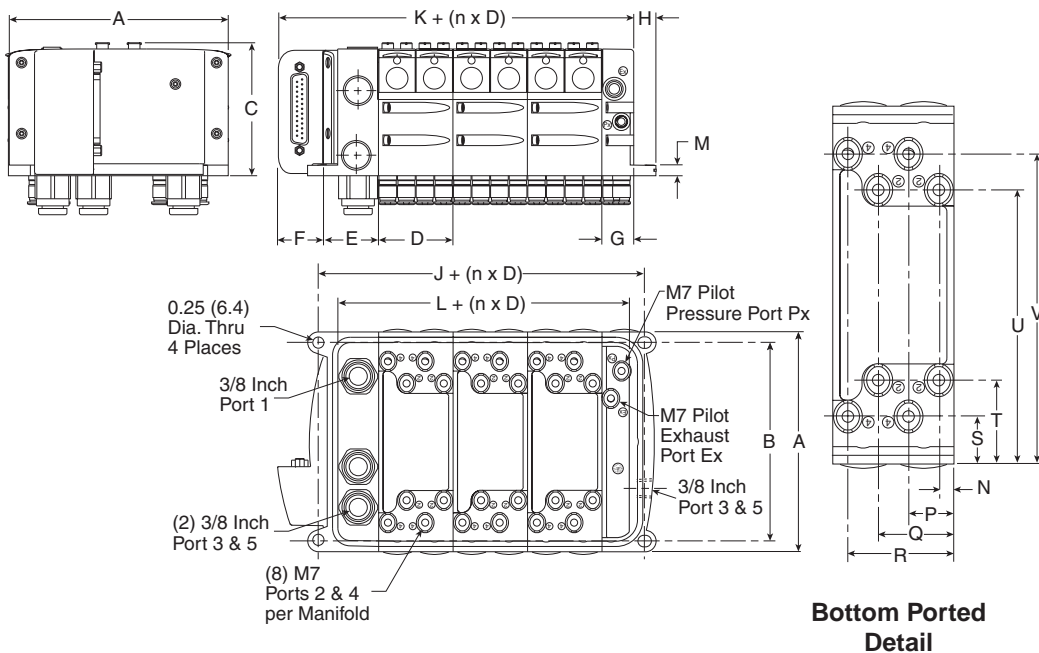
E	F	G	H
1.22 (31.0)	1.02 (26.0)	0.71 (18.0)	0.49 (12.5)

J	K	L	M
2.28 (58.0)	3.44 (87.5)	1.69 (43.0)	0.24 (6.1)

N	P	Q	R
0.21 (5.3)	0.62 (15.8)	1.03 (26.3)	1.45 (36.8)

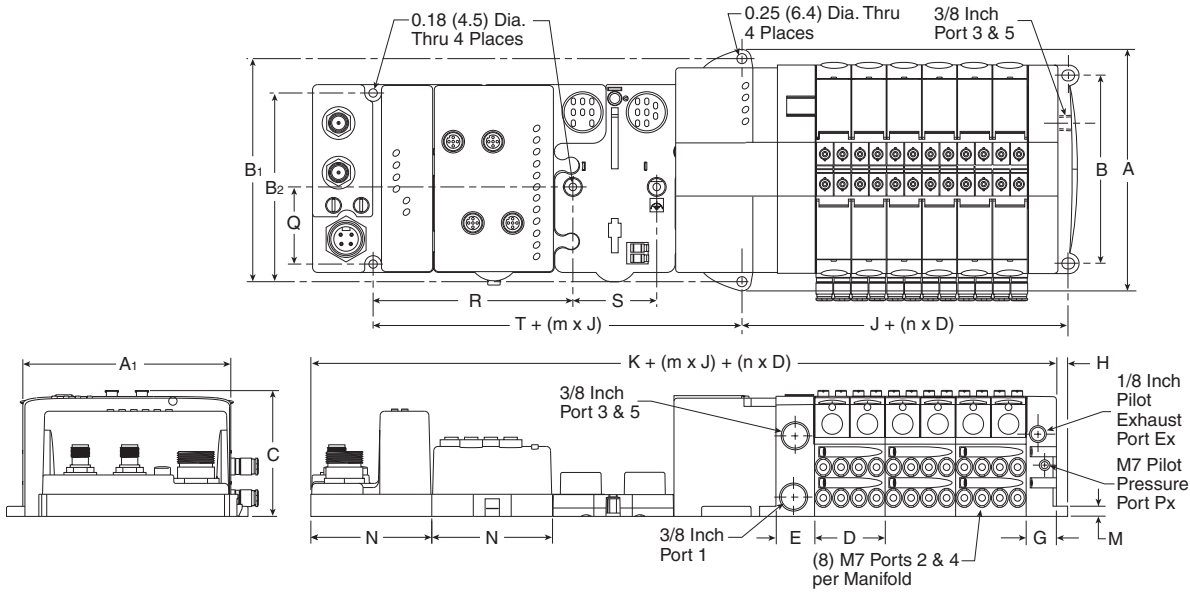
S	T	U	V
0.64 (16.40)	1.14 (29.0)	3.73 (94.9)	4.23 (107.4)

Inches (mm)
 n = Number of manifolds



Note:
 See Fieldbus Section for the dimensions of manifolds utilizing the Isysnet, Turck, or Moduflex end plate type.

Isysnet with Isys Micro Valves, Side Ported

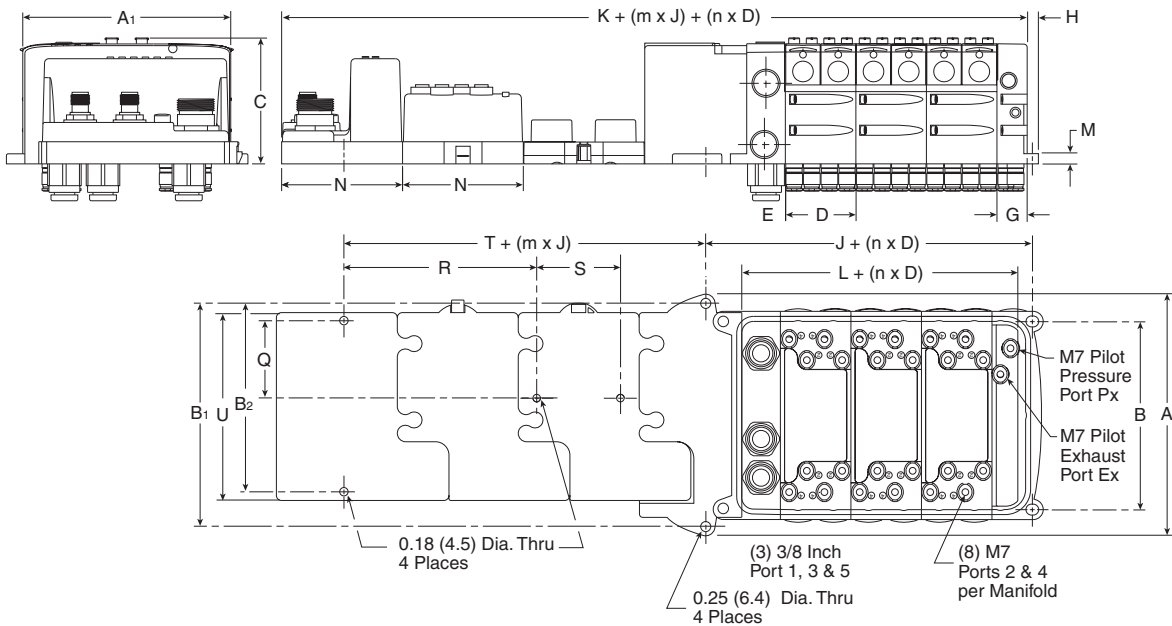


Dimensions

A	A₁	B	B₁	B₂	C	D	E	G
5.67 (144.0)	4.88 (124.0)	4.41 (112.0)	5.24 (133.0)	4.02 (102.0)	2.95 (75.0)	1.65 (42.0)	0.91 (23.0)	0.71 (18.0)
H	J	K	M	N	Q	R	S	T
0.49 (12.5)	2.72 (69.0)	7.32 (186.0)	0.24 (6.1)	2.83 (72.0)	1.81 (46.0)	4.72 (120.0)	2.01 (51.0)	2.01 (51.0)

Inches (mm)
 n = Number of Manifolds
 m = Number of Modules

Isysnet with Isys Micro Valves, Bottom Ported



Dimensions

A	A₁	B	B₁	B₂	C	D	E	G	H
5.67 (144.0)	4.88 (124.0)	4.41 (112.0)	5.24 (133.0)	4.02 (102.0)	2.95 (75.0)	1.65 (42.0)	0.91 (23.0)	0.71 (18.0)	0.49 (12.5)
J	K	L	M	N	Q	R	S	T	U
2.72 (69.0)	7.32 (186.0)	1.69 (43.0)	0.24 (6.1)	2.83 (72.0)	1.81 (46.0)	4.72 (120.0)	2.01 (51.0)	2.01 (51.0)	4.41 (112)

Inches (mm)
 n = Number of Manifolds
 m = Number of Modules

Modulflex Series

Isys Micro Series

Isys ISO Series

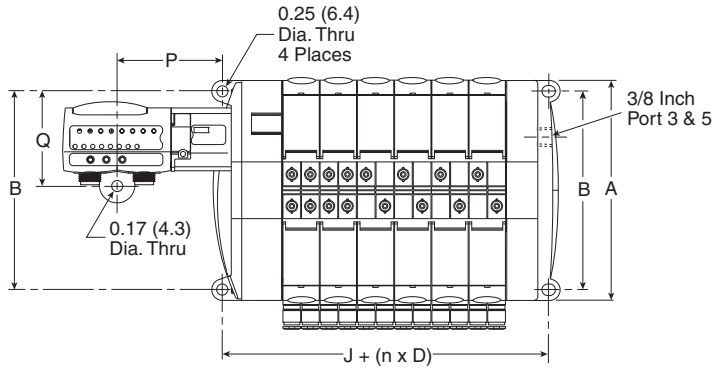
Fieldbus Series

DX ISOMAX Series

Valvair II Series

D
 Subbase & Manifold Valve Products

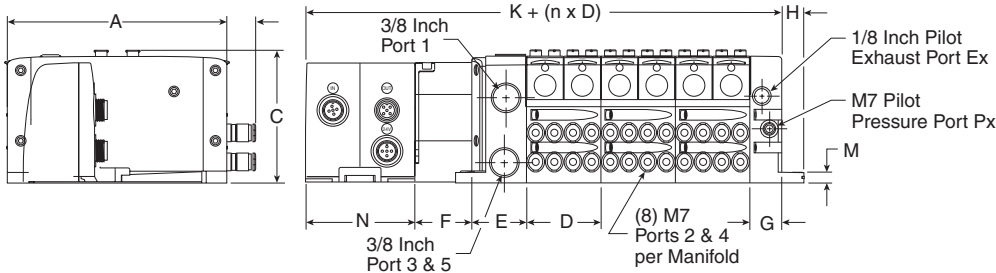
Modflex with Isys Micro Valves, Side Ported



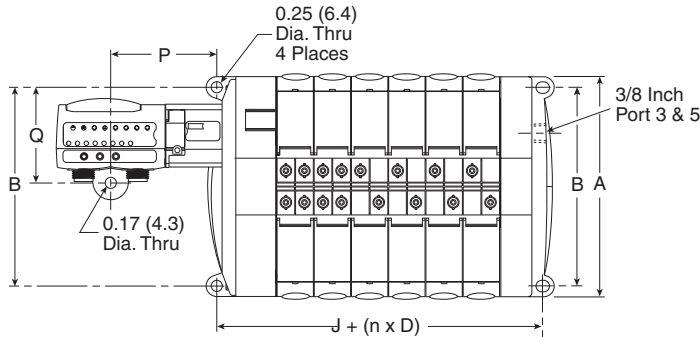
Dimensions

A	B	C	D
4.88 (124.0)	4.41 (112.0)	2.95 (75.0)	1.65 (42.0)
E	F	G	H
1.22 (31.0)	1.28 (32.5)	0.71 (18.0)	0.49 (12.5)
J	K	M	N
2.28 (58.0)	6.10 (155.0)	0.24 (6.1)	2.40 (61.0)
P	Q		
2.36 (60.0)	2.07 (52.55)		

Inches (mm)
 n = Number of manifolds



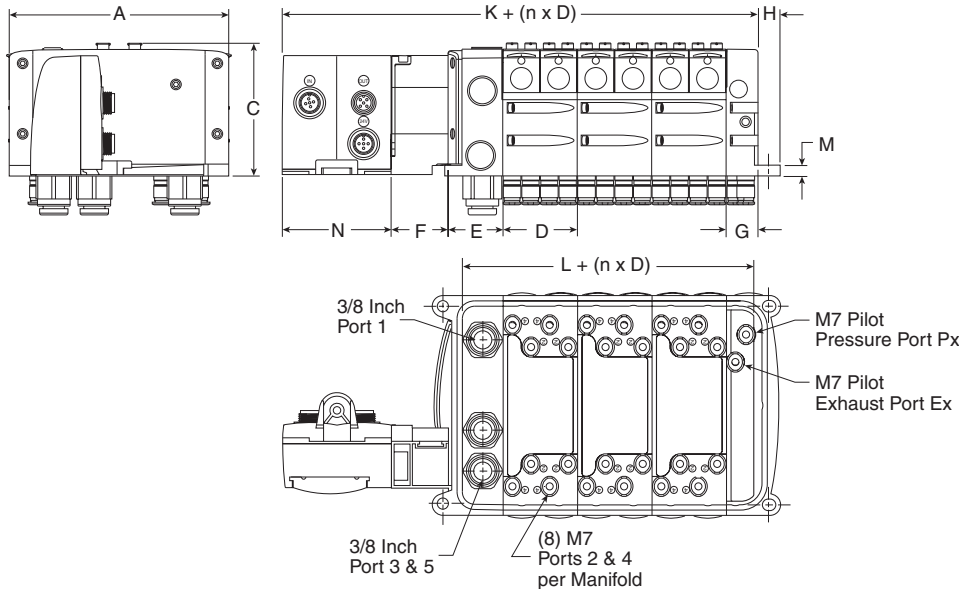
Modflex with Isys Micro Valves, Bottom Ported



Dimensions

A	B	C	D
4.88 (124.0)	4.41 (112.0)	2.95 (75.0)	1.65 (42.0)
E	F	G	H
1.22 (31.0)	1.02 (26.0)	0.71 (18.0)	0.49 (12.5)
J	K	L	M
2.28 (58.0)	6.10 (155.0)	1.69 (43.0)	0.24 (6.1)
N	P	Q	
2.40 (61.0)	2.36 (60.0)	2.07 (52.55)	

Inches (mm)
 n = Number of manifolds



Modflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

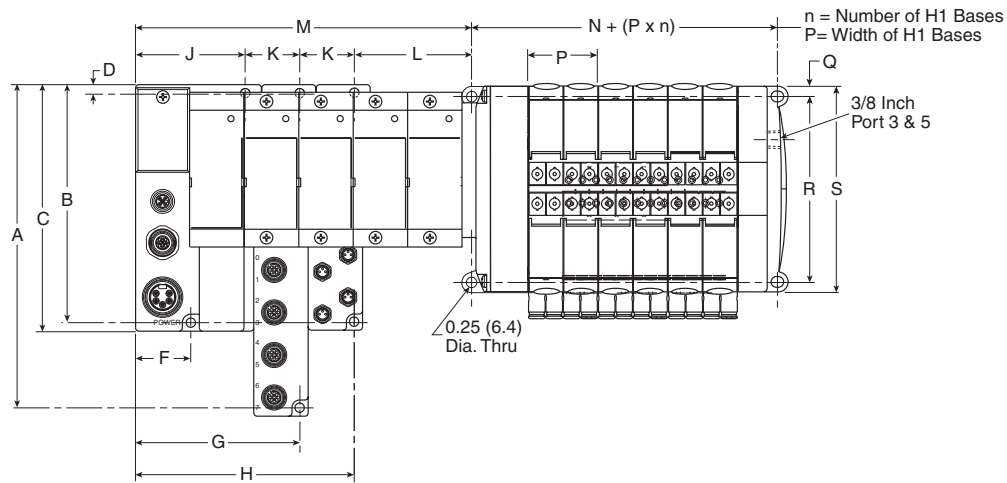
DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Turck with Isys Micro Valves, Side Ported



Dimensions

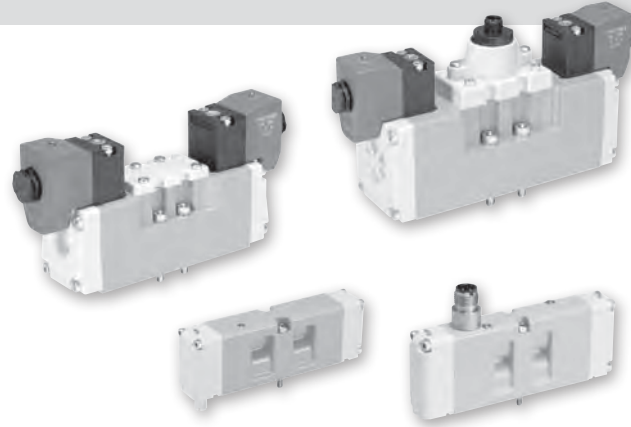
A	B	C	D
7.48 (190)	5.51 (140)	5.71 (145)	0.20 (5)
F	G	H	J
1.28 (32.5)	3.79 (96.5)	5.06 (128.5)	2.53 (64.5)
K	L	M	N
1.26 (32)	2.54 (64)	See note 1	2.28 (58)
P	Q	R	S
1.65 (42)	.19 (4.9)	4.41 (112)	4.88 (124)

Note 1: $M = J + L + n_2 \times K$, where n_2 = Number of Turck input / output modules
 Inches (mm)

Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

Isys ISO Series

The Isys ISO valve conforms to international standards 15407 and 5599, providing maximum flexibility for end users. As Parker's premier manifold mount product offering, Isys ISO offers machine builders a complete offering with a wide variety of accessories and options in a valve family with flow ranges from 0.55 Cv up to 6.0 Cv. Individual wiring is available with DIN or central connectors, and collective solutions offer installation time savings with either multi-pin connectors or fieldbus solutions.



Ports, Flow

- HB: 1/8 inch, 0.55 Cv
- HA: 1/4 inch, 1.1 Cv
- H1: 3/8 inch, 1.5 Cv
- H2: 1/2 inch, 3.0 Cv
- H3: 3/4 inch, 6.0 Cv

Mounting

- Manifold or subbase

Solenoids

- HB & HA: 24 VDC, 1.0 Watt, and 120 VAC, 1.0 VA
- H1, H2, & H3: 24 VDC, 3.2 Watt, and 120 VAC, 4.5 VA

Certification / approval

- IP65 rated
- CSA / C-US approved

Operating information

Operating pressure:	Vacuum to 145 PSIG (Vacuum to 10 bar)
Pilot pressure:	See chart
Temperature range:	5°F to 120°F (-15°C to 49°C)

Material specifications

Body	Aluminum
End caps	PBT
End plates	Aluminum
Fasteners	Zinc plated steel
Manifolds	Aluminum
Seals	Nitrile
Spool	Aluminum

Operating Pressure

Maximum: 145 PSIG (1000 kPa)

Minimum:

Operator / function	Internal pilot	PSIG (Min. kPa) HB	PSIG (Min. kPa) HA	PSIG (Min. kPa) H1	PSIG (Min. kPa) H2	PSIG (Min. kPa) H3
1	Single solenoid - 2-position	30	25	25	25	35
2	Double solenoid- 2-position	(207)	(173)	(173)	(173)	(241)
3	Single remote pilot - 2-position **	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum
4	Double remote pilot - 2-position**	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum
5, 6, 7	Double solenoid - 3-position APB, CE, PC	35 (241)	35 (241)	35 (241)	50 (345)	50 (345)
8, 9, 0	Double remote pilot - 3-position** APB, CE, PC	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum
E	Single solenoid pilot - 2-position					
	Air return / spring assist	30 (207)	30 (207)	35 (241)	45 (310)	45 (310)
F	Single remote pilot - 2-position**					
	Air return / spring assist					
N, P, Q	Double solenoid - dual 3/2	30 (207)	N/A	N/A	N/A	N/A
	External pilot *	*	*	*	*	*
All	Isys	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum

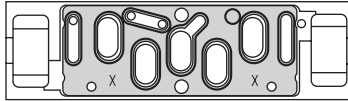
* External Pilot Pressure / Remote Pilot Supply - Must meet or exceed minimum pilot pressure for internal pilot option. Not available on Operator / Function N, P, or Q.

** Must be equal to or greater than operating pressure.

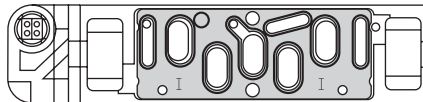
Most popular.

ISO Pneumatic Valve Standard Definitions

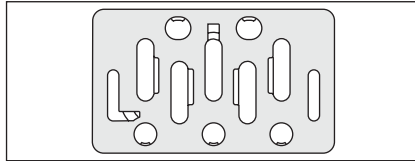
15407-1: Non-Plug-in Standards for Size 01 (26mm) & Size 02 (18mm) Wide Valves



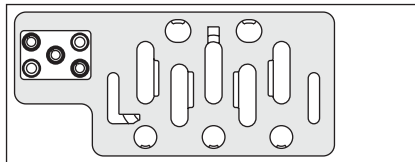
15407-2: Plug-in Standards for Size 01 (26mm) & Size 02 (18mm) Wide Valves



5599-1: Non-Plug-in Standards for Sizes 1, 2, 3

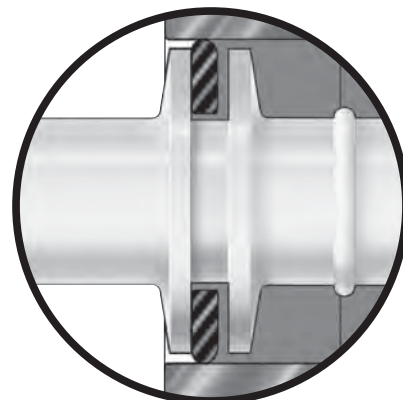


5599-2: Plug-in Standards for Size 1, 2, 3




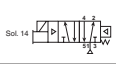
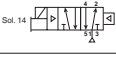


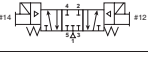
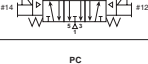
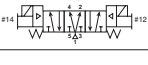

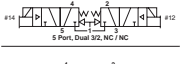

Wear Compensation System


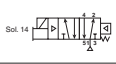
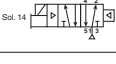


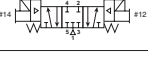

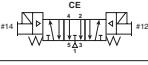
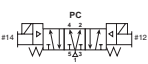

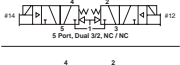

- Maximum Performance
 - Low Friction
 - Lower Operating Pressures
 - Fast Response
 - Less Wear
- Long Cycle Life - Under pressure, radial expansion of the seal occurs to maintain sealing contact with the valve bore.
- Non-Lube Service - No lubrication required for continuous valve shifting.
- Bi-Directional Spool Seals - Common spool used for any pressure, including vacuum.




Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

15407-2, Plug-in, Size 18mm (HB)


	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
Modulflex Series			4-way, 2-position, spring return	0.55	Single solenoid	24 VDC	Internal External	HBEVXBG0G9A HBEVXLH0G9A
			4-way, 2-position, air return	0.55	Single solenoid	24 VDC	Internal External	HB1VXBG0G9A HB1VXLH0G9A
			4-way, 2-position	0.55	Double solenoid	24 VDC	Internal External	HB2VXBG0G9A HB2VXLH0G9A
Isys Micro Series			4-way, 3-position, all ports blocked	0.5	Double solenoid	24 VDC	Internal External	HB5VXBG0G9A HB5VXLH0G9A
			4-way, 3-position, center exhaust	0.5	Double solenoid	24 VDC	Internal External	HB6VXBG0G9A HB6VXLH0G9A
			4-way, 3-position, pressure center	0.5	Double solenoid	24 VDC	Internal External	HB7VXBG0G9A HB7VXLH0G9A
Isys ISO Series			3-way, 2-position, dual valve, NC/NC	0.45	Double solenoid	24 VDC	Internal	HBNVXBG0G9A HBNVXBH0G9A
			3-way, 2-position, dual valve, NO/NO	0.45	Double solenoid	24 VDC	Internal	HBPVXBG0G9A HBPVXBH0G9A

	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
Fieldbus			4-way, 2-position, spring return	0.55	Single solenoid	120 VAC	Internal External	HBEVXBG023A HBEVXLH023A
			4-way, 2-position, air return	0.55	Single solenoid	120 VAC	Internal External	HB1VXBG023A HB1VXLH023A
DX ISOMAX Series			4-way, 2-position	0.55	Double solenoid	120 VAC	Internal External	HB2VXBG023A HB2VXLH023A
			4-way, 3-position, all ports blocked	0.5	Double solenoid	120 VAC	Internal External	HB5VXBG023A HB5VXLH023A
Valvair II Series			4-way, 3-position, center exhaust	0.5	Double solenoid	120 VAC	Internal External	HB6VXBG023A HB6VXLH023A
			4-way, 3-position, pressure center	0.5	Double solenoid	120 VAC	Internal External	HB7VXBG023A HB7VXLH023A
D Subbase & Manifold Valve Products			3-way, 2-position, dual valve, NC/NC	0.45	Double solenoid	120 VAC	Internal	HBNVXBG023A HBNVXBH023A
			3-way, 2-position, dual valve, NO/NO	0.45	Double solenoid	120 VAC	Internal	HBPVXBG023A HBPVXBH023A








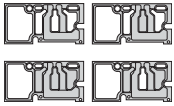
15407-2, Plug-in, Size 18mm (HB), 2-Station Manifold Bases

End ported bases	Enclosure / Lead length	Solenoid addresses	1/8" NPT	1/8" BSPP
	Circuit board	Single solenoid - 1 address	PS561151JP	PS561152JP
	Circuit board	Double solenoid - 2 addresses	PS561151MP	PS561152MP
	Circuit board with 32 output expansion	Single solenoid - 1 address	PS561151NP	PS561152NP
	Circuit board with 32 output expansion	Double solenoid - 2 addresses	PS561151PP	PS561152PP

Bottom / end ported bases

	Circuit board	Single solenoid - 1 address	PS561161JP	PS561162JP
	Circuit board	Double solenoid - 2 addresses	PS561161MP	PS561162MP
	Circuit board with 32 output expansion	Single solenoid - 1 address	PS561161NP	PS561162NP
	Circuit board with 32 output expansion	Double solenoid - 2 addresses	PS561161PP	PS561162PP

15407-2, Plug-in, Size 18mm (HB) Accessories

Accessories	Description	Part number
 Sandwich regulator	Common pressure	2-60 PSIG w/ gauge PS5638155P
	Common pressure	5-125 PSIG w/ gauge PS5638166P
	Independent pressure	2-60 PSIG w/ gauge PS5638255P
	Independent pressure	5-125 PSIG w/ gauge PS5638266P
 Gauge adapter kit	Includes 1/8" coupling and long nipple	PS5651160P
 Blanking plate kit		PS5634P
 Sandwich supply module	1/8" NPT	PS561600P
	1/8" BSPP	PS561601P
 Sandwich exhaust module	1/8" NPT	PS561700P
	1/8" BSPP	PS561701P
 Intermediate air supply module	1/8" NPT	D02P-01-80
 Sandwich flow control		PS5635P
 Manifold to manifold gasket kits	Standard	PS561AP
	Blocked #1 port	PS561BP
	Blocked #1, 3, 5, ports	PS561CP
	Blocked #3, 5 ports	PS561DP

Modulflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus












DX ISOMAX
Series

Valvair II
Series


D

Subbase & Manifold
Valve Products


15407-2, Plug-in, Size 26mm (HA)

	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
Modulflex Series	 Sol. 14	4-way, 2-position, spring return	1.1	Single solenoid	24 VDC	Internal	HAEVXBG0G9A	HAEVXBH0G9A
		4-way, 2-position, air return	1.1	Single solenoid	24 VDC	External	HAEVXLG0G9A	HAEVXLH0G9A
	 Sol. 14	4-way, 2-position, spring return	1.1	Single solenoid	24 VDC	Internal	HA1VXBG0G9A	HA1VXBH0G9A
		4-way, 2-position, air return	1.1	Single solenoid	24 VDC	External	HA1VXLG0G9A	HA1VXLH0G9A
Isys Micro Series	 Sol. 14	4-way, 2-position	1.1	Double solenoid	24 VDC	Internal	HA2VXBG0G9A	HA2VXBH0G9A
		4-way, 2-position	1.1	Double solenoid	24 VDC	External	HA2VXLG0G9A	HA2VXLH0G9A
	 APB	4-way, 3-position, all ports blocked	1.0	Double solenoid	24 VDC	Internal	HA5VXBG0G9A	HA5VXBH0G9A
		4-way, 3-position, center exhaust	1.0	Double solenoid	24 VDC	External	HA5VXLG0G9A	HA5VXLH0G9A
	 CE	4-way, 3-position, center exhaust	1.0	Double solenoid	24 VDC	Internal	HA6VXBG0G9A	HA6VXBH0G9A
		4-way, 3-position, center exhaust	1.0	Double solenoid	24 VDC	External	HA6VXLG0G9A	HA6VXLH0G9A
Isys ISO Series	 Sol. 14	4-way, 2-position, spring return	1.1	Single solenoid	120 VAC	Internal	HAEVXBG023A	HAEVXBH023A
		4-way, 2-position, air return	1.1	Single solenoid	120 VAC	External	HAEVXLG023A	HAEVXLH023A
Fieldbus Series	 Sol. 14	4-way, 2-position, spring return	1.1	Single solenoid	120 VAC	Internal	HA1VXBG023A	HA1VXBH023A
		4-way, 2-position, air return	1.1	Single solenoid	120 VAC	External	HA1VXLG023A	HA1VXLH023A
DX ISOMAX Series	 Sol. 14	4-way, 2-position	1.1	Double solenoid	120 VAC	Internal	HA2VXBG023A	HA2VXBH023A
		4-way, 2-position	1.1	Double solenoid	120 VAC	External	HA2VXLG023A	HA2VXLH023A
	 APB	4-way, 3-position, all ports blocked	1.0	Double solenoid	120 VAC	Internal	HA5VXBG023A	HA5VXBH023A
		4-way, 3-position, center exhaust	1.0	Double solenoid	120 VAC	External	HA5VXLG023A	HA5VXLH023A
	 CE	4-way, 3-position, center exhaust	1.0	Double solenoid	120 VAC	Internal	HA6VXBG023A	HA6VXBH023A
		4-way, 3-position, center exhaust	1.0	Double solenoid	120 VAC	External	HA6VXLG023A	HA6VXLH023A
Valvair II Series	 PC	4-way, 3-position, pressure center	1.0	Double solenoid	120 VAC	Internal	HA7VXBG023A	HA7VXBH023A
		4-way, 3-position, pressure center	1.0	Double solenoid	120 VAC	External	HA7VXLG023A	HA7VXLH023A


15407-2, Plug-in, Size 26mm (HA), Single Subbase

Enclosure / Lead length	Solenoid addresses	1/4" NPT	1/4" BSPP
 Terminal strip in the base	Double solenoid - 2 addresses	PS55113CP	PS55114CP








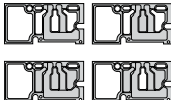
15407-2, Plug-in, Size 26mm (HA), 2-Station Manifold Bases

End ported bases	Enclosure / Lead length	Solenoid addresses	1/4" NPT	1/4" BSPP
	Circuit board	Single solenoid - 1 address	PS551153JP	PS551154JP
	Circuit board	Double solenoid - 2 addresses	PS551153MP	PS551154MP
	Circuit board with 32 output expansion	Single solenoid - 1 address	PS551153NP	PS551154NP
	Circuit board with 32 output expansion	Double solenoid - 2 addresses	PS551153PP	PS551154PP
	Terminal strip in the base	Double solenoid - 2 addresses	PS551153CP	PS551154CP

Bottom / end ported bases

	Circuit board	Single solenoid - 1 address	PS551163JP	PS551164JP
	Circuit board	Double solenoid - 2 addresses	PS551163MP	PS551164MP
	Circuit board with 32 output expansion	Single solenoid - 1 address	PS551163NP	PS551164NP
	Circuit board with 32 output expansion	Double solenoid - 2 addresses	PS551163PP	PS551164PP
	Terminal strip in the base	Double solenoid - 2 addresses	PS551163CP	PS551164CP

15407-2, Plug-in, Size 26mm (HA) Accessories

Accessories	Description	Part number
 Sandwich regulator	Common pressure	2-60 PSIG w/ gauge PS5538155P
	Common pressure	5-125 PSIG w/ gauge PS5538166P
	Independent pressure	2-60 PSIG w/ gauge PS5538255P
	Independent pressure	5-125 PSIG w/ gauge PS5538266P
 Gauge adapter kit	Includes 1/8" coupling and long nipple	PS5651160P
 Blanking plate kit		PS5534P
 Sandwich supply module	1/4" NPT	PS551600P
	1/4" BSPP	PS551601P
 Sandwich exhaust module	1/4" NPT	PS551700P
	1/4" BSPP	PS551701P
 Intermediate air supply module	1/4" NPT	D01P-02-80
 Sandwich flow control		PS5535P
 Manifold to manifold gasket kits	Standard	PS561AP
	Blocked #1 port	PS561BP
	Blocked #1, 3, 5, ports	PS561CP
	Blocked #3, 5 ports	PS561DP

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

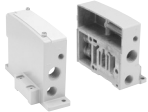







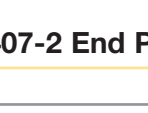
DX ISOMAX Series

Valvair II Series

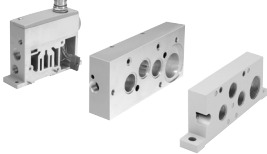
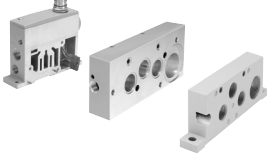
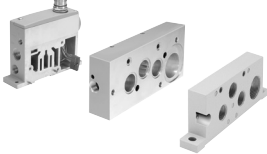
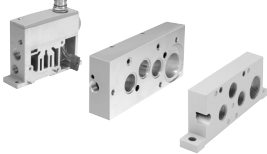
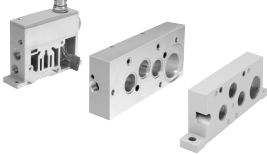
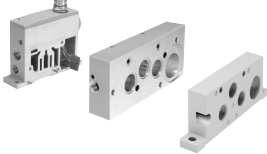
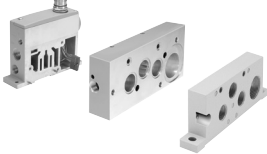
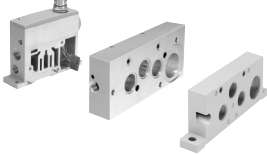
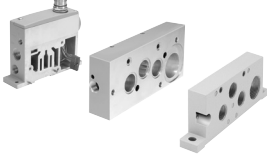
D

Subbase & Manifold Valve Products

15407-2, Plug-in, Size 18mm & 26mm End Plate Kits

	Electrical option	NPT port	BSP port
Modulflex Series	 No connector - use with terminal strip in base	PS5631010P	PS5631011P
	 25-pin, D-Sub	PS5620L20P	PS5620L21P
Isys Micro Series	 19-pin, round, Brad Harrison	PS5620L30P	PS5620L31P
	 12-pin, M23	PS5620L40P	PS5620L41P
Isys ISO Series	 16-point terminal strip	PS5620L50P	PS5620L51P
	 19-pin, M23	PS5620M20P	PS5620M21P
Fieldbus Series	 Modulflex fieldbus	PS5620M40P	PS5620M41P
	 Isysnet, with valve driver module	PS5620L60P	PS5620L61P
DX ISOMAX Series	 Turck fieldbus with valve driver module - 16 outputs	PS5620T10P	PS5620T11P
	 Turck fieldbus with valve driver module - 32 outputs	PS5620T20P	PS5620T21P

15407-2 End Plate Kits with Transition to H2

	Electrical option	NPT port	BSP port
Subbase & Manifold Valve Products	 25-pin, D-sub	PS5624L20P	PS5624L21P
	 19-pin, round, Brad Harrison	PS5624L30P	PS5624L31P
	 12-pin, M23	PS5624L40P	PS5624L41P
	 16-point terminal strip	PS5624L50P	PS5624L51P
	 19-pin, M23	PS5624M20P	PS5624M21P
	 Modulflex fieldbus	PS5624M40P	PS5624M41P
	 Isysnet, with valve driver module	PS5624L60P	PS5624L61P
	 Turck fieldbus with valve driver module - 16 outputs	PS5624T10P	PS5624T11P
	 Turck fieldbus with valve driver module - 32 outputs	PS5624T20P	PS5624T21P

Turck, Isysnet, and Modulflex communication modules must be ordered separately. See Fieldbus Section for more information.

Note:

For cable part numbers and pin out information see Fieldbus System Accessories.

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 complete Valve, Regulator, Flow Control and Base model number. List left to right, LOOKING AT THE CYLINDER PORTS on the #12 end of the manifold. The left most station is station 1. (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)

Example

Application requires a 4-Station manifold.
 (Two 18mm + Two 26mm Stations)

Item	Qty.	Part No.	Location
01	1	AAHBD004	
02	1	HB1VXBGOG9A	Station 1
03	1	HB2VXLGOG9A	Station 2
04	1	PS561151MP	Station 1 & 2
05	2	HA1VXBGOG9A	Station 3 & 4
06	1	PS551151MP	Station 3 & 4

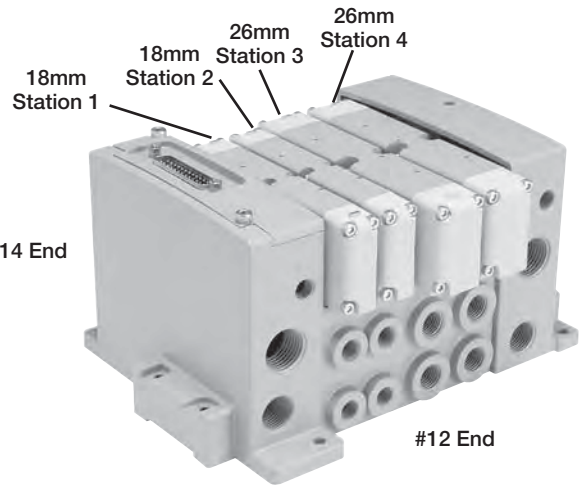
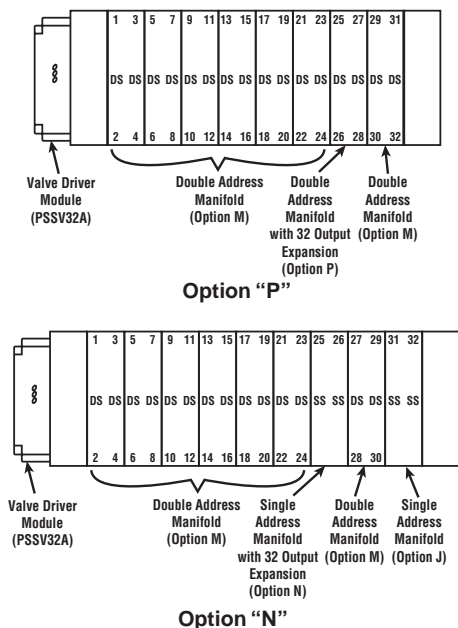
NOTE: Construct manifold assemblies from left to right while looking at the ports. Valves must be ordered as External Pilot when using Sandwich Regulator.

When using an HA or HB manifold base with the "N" Enclosure / Lead Length option:

- Outputs 1 – 24 can be single or double address bases. Use a base with "J" or "M" Enclosure / Lead Length option.
- Outputs 25 – 26 are a single address base. Use a base with "N" Enclosure / Lead Length option (this is a single address board with a ribbon connection from the valve driver module, PSSV32A).
- Outputs 27 – 32 can be single or double. Use a base with "J" or "M" Enclosure / Lead Length option.

When using an HA or HB manifold base with the "P" Enclosure / Lead Length option:

- Outputs 1 – 24 can be single or double address bases. Use a base with "J" or "M" Enclosure / Lead Length option.
- Outputs 25 – 28 are a double address base. Use a base with "P" Enclosure / Lead Length option (this is a double address board with a ribbon connection from the valve driver module, PSSV32A).
- Outputs 29 – 32 can be single or double. Use a base with "J" or "M" Enclosure / Lead Length option.



Example:
 4-Station Manifold with (2) 18mm and (2) 26mm Valves on Manifold Bases with 25-pin, D-Sub End Plates

Maximum Number of Solenoids (Maximum energized simultaneously)

Voltage	Voltage code	25-pin D-sub	19-pin M23 or Brad Harrison		Turck			
			12-pin M23	Moduflex	16 Outputs	32 Outputs		
24VDC	G9	24 (24)	16 (16)	8 (8)	16 (16)	32 (32)	16 (16)	32 (32)
120VAC*	23	24 (24)	16 (16)	8 (8)	N/A	N/A	N/A	N/A

* Not CSA certified for 25-pin, D-Sub option.

Add-A-Fold Assembly Model Number

AA	HB	D	0	04
Valve series Right & left end plate 15407-2 (plug-in, HB 18mm & HA 26mm)		Number of stations* 02 04 • 24 • 32		
End plate type Turck fieldbus with valve driver module - 16 outputs: A* Turck fieldbus with valve driver module - 32 outputs: B* 25-pin, D-sub: D 19-pin, Brad Harrison: E 16 Point terminal strip: F 12-pin, M23: G 19-pin, M23: H Moduflex fieldbus: T* Isysnet, with valve driver module: Y*		Thread type 0: NPT 1*: BSPP "G"		

* Common end plates for HA & HB.

* Must be ordered in multiples of (2) unless using the HB / HA to H2 Transition Plate.

* BSPP conforms to ISO 1179-1 with 228-1 threads.

*Must order communication modules separately.

Moduflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus Series
 DX ISOMAX Series
 Valvair II Series
 Subbase & Manifold Valve Products

15407-2, Plug-in, Size 18mm (HB) & 26mm (HA)

- Modulflex Series
- Isys Micro Series
- Isys ISO Series
- Fieldbus
- DX ISOMAX Series
- Valvair II Series
- D** Subbase & Manifold Valve Products

HB 1 VX B G 0 G9 A

Basic series 15407-2	
ISO 15407-2 18mm	HB
ISO 15407-2 26mm	HA

15407-2 Engineering level	
A	Current

15407-2 Operator / Function	
Single solenoid, 2-position - air return	1
Double solenoid, 2-position	2
Double solenoid, 3-position - APB	5
Double solenoid, 3-position - CE	6
Double solenoid, 3-position - PC	7
Single solenoid, 2-position - air return, spring assist	E
Double solenoid, dual 3/2, NC/NC	N*
Double solenoid, dual 3/2, NO/NO	P*
Double solenoid, dual 3/2, 14 end NC - 12 end NO	Q*

15407-2 Voltage & frequency				
	AC		DC	Light & surge suppression
	60Hz	50Hz		
G9			24	LED & suppression
23	120	115		LED & suppression

15407-2 Enclosure / Lead length	
0	Valve less base

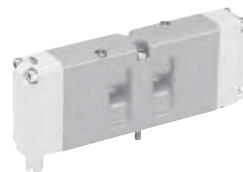
15407-2 Overrides / Lights	
G	Non-locking, flush, push - w/ light
H	Locking, flush, push / turn - w/ light

* Available on HB Only, must use Internal Pilot Source Option "B".

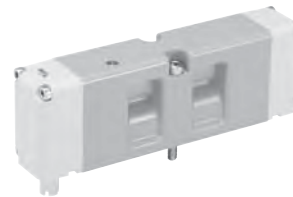
Mounting	
15407-2 Valve less base	VX

15407-2 Pilot source / Pilot exhaust	
Internal pilot, port #1 / vented	B
External pilot, port #14 / vented	L*

* Must be specified when using Sandwich Regulators.



HB: 18mm

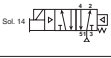


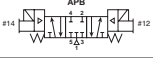
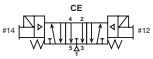




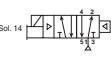
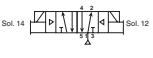
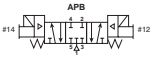
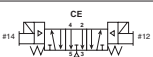
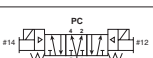
HA: 26mm

Most popular.




5599-2, Plug-in, Size 1 (H1)


Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	4-way, 2-position, spring return	1.5	Single solenoid	24 VDC	Internal	H1EVXBG0B9D	H1EVXBH0B9D
					External	H1EVXXG0B9D	H1EVXXH0B9D
	4-way, 2-position, air return	1.5	Single solenoid	24 VDC	Internal	H11VXBG0B9D	H11VXBH0B9D
					External	H11VXXG0B9D	H11VXXH0B9D
	4-way, 2-position	1.5	Double solenoid	24 VDC	Internal	H12VXBG0B9D	H12VXBH0B9D
					External	H12VXXG0B9D	H12VXXH0B9D
	4-way, 3-position, all ports blocked	1.2	Double solenoid	24 VDC	Internal	H15VXBG0B9D	H15VXBH0B9D
					External	H15VXXG0B9D	H15VXXH0B9D
	4-way, 3-position, center exhaust	1.2	Double solenoid	24 VDC	Internal	H16VXBG0B9D	H16VXBH0B9D
					External	H16VXXG0B9D	H16VXXH0B9D
	4-way, 3-position, pressure center	1.2	Double solenoid	24 VDC	Internal	H17VXBG0B9D	H17VXBH0B9D
					External	H17VXXG0B9D	H17VXXH0B9D

Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	4-way, 2-position, spring return	1.5	Single solenoid	120 VAC	Internal	H1EVXBG023D	H1EVXBH023D
					External	H1EVXXG023D	H1EVXXH023D
	4-way, 2-position, air return	1.5	Single solenoid	120 VAC	Internal	H11VXBG023D	H11VXBH023D
					External	H11VXXG023D	H11VXXH023D
	4-way, 2-position	1.5	Double solenoid	120 VAC	Internal	H12VXBG023D	H12VXBH023D
					External	H12VXXG023D	H12VXXH023D
	4-way, 3-position, all ports blocked	1.2	Double solenoid	120 VAC	Internal	H15VXBG023D	H15VXBH023D
					External	H15VXXG023D	H15VXXH023D
	4-way, 3-position, center exhaust	1.2	Double solenoid	120 VAC	Internal	H16VXBG023D	H16VXBH023D
					External	H16VXXG023D	H16VXXH023D
	4-way, 3-position, pressure center	1.2	Double solenoid	120 VAC	Internal	H17VXBG023D	H17VXBH023D
					External	H17VXXG023D	H17VXXH023D

5599-2, Plug-in Single Subbase, Size 1 (H1)

Side ported	Enclosure / Lead length	Solenoid addresses	3/8" NPT	3/8" BSPP
	Terminal strip in base	Double solenoid - 2 address	PS401115CDP	PS401116CDP
	6" flying leads	Double solenoid - 2 addresses	PS401115ADP	PS401116ADP
	4-pin, M12 micro connector in base, SAE / Ford wiring	Double solenoid - 2 addresses	PS4011158FDP	PS4011168FDP

5599-2, Plug-in Manifold Bases, Size 1 (H1)

Bottom / End	Enclosure / Lead length	Solenoid addresses	3/8" NPT	3/8" BSPP
	Circuit board	Single solenoid - 1 address	PS401165JCP	PS401166JCP
	Circuit board	Double solenoid - 2 addresses	PS401165MCP	PS401166MCP
	Terminal strip in base	Double solenoid - 2 address	PS401165CCP	PS401166CCP
	6" flying leads	Double solenoid - 2 addresses	PS401165ACP	PS401166ACP
	4-pin, M12 micro connector in base, SAE / Ford wiring	Double solenoid - 2 addresses	PS4011658FCP	PS4011668FCP

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus Series




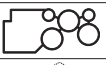
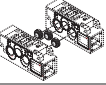

DX ISOMAX Series

Valvair II Series







D

Subbase & Manifold Valve Products

5599-2, Size 1 (H1) Accessories

	Accessory	Description	Part number	
Modulflex Series		Sandwich regulator		
		Common pressure	5-125 PSIG w/ gauge	PS4038166CP
		Independent pressure	5-125 PSIG w/ gauge	PS4038266CP
		Blanking plate kit	PS4034CP	
		Sandwich flow control	PS4035CP	
Isys Micro Series		Manifold to manifold gasket kits	PS4013P	
Isys ISO Series		Main galley (1, 3, 5)	PS4032CP	
		Pilot galley	PS4033CP	
		1/4" & 3/8"	NPT PS403000CP	
			BSPP PS403001CP	

Plug-in, 5599-2 End Plate Kits, Size 1 (H1)

	Electrical option	Description	NPT port	BSPP port
DX ISOMAX Series		No connector - use with individually wired base	PS4031010DP	PS4031011DP
Valvair II Series		25-pin, D-sub	PS4020L20DP	PS4020L21DP
		19-pin, round, Brad Harrison	PS4020L30DP	PS4020L31DP
D Subbase & Manifold Valve Products		12-pin, M23	PS4020L40DP	PS4020L41DP
		19-pin, M23	PS4020M20DP	PS4020M21DP
		Modulflex fieldbus	PS4020M40DP	PS4020M41DP
		Isysnet, with valve driver module	PS4020L60DP	PS4020L61DP
		Turck fieldbus with valve driver module - 16 outputs	PS4020T10DP	PS4020T11DP
		Turck fieldbus with valve driver module - 32 outputs	PS4020T20DP	PS4020T21DP

Turck, Isysnet, and Modulflex communication modules must be ordered separately. See Fieldbus Section for more information.

Note:
 For cable part numbers and pin out information see Fieldbus System Accessories.

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 complete Valve, Regulator, Flow Control and Base model number. List left to right, LOOKING AT THE CYLINDER PORTS on the #12 end of the manifold. The left most station is station 1. (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)

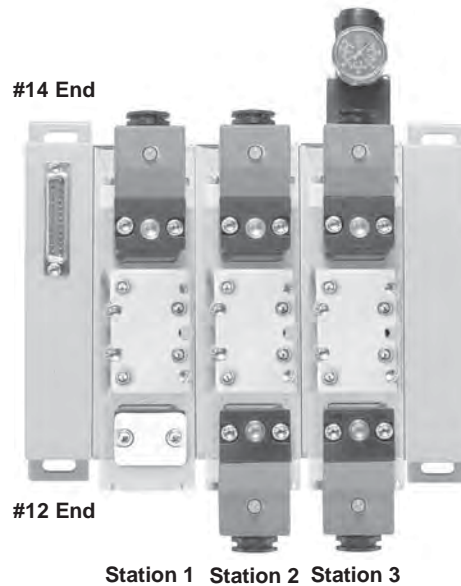
Example

Application requires a 3-Station manifold with a valve, regulator on Station 3.

Item	Qty.	Part No.	Location
01	1	AAH1D003	
02	1	H11VXBG0B9D	Station 1
03	1	PS401155MCP	Station 1
04	1	H12VXBG0B9D	Station 2
05	1	PS401155MCP	Station 2
06	1	H12VXXG0B9D	Station 3
07	1	PS4038166CP	Station 3
08	1	PS401155MCP	Station 3

NOTE:

Construct manifold assemblies from left to right while looking at the cylinder ports. Valves must be ordered as External Pilot when using Sandwich Regulator.



**Example:
 3-Station Manifold with (3) H1 Valves
 on Manifold Bases
 and Regulator at Station 3**

Maximum Number of Solenoids (Maximum energized simultaneously)

Voltage	Voltage code	25-pin D-sub	19-pin M23 or Brad Harrison		Turck			
			12-pin M23	Moduflex	Isysnet	16 Outputs	32 Outputs	
24VDC	G9	24 (24)	16 (16)	8 (8)	16 (16)	24 (21)	16 (16)	24 (21)
120VAC*	23	24 (24)	16 (16)	8 (8)	N/A	N/A	N/A	N/A

* Not CSA certified for 25-pin, D-Sub option.

Add-A-Fold Assembly Model Numbers

AA	H1	D	0	03
Valve series Right & left end plate H1				Number of stations 01 02 03 04 • • 24
End plate type Turck fieldbus with valve driver module - 16 outputs A* Turck fieldbus with valve driver module - 32 outputs B* 25-pin, D-sub D 19-pin, brad harrison E 12-pin, M23 G 19-pin, M23 H Moduflex fieldbus T* Isysnet, with valve driver module X*				Thread type 0 NPT 1* BSPP "G"

* Must order communication modules separately.

* BSPP conforms to ISO 1179-1 w 228-1 threads.

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus


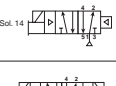
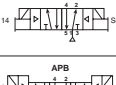

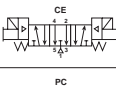

DX ISOMAX Series


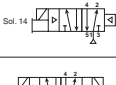
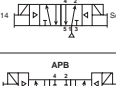

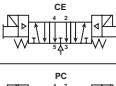
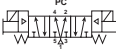
Valvair II Series

D


Subbase & Manifold Valve Products

5599-2, Plug-in, Size 2 (H2)


Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
 Sol. 14	4-way, 2-position, spring return	3.0	Single solenoid	24 VDC	Internal	H2EVXBG0B9D	H2EVXBH0B9D
					External	H2EVXXG0B9D	H2EVXXH0B9D
 Sol. 14	4-way, 2-position, air return	3.0	Single solenoid	24 VDC	Internal	H21VXBG0B9D	H21VXBH0B9D
					External	H21VXXG0B9D	H21VXXH0B9D
 Sol. 14 Sol. 12	4-way, 2-position	3.0	Double solenoid	24 VDC	Internal	H22VXBG0B9D	H22VXBH0B9D
					External	H22VXXG0B9D	H22VXXH0B9D
 #14	4-way, 3-position, all ports blocked	2.8	Double solenoid	24 VDC	Internal	H25VXBG0B9D	H25VXBH0B9D
					External	H25VXXG0B9D	H25VXXH0B9D
 #14	4-way, 3-position, center exhaust	2.8	Double solenoid	24 VDC	Internal	H26VXBG0B9D	H26VXBH0B9D
					External	H26VXXG0B9D	H26VXXH0B9D
 #14	4-way, 3-position, pressure center	2.8	Double solenoid	24 VDC	Internal	H27VXBG0B9D	H27VXBH0B9D
					External	H27VXXG0B9D	H27VXXH0B9D

Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
 Sol. 14	4-way, 2-position, spring return	3.0	Single solenoid	120 VAC	Internal	H2EVXBG023D	H2EVXBH023D
					External	H2EVXXG023D	H2EVXXH023D
 Sol. 14	4-way, 2-position, air return	3.0	Single solenoid	120 VAC	Internal	H21VXBG023D	H21VXBH023D
					External	H21VXXG023D	H21VXXH023D
 Sol. 14 Sol. 12	4-way, 2-position	3.0	Double solenoid	120 VAC	Internal	H22VXBG023D	H22VXBH023D
					External	H22VXXG023D	H22VXXH023D
 #14	4-way, 3-position, all ports blocked	2.8	Double solenoid	120 VAC	Internal	H25VXBG023D	H25VXBH023D
					External	H25VXXG023D	H25VXXH023D
 #14	4-way, 3-position, center exhaust	2.8	Double solenoid	120 VAC	Internal	H26VXBG023D	H26VXBH023D
					External	H26VXXG023D	H26VXXH023D
 #14	4-way, 3-position, pressure center	2.8	Double solenoid	120 VAC	Internal	H27VXBG023D	H27VXBH023D
					External	H27VXXG023D	H27VXXH023D

5599-2, Plug-in Single Subbase, Size 2 (H2)



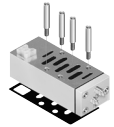
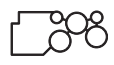
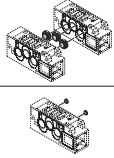
Side ported base	Enclosure / Lead length	Solenoid addresses	1/2" NPT	1/2" BSPP
	Terminal strip in base	Double solenoid - 2 address	PS411117CCP	PS411118CCP
	6" flying leads	Double solenoid - 2 addresses	PS411117ACP	PS411118ACP

5599-2, Plug-in Manifold Bases, Size 2 (H2)





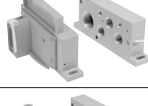
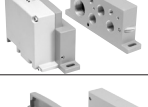

Bottom / End ported bases	Enclosure / Lead length	Solenoid addresses	1/2" NPT	1/2" BSPP
	Circuit board	Single solenoid - 1 address	PS411167JCP	PS411168JCP
	Circuit board	Double solenoid - 2 addresses	PS411167MCP	PS411168MCP
	Terminal strip in base	Double solenoid - 2 address	PS411167CCP	PS411168CCP
	6" flying leads	Double solenoid - 2 addresses	PS411167ACP	PS411168ACP

Modulflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus Series
 DX ISOMAX Series
 Valvair II Series
 Subbase & Manifold Valve Products

5599-2, Size 2 (H2) Accessories

Accessory	Description	Part number
 Sandwich regulator	Common pressure 5-125 PSIG w/ gauge	PS4138166CP
	Independent pressure 5-125 PSIG w/ gauge	PS4138266CP
 Blanking plate kit		PS4134CP
 Sandwich flow control		PS4135CP
 Manifold to manifold gasket kits		PS4113P
 Manifold port isolation kit	Main galley (1, 3, 5)	PS4132CP
	Pilot galley	PS4033CP

Plug-in, 5599-2 End Plate Kits, Size 2 (H2)

Electrical option	Description	NPT port	BSPP port
 No connector - use with individually wired base		PS4131010DP	PS4131011DP
 25-pin, D-sub		PS4120L20DP	PS4120L21DP
 19-pin, round, Brad Harrison		PS4120L30DP	PS4120L31DP
 12-pin, M23		PS4120L40DP	PS4120L41DP
	19-pin, M23	PS4120M20DP	PS4120M21DP
 Moduflex fieldbus		PS4120M40DP	PS4120M41DP
 Isysnet, with valve driver module		PS4120L60DP	PS4120L61DP
 Turck fieldbus with valve driver module - 16 outputs		PS4120T10DP	PS4120T11DP
	Turck fieldbus with valve driver module - 32 outputs	PS4120T20DP	PS4120T21DP

Turck, Isysnet, and Moduflex communication modules must be ordered separately. See Fieldbus Section for more information.

Note:

For cable part numbers and pin out information see Fieldbus System Accessories.

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

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

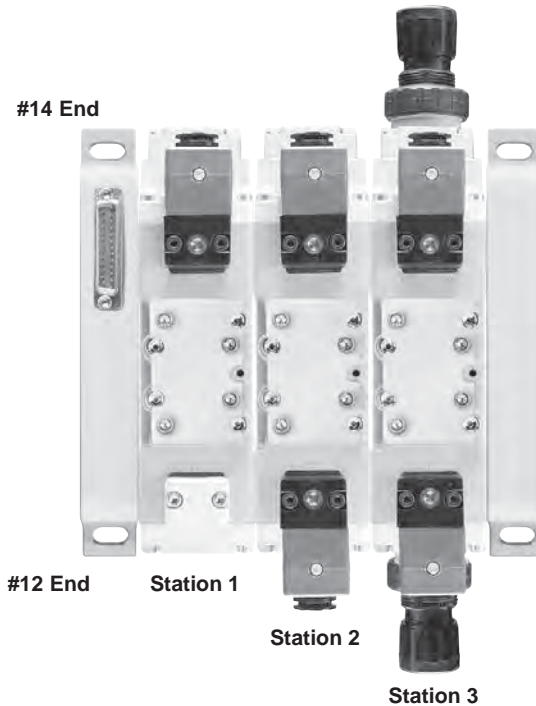
1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List complete Valve, Regulator, Flow Control and Base model number. List left to right, LOOKING AT THE CYLINDER PORTS on the #12 end of the manifold. The left most station is station 1. (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)

Example

Application requires a 3-Station manifold with a valve and regulator on Station 3.

Item	Qty.	Part No.	Location
01	1	AAH2D003	
02	1	H21VXBG0B9D.....	Station 1
03	1	PS411157MCP.....	Station 1
04	1	H22VXBG0B9D.....	Station 2
05	1	PS411157MCP.....	Station 2
06	1	H22VXXG0B9D.....	Station 3
07	1	PS4138166CP.....	Station 3
08	1	PS411157MCP.....	Station 3

NOTE: Construct manifold assemblies from left to right while looking at the cylinder ports.
 Valves must be ordered as External Pilot when using Sandwich Regulator.



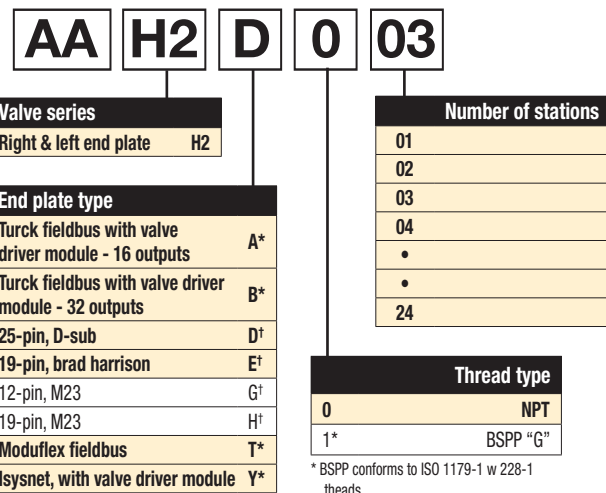
**Example:
 3-Station Manifold with (3) H2 Valves
 on Manifold Bases and Regulator at Station 3**

**Maximum Number of Solenoids
 (Maximum energized simultaneously)**

Voltage	Voltage code	25-pin D-sub	19-pin M23 or		Modulflex Isysnet	Turck		
			Brad Harrison	12-pin M23		16	32	
24VDC	G9	24 (24)	16 (16)	8 (8)	16 (16)	24 (21)	16 (16)	24 (21)
120VAC*	23	24 (24)	16 (16)	8 (8)	N/A	N/A	N/A	N/A

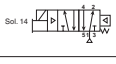
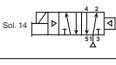
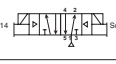
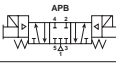
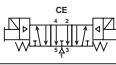
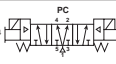
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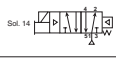
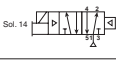
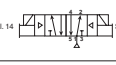
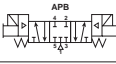
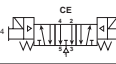
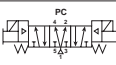
Add-A-Fold Assembly Model Numbers




* Must order communication modules separately.
 † Collective wiring module included.

5599-2, Plug-in, Size 3 (H3)


Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
 Sol. 14	4-way, 2-position, spring return	6.0	Single solenoid	24 VDC	Internal	H3EVXBG0B9D	H3EVXBH0B9D
					External	H3EVXXG0B9D	H3EVXXH0B9D
 Sol. 14	4-way, 2-position, air return	6.0	Single solenoid	24 VDC	Internal	H31VXBG0B9D	H31VXBH0B9D
					External	H31VXXG0B9D	H31VXXH0B9D
 Sol. 14 Sol. 12	4-way, 2-position	6.0	Double solenoid	24 VDC	Internal	H32VXBG0B9D	H32VXBH0B9D
					External	H32VXXG0B9D	H32VXXH0B9D
 #14 APB #12	4-way, 3-position, all ports blocked	5.0	Double solenoid	24 VDC	Internal	H35VXBG0B9D	H35VXBH0B9D
					External	H35VXXG0B9D	H35VXXH0B9D
 #14 CE #12	4-way, 3-position, center exhaust	5.0	Double solenoid	24 VDC	Internal	H36VXBG0B9D	H36VXBH0B9D
					External	H36VXXG0B9D	H36VXXH0B9D
 #14 PC #12	4-way, 3-position, pressure center	5.0	Double solenoid	24 VDC	Internal	H37VXBG0B9D	H37VXBH0B9D
					External	H37VXXG0B9D	H37VXXH0B9D

Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
 Sol. 14	4-way, 2-position, spring return	6.0	Single solenoid	120 VAC	Internal	H3EVXBG023D	H3EVXBH023D
					External	H3EVXXG023D	H3EVXXH023D
 Sol. 14	4-way, 2-position, air return	6.0	Single solenoid	120 VAC	Internal	H31VXBG023D	H31VXBH023D
					External	H31VXXG023D	H31VXXH023D
 Sol. 14 Sol. 12	4-way, 2-position	6.0	Double solenoid	120 VAC	Internal	H32VXBG023D	H32VXBH023D
					External	H32VXXG023D	H32VXXH023D
 #14 APB #12	4-way, 3-position, all ports blocked	5.0	Double solenoid	120 VAC	Internal	H35VXBG023D	H35VXBH023D
					External	H35VXXG023D	H35VXXH023D
 #14 CE #12	4-way, 3-position, center exhaust	5.0	Double solenoid	120 VAC	Internal	H36VXBG023D	H36VXBH023D
					External	H36VXXG023D	H36VXXH023D
 #14 PC #12	4-way, 3-position, pressure center	5.0	Double solenoid	120 VAC	Internal	H37VXBG023D	H37VXBH023D
					External	H37VXXG023D	H37VXXH023D

5599-2, Plug-in Single Subbase, Size 3 (H3)

Side ported base	Enclosure / Lead length	Solenoid addresses	3/4" NPT	3/4" BSPP
	Terminal strip in base	Double solenoid - 2 address	PS421119CCP	PS401110CCP
	6" flying leads	Double solenoid - 2 addresses	PS421119ACP	PS421110ACP

5599-2, Plug-in Manifold Bases, Size 3 (H3)

Bottom / End ported bases	Enclosure / Lead length	Solenoid addresses	3/4" NPT	3/4" BSPP
	Circuit board	Single solenoid - 1 address	PS421169JCP	PS421160JCP
	Circuit board	Double solenoid - 2 addresses	PS421169MCP	PS421160MCP
	Terminal strip in base	Double solenoid - 2 address	PS421169CCP	PS421160CCP
	6" flying leads	Double solenoid - 2 addresses	PS421169ACP	PS421160ACP

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus Series





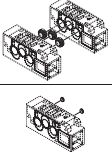
DX ISOMAX Series

Valvair II Series








D

Subbase & Manifold Valve Products

5599-2, Size 3 (H3) Accessories

	Accessory	Description	Part number
Modulflex Series		Common pressure 5-125 PSIG w/ gauge	PS4238166CP
		Independent pressure 5-125 PSIG w/ gauge	PS4238266CP
Isys Micro Series		Blanking plate kit	PS4234CP
		Sandwich flow control	PS4235CP
		Manifold to manifold gasket kits	PS4213P
Isys ISO Series		Main galley (1, 3, 5)	PS4232CP
		Pilot galley	PS4033CP

Plug-in, 5599-2 End Plate Kits, Size 3 (H3)

	Electrical option	NPT port	BSPP port
DX ISOMAX Series		No connector - use with individually wired base	PS4231010DP PS4231011DP
		25-pin, D-sub	PS4220L20DP PS4220L21DP
Valvair II Series		19-pin, round, Brad Harrison	PS4220L30DP PS4220L31DP
		12-pin, M23	PS4220L40DP PS4220L41DP
19-pin, M23		PS4220M20DP PS4220M21DP	
Subbase & Manifold Valve Products		Modulflex fieldbus	PS4220M40DP PS4220M41DP
		Isysnet, with valve driver module	PS4220L60DP PS4220L61DP
		Turck fieldbus with valve driver module - 16 outputs	PS4220T10DP PS4220T11DP
		Turck fieldbus with valve driver module - 32 outputs	PS4220T20DP PS4220T21DP

Turck, Isysnet, and Modulflex communication modules must be ordered separately. See Fieldbus Section for more information.

Note:
 For cable part numbers and pin out information see Fieldbus System Accessories.

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

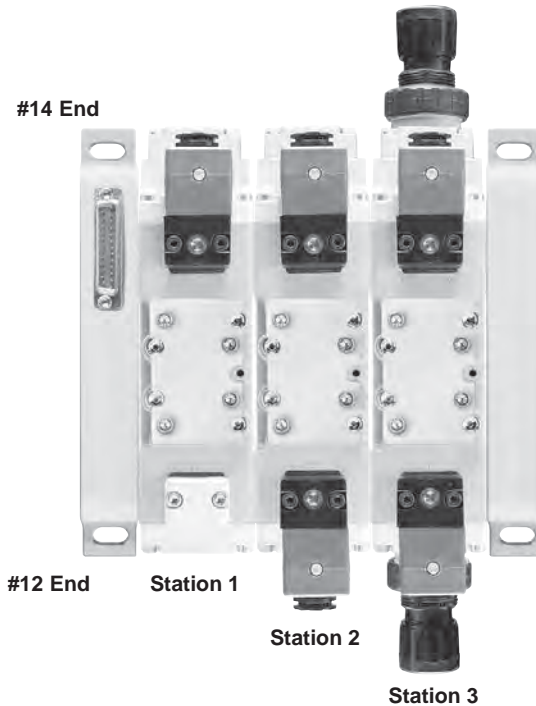
1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List complete Valve, Regulator, Flow Control and Base model number. List left to right, LOOKING AT THE CYLINDER PORTS on the #12 end of the manifold. The left most station is station 1. (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)

Example

Application requires a 3-Station manifold with a valve and regulator on Station 3.

Item	Qty.	Part No.	Location
01	1	AAH3D003	
02	1	H31VXBG0B9D.....	Station 1
03	1	PS421159MCP.....	Station 1
04	1	H32VXBG0B9D.....	Station 2
05	1	PS421159MCP.....	Station 2
06	1	H32VXXG0B9D.....	Station 3
07	1	PS4238166CP.....	Station 3
08	1	PS421159MCP.....	Station 3

NOTE: Construct manifold assemblies from left to right while looking at the cylinder ports.
 Valves must be ordered as External Pilot when using Sandwich Regulator.



Example:
**3-Station Manifold with (3) H3 Valves
 on Manifold Bases and Regulator at Station 3**

Maximum Number of Solenoids (Maximum energized simultaneously)

Voltage	Voltage code	25-pin D-sub	19-pin M23 or		Modulflex	Isysnet	Turck	
			Brad Harrison	12-pin M23			16 Outputs	32 Outputs
24VDC	G9	24 (24)	16 (16)	8 (8)	16 (16)	24 (21)	16 (16)	24 (21)
120VAC*	23	24 (24)	16 (16)	8 (8)	N/A	N/A	N/A	N/A

* Not CSA certified for 25-pin, D-Sub option.

Add-A-Fold Assembly Model Numbers

AA H3 D 0 03

Valve series
 Right & left end plate H3

End plate type

Turck fieldbus with valve driver module - 16 outputs	A*
Turck fieldbus with valve driver module - 32 outputs	B*
25-pin, D-sub	D†
19-pin, brad harrison	E†
12-pin, M23	G†
19-pin, M23	H†
Modulflex fieldbus	T*
Isysnet, with valve driver module	Y*

Number of stations

01
02
03
04
•
•
24

Thread type

0	NPT
1*	BSPP "G"

* BSPP Conforms to ISO 1179-1 w 228-1 Threads.

* Must order communication modules separately.

† Collective wiring module included.

Plug-in, 5599-2, Size 1, 2, & 3

H1 E VX B G O B9 D

Basic series 5599-2	
ISO 5599-2 Size 1	H1
ISO 5599-2 Size 2	H2
ISO 5599-2 Size 3	H3

5599-2 Engineering level	
D	Current

5599-2 Voltage & Frequency				
	AC		DC	Light & surge suppression
	60Hz	50Hz		
42	24			
45			12	
B9			24	LED & suppression
23	120	115		LED & suppression
57	240			

5599-2 Operator / Function	
Single solenoid, 2-position - air return	1
Double solenoid, 2-position	2
Double solenoid, 3-position - APB	5
Double solenoid, 3-position - CE	6
Double solenoid, 3-position - PC	7
Single solenoid, 2-position - air return, spring assist	E

5599-2 Mounting	
5599-2 Valve less vase	VX

5599-2 Enclosure / Lead length	
0	None, valve less base

5599-2 Pilot source / Pilot exhaust	
Internal pilot, port #1 / vented	B
External pilot, port #12 or #14 / vented	X*

* Must be specified when using Sandwich Regulators.

5599-2 Overrides / Lights		
	Voltage code	
B	42, 45, 57	Non-locking, flush, push - w/o light
C	42, 45, 57	Locking, flush, push / turn - w/o light
G	B9, 23	Non-locking, flush, push - w/ light
H	B9, 23	Locking, flush, push / turn - w/ light

Plug-in, 5599-2 Transition Plate Kits

PS4026 L2 0 C P

Transition plate type*	
H1 to H2 to H3	PS4025
H1 to H3	PS4026
H1 to H2	PS4027
H2 to H3	PS4028

* Includes Left Hand and Right Hand End Plates

Engineering level	
C	Basic series PS40

Thread type	
0	NPT
1*	BSPP "G"


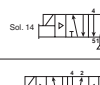






* BSPP conforms to ISO 1179-1 w 228-1 threads.

Options	
25-pin, D-sub	L2
19-pin, round, brad harrison	L3
12-pin, M23	L4
19-pin, M23	M2
Modulflex fieldbus	M4*
Isysnet, with valve driver module	L6*
Turck fieldbus with valve driver module - 16 outputs	T1
Turck fieldbus with valve driver module - 32 outputs	T2




* Must order communication module separately
 turck, isysnet, and modulflex communication modules must be ordered separately.
 See fieldbus section for more information.










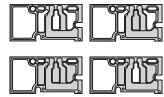
15407-1, Non Plug-in, Size 18mm (HB)

Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	4-way, 2-position, spring return	0.55	Single solenoid	24 VDC	Internal	HBEWXBG2G9000FA	HBEWXBH2G9000FA
					External	HBEWXLG2G9000FA	HBEWXLH2G9000FA
	4-way, 2-position, air return	0.55	Single solenoid	24 VDC	Internal	HB1WXBG2G9000FA	HB1WXBH2G9000FA
					External	HB1WXLG2G9000FA	HB1WXLH2G9000FA
	4-way, 2-position	0.55	Double solenoid	24 VDC	Internal	HB2WXBG2G9000FA	HB2WXBH2G9000FA
					External	HB2WXLG2G9000FA	HB2WXLH2G9000FA
	4-way, 3-position, all ports blocked	0.5	Double solenoid	24 VDC	Internal	HB5WXBG2G9000FA	HB5WXBH2G9000FA
					External	HB5WXLG2G9000FA	HB5WXLH2G9000FA
	4-way, 3-position, center exhaust	0.5	Double solenoid	24 VDC	Internal	HB6WXBG2G9000FA	HB6WXBH2G9000FA
					External	HB6WXLG2G9000FA	HB6WXLH2G9000FA
	4-way, 3-position, pressure center	0.5	Double solenoid	24 VDC	Internal	HB7WXBG2G9000FA	HB7WXBH2G9000FA
					External	HB7WXLG2G9000FA	HB7WXLH2G9000FA
	3-way, 2-position, dual valve, NC/NC	0.45	Double solenoid	24 VDC	Internal	HBNWXBG2G9000FA	HBNWXBH2G9000FA
					External	HBNWXLG2G9000FA	HBNWXLH2G9000FA
	3-way, 2-position, dual valve, NO/NO	0.45	Double solenoid	24 VDC	Internal	HBPWXBG2G9000FA	HBPWXBH2G9000FA
					External	HBPWXLG2G9000FA	HBPWXLH2G9000FA

15407-1, Non Plug-in, Size 18mm (HB)

Single subbase	Description	1/8" NPT	1/8" BSPP
	Side ported base	PL02-01-80	PL02-01-70
	End ported bases	PS5611510P	PS5611520P
2 Station manifold bases	Description	1/8" NPT	1/8" BSPP
	End ported bases	PS5611510P	PS5611520P
	Non-collective wiring end plate	PS5631010P	PS5631011P
End plate kit	Description	NPT port	BSPP port
	Non-collective wiring end plate	PS5631010P	PS5631011P

15407-1, Non-Plug-in, Size 18mm (HB) Accessories

Accessories	Description	Part number
	Common pressure	2-60 PSIG w/ gauge PS5637155P
	Common pressure	5-125 PSIG w/ gauge PS5637166P
	Independent pressure	2-60 PSIG w/ gauge PS5637255P
	Independent pressure	5-125 PSIG w/ gauge PS5637266P
	Gauge adapter kit	Includes 1/8" coupling and long nipple PS5651160P
	Blanking plate kit	PS5634P
	1/8" NPT	PS562600P
	1/8" BSPP	PS562601P
	1/8" NPT	PS562700P
	1/8" BSPP	PS562701P
	Intermediate air supply module	1/8" NPT D02P-01-80
	Sandwich flow control	PS5642P
	Standard	PS561AP
	Blocked #1 port	PS561BP
	Blocked #1, 3, 5, ports	PS561CP
	Blocked #3, 5 ports	PS561DP

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

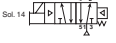
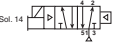

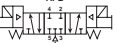

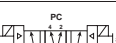
DX ISOMAX Series

Valvair II Series




D

Subbase & Manifold Valve Products








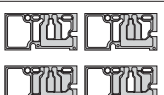
15407-1, Non Plug-in, Size 26mm (HA)

Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	4-way, 2-position, spring return	1.1	Single solenoid	24 VDC	Internal	HAEWXBG2G9000FA	HAEWXBH2G9000FA
					External	HAEWXLG2G9000FA	HAEWXLH2G9000FA
	4-way, 2-position, air return	1.1	Single solenoid	24 VDC	Internal	HA1WXBG2G9000FA	HA1WXBH2G9000FA
					External	HA1WXLG2G9000FA	HA1WXLH2G9000FA
	4-way, 2-position	1.1	Double solenoid	24 VDC	Internal	HA2WXBG2G9000FA	HA2WXBH2G9000FA
					External	HA2WXLG2G9000FA	HA2WXLH2G9000FA
	4-way, 3-position, all ports blocked	1.0	Double solenoid	24 VDC	Internal	HA5WXBG2G9000FA	HA5WXBH2G9000FA
					External	HA5WXLG2G9000FA	HA5WXLH2G9000FA
	4-way, 3-position, center exhaust	1.0	Double solenoid	24 VDC	Internal	HA6WXBG2G9000FA	HA6WXBH2G9000FA
					External	HA6WXLG2G9000FA	HA6WXLH2G9000FA
	4-way, 3-position, pressure center	1.0	Double solenoid	24 VDC	Internal	HA7WXBG2G9000FA	HA7WXBH2G9000FA
					External	HA7WXLG2G9000FA	HA7WXLH2G9000FA

15407-1, Non Plug-in, Size 26mm (HA)

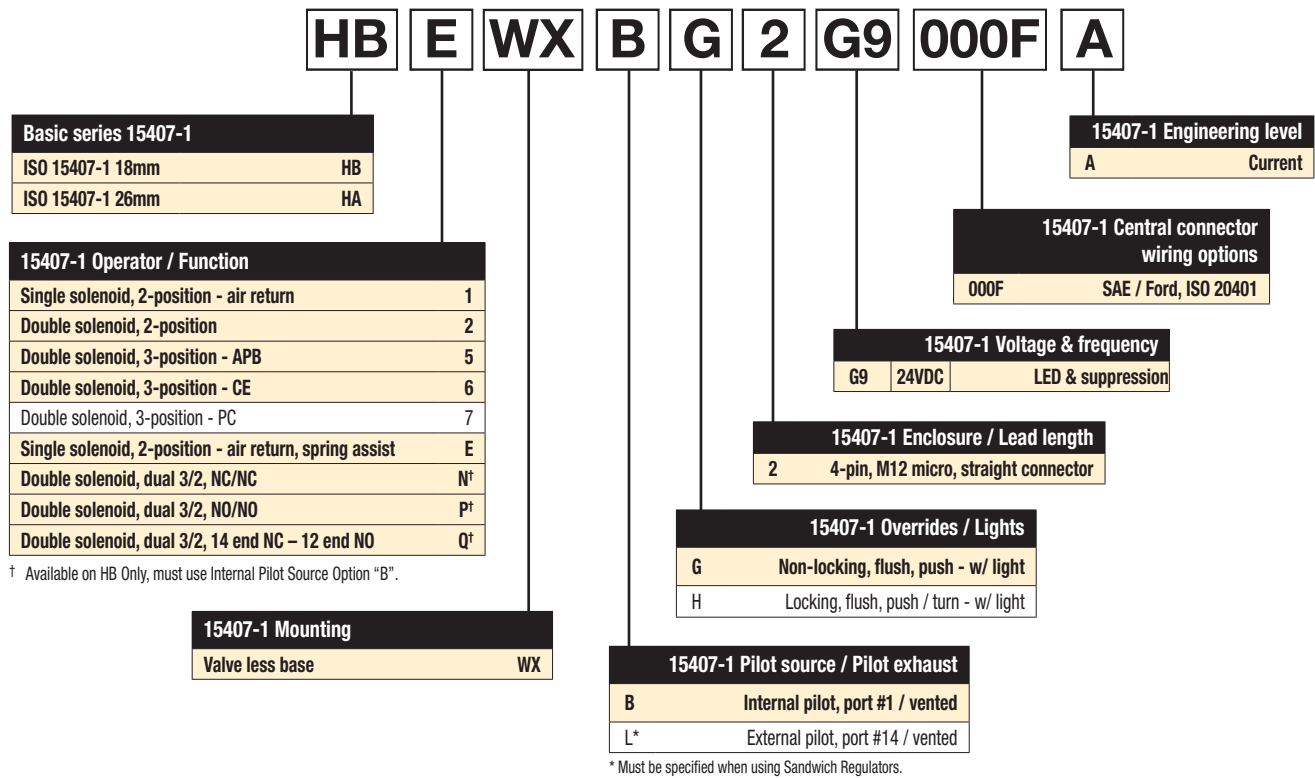
Single subbase	Description	1/4" NPT	1/4" BSPP
	Side ported base	PL01-02-80	PL01-02-70
2 Station manifold bases	Description	1/4" NPT	1/4" BSPP
	End ported bases	PS5511530P	PS5511540P
End plate kit	Description	NPT port	BSPP port
	Non-collective wiring end plate	PS5631010P	PS5631011P

15407-1, Non-Plug-in, Size 18mm (HB) Accessories

Accessories	Description	Part number
	Common pressure	2-60 PSIG w/ gauge PS5537155P
	Common pressure	5-125 PSIG w/ gauge PS5537166P
	Independent pressure	2-60 PSIG w/ gauge PS5537255P
	Independent pressure	5-125 PSIG w/ gauge PS5537266P
	Gauge adapter kit	Includes 1/8" coupling and long nipple PS5651160P
	Blanking plate kit	PS5634P
	Sandwich supply module	1/8" NPT PS562600P
		1/8" BSPP PS562601P
	Sandwich exhaust module	1/8" NPT PS562700P
		1/8" BSPP PS562701P
	Intermediate air supply module	1/8" NPT D01P-02-80
	Sandwich flow control	PS5542P
	Standard	PS561AP
	Blocked #1 port	PS561BP
	Blocked #1, 3, 5, ports	PS561CP
	Blocked #3, 5 ports	PS561DP

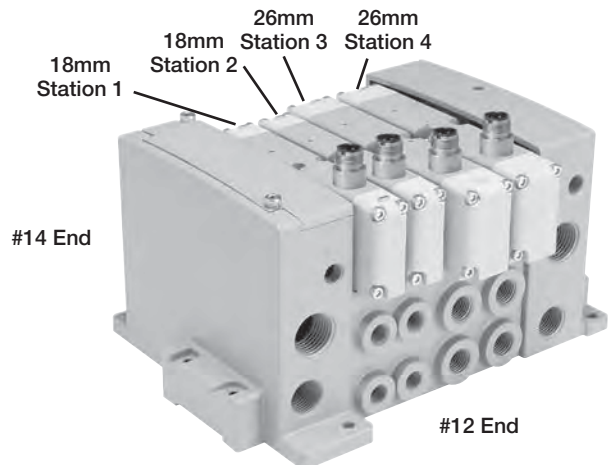
Modulflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus Series
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products

Non Plug-in, 15407-1, Size 18mm (HB) & 26mm (HA)



How To Order 15407-1 Non Plug-in Add-A-Fold Assemblies

1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List complete Valve, Regulator, Flow Control and Base model number. List left to right, LOOKING AT THE CYLINDER PORTS on the #12 end of the manifold. The left most station is station 1. (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)



Example:
 4-Station Manifold with (2) 18mm and (2) 26mm Valves on Manifold Bases

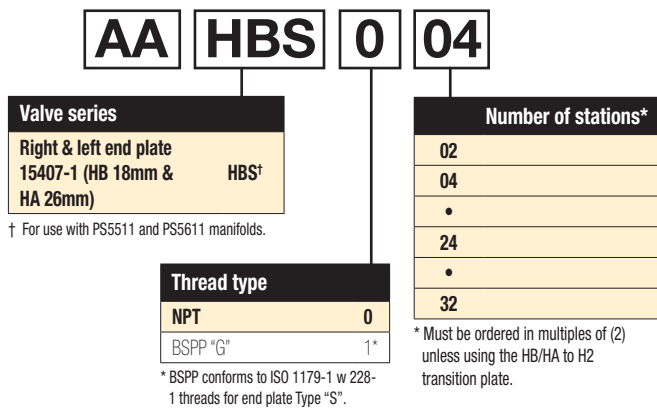
Example

Application requires a 4-Station manifold. (Two 18mm + Two 26mm Stations)

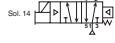

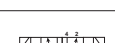
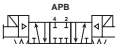
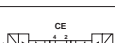
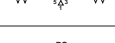
Item	Qty.	Part No.	Location
01	1	AAHBS004	
02	1	1HB1WXBG2G9000FA	Station 1
03	1	1HB2WXBG2G9000FA	Station 2
04	1	1PS5611510P	Station 1 & 2
05	2	2HA1WXBG2G9000FA	Station 3 & 4
06	1	1PS5511510P	Station 3 & 4


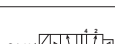

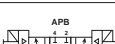

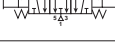
NOTE: Construct manifold assemblies from left to right while looking at the ports. Valves must be ordered as External Pilot when using Sandwich Regulator.

Add-A-Fold Assembly Model Number



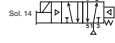
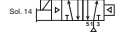
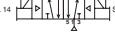


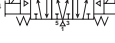
5599-1, Non Plug-in, Size 1 (H1) with Central Connectors

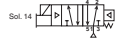
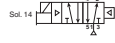

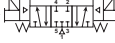
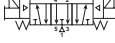

	Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
Modulflex Series		4-way, 2-position, spring return	1.5	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	H1EWXBG2B9000FD	H1EWXBH2B9000FD
		4-way, 2-position, air return	1.5	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	H11WXXBG2B9000FD	H11WXXH2B9000FD
		4-way, 2-position	1.5	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H12WXXBG2B9000FD	H12WXXH2B9000FD
Isys Micro Series		4-way, 3-position, all ports blocked	1.2	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H15WXXBG2B9000FD	H15WXXH2B9000FD
		4-way, 3-position, center exhaust	1.2	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H16WXXBG2B9000FD	H16WXXH2B9000FD
		4-way, 3-position, pressure center	1.2	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H17WXXBG2B9000FD	H17WXXH2B9000FD

	Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Non-locking	Locking
Fieldbus Series		4-way, 2-position, spring return	1.5	Single solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H1EWXBG323000FD	H1EWXBH323000FD
		4-way, 2-position, air return	1.5	Single solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H11WXXBG323000FD	H11WXXH323000FD
		4-way, 2-position	1.5	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H12WXXBG323000FD	H12WXXH323000FD
DX ISOMAX Series		4-way, 3-position, all ports blocked	1.2	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H15WXXBG323000FD	H15WXXH323000FD
		4-way, 3-position, center exhaust	1.2	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H16WXXBG323000FD	H16WXXH323000FD
		4-way, 3-position, pressure center	1.2	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H17WXXBG323000FD	H17WXXH323000FD




Modulflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus Series
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products

5599-1, Non Plug-in, Size 1 (H1) with 3-Pin DIN Connectors

Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
	4-way, 2-position, spring return	1.5	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	H1EWXBBL49D	H1EWXBDL49D
						External	H1EWXXBL49D	H1EWXXDL49D
	4-way, 2-position, air return	1.5	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	H11WXBBL49D	H11WXBDL49D
						External	H11WXXBL49D	H11WXXDL49D
	4-way, 2-position	1.5	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H12WXBBL49D	H12WXBDL49D
						External	H12WXXBL49D	H12WXXDL49D
	4-way, 3-position, all ports blocked	1.2	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H15WXBBL49D	H15WXBDL49D
						External	H15WXXBL49D	H15WXXDL49D
	4-way, 3-position, center exhaust	1.2	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H16WXBBL49D	H16WXBDL49D
						External	H16WXXBL49D	H16WXXDL49D
	4-way, 3-position, pressure center	1.2	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H17WXBBL49D	H17WXBDL49D
						External	H17WXXBL49D	H17WXXDL49D

Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	4-way, 2-position, spring return	1.5	Single solenoid	120 VAC	Internal	H1EWXBBL53D	H1EWXBDL53D
					External	H1EWXXBL53D	H1EWXXDL53D
	4-way, 2-position, air return	1.5	Single solenoid	120 VAC	Internal	H11WXBBL53D	H11WXBDL53D
					External	H11WXXBL53D	H11WXXDL53D
	4-way, 2-position	1.5	Double solenoid	120 VAC	Internal	H12WXBBL53D	H12WXBDL53D
					External	H12WXXBL53D	H12WXXDL53D
	4-way, 3-position, all ports blocked	1.2	Double solenoid	120 VAC	Internal	H15WXBBL53D	H15WXBDL53D
					External	H15WXXBL53D	H15WXXDL53D
	4-way, 3-position, center exhaust	1.2	Double solenoid	120 VAC	Internal	H16WXBBL53D	H16WXBDL53D
					External	H16WXXBL53D	H16WXXDL53D
	4-way, 3-position, pressure center	1.2	Double solenoid	120 VAC	Internal	H17WXBBL53D	H17WXBDL53D
					External	H17WXXBL53D	H17WXXDL53D

5599-1, Non Plug-in, Size 1 (H1)

	Single subbase	Description	3/8" NPT	3/8" BSPP
		Side ported base	PS4011150CP	PS4011160CP
	Manifold bases	Description	3/8" NPT	3/8" BSPP
		Bottom / End ported bases	PS4011650CP	PS4011660CP
	End plate kits	Description	NPT port	BSPP port
		H1 Non-collective wiring end plates	PS4031010CP	PS4031011CP



Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus





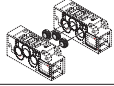

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

5599-1, Non Plug-in, Size 1 (H1) Accessories

Accessory	Description	Part number
 Sandwich regulator	Common pressure	5-125 PSIG w/ gauge PS4037166CP
	Independent pressure	5-125 PSIG w/ gauge PS4037266CP
 Blanking plate kit		PS4034CP
 Sandwich flow control		PS4042CP
 Manifold to manifold gasket kits		PS4013P
 Manifold port isolation kit	Main galley (1, 3, 5)	PS4032CP
	Pilot galley	PS4033CP
 Auxiliary access plate kit	1/4" & 3/8"	NPT PS403000CP
		BSPP PS403001CP

Modflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products

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

1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List complete Valve, Regulator, Flow Control and Base model number. List left to right, LOOKING AT THE CYLINDER PORTS on the #12 end of the manifold. The left most station is station 1. (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)

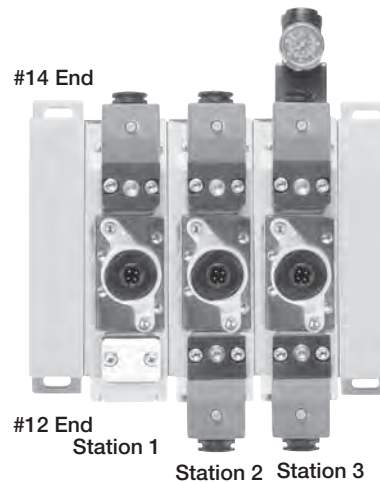
Example

Application requires a 3-Station manifold with a valve, regulator on Station 3.

Item	Qty.	Part No.	Location
01	1	AAH1S003	
02	1	H11WXBG2B9000FD	Station 1
03	1	PS4011550CP	Station 1
04	1	H12WXBG2B9000FD	Station 2
05	1	PS4011550CP	Station 2
06	1	H12WXXG2B9000FD	Station 3
07	1	PS4037166CP	Station 3
08	1	PS4011550CP	Station 3

NOTE: Construct manifold assemblies from left to right while looking at the cylinder ports.

Valves must be ordered as External Pilot when using Sandwich Regulator.



Example:
 3-Station Manifold with (3) H1 Valves
 on Manifold Bases
 and Regulator at Station 3

Add-A-Fold Assembly Model Number

AA	H1	S	0	03	
Valve series		End plate type		Transition plate	
Right & left end plate H1		Standard - non-collective wiring S		Blank No transition plate	
				C H1 to H2	
				D H1 to H3	
Thread type			Number of stations		
NPT 0			01		
BSPP "G" 1*			02		
			03		
			04		
			•		
			•		
			24		

* BSPP Conforms to ISO 1179-1 w 228-1 Threads.

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

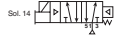
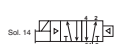
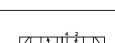

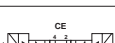
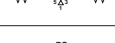
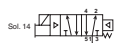
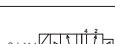

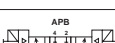
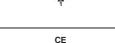
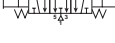
DX ISOMAX Series

Valvair II Series


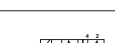

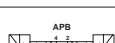
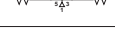

D

Subbase & Manifold Valve Products

5599-1, Non Plug-in, Size 2 (H2) with Central Connectors

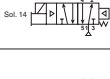

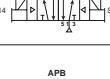
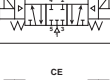
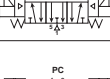

	Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
Modulflex Series		4-way, 2-position, spring return	3.0	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	H2EWXBG2B9000FD	H2EWXBH2B9000FD
		External	H2EWXXG2B9000FD	H2EWXXH2B9000FD					
		4-way, 2-position, air return	3.0	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	H21WXBG2B9000FD	H21WXBH2B9000FD
		External	H21WXXG2B9000FD	H21WXXH2B9000FD					
		4-way, 2-position	3.0	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H22WXBG2B9000FD	H22WXBH2B9000FD
		External	H22WXXG2B9000FD	H22WXXH2B9000FD					
Isys Micro Series		4-way, 3-position, all ports blocked	2.8	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H25WXBG2B9000FD	H25WXBH2B9000FD
		External	H25WXXG2B9000FD	H25WXXH2B9000FD					
		4-way, 3-position, center exhaust	2.8	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H26WXBG2B9000FD	H26WXBH2B9000FD
		External	H26WXXG2B9000FD	H26WXXH2B9000FD					
Isys ISO Series		4-way, 3-position, pressure center	2.8	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H27WXBG2B9000FD	H27WXBH2B9000FD
		External	H27WXXG2B9000FD	H27WXXH2B9000FD					
	Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Non-locking	Locking
Fieldbus Series		4-way, 2-position, spring return	3.0	Single solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H2EWXBG323000FD	H2EWXBH323000FD
		External	H2EWXXG323000FD	H2EWXXH323000FD					
		4-way, 2-position, air return	3.0	Single solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H21WXBG323000FD	H21WXBH323000FD
		External	H21WXXG323000FD	H21WXXH323000FD					
		4-way, 2-position	3.0	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H22WXBG323000FD	H22WXBH323000FD
		External	H22WXXG323000FD	H22WXXH323000FD					
DX ISOMAX Series		4-way, 3-position, all ports blocked	2.8	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H25WXBG323000FD	H25WXBH323000FD
		External	H25WXXG323000FD	H25WXXH323000FD					
		4-way, 3-position, center exhaust	2.8	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H26WXBG323000FD	H26WXBH323000FD
		External	H26WXXG323000FD	H26WXXH323000FD					
Valvair II Series		4-way, 3-position, pressure center	2.8	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H27WXBG323000FD	H27WXBH323000FD
		External	H27WXXG323000FD	H27WXXH323000FD					

5599-1, Non Plug-in, Size 2 (H2) with 3-Pin DIN Connectors




	Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
Subbase & Manifold		4-way, 2-position, spring return	3.0	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	H2EWXBBL49D	H2EWXBCL49D
		External	H2EWXXBL49D	H2EWXXCL49D					
		4-way, 2-position, air return	3.0	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	H21WXBBL49D	H21WXBCL49D
		External	H21WXXBL49D	H21WXXCL49D					
		4-way, 2-position	3.0	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H22WXBBL49D	H22WXBCL49D
		External	H22WXXBL49D	H22WXXCL49D					
Subbase & Manifold		4-way, 3-position, all ports blocked	2.8	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H25WXBBL49D	H25WXBCL49D
		External	H25WXXBL49D	H25WXXCL49D					
		4-way, 3-position, center exhaust	2.8	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H26WXBBL49D	H26WXBCL49D
		External	H26WXXBL49D	H26WXXCL49D					
Subbase & Manifold		4-way, 3-position, pressure center	2.8	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H27WXBBL49D	H27WXBCL49D
		External	H27WXXBL49D	H27WXXCL49D					







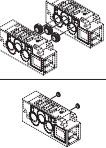
5599-1, Non Plug-in, Size 2 (H2) with 3-Pin DIN Connectors

Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Non-locking	Locking
	4-way, 2-position, spring return	3.0	Single solenoid	120 VAC	3-pin DIN connector on coil	Internal	H2EWXBBL53D	H2EWXBCL53D
						External	H2EWXXBL53D	H2EWXXCL53D
	4-way, 2-position, air return	3.0	Single solenoid	120 VAC	3-pin DIN connector on coil	Internal	H21WXBBL53D	H21WXBCL53D
						External	H21WXXBL53D	H21WXXCL53D
	4-way, 2-position	3.0	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	H22WXBBL53D	H22WXBCL53D
						External	H22WXXBL53D	H22WXXCL53D
	4-way, 3-position, all ports blocked	2.8	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	H25WXBBL53D	H25WXBCL53D
						External	H25WXXBL53D	H25WXXCL53D
	4-way, 3-position, center exhaust	2.8	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	H26WXBBL53D	H26WXBCL53D
						External	H26WXXBL53D	H26WXXCL53D
	4-way, 3-position, pressure center	2.8	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	H27WXBBL53D	H27WXBCL53D
						External	H27WXXBL53D	H27WXXCL53D

5599-1, Non Plug-in, Size 2 (H2)

Single subbase	Description	1/2" NPT	1/2" BSPP
	Side ported base	PS4111170CP	PS4111180CP
Manifold bases	Description	1/2" NPT	1/2" BSPP
	Bottom / End ported bases Note: Manifolds include 2 pipe plugs	PS4111670CP	PS4111680CP
End plate kits	Description	NPT port	BSPP port
	H2 Non-collective wiring end plates	PS4131010CP	PS4131011CP

5599-1, Non Plug-in, Size 2 (H2) Accessories

Accessory	Description	Part number
	Common pressure 5-125 PSIG w/ gauge	PS4137166CP
	Independent pressure 5-125 PSIG w/ gauge	PS4137266CP
	Blanking plate kit	PS4134CP
	Sandwich flow control	PS4142CP
	Manifold to manifold gasket kits	PS4113P
	Main galley (1, 3, 5)	PS4132CP
	Pilot galley	PS4033CP

Modulflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus Series
 DX ISOMAX Series
 Valvair II Series

D
 Subbase & Manifold Valve Products

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

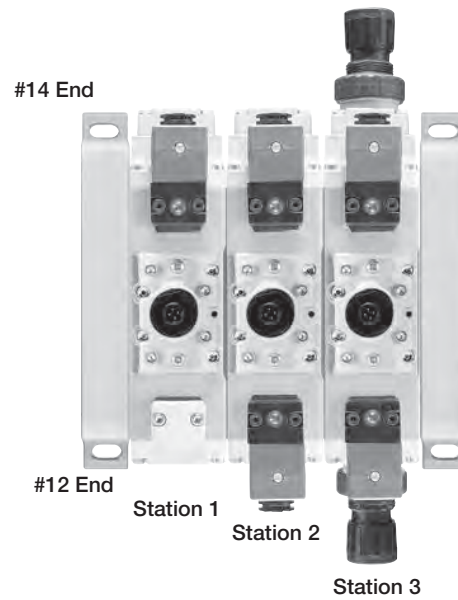
1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List complete Valve, Regulator, Flow Control and Base model number. List left to right, LOOKING AT THE CYLINDER PORTS on the #12 end of the manifold. The left most station is station 1. (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)

Example

Application requires a 3-Station manifold with a valve and regulator on Station 3.

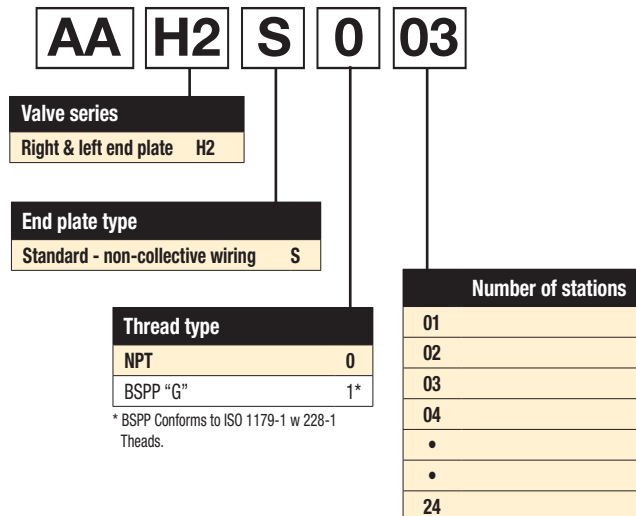
Item	Qty.	Part No.	Location
01	1	AAH2S003	
02	1	H21WXBG2B9000FD	Station 1
03	1	PS4111570CP	Station 1
04	1	H22WXBG2B9000FD	Station 2
05	1	PS4111570CP	Station 2
06	1	H22WXXG2B9000FD	Station 3
07	1	PS4137166CP	Station 3
08	1	PS4111570CP	Station 3

NOTE: Construct manifold assemblies from left to right while looking at the cylinder ports.
 Valves must be ordered as External Pilot when using Sandwich Regulator.



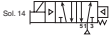
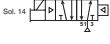
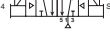



Example:
 3-Station Manifold with (3) H2 Valves
 on Manifold Bases
 and Regulator at Station 3

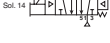
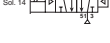
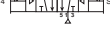
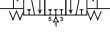

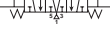
Add-A-Fold Assembly Model Number



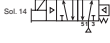
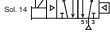
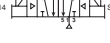



Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

5599-1, Non Plug-in, Size 3 (H3) with Central Connectors

Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
	4-way, 2-position, spring return	6.0	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	H3EWXBG2B9000FD	H3EWXBH2B9000FD
						External	H3EWXG2B9000FD	H3EWXH2B9000FD
	4-way, 2-position, air return	6.0	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	H31WXBG2B9000FD	H31WXBH2B9000FD
						External	H31WXXG2B9000FD	H31WXXH2B9000FD
	4-way, 2-position	6.0	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H32WXBG2B9000FD	H32WXBH2B9000FD
						External	H32WXXG2B9000FD	H32WXXH2B9000FD
	4-way, 3-position, all ports blocked	5.0	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H35WXBG2B9000FD	H35WXBH2B9000FD
						External	H35WXXG2B9000FD	H35WXXH2B9000FD
	4-way, 3-position, center exhaust	5.0	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H36WXBG2B9000FD	H36WXBH2B9000FD
						External	H36WXXG2B9000FD	H36WXXH2B9000FD
	4-way, 3-position, pressure center	5.0	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	H37WXBG2B9000FD	H37WXBH2B9000FD
						External	H37WXXG2B9000FD	H37WXXH2B9000FD

Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Non-locking	Locking
	4-way, 2-position, spring return	6.0	Single solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H3EWXBG323000FD	H3EWXBH323000FD
						External	H3EWXG323000FD	H3EWXH323000FD
	4-way, 2-position, air return	6.0	Single solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H31WXBG323000FD	H31WXBH323000FD
						External	H31WXXG323000FD	H31WXXH323000FD
	4-way, 2-position	6.0	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H32WXBG323000FD	H32WXBH323000FD
						External	H32WXXG323000FD	H32WXXH323000FD
	4-way, 3-position, all ports blocked	5.0	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H35WXBG323000FD	H35WXBH323000FD
						External	H35WXXG323000FD	H35WXXH323000FD
	4-way, 3-position, center exhaust	5.0	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H36WXBG323000FD	H36WXBH323000FD
						External	H36WXXG323000FD	H36WXXH323000FD
	4-way, 3-position, pressure center	5.0	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	H37WXBG323000FD	H37WXBH323000FD
						External	H37WXXG323000FD	H37WXXH323000FD

5599-1, Non Plug-in, Size 3 (H3) with 3-Pin DIN Connectors

Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
	4-way, 2-position, spring return	6.0	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	H3EWXBBL49D	H3EWXBCL49D
						External	H3EWXBL49D	H3EWXCL49D
	4-way, 2-position, air return	6.0	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	H31WXBBL49D	H31WXBCL49D
						External	H31WXXBL49D	H31WXXCL49D
	4-way, 2-position	6.0	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H32WXBBL49D	H32WXBCL49D
						External	H32WXXBL49D	H32WXXCL49D
	4-way, 3-position, all ports blocked	5.0	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H35WXBBL49D	H35WXBCL49D
						External	H35WXXBL49D	H35WXXCL49D
	4-way, 3-position, center exhaust	5.0	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H36WXBBL49D	H36WXBCL49D
						External	H36WXXBL49D	H36WXXCL49D
	4-way, 3-position, pressure center	5.0	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H37WXBBL49D	H37WXBCL49D
						External	H37WXXBL49D	H37WXXCL49D



Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

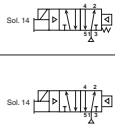
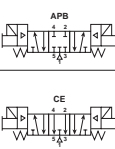
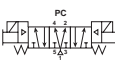
DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products





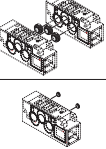
5599-1, Non Plug-in, Size 3 (H3) with 3-Pin DIN Connectors

	Symbol	Type	Cv	Operator	Voltage		Pilot	Non-locking	Locking
Modulflex Series		4-way, 2-position, spring return	6.0	Single solenoid	120 VAC	3-pin DIN connector on coil	Internal	H3EWXBBL53D	H3EWXBCL53D
		4-way, 2-position, air return	6.0	Single solenoid	120 VAC	3-pin DIN connector on coil	External	H3EWXXBBL53D	H3EWXXCL53D
		4-way, 2-position	6.0	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	H32WXBBL53D	H32WXBCL53D
Isys Micro Series		4-way, 3-position, all ports blocked	5.0	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	H35WXBBL53D	H35WXBCL53D
		4-way, 3-position, center exhaust	5.0	Double solenoid	120 VAC	3-pin DIN connector on coil	External	H35WXXBBL53D	H35WXXCL53D
		4-way, 3-position, pressure center	5.0	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	H37WXBBL53D	H37WXBCL53D
Isys ISO Series		4-way, 3-position, center exhaust	5.0	Double solenoid	120 VAC	3-pin DIN connector on coil	External	H36WXBBL53D	H36WXBCL53D
		4-way, 3-position, pressure center	5.0	Double solenoid	120 VAC	3-pin DIN connector on coil	External	H37WXXBBL53D	H37WXXCL53D

5599-1, Non Plug-in, Size 3 (H3)

	Description	3/4" NPT	3/4" BSPP
Fieldbus Series	Single subbase		
	Side ported base	PS4211190CP	PS4211180CP
DX ISOMAX Series	Manifold bases		
	Bottom / End ported bases Note: Manifolds include 2 pipe plugs	PS4211690CP	PS4211600CP
Valvair II Series	End plate kits		
	H3 Non-collective wiring end plates	PS4231010CP	PS4231011CP

5599-1, Non Plug-in, Size 3 (H3) Accessories

Accessory	Description	Part number
	Common pressure	5-125 PSIG w/ gauge PS4237166CP
	Independent pressure	5-125 PSIG w/ gauge PS4237266CP
	Blanking plate kit	PS4234CP
	Sandwich flow control	PS4242CP
	Manifold to manifold gasket kits	PS4213P
	Main galley (1, 3, 5)	PS4232CP
	Pilot galley	PS4033CP

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

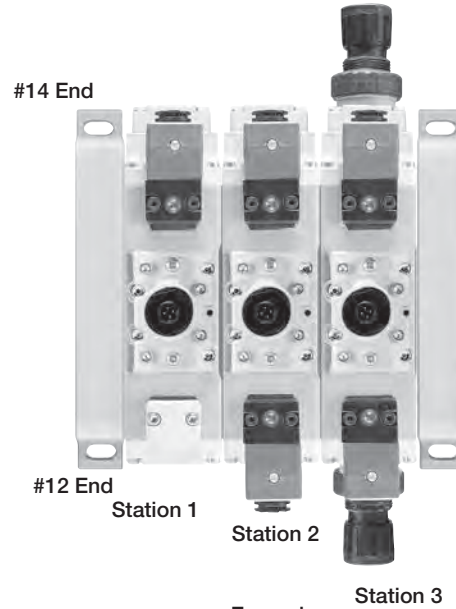
1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List complete Valve, Regulator, Flow Control and Base model number. List left to right, LOOKING AT THE CYLINDER PORTS on the #12 end of the manifold. The left most station is station 1. (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)

Example

Application requires a 3-Station manifold with a valve and regulator on Station 3.

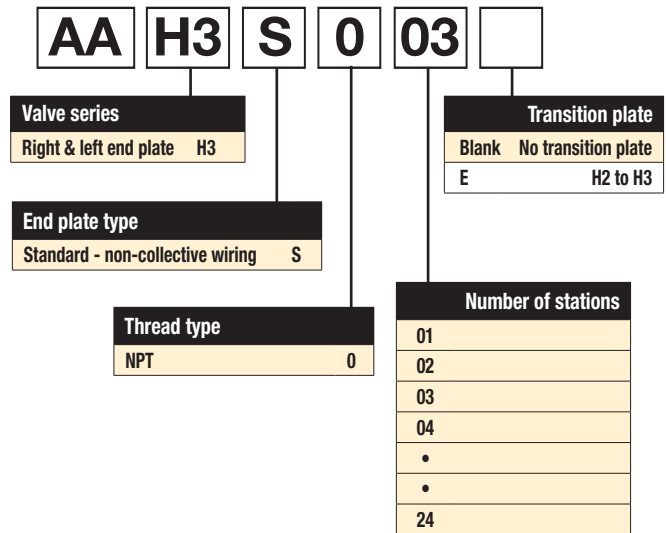
Item	Qty.	Part No.	Location
01	1	AAH3S003	
02	1	H31WXBG2B9000FD	Station 1
03	1	PS4211590CP	Station 1
04	1	H32WXBG2B9000FD	Station 2
05	1	PS4211590CP	Station 2
06	1	H32WXXG2B9000FD	Station 3
07	1	PS4237166CP	Station 3
08	1	PS4211590CP	Station 3

NOTE: Construct manifold assemblies from left to right while looking at the cylinder ports.
 Valves must be ordered as External Pilot when using Sandwich Regulator.

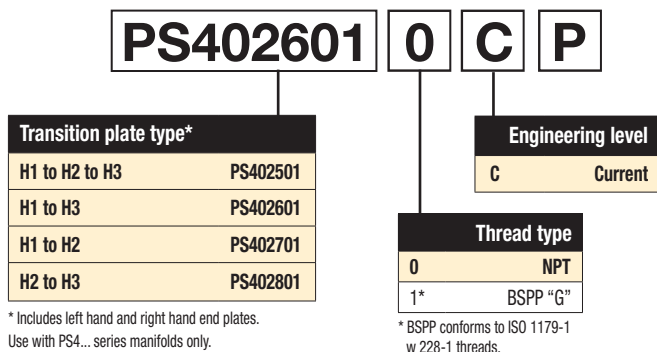


Example:
 3-Station Manifold with (3) H3 Valves
 on Manifold Bases and Regulator at Station 3

Add-A-Fold Assembly Model Number



5599-1 Non Plug-in Transition Plate Kits



* Includes left hand and right hand end plates.
 Use with PS4... series manifolds only.

* BSPP conforms to ISO 1179-1
 w 228-1 threads.



Non Plug-in, 5599-1, Central Connector - Size 1, 2, & 3

Modulflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products

H1 E WX B G 2B9 000F D

Basic series 5599-1	
ISO 5599-1 Size 1	H1
ISO 5599-1 Size 2	H2
ISO 5599-1 Size 3	H3

5599 -1 Engineering level	
D	Current

5599-1 Operator / Function	
Single solenoid, 2-position - air return	1
Double solenoid, 2-position	2
Double solenoid, 3-position - APB	5
Double solenoid, 3-position - CE	6
Double solenoid, 3-position - PC	7
Single solenoid, 2-position - air return, spring assist	E

5599-1 Central connector wiring options	
000C	Chrysler
000F*	SAE / Ford, ISO 20401
000G	General Motors

* Complies to ISO 20401 with Enclosure Lead Length "2".

5599-1 Mounting	
Valve less base	WX

5599-1 Pilot source / Pilot exhaust	
Internal pilot, port #1 / vented	B
External pilot, port #12 or #14 / vented	X*

* Must be specified when using Sandwich Regulators.

5599-1 Overrides / Lights	
Non-locking, flush, with light	G
Locking, flush, with light	H

Enclosure / Lead length / Voltage*				
	AC		DC	
	60Hz	50Hz		
1B9 [†]			24	3-pin, central mini connector
123 [†]	120	115		3-pin, central mini connector
2B9			24	4-pin, central M12 connector
3B9			24	5-pin, central mini connector
323	120	115		5-pin, central mini connector
619 [†]			24	2-pin, M12 connector on coil

* All coils include LED & suppression

[†] Operator function "1" or "E"

* Only available with wiring option "000F"

Non Plug-in, 5599-1, CNOMO - Size 1, 2, & 3

H1 E WX B B L53 D

Basic series 5599-1	
ISO 5599-1 Size 1	H1
ISO 5599-1 Size 2	H2
ISO 5599-1 Size 3	H3

5599-1 Engineering level	
D	Current

5599-1 Operator / Function	
Single solenoid, 2-position - air return	1
Double solenoid, 2-position	2
Double solenoid, 3-position - APB	5
Double solenoid, 3-position - CE	6
Double solenoid, 3-position - PC	7
Single solenoid, 2-position - air return, spring assist	E

Enclosure / Lead length / Voltage				
	AC		DC	
	60Hz	50Hz		
L42	24			3-pin, 30mm DIN 43650A with CNOMO connector
L45			12	3-pin, 30mm DIN 43650A with CNOMO connector
L49			24	3-pin, 30mm DIN 43650A with CNOMO connector
L53	120	115		3-pin, 30mm DIN 43650A with CNOMO connector
L57	240			3-pin, 30mm DIN 43650A with CNOMO connector
NXX				Valve less coil

5599-1 Mounting	
Valve less base	WX

5599-1 Pilot source / Pilot exhaust	
Internal pilot, port #1 / vented	B
External pilot, port #12 or #14 / vented	X*

* Must be specified when using Sandwich Regulators.

5599-1 Overrides / Lights	
B	Non-locking, flush, push - no light
C	Locking, flush, push / turn - no light

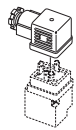
Maximum Number of Solenoids
 (Maximum energized simultaneously)

HA & HB	Voltage code	25-pin D-sub	19-pin Brad Harrison	12-Pin M23	19-pin M23	Moduflex	Isysnet	Turck	
								16 Outputs	32 Outputs
24VDC	G9	24 (24)	16 (16)	8 (8)	16 (16)	16 (16)	32 (32)	16 (16)	32 (32)
120VAC*	23	24 (24)	16 (16)	8 (8)	16 (16)	N/A	N/A	N/A	N/A

H1, H2 & H3	Voltage code	25-pin D-sub	19-pin Brad Harrison	12-Pin M23	19-pin M23	Moduflex	Isysnet	Turck	
								16 Outputs	32 Outputs
12VDC	45	24 (13)	16 (13)	8 (8)	16 (13)	N/A	N/A	N/A	N/A
24VAC*	42	24 (24)	16 (16)	8 (8)	16 (16)	N/A	N/A	N/A	N/A
24VDC	B9	24 (20)	16 (16)	8 (8)	16 (16)	16 (16)	24 (21)	16 (16)	24 (21)
120VAC*	23	24 (24)	16 (16)	8 (8)	16 (16)	N/A	N/A	N/A	N/A

* Not CSA certified for 25-pin, D-sub option.

Female Electrical Connectors (IP65 Rated) 30mm, 3-Pin ISO 4400, (DIN 43650A)



Description	Connector with 6' (2m) cord	Connector
Unlighted	PS2028JCP	PS2028BP
Light – 6-48V, 50/60Hz; 6-48VDC	PS2032J79CP*	PS203279BP
Light – 120V/60Hz	PS2032J83CP*	PS203283BP
Light – 240V/60Hz	N/A	PS203283BP

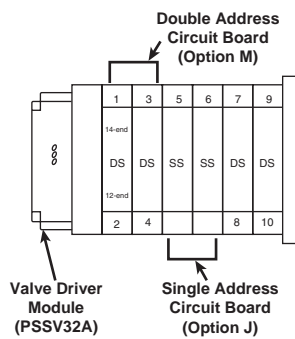
* With surge suppression.

Engineering data:

Conductors: 2 poles plus ground; cable range (connector only): 8 to 10mm (0.31 To 0.39 inch); Contact spacing: 18mm

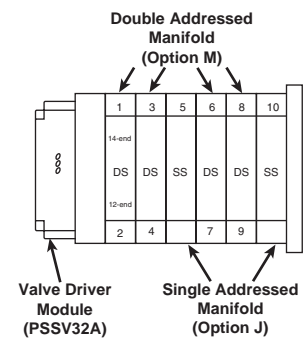
I/O Addressing Examples

HB & HA Example
 Two Station Manifold Bases



Notes: SS = Single Solenoid Valve
 DS = Double Solenoid Valve
 First output address the #14 end of the valve closest to the valve driver module.

H1, H2 & H3 Example:
 Single Station Manifold Bases



5599-2 & 5599-1 AUTO Solenoid Kits

Valve size	Voltage code	Coil kit number
H1, H2 & H3	42 (24VAC)	PS404142P
	45 (12VDC)	PS404145P
	B9 (24VDC)	PS4041B9P
H1, H2 & H3	23 (120VAC)	PS404123P
	57 (240VAC)	PS404157P

Quantity 1

5599-1 CNOMO Solenoid Kits

Voltage code	3-pin, 30mm 'L' coil kit	2-pin, M12 Euro '6' coil kit
19	—	PS2828619P
42	P2FCA442	—
45	P2FCA445	—
49	P2FCA449	—
53	P2FCA453	—
57	P2FCA457	—

Quantity 1



Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Pilot Operator - CNOMO

Valve size		Kit number
H1, H2 & H3	Locking	PS4052CP
	Non-locking	PS4053CP

Manifold Hardware Kits – PS Series

Valve size	Kit number
HA & HB	PS5612P
	PS5512P
	PS4012P
H1, H2 & H3	PS4112P
	PS4212P

Quantity 12

Valve Bolt Kits

Valve size	Kit number
HA & HB	PS5687P
	PS5587P
	PS4087DP
H1, H2 & H3	PS4187DP
	PS4287DP

Quantity 12

Valve to Base Gasket Kits

Valve size	Standard	Remote pilot	Dual pressure #3	Dual pressure #5
HA & HB	PS5605P*	—	—	—
	PS5505P*	—	—	—
H1, H2 & H3	PS4005DP	PS4006DP	PS40D3DP	—
	PS4105DP	PS4106DP	PS41D3DP	PS41D5DP
	PS4205DP	PS4206DP	PS42D3DP	PS42D5DP

Quantity 1
 * Quantity 10

Body Service Kits



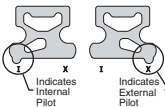
Valve size	2-position	3-position		
		APB	CE	PC
HA & HB	PS5601P	PS5602P	PS5603P	PS5604P
	PS5501P	PS5502P	PS5503P	PS5504P
H1, H2 & H3	PS4001CP	PS4002CP	PS4003CP	PS4004CP
	PS4101CP	PS4102CP	PS4103CP	PS4104CP
	PS4201CP	PS4202CP	PS4203CP	PS4204CP

HB / HA Kit Includes: Spool assembly with seals.

H1, H2, H3 Kit Includes: Spool assembly with seals, all piston seals, return spring, pilot selector gasket, coil to end cap gasket.

Quantity 1

Pilot Select Gasket Kits

	Valve size	Kit number
	HB	PS5605P
	HA	PS5505P
	H1, H2 & H3	PS4007P

Quantity 10

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

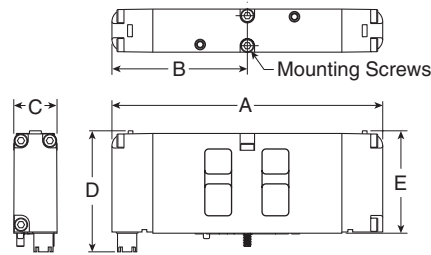
DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

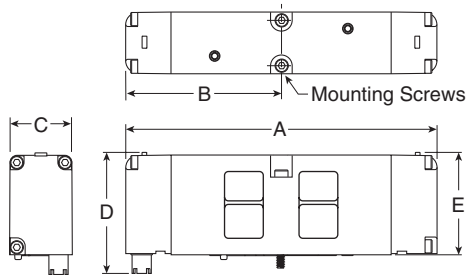
Isys ISO 15407-2, Plug-in, Size 18mm (HB)



18mm Dimensions

A	B	C	D
4.43 (113)	2.22 (56)	.72 (18)	1.98 (50)
E			
1.68 (43)			
Inches (mm)			

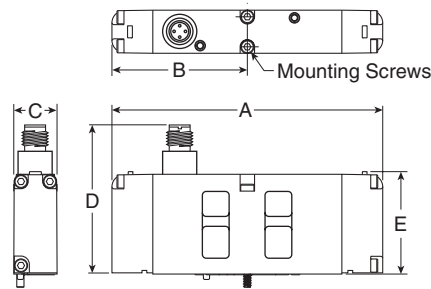
Isys ISO 15407-2, Plug-in, Size 26mm (HA)



26mm Dimensions

A	B	C	D
5.10 (130)	2.55 (65)	1.02 (26)	1.98 (50)
E			
1.66 (42)			
Inches (mm)			

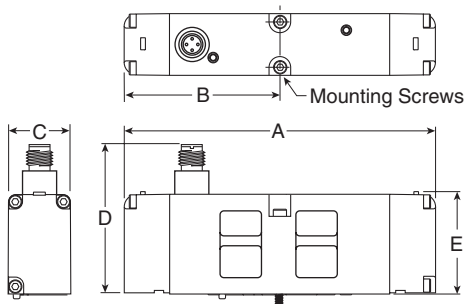
Isys ISO 15407-1, Non Plug-in, Size 18mm (HB)



18mm Dimensions

A	B	C	D
4.43 (113)	2.22 (56)	.72 (18)	2.40 (61)
E			
1.68 (43)			
Inches (mm)			

Isys ISO 15407-1, Non Plug-in, Size 26mm (HA)



26mm Dimensions

A	B	C	D
5.10 (130)	2.55 (65)	1.02 (26)	2.40 (61)
E			
1.66 (42)			
Inches (mm)			

Modulflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus

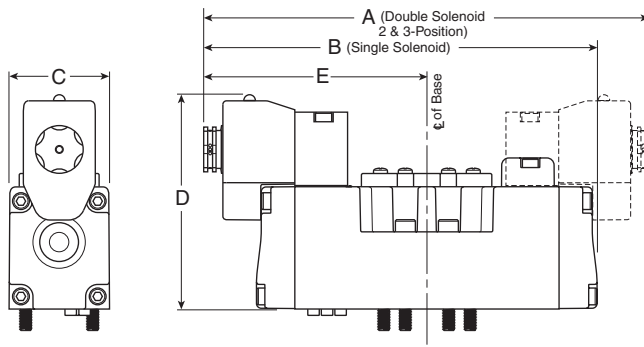
DX ISOMAX
Series

Valvair II
Series

D

Subbase & Manifold
Valve Products

Isys ISO 5599-2



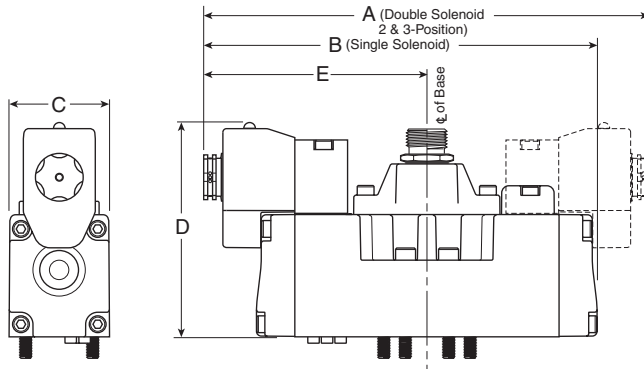
H1 Valves Shown

H1 Dimensions

A	A ₁	B	C
7.32 (186)	5.59 (142)	6.46 (164)	1.65 (42)
D	D ₁	D ₂	D ₃
3.54 (90)	4.29 (109)	4.29 (109)	2.50 (63.5)
D ₄	E	E ₁	
2.48 (63)	3.66 (93)	2.80 (71)	

Inches (mm)

Isys ISO 5599-1 Auto

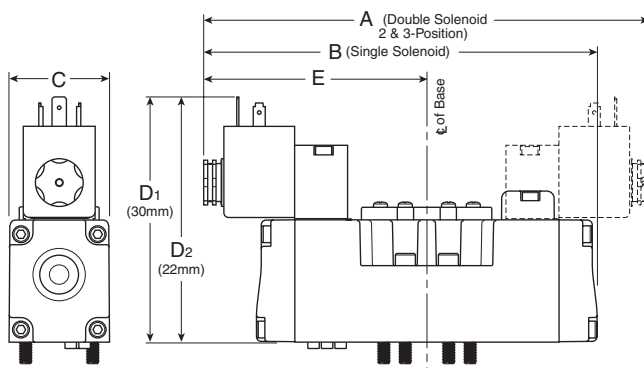


H2 Dimensions

A	A ₁	B	C
8.35 (212)	6.62 (168)	7.48 (190)	2.17 (55)
D	D ₁	D ₂	D ₃
4.05 (103)	4.80 (122)	4.57 (116)	2.99 (76)
E	E ₁		
4.17 (106)	3.31 (84)		

Inches (mm)

Isys ISO 5599-1 CNOMO

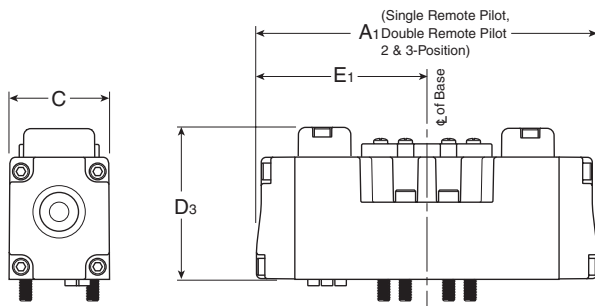


H3 Dimensions

A	A ₁	B	C
9.68 (246)	6.98 (177)	8.68 (220)	2.17 (55)
D	D ₁	D ₂	D ₃
4.05 (103)	4.80 (122)	4.57 (116)	2.99 (76)
E	E ₁		
4.74 (121)	3.49 (89)		

Inches (mm)

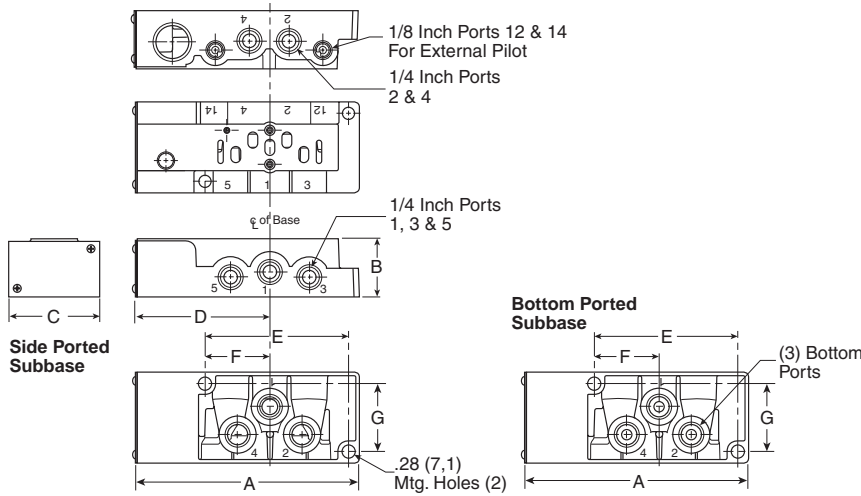
Isys ISO 5599-2 / 5599-1 Remote Pilot



Modulflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus Series
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products



Isys ISO 15407-2 & 15407-1 Size 26mm (HA), Plug-in Subbases

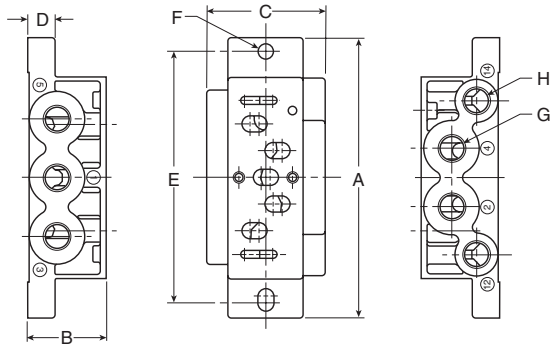


HA Dimensions

A	B	C	D
4.88 (124)	1.28 (32.5)	2.00 (50.8)	2.91 (74)
E	F	G	
1.43 (36.2)	3.16 (80.2)	1.49 (37.9)	

Inches (mm)

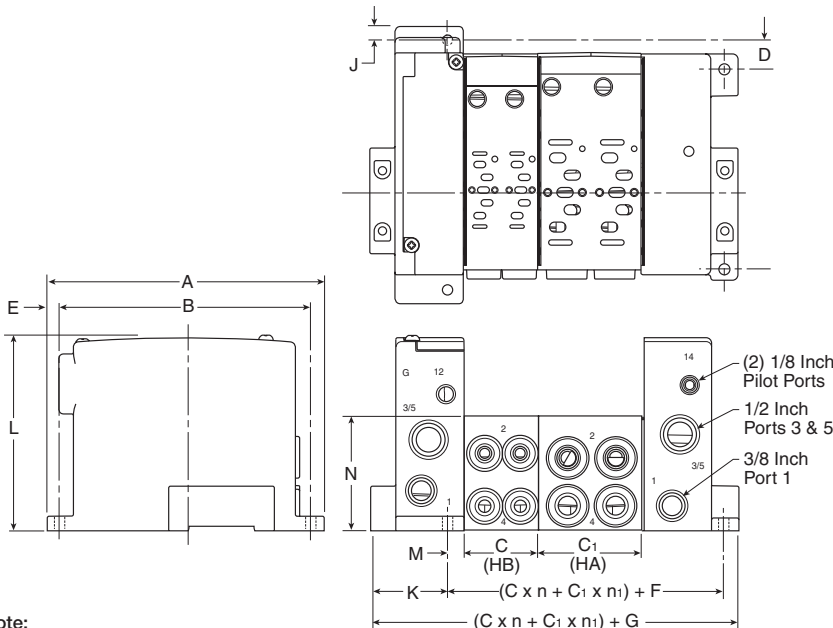
Isys ISO Size 18mm (HB) & 26mm (HA), Non-Plug-in Compact Subbase



Series	Part number	A	B	C	D	E	F	G	H
HB	PL02	3.15 (80)	.87 (22)	1.06 (27)	.31 (8)	2.76 (70)	.216 Dia. (Ø 5.5)	1/8	M5
HA	PL01	3.94 (100)	1.10 (28)	1.65 (42)	.39 (10)	3.54 (90)	.216 Dia. (Ø 5.5)	1/4	1/8

Inches (mm)

Isys ISO 15407-2 & 15407-1 Size 18mm (HB) & 26mm (HA), PS5611 & PS5511 Manifolds



HB & HA Dimensions

A	B	C	C ₁	D	E
5.98 (152)	5.39 (137)	1.61 (40.8)	2.24 (56.8)	.63 (16)	.30 (7.5)
F	G	H	J	K	L
2.14 (54.4)	4.12 (104.6)	4.32 (109.8)	.15 (4)	1.68 (42.7)	4.17 (106)
M	N				
.33 (8.4)	2.48 (63)				

Inches (mm)

Note:
 See Fieldbus Section for the dimensions of manifolds utilizing the Isysnet, Turck, or Moduflex end plate type.

n = Number of HB Bases C = HB Series
 n₁ = Number of HA Bases C₁ = HA Series



Moduflex Series

Isys Micro Series

Isys ISO Series

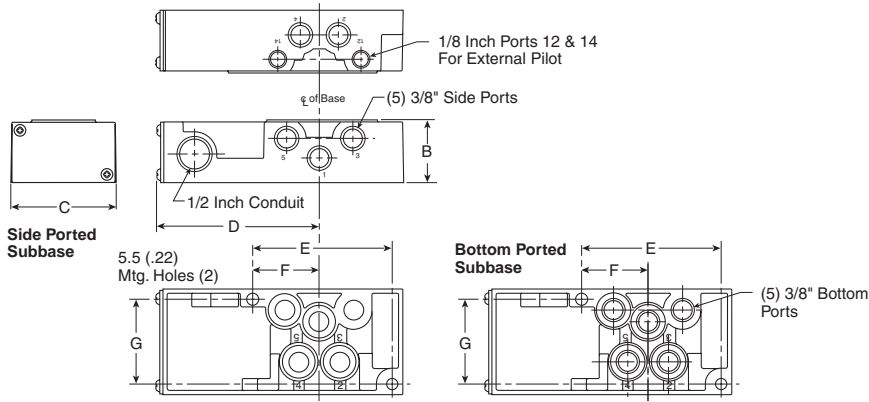
Fieldbus

DX ISOMAX Series

Valvair II Series

D
 Subbase & Manifold Valve Products

Isys ISO 5599-1 Size H1, PS4011 Subbase



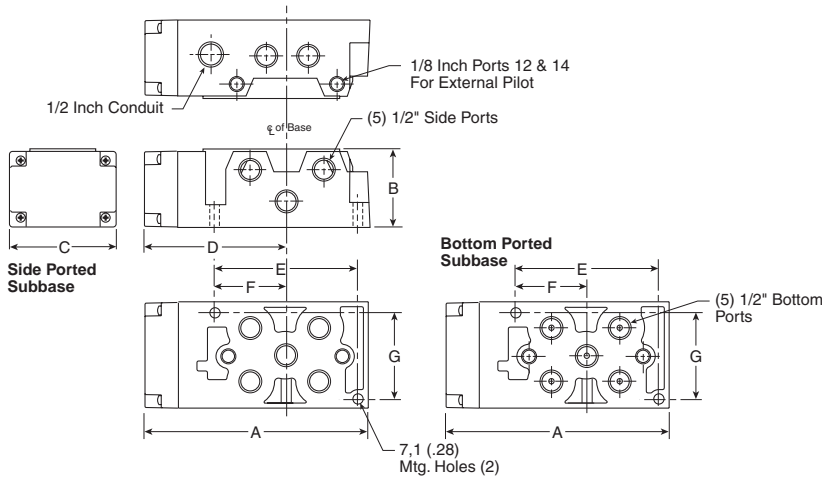
PS4011 Subbase Dimensions

A	B	C	D
5.83	1.48	2.50	3.86
(148)	(38)	(64)	(98)

E	F	G
3.29	1.57	2.00
(84)	(40)	(51)

Inches (mm)

Isys ISO 5599-1 Size H2, PS4111 Subbase



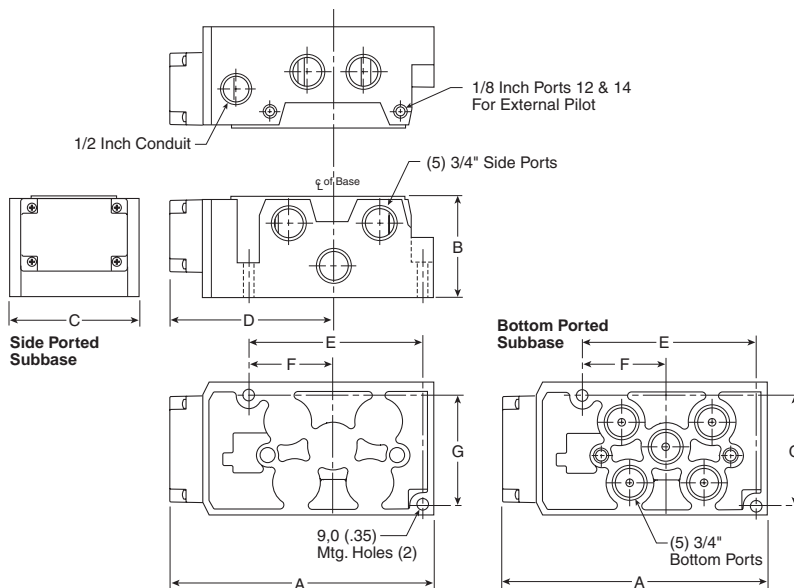
PS4111 Subbase Dimensions

A	B	C	D
6.69	2.33	3.15	4.25
(170)	(59)	(80)	(108)

E	F	G
4.21	2.07	2.56
(107)	(52)	(65)

Inches (mm)

Isys ISO 5599-1 Size H3, PS4211 Subbase



PS4211 Subbase Dimensions

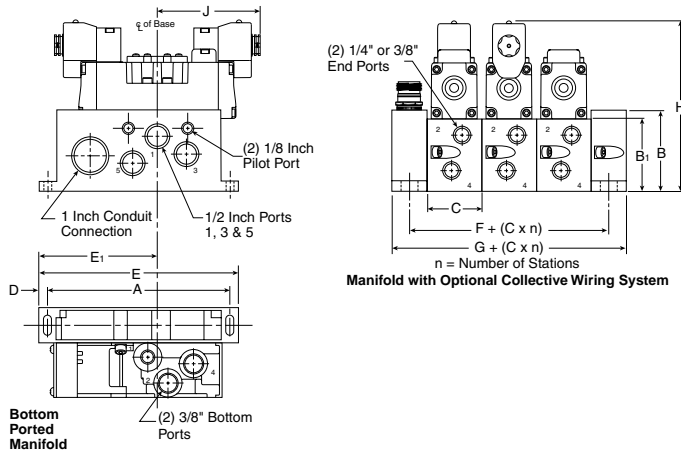
A	B	C	D
7.90	2.96	3.90	4.92
(201)	(75)	(99)	(125)

E	F	G
5.14	2.50	3.24
(131)	(64)	(82)

Inches (mm)

- Modulflex Series
- Isys Micro Series
- Isys ISO Series
- Fieldbus Series
- DX ISOMAX Series
- Valvair II Series
- D** Subbase & Manifold Valve Products

Isys ISO 5599 Size H1, PS4011 Manifold

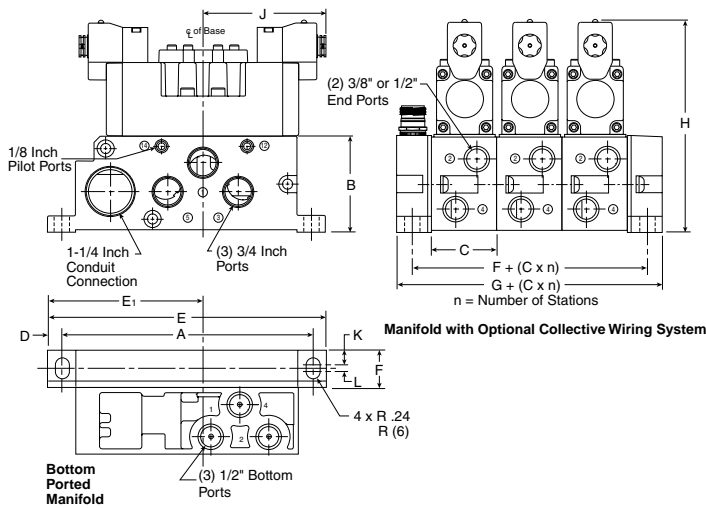


PS4011 Manifold Dimensions

A	B	B ₁	C	D
6.50 (165)	2.87 (73)	2.64 (67)	1.96 (50)	.33 (8)
E	E ₁	F	G	H
7.15 (182)	4.25 (108)	1.25 (32)	2.50 (63.5)	6.18 (157)
J	3.66 (93)			

Inches (mm)

Isys ISO 5599 Size H2, PS4111 Manifold

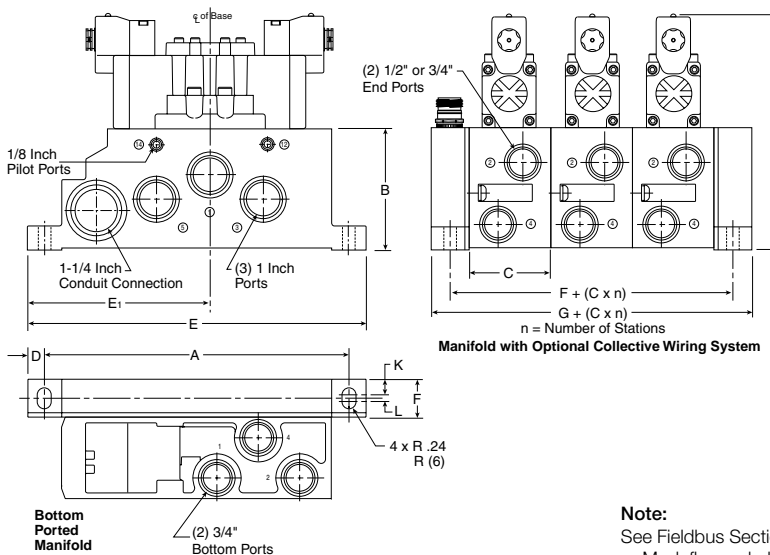


PS4111 Manifold Dimensions

A	B	C	D	E
8.46 (215)	3.35 (85)	2.20 (56)	.47 (12)	9.41 (239)
E ₁	F	G	H	J
5.28 (134)	1.26 (32)	2.60 (63)	7.40 (188)	4.17 (106)
K	L			
.65 (16.5)	.24 (6)			

Inches (mm)

Isys ISO 5599 Size H3, PS4211 Manifold



PS4211 Manifold Dimensions

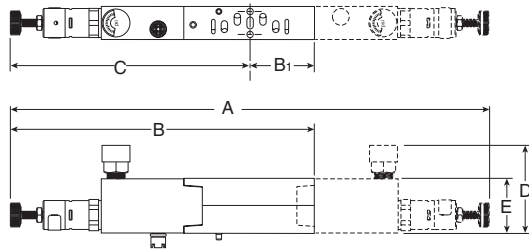
A	B	C	D	E
10.41 (265)	4.13 (105)	2.80 (71)	.59 (15)	11.61 (295)
E ₁	F	G	H	
6.26 (159)	1.30 (33)	2.60 (63)	8.19 (208)	
K	L			
.53 (13.5)	.24 (6)			

Inches (mm)

Note:

See Fieldbus Section for the dimensions of manifolds utilizing the Isysnet, Turck, or Modflex end plate type.

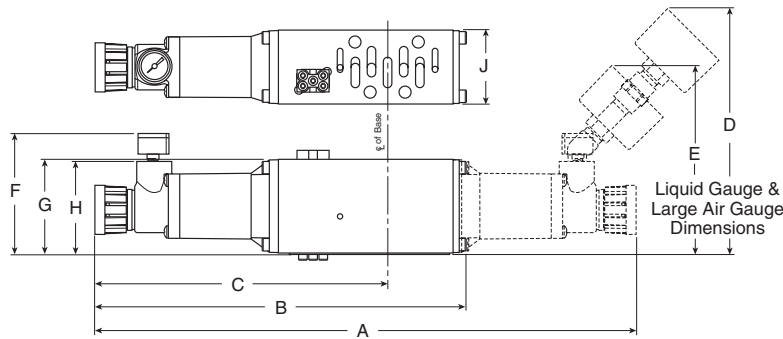
Isys ISO 15407 Sandwich Regulator



Series	Part number	A	B	B1	C	D	E
HB	PS5637	10.28 (261)	6.14 (156)	1.02 (26)	5.13 (130)	2.60 (66)	1.18 (30)
HA	PS5537	10.00 (254)	6.42 (163)	1.42 (36)	5.00 (127)	2.72 (69)	1.18 (30)

Inches (mm)

Isys ISO 5599, Size H1 Sandwich Regulator

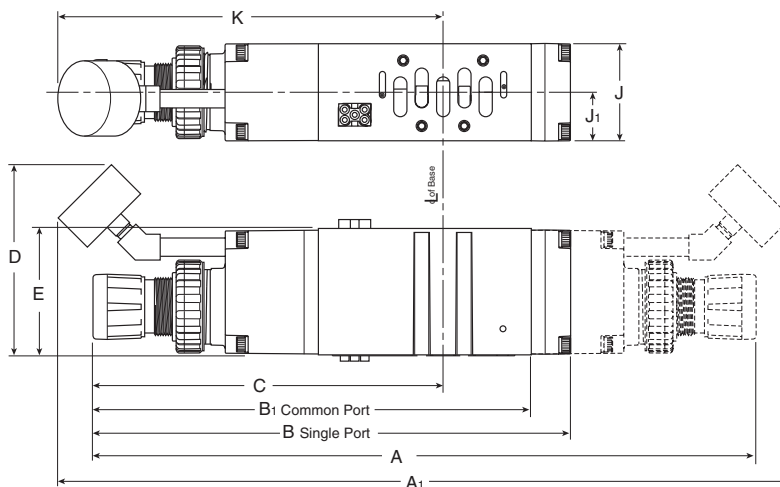


Series	Part number	A	B	C	D	E	F	G	H	J
H1	PS4037	11.84	8.13	6.40	5.45	4.25	2.85	2.09	2.05	1.63
	PS4038	(301)	(207)	(163)	(138)	(108)	(72)	(53)	(52)	(41)

Inches (mm)

Isys ISO 5599, Size H2 & H3 Sandwich Regulator

H2 Sandwich Regulator Shown

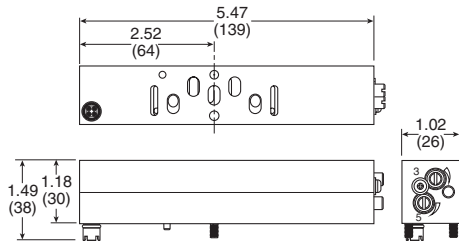


Series	Part number	A	A1	B	B1	C	D	E	J	J1	K
H2	PS4137	14.65	16.18	10.56	9.84	7.71	4.20	2.80	2.15	1.07	8.50
	PS4138	(372)	(411)	(268)	(250)	(196)	(107)	(71)	(55)	(27)	(216)
H3	PS4237	15.67	17.15	11.53	10.67	8.37	4.20	2.93	2.50	1.25	9.10
	PS4238	(398)	(436)	(293)	(271)	(213)	(107)	(75)	(64)	(32)	(231)

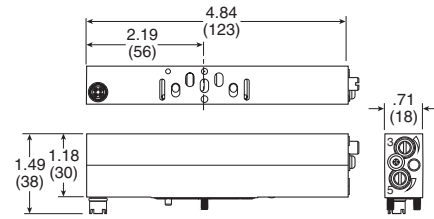
Inches (mm)

Isys ISO 15407, Size 18mm (HB) & 26mm (HA), Flow Control

HA Flow Control

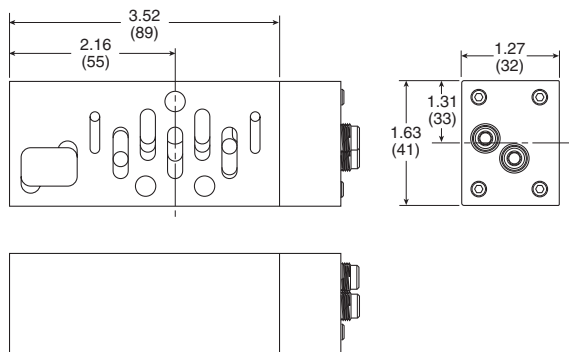


HB Flow Control

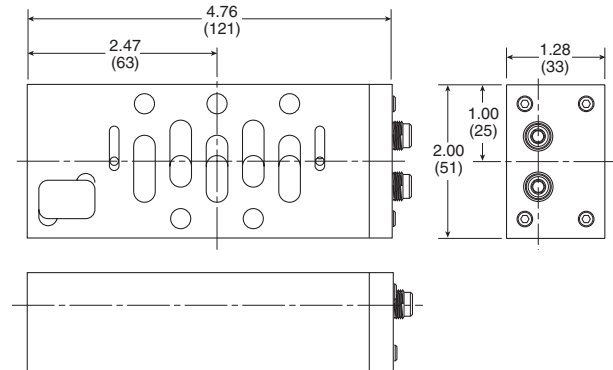


Isys ISO 5599, Size H1, H2 & H3, Flow Control

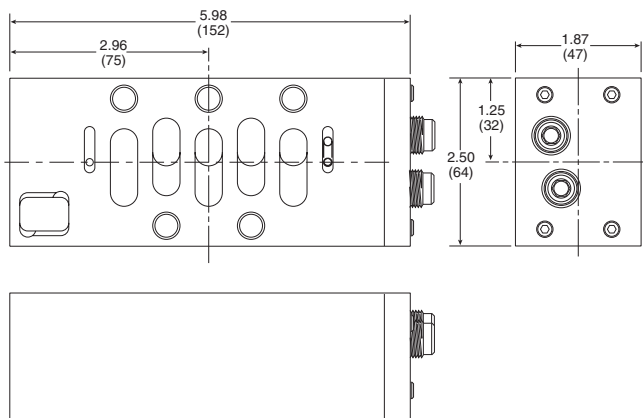
H1 Flow Control



H2 Flow Control



H3 Flow Control



Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Fieldbus Systems

Fieldbus Offering

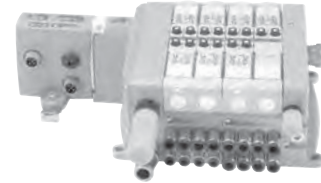
Valve series	Moduflex	Isysnet	Turck
Moduflex	X		
Isys Micro	X	X	X
Isys ISO	X	X	X

Protocol	Moduflex	Isysnet	Turck
DeviceNet	X	X	X
Ethernet/IP		X	X
Profibus-DP	X	X	X
Profinet			X
Modbus/TCP			X
AS-i	X		
CANopen	X		X
Interbus-S	X		
ControlNet		X	

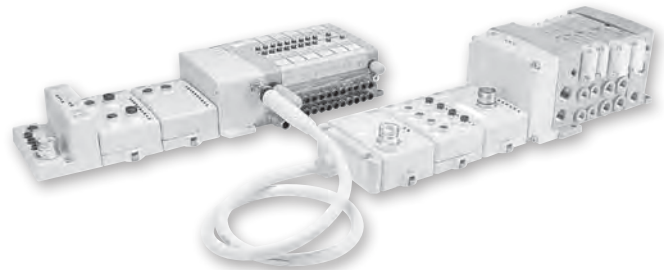
Options	Moduflex	Isysnet	Turck
Digital inputs / outputs*		X	X
Analog inputs / outputs		X	X
16 Solenoid control*	X		X
32 Solenoid control		X	X
Short circuit protection on inputs			X
Current sensing outputs			X
Bus expansion		X	
DeviceNet subnet			X
Programmable comm modules			X
Power over DeviceNet / CANopen			X
Preferred connectivity		X	
CANopen expansion			X

* Moduflex AS-i modules are available with 6 or 8 inputs and 6 or 8 solenoid outputs

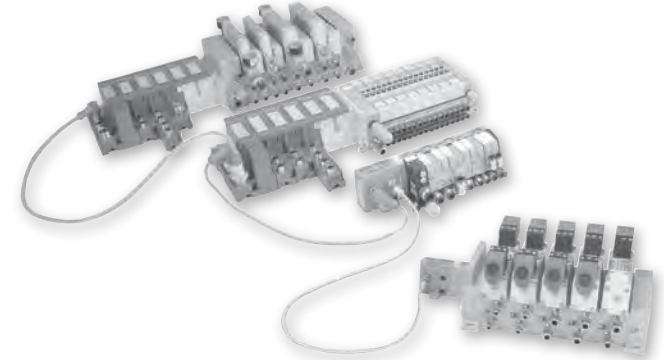
The Moduflex Fieldbus System



The Isysnet Fieldbus System



The Turck Fieldbus System



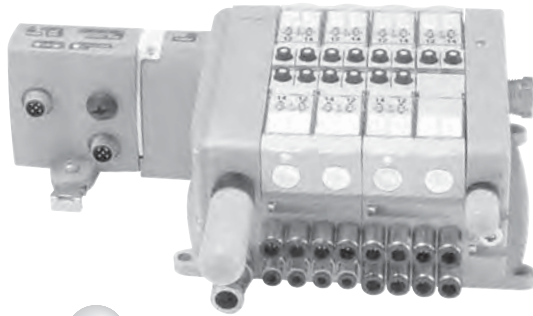
	Turck fieldbus	Isysnet	Moduflex
Solenoid control	Up to 32 solenoids on main valve manifold. Devicenet Subnet Allows an additional 32 solenoids per node 63 nodes maximum. CANopen expansion Allows an additional 64 solenoids per expansion 5 expansions maximum.	Up to 32 solenoids on main valve manifold Isys Micro Bus Expansion Allows an additional 32 solenoids per expansion 3 expansions maximum 1 meter fixed cable length per expansion	Up to 16 solenoids on main valve manifold
I/O capabilities	256 maximum inputs and outputs directly connected to communication module. Devicenet Subnet Allows an additional 256 I/O per node 63 nodes maximum Third party DeviceNet modules can be used CANopen expansion Allows an additional 64 I/O per expansion 5 expansions maximum Third party CANopen modules can be used	Maximum of 256 inputs and 256 outputs directly connected to the communication module, including Isys Micro Bus Expansion.	8 Inputs available on AS-i communication only.
Short circuit protection	SXG and diagnostic electronic modules have each point isolated. All other electronic modules are isolated from the backplane.	Devices must be fused between input / output and electronic module.	

 Most popular.

Moduflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products

The Moduflex Fieldbus System

Moduflex communication modules directly attach to the end plate. It offers a compact and low cost fieldbus solution.



CANopen

INTERBUS-S



P2M2HBVA10808A



P2M2HBVA10808B

Standard AS-i Protocol (up to 31 nodes)
Communication module for 8 solenoids max.
(2 nodes per module, 4 inputs, 4 solenoids per node)

Input / Output capability	Weight (oz)	Part number
0 inputs and 8 solenoid outputs	5.29	P2M2HBVA10800
8 (PNP) inputs on eight (M8) connectors and 8 solenoid outputs	7.05	P2M2HBVA10808A
8 (PNP) inputs on four (M12) connectors and 8 solenoid outputs	7.05	P2M2HBVA10808B

Moduflex Features

- Small, compact product design
- Broad protocol offering, including DeviceNet, Profibus, AS-i, CANopen, and Interbus
- Channel-level diagnostics (LED and Electronic)
- Inputs available with AS-i modules
- Horizontal and vertical mounting without derating
- 5g vibration
- Quick-disconnects for I/O and network connectivity
- Built-in panel grounding
- CE certification

Protocol	Part number
Profibus DP	P2M2HBVP21600
DeviceNet	P2M2HBVD21600
CANopen	P2M2HBVC21600
InterBus-S	P2M2HBVS11600

Fieldbus Accessories

	Protocol	Connector type	Part number
Power supply	Profibus DP / InterBus-S /	M12 type A female	P8CS1205AA
Field wireable connector	DeviceNet / CANopen		
Line termination resistor	Profibus DP	M12 type B	P8BPA00MB
	DeviceNet / CANopen	M12 type A	P8BPA00MA

AS-i Version 2.1 Protocol (up to 62 nodes)
Communication module for 6 solenoids max.
(2 nodes per module, 4 inputs, 3 solenoids per node)

Input / Output capability	Weight (oz)	Part number
0 inputs and 6 solenoid outputs	5.29	P2M2HBVA20600
8 (PNP) inputs on eight (M8) connectors and 6 solenoid outputs	7.05	P2M2HBVA20608A
8 (PNP) inputs on four (M12) connectors and 6 solenoid outputs	7.05	P2M2HBVA20608B

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

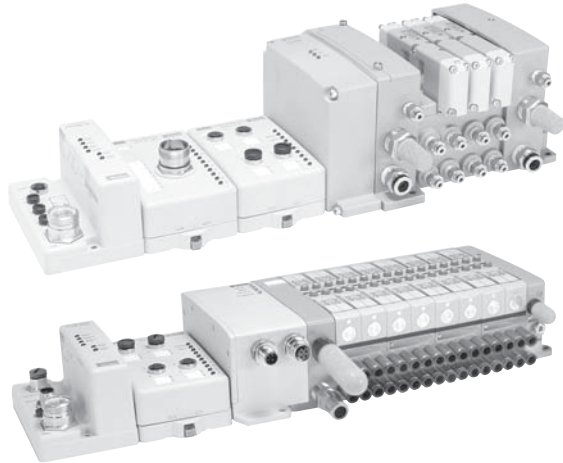
D

Subbase & Manifold Valve Products

The Isysnet System

Isysnet has four major components:

- Valve driver module provide control for 32 solenoids on a manifold, with bus extension providing connectivity to 3 more manifolds
- I/O modules provide the field interface, system-interface circuitry, and bases for mounting
- Communication modules provide the network-interface circuitry
- Power distribution module provide 5 additional power inputs to the Isysnet system



Isysnet Features

- Highly modular design (4pt – 16pt modularity)
- Broad application coverage
- Channel-level diagnostics (LED)
- Channel-level alarm and annunciation (electronic)
- Channel-level open-wire detection with electronic feedback
- Parameter-level explicit messaging
- Horizontal and vertical mounting without derating
- 5g vibration
- Electronic and mechanical keying
- Robust backplane design
- Quick-disconnects for I/O and network connectivity
- Built-in panel grounding
- Color-coded module labels
- UL, C-UL, and CE certifications (as marked)
- Highly reliable structural integrity
- Optical isolation between field and system circuits

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Communications Module



Protocol	Part number
DeviceNet™	PSSCDM18PA (7/8" Mini) or PSSCDM12A (M12)
ControlNet™	PSSCCNA
EtherNet I/P™	PSSCENA
Profibus-DP®	PSSCPBA

PSSCENA

All Modules IP67 Certified
 EDS and GSD files located at www.parker.com/pneu/Isysnet

Digital Inputs






PSSN16M12A



PSSN8M8A


I/O modules	Voltage	Part number
16 digital inputs M12, 5-pin used with PNP sourcing input device	10 to 28.8VDC	PSSN16M12A
8 digital inputs M12, 5-pin used with PNP sourcing input device	10 to 28.8VDC	PSSN8M12A
8 digital inputs M12, 5-pin used with NPN sinking input device	10 to 28.8VDC	PSSP8M12A
8 digital inputs M8, 3-pin used with PNP sourcing input device	10 to 28.8VDC	PSSN8M8A
8 digital inputs M23, 12-pin used with PNP sourcing input device	10 to 28.8VDC	PSSN8M23A

Digital Outputs

	I/O modules	Voltage	Part number
 PSST16D25A	16 digital outputs M23, 19-pin used with PNP sourcing outputs	10 to 28.8VDC	PSST16M23A
	16 digital outputs D-sub, 25-pin used with PNP sourcing outputs	10 to 28.8VDC	PSST16D25A
 PSST16M12A	16 digital outputs M12, 5-pin used with PNP sourcing outputs	10 to 28.8VDC	PSST16M12A
	8 digital outputs M12, 5-pin used with PNP sourcing outputs	10 to 28.8VDC	PSST8M12A
 PSST8M12A	8 digital outputs M8, 3-pin used with PNP sourcing outputs	10 to 28.8VDC	PSST8M8A
	4 digital output, high watt relay M12, 5-pin used with PNP sourcing outputs (2 Amp)	24VDC	PSSTR4M12A
	8 digital outputs M23, 12-pin used with PNP sourcing outputs	10 to 28.8VDC	PSST8M23A


All modules IP67 certified
 See www.parker.com/pneu/Isysnet

Analog Inputs

	I/O modules	Voltage	Part number
 PSSNACM12A	2 Analog inputs voltage M12, 5-pin	-10 to 10VDC or 0 to 10VDC	PSSNAVM12A
	2 Analog inputs current M12, 5-pin	4 to 20mA or 0 to 20mA	PSSNACM12A


All modules IP67 certified
 See www.parker.com/pneu/Isysnet

Analog Outputs

	I/O modules	Voltage	Part number
 PSSTACM12A	2 Analog outputs voltage M12, 5-pin	0 to 10V ± 10V	PSSTAVM12A
	2 Analog outputs current M12, 5-pin	4 to 20mA or 0 to 20mA	PSSTACM12A

All modules IP67 certified
 See www.parker.com/pneu/Isysnet

Terminating Base Module

	Base module	Part number
	Termination base for stand alone units	PSSTERM

Used as the last terminating module for a stand alone isysnet assembly.

Power Extender Module

	Extender module	Part number
	24VDC field power module	PSSSE24A

A Power Extender Module must be used on every 14th Module in an Isysnet assembly. See www.parker.com/pneu/Isysnet

Modulflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus


DX ISOMAX
Series

Valvair II
Series

D

Subbase & Manifold
Valve Products


Bus Extender Cable

	Description	Voltage	Part number
	1 Meter Cable*	24VDC	PSSEXT1
	3 Meter Cable*	24VDC	PSSEXT3

* Requires a PSSSE24 Power Extender Module
 IP67 certified
 See www.parker.com/pneu/Isysnet

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Isys Micro Bus Extender Cable

	Description	Voltage	Part number
	1 Meter Cable*	24VDC	PSSVEXT1

* IP67 certified.

Isys Micro
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Isys ISO
Series

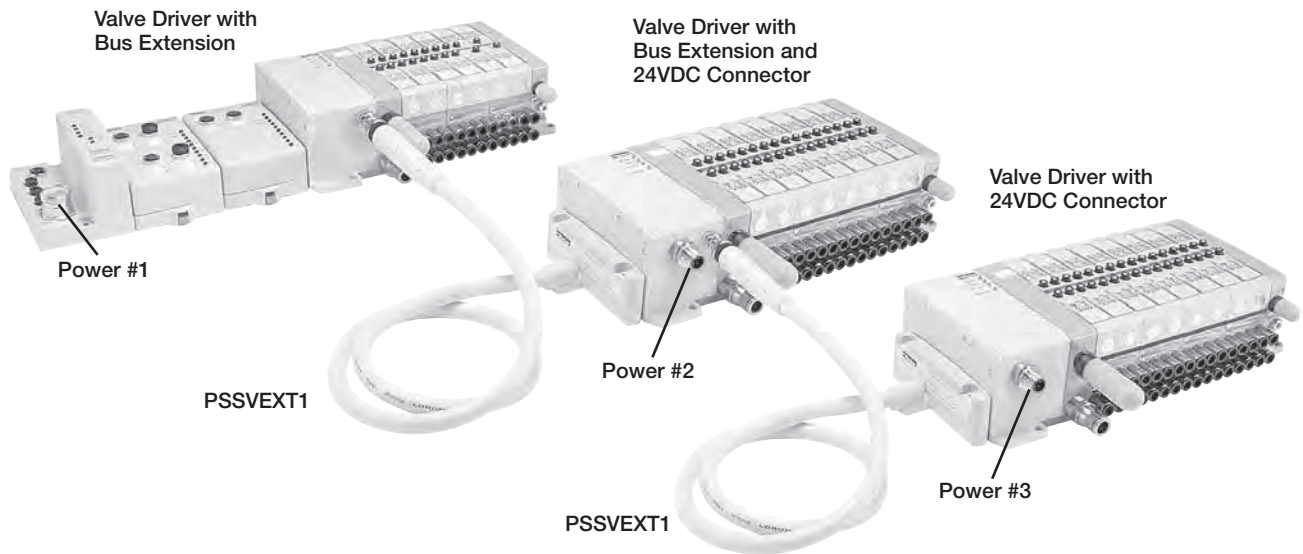
Example

Isys Micro with Bus Extension on Valve Driver Module – No additional I/O at the Extension

- Add up to three additional valve manifolds without adding another communication module.
- No PSSSE24A is needed on the Extension when the Valve Driver Module with 24VDC Connector is used.
- Commonly used when many valves are required.
- Bus expansion only available with Isys Micro valves.

DX ISOMAX
Series

Valvair II
Series



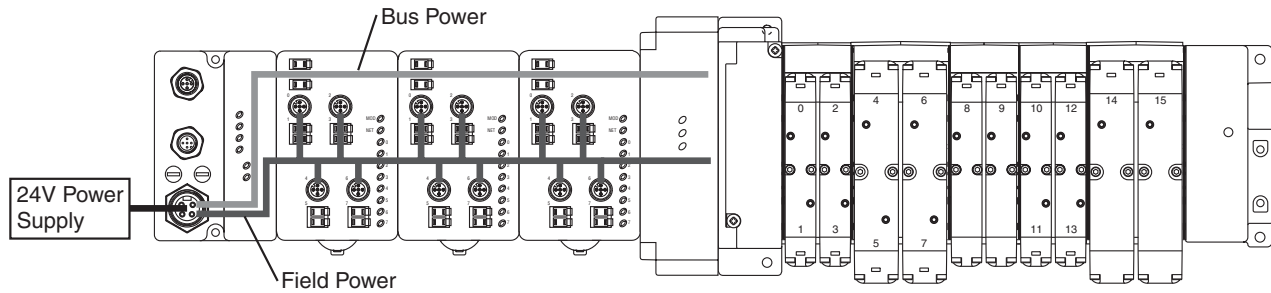
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Subbase & Manifold
Valve Products

Power Distribution Options for Isys ISO

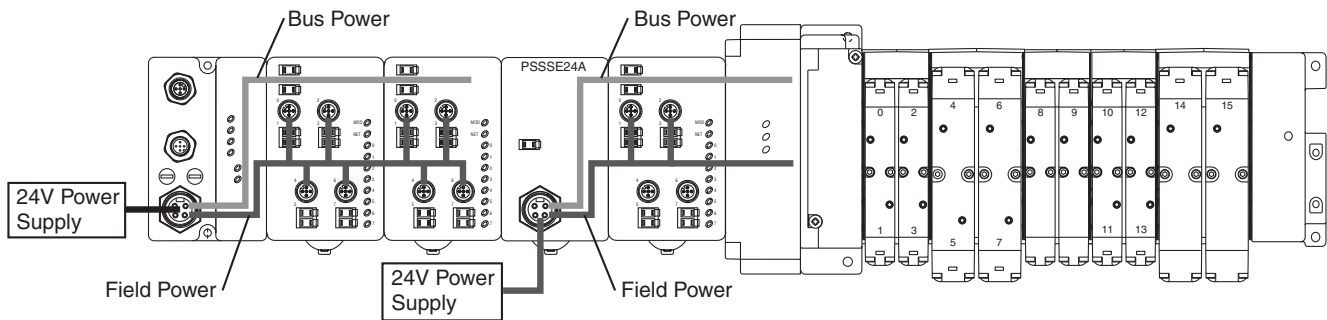
Isysnet Communication and I/O Modules

An auxiliary 24VDC power supply from the communication module provides power to the backplane bus power and I/O module field power. You can connect up to 13 I/O modules with a maximum of 10 A field power, using the auxiliary power.



Isysnet System with 24VDC Expansion Power Unit (PSSSE24A)

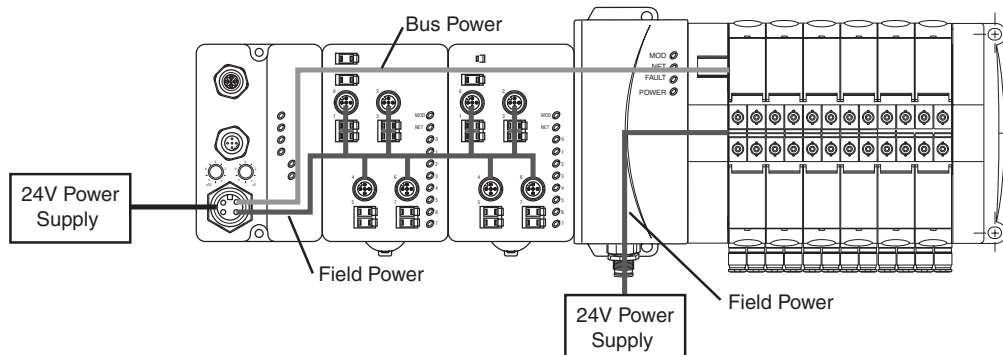
The auxiliary power from the communication module supports up to 13 I/O modules with a maximum of 10 A field power. The 24VDC Power Extender Module (PSSSE24A) extends the backplane bus power and I/O Module field power to support up to 13 more I/O modules. Connect additional Power Extender Modules to expand the I/O assembly up to the maximum of 63 I/O modules. This secondary 24VDC connector on the PSSSE24A can be wired into an Emergency Stop circuit.



Additional Power Distribution Options for Isys Micro

Isysnet Communication Module and Valve Driver Module with 24VDC Connector

The 24VDC power supply from the Communication Adaptor provides power to the backplane bus power and I/O module field power for up to 13 modules and an adapter with a maximum of 10 A Field Power. In this configuration, backplane bus power and I/O module field power are supplied to the input and output modules. The communication module only supplies backplane bus power to the Valve Driver Module, as the Isys Micro with 24VDC Connector separates the field power from the rest of the network. This secondary 24VDC Connector on the Valve Driver Module supplies Field Power to the valves, and can be wired into an Emergency Stop Circuit.



Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus Series

DX ISOMAX Series

Valvair II Series

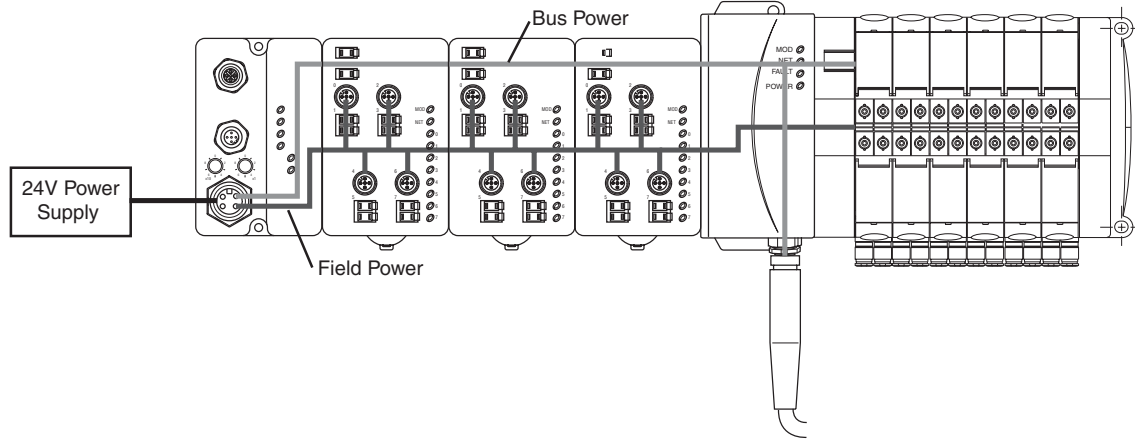
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Subbase & Manifold Valve Products

Power Distribution Options for Isys Micro (Continued)

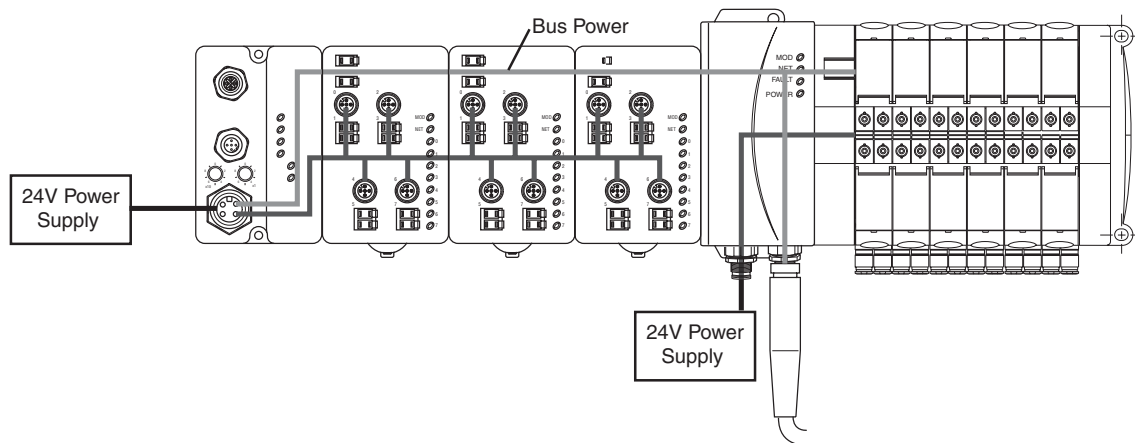
Isysnet Communication Module with Bus Extension Connector and I/O Modules

The 24VDC power supply from the communication module provides power to the backplane bus power and I/O module field power. You can connect up to 13 modules and an adapter with a maximum of 10 A field power, using this power source. The Isys Micro with Bus Extension Connector carries backplane bus power and communication down to another Isysnet Assembly through the PSSVEXT1 cable. If additional Isysnet Input and Output Modules or Isys ISO valve manifold is used on this extension, a PSSSE24A Power Extender Module is required to provide Field Power. If the extension is attached directly to an Isys Micro Manifold, Field Power can be supplied directly by using the 24VDC Connector option.



Isysnet Communication Module with 24VDC and Bus Extension Connectors and I/O Modules

The 24VDC power supply from the communication module provides power to the backplane bus power and I/O module field power. In this configuration, bus power and field power are supplied to the input and output modules. The communication module only supplies bus power to the Valve Driver Module, as the 24VDC Connector separates the Field Power from the rest of the network. This secondary 24VDC connector on the Valve Driver Module supplies field power to the valves, and can be wired into an Emergency Stop Circuit. The Bus Extension Connector carries bus power and communication down to another Isysnet Assembly through the PSSVEXT1 cable. If additional Isysnet input and output modules or Isys ISO valve manifold is used on this extension, a PSSSE24A Power Extender Module is required to provide field power. If the extension is attached directly to an Isys Micro Manifold with 24VDC Connector, field power can be supplied directly by using the 24VDC Connector option.

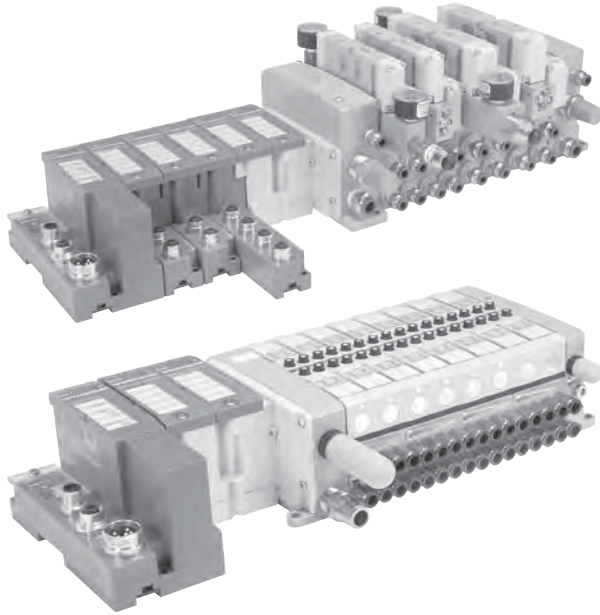


Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
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Subbase & Manifold Valve Products

The Turck Fieldbus System

Isysnet has four major components:

- **Valve driver module** provide control for either 16 or 32 solenoids on a manifold
- **I/O modules** provide the field interface and system-interface circuitry
- **Communication modules** provide the network-interface circuitry
- **Power distribution module** provide 5 additional power inputs to the Turck system



Turck Features

- Highly modular design (4pt – 16pt modularity)
- Broad application coverage
- Channel-level diagnostics (LED and electronic)
- Channel-level alarm and annunciation (electronic)
- Channel-level open-wire detection with electronic feedback
- Channel-level short-circuit detection with electronic feedback
- Horizontal and vertical mounting without derating
- 5g vibration
- Electronic and mechanical keying
- Robust backplane design
- Quick-disconnects for I/O and network connectivity
- Built-in panel grounding
- Color-coded module labels
- UL, C-UL, and CE certifications (as marked)
- Highly reliable structural integrity
- Optical isolation between field and system circuits

Communication Modules

CANopen	BL67-GW-CO
CANopen with power over network	BL67-GW-CO-T
DeviceNet with power over network	BL67-GW-DN
Profibus DP	BL67-GW-DPV1
Multiprotocol communication module (Ethernet / IP, Profinet, Modbus / TCP)	BL67-GW-EN
Ethernet / IP communication module	BL67-GW-EN-IP
Profinet communication module	BL67-GW-EN-PN
Modbus / TCP communication module with DeviceNet subnet	BL67-GW-EN-DN
Ethernet / IP communication module with DeviceNet subnet	BL67-GW-EN-IP-DN

Programmable Communication Modules

Profibus DP	BL67-PG-DP
Modbus / TCP communication module	BL67-PG-EN
Ethernet / IP communication module	BL67-PG-EN-IP
Modbus / TCP communication module with DeviceNet subnet	BL67-PG-EN-DN
Ethernet / IP communication module with DeviceNet subnet	BL67-PG-EN-IP-DN

Modulflex Series

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Digital Input Modules

I/O modules	Voltage	Part number
 8 PNP input module	7 to 30 VDC	BL67-8DI-P
8 PNP input module, with diagnostics	7 to 30 VDC	BL67-8DI-PD
8 NPN input module	24 VDC	BL67-8DI-N


Base module	Part number
 8 x M8, 3 pole, female	BL67-B-8M8


 4 x M12, 5 pole, female, A-code	BL67-B-4M12
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 4 x M12, 5 pole, female, A-code	BL67-B-4M12-P
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 1 x M23, 12 pole, female	BL67-B-1M23
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I/O modules	Voltage	Part number
4 PNP input module	7 to 30 VDC	BL67-4DI-P
4 PNP input module, with diagnostics	7 to 30 VDC	BL67-4DI-PD
4 NPN input module	24 VDC	BL67-4DI-N

Base module	Part number
 4 x M8, 3 pole, female	BL67-B-4M8


 2 x M12, 5 pole, female, A-code	BL67-B-2M12
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 2 x M12, 5 pole, female, A-code	BL67-B-2M12-P
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 4 x M12, 5 pole, female, A-code	BL67-B-4M12
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 1 x M23, 12 pole, female	BL67-B-1M23
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Digital Output Modules

I/O modules	Output current	Part number
 8 PNP output module	0.5 amps per channel	BL67-8DO-0.5A-P
8 NPN output module	0.5 amps per channel	BL67-8DO-0.5A-N


Base module	Part number
 8 x M8, 3 pole, female	BL67-B-8M8


 4 x M12, 5 pole, female, A-code	BL67-B-4M12
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 4 x M12, 5 pole, female, A-code	BL67-B-4M12-P
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 1 x M23, 12 pole, female	BL67-B-1M23
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I/O modules	Output Current	Part number
4 PNP output module	0.5 amps per channel	BL67-4DO-0.5A-P
4 PNP output module	2 amps per channel	BL67-4DO-2A-P
4 PNP output module	4 amps per channel	BL67-4DO-4A-P
4 NPN output module	2 amps per channel	BL67-4DO-2A-N

Base module	Part number
 4 x M8, 3 pole, female	BL67-B-4M8

 2 x M12, 5 pole, female, A-code	BL67-B-2M12
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 2 x M12, 5 pole, female, A-code	BL67-B-2M12-P
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 4 x M12, 5 pole, female, A-code	BL67-B-4M12
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 1 x M23, 12 pole, female	BL67-B-1M23
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Modulflex Series

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Digital Output Modules

I/O modules	Output current	Part number
16 PNP output module	0.14 amps per channel	BL67-16DO-0.1A-P

Base module	Part number
 1 x M23, 19 pole, female	BL67-B-1M23-19


Relay Output Modules

I/O modules	Output current	Part number
8 normally open relays	0.14 amps per channel	BL67-8DO-R-NO


Base module	Part number
 4 x M12, 5 pole, female, A-code	BL67-B-4M12-P

Analog Input Modules

I/O modules	Input type	Part number
4 configurable current or voltage analog input module	4 to 20 mA or 0 to 20 mA -10 to +10 VDC or 0 to +10 VDC	BL67-4AI-V/I

Base module	Part number
 4 x M12, 5 pole, female, A-code	BL67-B-4M12


I/O modules	Input type	Part number
2 Current analog input module	4 to 20 mA or 0 to 20 mA	BL67-2AI-I
2 Voltage analog input module	-10 to +10 VDC or 0 to +10 VDC	BL67-2AI-V
2 Temperature analog input module	PT100, PT200, PT500, PT1000, Ni100, Ni1000	BL67-2AI-PT
2 Temperature analog input module	Type B, E, J, K, N, R, S, T	BL67-2AI-TC


Base module	Part number
 2 x M12, 5 pole, female, A-code	BL67-B-2M12

Combination Input / Output Modules

I/O modules	Input voltage & output current	Part number
4 PNP output 4 PNP input module, with diagnostics	7 to 30 VDC 0.5 Amps	BL67-4DI4DO-PD
8 PNP configurable input or output module, with diagnostics	7 to 30 VDC 0.5 Amps	BL67-8XSG-PD


Base module	Part number
 8 x M8, 3 pole, female	BL67-B-8M8

 4 x M12, 5 pole, female, A-code	BL67-B-4M12
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 4 x M12, 5 pole, female, A-code	BL67-B-4M12P
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Analog Output Modules

I/O modules	Input type	Part number
4 Voltage analog output module	-10 to +10 VDC or 0 to +10 VDC	BL67-4AO-V

Base module	Part number
 4 x M12, 5 pole, female, A-code	BL67-B-4M12

I/O modules	Input type	Part number
2 Current analog output module	4 to 20 mA or 0 to 20 mA	BL67-2AO-I
2 Voltage analog output module	-10 to +10 VDC or 0 to +10 VDC	BL67-2AO-V

Base module	Part number
 2 x M12, 5 pole, female, A-code	BL67-B-2M12

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Fieldbus

DX ISOMAX Series



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Combination Analog Input / Output Modules

I/O modules	Output current	Part number
4 configurable input and 4 configurable output current or voltage analog module	4 to 20 mA or 0 to 20 mA -10 to +10 VDC or 0 to +10 VDC	BL67-4AI4AO-V/I


Base module		Part number
 8 x M8, 3 pole, female		BL67-B-8M8
 4 x M12, 5 pole, female, A-code		BL67-B-4M12

CANopen Subnet Module

Extender module	Capacity	Part number
1 CANopen connection	64 bits of inputs or outputs	BL67-1CVI




Base module		Part number
 1 x M12, 5 pole, female, A-code		BL67-B-1M12

I/O modules	Output current	Part number
2 configurable input and 2 configurable output current or voltage analog module	4 to 20 mA or 0 to 20 mA -10 to +10 VDC or 0 to +10 VDC	BL67-2AI2AO-V/I

Base module		Part number
 8 x M8, 3 pole, female		BL67-B-8M8




Serial Interface Module

Extender module	Capacity	Part number
1 RS232 serial interface	300 to 115200 bps	BL67-1RS232
1 RS485 or 422 serial interface	300 to 115200 bps	BL67-1RS485/422

Base module		Part number
 1 x M12, 5 pole, female, A-code		BL67-B-1M12
 1 x M12, 8 pole, female, A-code		BL67-B-1M12-8
 1 x M23, 12 pole, female		BL67-B-1M23



Power Extender Module

Extender module	Current capacity	Part number
24 VDC field power module	10 amps input	BL67-PF-24VDC

Base module		Part number
 5 Pole mini connector to supply bus power and field power		BL67-B-1RSM
 5 Pole mini connector to field power only		BL67-B-1RSM-VO
 4 Pole mini connector to supply bus power and field power		BL67-B-1RSM-4

SSI and Counting Modules

Extender module	Capacity	Part number
1 SSI sensor interface	65 kbps up to 1 Mbps	BL67-1SSI
1 counter interface	Up to 250 kHz	BL67-1CNT/ENC

Base module		Part number
 1 x M12, 8 pole, female, A-code		BL67-B-1M12-8
 1 x M23, 12 pole, female		BL67-B-1M23

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX/ISOMAX Series

Valvair II Series

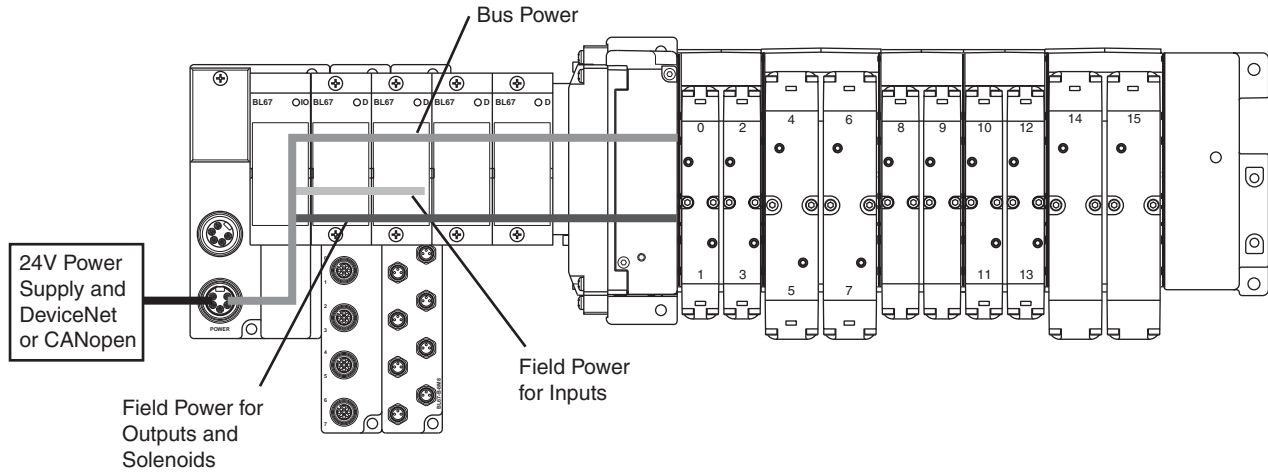
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Subbase & Manifold Valve Products

Power Distribution Options for Turck Fieldbus

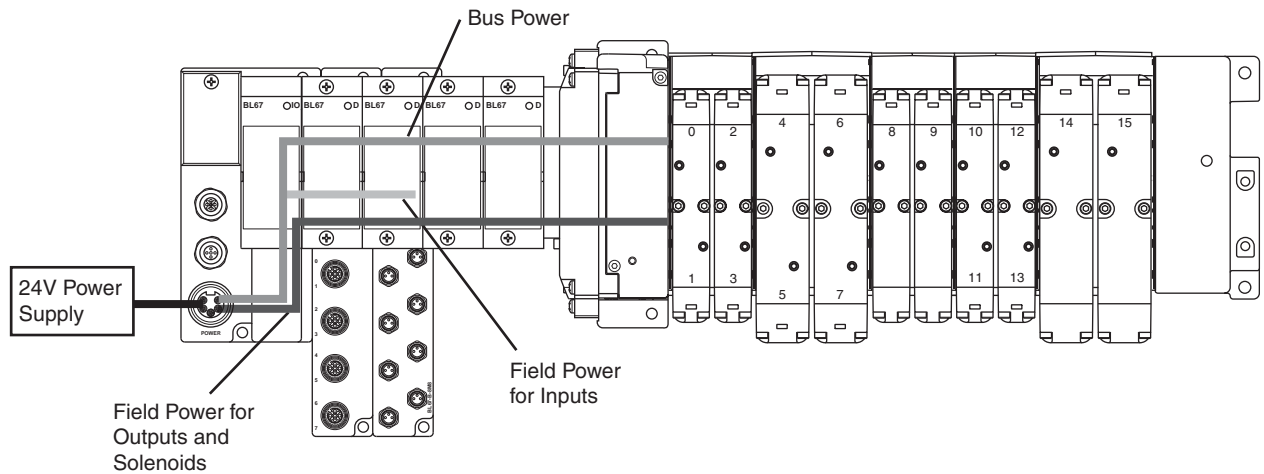
Turck Communication and I/O Modules - DeviceNet and CANopen, Power over Network

The 24VDC power supply pins from the DeviceNet or CANopen network connection on the communication module provides a single power circuit. This circuit provides 1.5 A bus power, 4 A field power for inputs and 8A field power for outputs.



Turck Communication and I/O Modules - Ethernet/IP, Modbus/TCP, Profinet, Profibus, and CANopen

An auxiliary 24VDC power supply from the communication module provides power across two separate circuits. The first circuit provides 1.5 A bus power and 4 A field power for inputs. The second circuit provides 10A field power for outputs which can be wired to an e-stop circuit to kill all outputs.

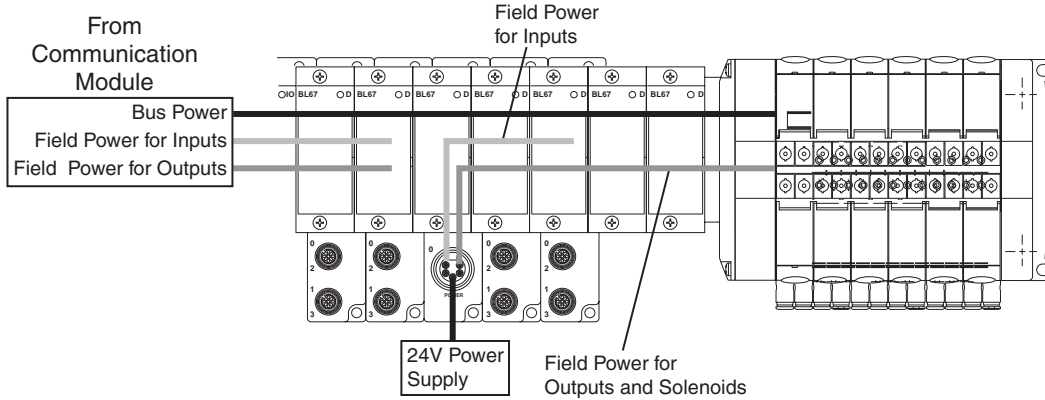


Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
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Power Distribution Options for Turk Fieldbus

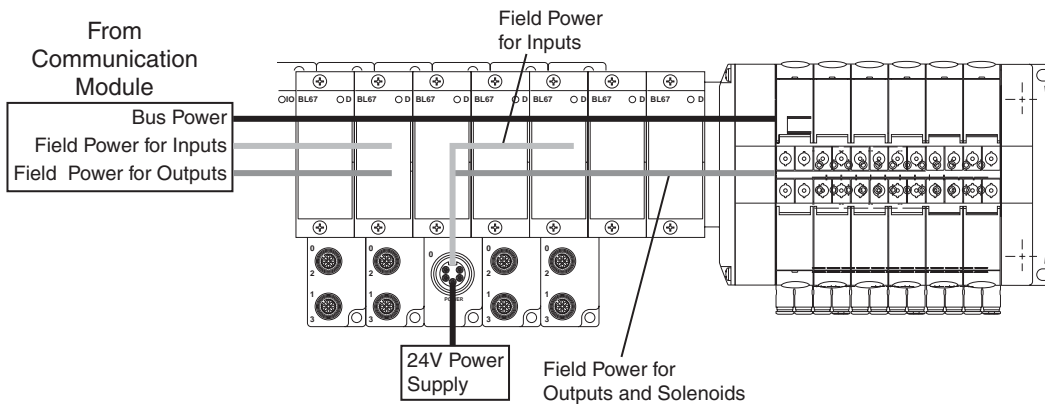
24VDC Power Extender Module (BL67-PF-24VDC) with Base Module BL67-B-1RSM

This configuration creates an auxiliary 24VDC power supply and provides power across two separate circuits, regardless of the communication module used. The first circuit provides 4 A field power for inputs. The second circuit provides 10A field power for outputs which can be wired to an e-stop circuit to kill all outputs and solenoids to the right of the module. The 1.5 A bus power is uninterrupted, and is still supplied from the communication module.



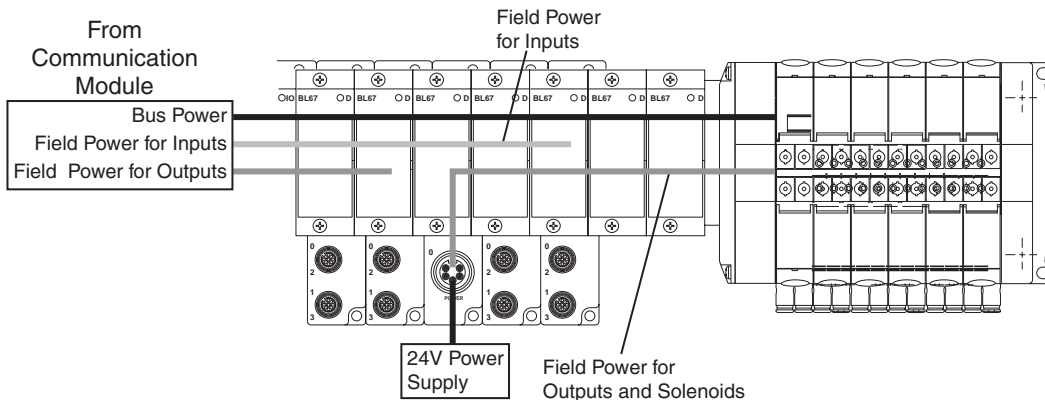
24VDC Power Extender Module (BL67-PF-24VDC) with Base Module BL67-B-1RSM-4

This configuration creates an auxiliary 24VDC power supply and provides power across one circuit, regardless of the communication module used. This circuit provides 4 A field power for inputs and 10A field power for outputs. The 1.5 A bus power is uninterrupted, and is still supplied from the communication module.



24VDC Power Extender Module (BL67-PF-24VDC) with Base Module BL67-B-1RSM-VO

This configuration creates an auxiliary 24VDC power supply and provides power across one circuit, regardless of the communication module used. This circuit provides 10A field power for outputs which can be wired to an e-stop circuit to kill all outputs and solenoids to the right of the module. The 1.5 A bus power and 4 A field power for inputs are uninterrupted, and are still supplied from the communication module.



Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

7/8" Mini Power Cables

Description	Part number
4 pin female to flying lead cable, TPE	RKM 46-xM/S1587
5 pin female to flying lead cable, TPE	RKM 56-xM/S1587
4 pin male to female cable, TPE	RSM RKM 46-x/S1587
5 pin male to female cable, TPE	RSM RKM 56-x/S1587
4 pin right angle female to flying lead cable, TPE	WKM 46-xM/S1587
5 pin right angle female to flying lead cable, TPE	WKM 56-xM/S1587

Where x = 2, 4, 5, 6, 8, 10 meter standard lengths

Power Tee

Description	Part number
4 pin Male to 2 female sockets	RSM-2RKM 40
5 pin Male to 2 female sockets	RSM-2RKM 50

M12 A-code Cables

Description	Part number
4 pin female to flying lead cable, PVC	RKC 4.4T-*
4 pin male to flying lead cable, PVC	RSC 4.4T-*
4 pin male to female cable, PVC	RKC 4.4T-*-RSC 4.4T
5 pin female to flying lead cable, TPE	RKC 4.5T-*/S1587
5 pin male to flying lead cable, TPE	RSC 4.5T-*/S1587
5 pin male to female cable, TPE	RKC 4.5T-*-RSC 4.5T/S1587

Where * = 1, 2, 3, 4 meter standard lengths

M8 Cables

Description	Part number
3 pin female to flying lead cable, PUR	PKG 3M-*/M/S90
3 pin male to flying lead cable, PUR	PSG 3M-*/M/S90
3 pin male to female cable, PUR	PKG 3M-*/M-PSG 3M/S90

Where * = 1, 2, 3, 4 meter standard lengths

M23 Cables

Description	Part number
12 pin, double ended female thread with male pins and female socket, PUR. Pinout optimized for isysnet fieldbus.	CSCM CKCM 12-11-x/S90
19 pin, double ended female thread with male pins and female socket, PUR. Pinout optimized for isysnet fieldbus.	CSM CKM 19-19-x/S90
19 pin, 90° double ended female thread with male pins and female socket, PUR. Pinout optimized for turck fieldbus.	CSWM CKWM 19-19-x/CS12852

Where x = 1, 2, 3, 4 meter standard lengths

25-pin, D-Sub Cable (Female)

Description	Length	Part number
25-pin, D-sub cable, IP20	3 meters	P8LMH25M3A
25-pin, D-sub cable, IP20	9 meters	SCD259D
25-pin, D-sub cable, IP65	3 meters	SCD253W
25-pin, D-sub cable, IP65	9 meters	SCD259WE

Profibus Cables

Description	Part number
M12 Male to M12 Female, PUR	RSSW RKSX 455-xM

Where x = 2, 4, 5, 6, 8, 10 meter standard lengths

M12 A-code Cables

Description	Part number
4 pin female to flying lead cable, PVC	RKC 4.4T-*
4 pin male to flying lead cable, PVC	RSC 4.4T-*
4 pin male to female cable, PVC	RKC 4.4T-*-RSC 4.4T
5 pin female to flying lead cable, TPE	RKC 4.5T-*/S1587
5 pin male to flying lead cable, TPE	RSC 4.5T-*/S1587
5 pin male to female cable, TPE	RKC 4.5T-*-RSC 4.5T/S1587

Where * = 1, 2, 3, 4 meter standard lengths

Profibus Terminating Resistor

Description	Part number
M12 male pin terminating resistor	P8BPA00MB

Ethernet Cables

Description	Part number
M12 female to M12 male, PUR	RSSD RKSD 443-xM
RJ45 to M12 male, PUR	RSSD RJ45S 443-xM

Where x = 2, 5, 10, 15, 20, 30 meter standard lengths

DeviceNet and CANopen Cables

Description	Part number
7/8" mini male to 7/8" mini female, PUR	RSM RKM 5711-xM
7/8" mini male to M12 female, PUR	RSM RKC 5711-xM
M12 male to M12 female, PUR	RSC RKC 5711-xM
M12 male to 7/8" mini female, PUR	RSC RKM 5711-xM

Where x = 2, 4, 5, 6, 8, 10 meter standard lengths

Bus Power Tee

Description	Part number
Bus power tee	RSM RKM 57 WSM 40 PST

For systems not equipped with Power over network, combines separate network and power feeds into the communication module. Includes reverse current protection

DeviceNet and CANopen Terminating Resistor

Description	Part number
7/8" Mini Male Pin Terminating Resistor	RSM 57-TR2
M12 Male Pin Terminating Resistor	P8BPA00MA



Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

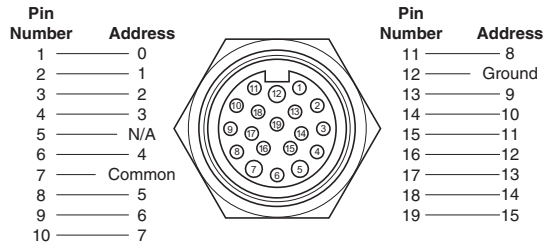
DX ISOMAX Series

Valvair II Series

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19-Pin Round Brad Harrison



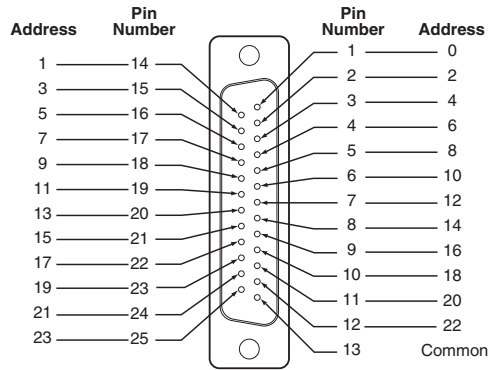
Face View - Male 19-Pin Connector

19-Pin Round Cable Specifications

Common Pin "7" is rated for 8 amps. Cable common wire must be greater than total amperage of solenoids on Add-A-Fold assembly.

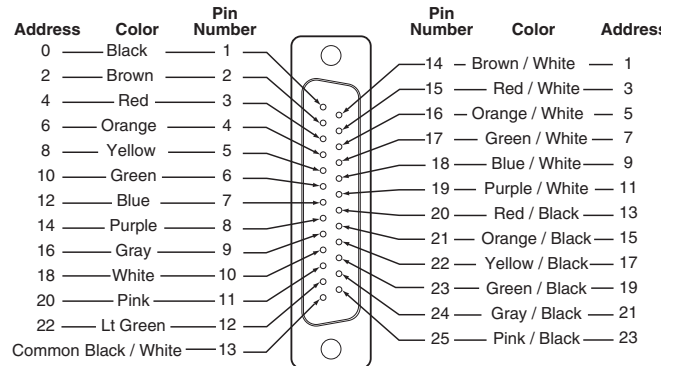
Example: 8 station manifold, 16 solenoids, 120VAC - 16 x .039 amps = .63 total amp rating. NEMA 4 rated with properly assembled NEMA 4 rated cable.

25-Pin, D-Sub Connector (Male)

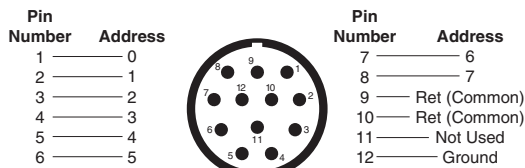


View into End Plate Connector - Male D-Sub, 25-Pin

25-Pin, D-Sub Cable (Female)

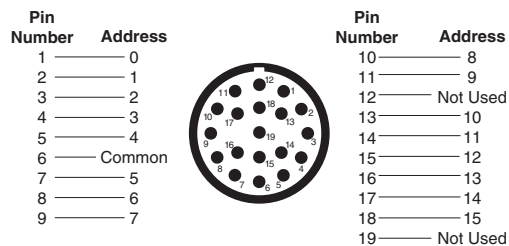


M23, 12-Pin Round Connector (Male)



Face View - Male 19-Pin Connector

M23, 19-Pin Round Connector (Male)



View into End Plate Connector - Male M23, 19-Pin

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

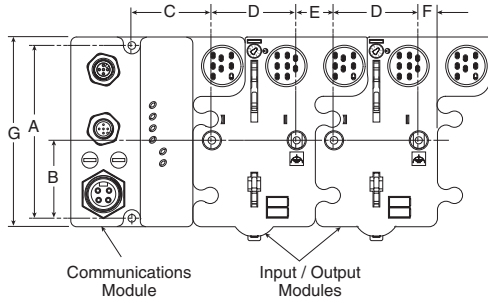
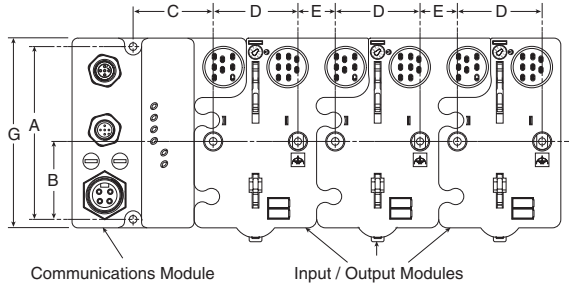
DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Isysnet with Isys ISO Valves



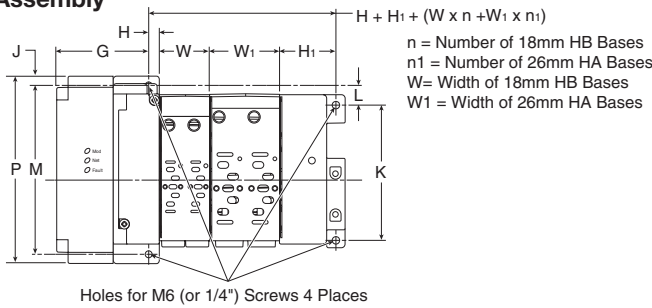
Dimensions

A	B	C	D
4.00 (102)	1.80 (46)	1.90 (48)	2.00 (50)

E	F	G
.87 (22)	.43 (11)	4.41 (112)

Inches (mm)

HB - HA Manifold Assembly



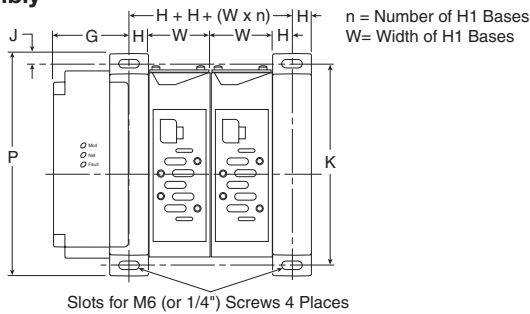
HB - HA Dimensions

G	H	H ₁	J	K
2.68 (68)	.33 (8.4)	1.80 (45.8)	.15 (4)	4.32 (110)

L	M	P	W	W ₁
.63 (16)	5.39 (137)	5.98 (152)	1.61 (40.8)	2.24 (56.8)

Inches (mm)

H1 Manifold Assembly



H1 Dimensions

G	H	J	K	P
2.20 (56)	.63 (15.9)	.33 (8.5)	6.50 (165)	7.17 (182)

W
1.93 (49)

Inches (mm)

H2 Dimensions

G	H	J	K	P
2.34 (59.5)	.65 (16.5)	.47 (12)	8.46 (215)	9.41 (239)

W
2.20 (56)

Inches (mm)

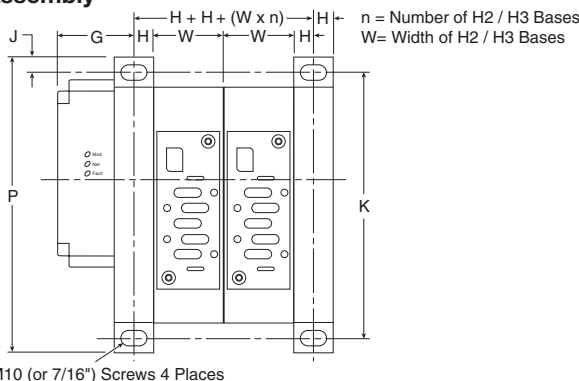
H3 Dimensions

G	H	J	K	P
2.34 (59.5)	.65 (16.5)	.59 (15)	10.43 (265)	11.61 (295)

W
2.80 (71)

Inches (mm)

H2 - H3 Manifold Assembly



Modiflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

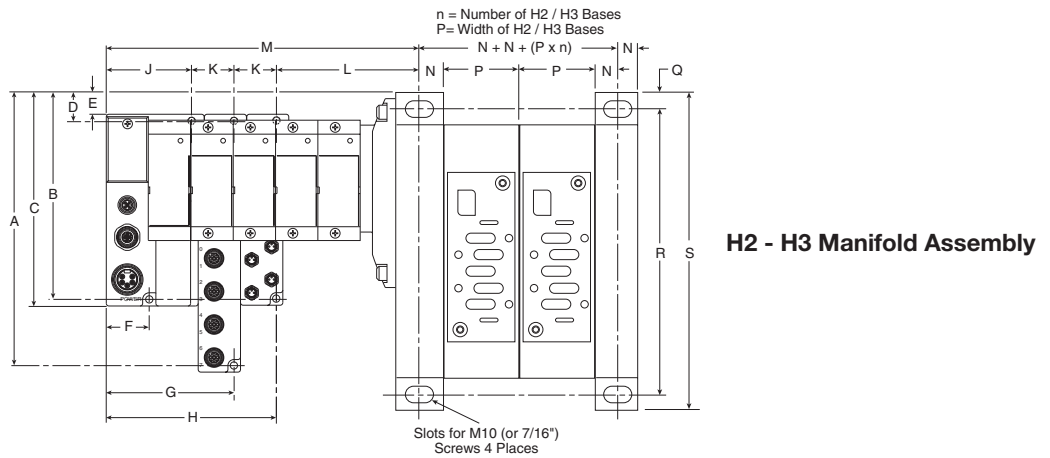
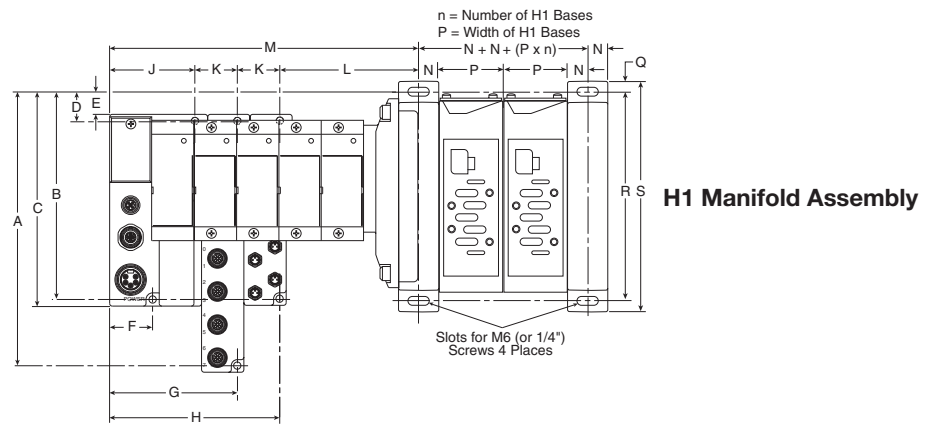
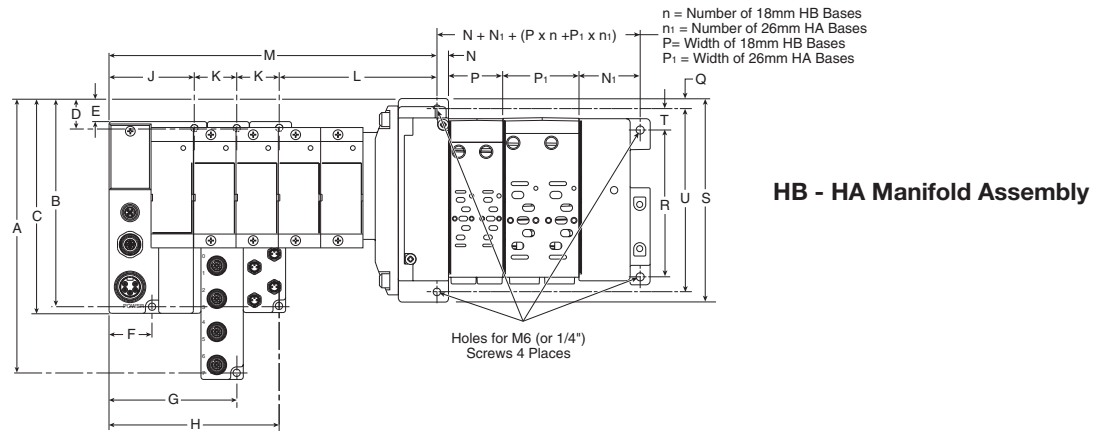
DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Turck with Isys ISO Valves



Dimensions

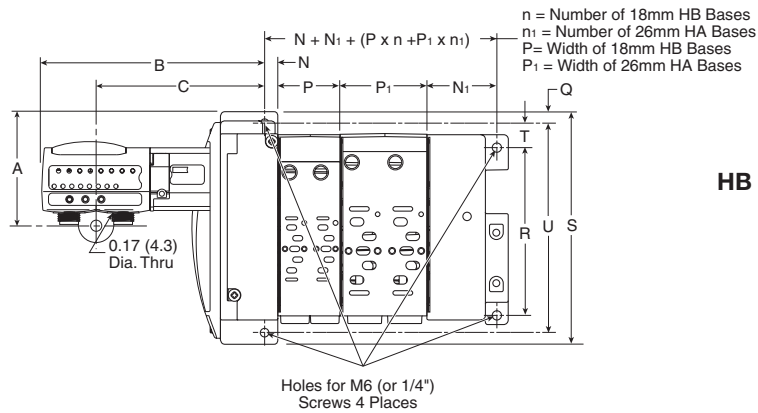
	A	B	C	D	E	F	G	H	J	K	L	M	N	N ₁	P	P ₁	Q	R	S	T	U
HA / HB	8.05 (204.5)	6.08 (154.5)	6.28 (159.5)	0.75 (19.5)	0.57 (14.5)	1.28 (32.5)	3.79 (96.5)	5.06 (128.5)	2.53 (64.5)	1.26 (32)	4.75 (120.8)	See note 1	.33 (8.4)	1.80 (45.8)	1.61 (40.8)	2.24 (56.8)	.15 (4)	4.32 (110)	5.98 (152)	.63 (16)	5.39 (137)
H1	8.53 (216.7)	6.56 (166.7)	6.76 (171.7)	1.25 (31.7)	1.05 (26.7)	1.28 (32.5)	3.79 (96.5)	5.06 (128.5)	2.53 (64.5)	1.26 (32)	4.27 (108.5)	See note 1	.63 (15.9)	—	1.93 (49)	—	.33 (8.5)	6.50 (165)	7.17 (182)	—	—
H2	8.38 (212.9)	6.41 (162.9)	6.61 (167.9)	1.10 (27.9)	.90 (22.9)	1.28 (32.5)	3.79 (96.5)	5.06 (128.5)	2.53 (64.5)	1.26 (32)	4.34 (110)	See note 1	.65 (16.5)	—	2.20 (56)	—	.47 (12)	8.46 (215)	9.41 (239)	—	—
H3	8.62 (218.9)	6.65 (168.9)	6.85 (173.9)	1.33 (33.9)	1.14 (28.9)	1.28 (32.5)	3.79 (96.5)	5.06 (128.5)	2.53 (64.5)	1.26 (32)	4.34 (110)	See note 1	.65 (16.5)	—	2.80 (71)	—	.59 (15)	10.43 (265)	11.61 (295)	—	—

Note 1: $M = J + L + n_2 \times K$, where n_2 = Number of Turk input / output modules
Inches (mm)

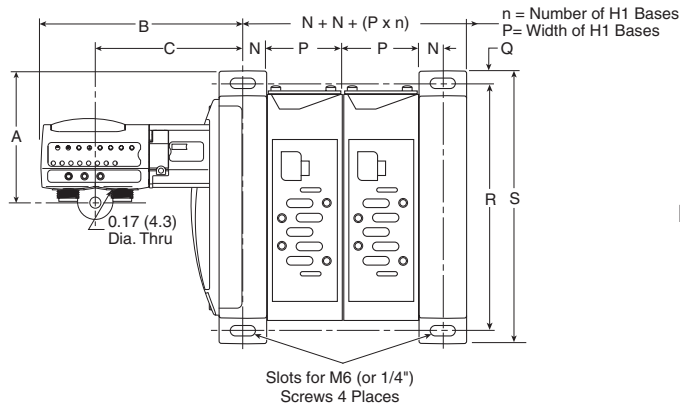
Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

Moduflex with Isys ISO Valves

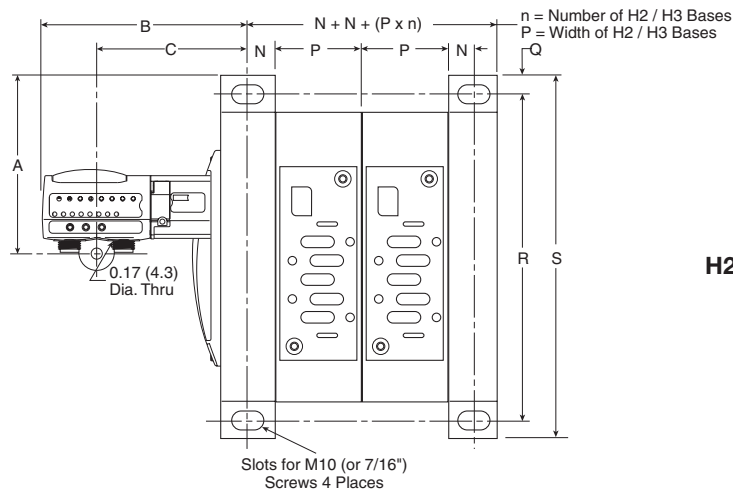
- Moduflex Series
- Isys Micro Series
- Isys ISO Series
- Fieldbus
- DX ISOMAX Series
- Valvair II Series
- D**
- Subbase & Manifold Valve Products



HB - HA Manifold Assembly



H1 Manifold Assembly



H2 - H3 Manifold Assembly

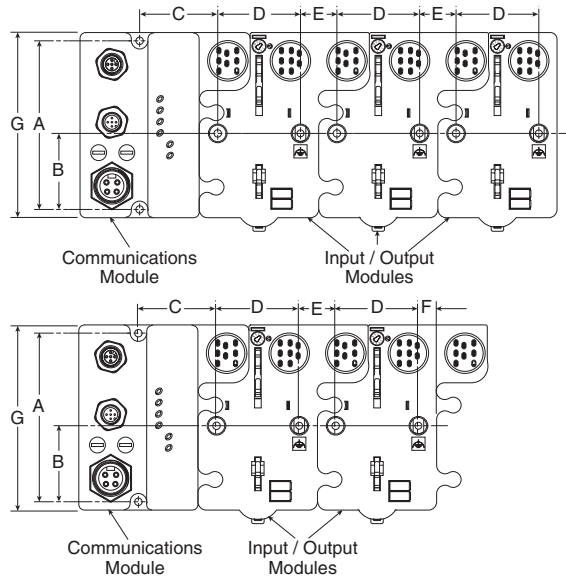
Dimensions

	A	B	C	N	N ₁	P	P ₁	Q	R	S	T	U
HA / HB	2.75 (69.8)	5.61 (142.5)	4.40 (111.8)	.33 (8.4)	1.80 (45.8)	1.61 (40.8)	2.24 (56.8)	.15 (4)	4.32 (110)	5.98 (152)	.63 (16)	5.39 (137)
H1	3.23 (82)	6.33 (160.9)	5.13 (130.2)	.63 (15.9)	—	1.93 (49)	—	.33 (8.5)	6.50 (165)	7.17 (182)	—	—
H2	3.08 (78.2)	6.40 (161.5)	5.19 (131.8)	.65 (16.5)	—	2.20 (56)	—	.47 (12)	8.46 (215)	9.41 (239)	—	—
H3	3.31 (84.2)	6.40 (161.5)	5.19 (131.8)	.65 (16.5)	—	2.80 (71)	—	.59 (15)	10.43 (265)	11.61 (295)	—	—

Inches (mm)



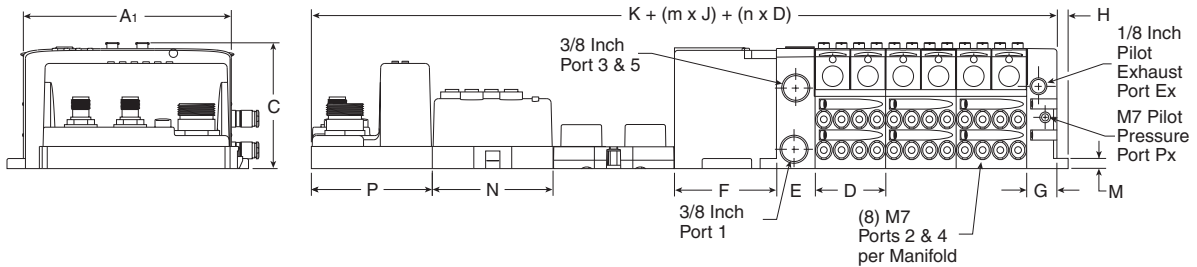
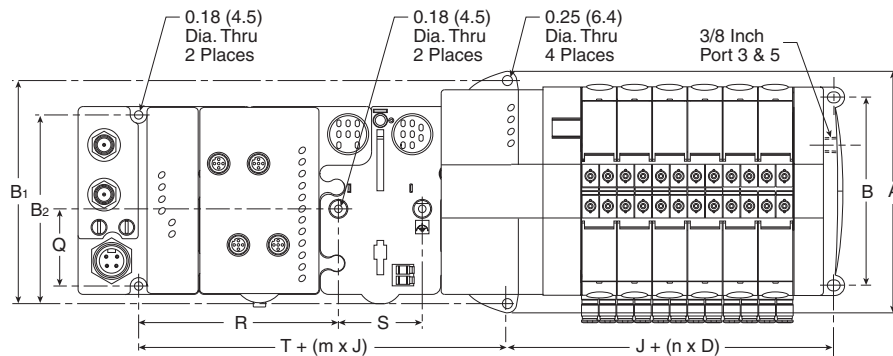
Isysnet with Isys Micro Valves



Dimensions

A	B	C	D
4.00	1.80	1.90	2.00
(102)	(46)	(48)	(50)
E	F	G	
.87	.43	4.41	
(22)	(11)	(112)	

Inches (mm)



Dimensions

A	A1	B	B1	B2	C	D	E	F	G
5.67	4.88	4.41	5.24	4.02	2.95	1.65	0.91	2.40	0.71
(144.0)	(124.0)	(112.0)	(133.0)	(102.0)	(75.0)	(42.0)	(23.0)	(61.0)	(18.0)
H	J	K	M	N	P	Q	R	S	T
0.49	2.72	7.32	0.24	2.83	2.83	1.81	4.72	2.01	2.01
(12.5)	(69.0)	(186.0)	(6.1)	(72.0)	(72.0)	(46.0)	(120.0)	(51.0)	(51.0)

Inches (mm)

n = Number of Manifolds
m = Number of Modules

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

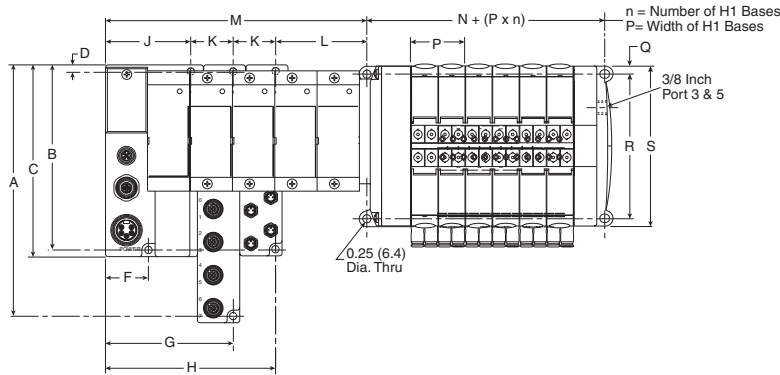
Valvair II Series

D

Subbase & Manifold Valve Products



Turck with Isys Micro Valves

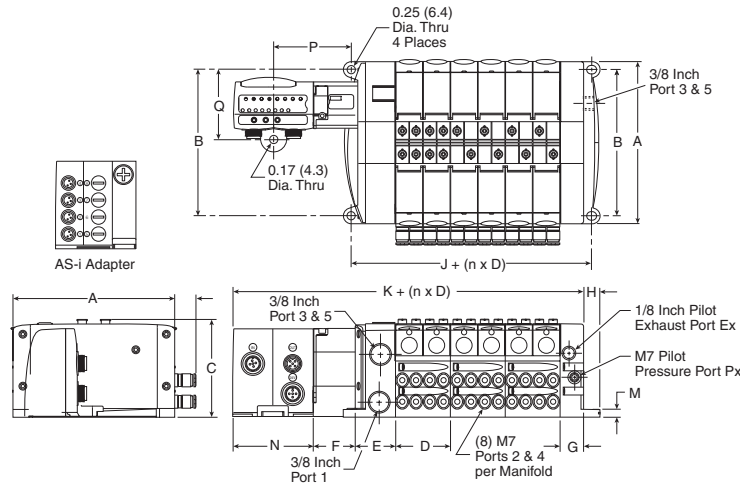


Dimensions

A	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S
7.48	5.51	5.71	0.20	1.28	3.79	5.06	2.53	1.26	2.54	See note 1	2.28	1.65	.19	4.41	4.88
(190)	(140)	(145)	(5)	(32.5)	(96.5)	(128.5)	(64.5)	(32)	(64)		(58)	(42)	(4.9)	(112)	(124)

Note 1: $M = J + L + n_2 \times K$, where $n_2 =$ Number of Turck input / output modules
 Inches (mm)

Moduflex Adapter, Side Ported



Dimensions

A	B	C	D	E	F	G	H	J	K	M	N	P	Q
4.88	4.41	2.95	1.65	1.22	1.28	0.71	0.49	2.28	6.10	0.24	2.40	2.36	2.07
(124.0)	(112.0)	(75.0)	(42.0)	(31.0)	(32.5)	(18.0)	(12.5)	(58.0)	(155.0)	(6.1)	(61.0)	(60.0)	(52.5)

Inches (mm)

n = Number of Manifolds

DX ISOMAX Series

The ISOMAX range of directional control valves complies with ISO 15407-1 and VDMA 24563 for sizes 02 and 01 and ISO 5599-1 for sizes 1, 2 and 3. ISOMAX provides flows from 0.55 Cv to 4.15 Cv.

The ISOMAX range includes valves for pneumatic and electrical actuation with a wide choice of subbases and manifolds to suit different application needs.

All ISOMAX products use high-tech ceramic switching technology providing:

Excellent reliability

- Long life in excess of 100 million operations*
- Operates with lubricated or non-lubricated air
- Low sensitivity to air quality changes

High performance

- Slide valve concept allows high flow / size ratio and short response time due to short slide stroke and low friction

Stable long lasting performances

- Low friction switching: minimum wear of the valve member / seal assembly

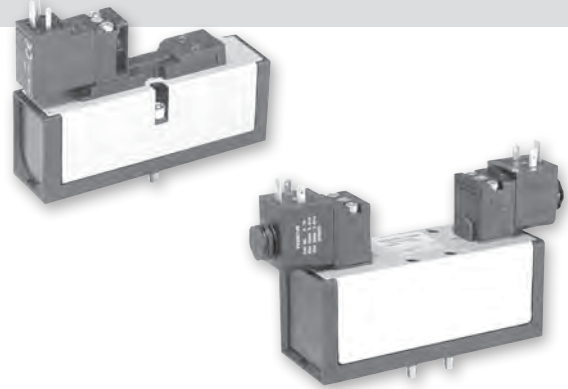
Valves fitted with switchable selector to give internal or external pilot supply

Corrosion free and modern design

Vacuum operation

Dual pressure

* Refer to our warranty conditions.



Operating information

Operating Pressure: Vacuum to 145 PSIG (10 bar)

Function		M.O.P (PSIG)
20, 21, 22, 23	2-position, spring return	36
50, 51, 53, 54	2-position, air return	30
04, 05, 06, 08	2-position	15
09, 11, 12, 27	3-position, CE	45
16, 18, 19, 25	3-position, APB	45

Working temperatures: -10°C to 60°C (14°F to 140°F)

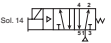
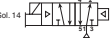



Storage temperatures: -20°C to 70°C (-4°F to 158°F)

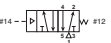



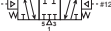
Material specifications

Body	Polyamide reinforced fiberglass
Casing	Anodized aluminum
End plates	Painted zinc plated steel
Function selector	Polyamide reinforced fiberglass
Screws	Zinc plated steel
Seals	Nitrile
Seat	Ceramic
Springs	Stainless steel
Top cover seals	Polyester
Valve members	Self lubricating acetal
Valve plate	Zinc




 Most popular.

DX02 ISO Valves

Symbol	Type	Cv	Operator	Pilot	Override	24 VDC	120 VAC
	4-way, 2-position, spring return	0.55	Single solenoid	Internal	Non-locking	DX02-621-951M	DX02-621-951J
	4-way, 2-position, air return	0.55	Single solenoid	Internal	Non-locking	DX02-651-951M	DX02-651-951J
	4-way, 2-position	0.55	Double solenoid	Internal	Non-locking	DX02-606-951M	DX02-606-951J
	4-way, 3-position, center exhaust	0.4	Double solenoid	Internal	Non-locking	DX02-611-951M	DX02-611-951J
	4-way, 3-position, all ports blocked	0.4	Double solenoid	Internal	Non-locking	DX02-616-951M	DX02-616-951J

Symbol	Type	Cv	Operator	Pilot	Part number
	4-way, 2-position, spring return	0.55	Single remote pilot	Remote	DX02-421-60
	4-way, 2-position, air return	0.55	Single remote pilot	Remote	DX02-451-60
	4-way, 2-position	0.55	Double remote pilot	Remote	DX02-406-60
	4-way, 3-position, center exhaust	0.4	Double remote pilot	Remote	DX02-411-60
	4-way, 3-position, all ports blocked	0.4	Double remote pilot	Remote	DX02-416-60

DX02 Series Subbase & Manifolds

Single subbase	1/8" NPT	1/8" BSPP
 Side ported base	PL02-01-80	PL02-01-70
2 Station manifold bases		
 End ported bases	1/8" NPT	1/8" BSPP
	PJLP02-201-80	PJLP02-201-70
End plate kit	1/8" NPT port	1/8" BSPP port
 End plate kit	PEJ02-02-80	PEJ02-02-70

Add-A-Fold Assembly Model Number

AA 02U 0 04


Valve series	Number of stations*
Right & left end plate DX02	02
	04
	•
	24
	•
	32

* For use with PJLP02 Manifolds.

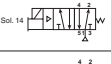




Thread type	
NPT	0
BSPP "G"	1

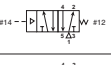
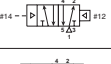
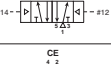
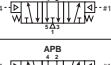
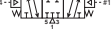
* Must be ordered in multiples of (2)

DX02 Series Accessories




Accessory	Description	Part number
Sandwich regulator 	Common pressure	2-60 PSIG w/ gauge PS5637155P
	Common pressure	5-125 PSIG w/ gauge PS5637166P
	Independent pressure	2-60 PSIG w/ gauge PS5637255P
	Independent pressure	5-125 PSIG w/ gauge PS5637266P
Gauge adapter kit	Includes 1/8" coupling and long nipple	PS5651160P
Blanking plate kit		PS5634P
Sandwich supply module	1/8" NPT	PS562600P
	1/8" BSPP	PS562601P
Sandwich exhaust module	1/8" NPT	PS562700P
	1/8" BSPP	PS562701P
Intermediate air supply module	1/8" NPT	D02P-01-80
Sandwich flow control		PS5642P
Manifold to manifold gasket kits	Used with manifold PJLP02	DX02M2MGSKT
Manifold port isolation kits (main galley 1, 3, & 5)	For use on PJLP and PJL series manifolds. Kit includes: plugs with o-rings.	D02BD0
Manifold hardware kit	Includes 10 bolts, 10 washers, 10 nuts	DX02M2MB

DX01 ISO Valves

Symbol	Type	Cv	Operator	Pilot	Override	24 VDC	120 VAC
	4-way, 2-position, spring return	0.75	Single solenoid	Internal	Non-locking	DX01-621-951M	DX01-621-951J
	4-way, 2-position, air return	0.75	Single solenoid	Internal	Non-locking	DX01-651-951M	DX01-651-951J
	4-way, 2-position	0.75	Double solenoid	Internal	Non-locking	DX01-606-951M	DX01-606-951J
	4-way, 3-position, center exhaust	0.5	Double solenoid	Internal	Non-locking	DX01-611-951M	DX01-611-951J
	4-way, 3-position, all ports blocked	0.5	Double solenoid	Internal	Non-locking	DX01-616-951M	DX01-616-951J

Symbol	Type	Cv	Operator	Pilot	Part number
	4-way, 2-position, spring return	0.75	Single remote pilot	Remote	DX01-421-60
	4-way, 2-position, air return	0.75	Single remote pilot	Remote	DX01-451-60
	4-way, 2-position	0.75	Double remote pilot	Remote	DX01-406-60
	4-way, 3-position, center exhaust	0.5	Double remote pilot	Remote	DX01-411-60
	4-way, 3-position, all ports blocked	0.5	Double remote pilot	Remote	DX01-416-60

DX01 Series Subbase & Manifolds


Single subbase	1/4" NPT	1/4" BSPP
 Side ported base	PL01-02-80	PL01-02-70
2 Station manifold bases	1/4" NPT	1/4" BSPP
 End ported bases	PJLP01-202-80	PJLP01-202-70
End plate kit	1/4" NPT port	1/4" BSPP port
 End plate kit	PEJ01-03-80	PEJ01-03-70

Add-A-Fold Assembly Model Number

AA	01U	0	04
Valve series	Number of stations*	Thread type	
Right & left end plate DX01	02 04 • 24 • 32	NPT 0 BSPP "G" 1	
			* Must be ordered in multiples of (2)

* For use with PJLP01 or PJL01 Manifolds.

DX01 Series Accessories


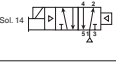
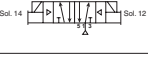

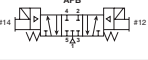

Accessory	Description	Part number
Sandwich regulator 	Common pressure	2-60 PSIG w/ gauge PS5537155P
	Common pressure	5-125 PSIG w/ gauge PS5537166P
	Independent pressure	2-60 PSIG w/ gauge PS5537255P
	Independent pressure	5-125 PSIG w/ gauge PS5537266P
Gauge adapter kit	Includes 1/8" coupling and long nipple	PS5651160P
Remote pilot access plate kit	1/4" NPT	PS551500P
	1/4" BSPP	PS551501P
Blanking plate kit		PS5534P
Sandwich supply module	1/4" NPT	PS552600P
	1/4" BSPP	PS552601P
Sandwich exhaust module	1/4" NPT	PS552700P
	1/4" BSPP	PS552701P
Intermediate air supply module	1/4" NPT	D01P-02-80
Sandwich flow control		PS5542P
Manifold to manifold gasket kits	Used with manifold PJLP02	DX01M2MGSKT
Manifold port isolation kits (main galley 1, 3, & 5)	For use on PJLP and PJL series manifolds. Kit includes: plugs with o-rings.	D01BD0
Manifold hardware kit	Includes 10 bolts, 10 washers, 10 nuts	DX02M2MB

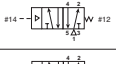
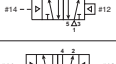

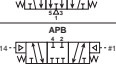
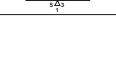


Modulflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus Series
 DX ISOMAX Series
 Valvair II Series
 Subbase & Manifold Valve Products




D

DX1 ISO Valves


	Symbol	Type	Cv	Operator	Pilot	Override	24 VDC	120 VAC
Modulflex Series		4-way, 2-position, spring return	1.15	Single solenoid	Internal	Non-locking	DX1-621-BL49	DX1-621-BL53
		4-way, 2-position, air return	1.15	Single solenoid	Internal	Non-locking	DX1-651-BL49	DX1-651-BL53
Isys Micro Series		4-way, 2-position	1.15	Double solenoid	Internal	Non-locking	DX1-606-BL49	DX1-606-BL53
		4-way, 3-position, center exhaust	0.75	Double solenoid	Internal	Non-locking	DX1-611-BL49	DX1-611-BL53
Isys ISO Series		4-way, 3-position, all ports blocked	0.75	Double solenoid	Internal	Non-locking	DX1-616-BL49	DX1-616-BL53
		4-way, 3-position, all ports blocked	0.75	Double solenoid	Internal	Locking	DX1-616-CL49	DX1-616-CL53

	Symbol	Type	Cv	Operator	Pilot	Part number
Fieldbus Series		4-way, 2-position, spring return	1.15	Single remote pilot	Remote	DX1-421-60
		4-way, 2-position, air return	1.15	Single remote pilot	Remote	DX1-451-60
Fieldbus Series		4-way, 2-position	1.15	Double remote pilot	Remote	DX1-406-60
		4-way, 3-position, center exhaust	0.75	Double remote pilot	Remote	DX1-411-60
		4-way, 3-position, all ports blocked	0.75	Double remote pilot	Remote	DX1-416-60

DX1 Series Subbase & Manifolds

Single subbase	Description	3/8" NPT	3/8" BSPP
	Side ported base	PS4011150CP	PS4011160CP
Manifold bases	Description	3/8" NPT	3/8" BSPP
	End ported bases	PS4011550CP	PS4011560CP
	Bottom / End ported bases	PS4011650CP	PS4011660CP
End plate kits	Description	NPT port	BSPP port
	DX1 non-collective wiring end plates	PS4031010CP	PS4031011CP

5599-1, DX1 Accessories

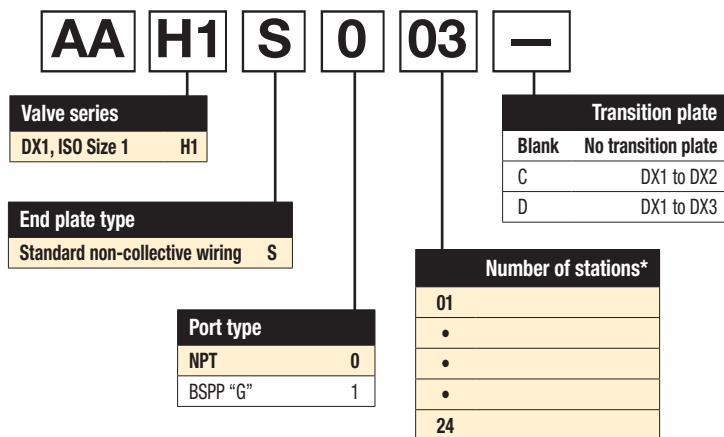
Accessories	Description	Part number
	Common pressure	5-125 PSIG w/ gauge PS4037166CP
	Independent pressure	5-125 PSIG w/ gauge PS4037266CP
Remote pilot access plate kit	1/8" NPT 1/8" BSPP	PS401500CP PS401501CP
Blanking plate kit		PS4034CP
Sandwich flow control		PS4042CP
Manifold to manifold gasket kit		PS4013P
Manifold port isolation kits	Main galley (1, 3, 5)	PS4032CP
Manifold port isolation kits	Pilot galley	PS4033CP
Auxiliary access plate kit	1/4" & 3/8"	NPT PS403000CP
		BSPP PS403001CP



Modulflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus Series
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products

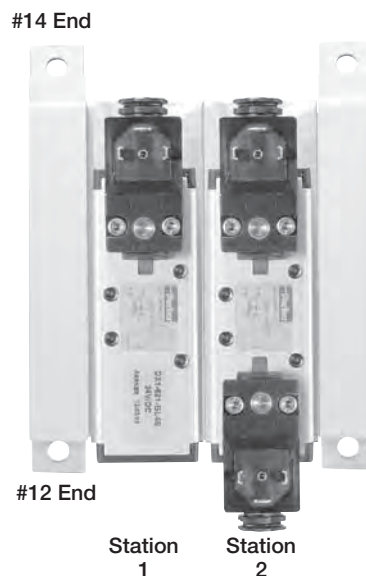
How To Order Add-A-Fold Assemblies

1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List complete valve/base model number. List left to right, looking at the cylinder ports on the #12 end of the manifold. The left most station is station 1.
 (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)



Example: Application requires a 3-Station manifold.

Qty.	Part No.	
1	AAH1S003	
1	DX1-621-BL49.....	Valve Station 1
1	PS4011550CP.....	Base Station 1
1	DX1-616-BL49.....	Valve Station 2
1	PS4011550CP.....	Base Station 2
1	DX1-611-BL49.....	Valve Station 3
1	PS4011550CP.....	Base Station 3



DX2 ISO Valves

Symbol	Type	Cv	Operator	Pilot	Override	24 VDC	120 VAC
	4-way, 2-position, spring return	2.5	Single solenoid	Internal	Non-locking	DX2-621-BL49	DX2-621-BL53
	4-way, 2-position, air return	2.5	Single solenoid	Internal	Non-locking	DX2-651-BL49	DX2-651-BL53
	4-way, 2-position	2.5	Double solenoid	Internal	Non-locking	DX2-606-BL49	DX2-606-BL53
	4-way, 3-position, center exhaust	2.4	Double solenoid	Internal	Non-locking	DX2-611-BL49	DX2-611-BL53
	4-way, 3-position, all ports blocked	2.4	Double solenoid	Internal	Non-locking	DX2-616-BL49	DX2-616-BL53

Symbol	Type	Cv	Operator	Pilot	Part number
	4-way, 2-position, spring return	2.5	Single remote pilot	Remote	DX2-421-60
	4-way, 2-position, air return	2.5	Single remote pilot	Remote	DX2-451-60
	4-way, 2-position	2.5	Double remote pilot	Remote	DX2-406-60
	4-way, 3-position, center exhaust	2.4	Double remote pilot	Remote	DX2-411-60
	4-way, 3-position, all ports blocked	2.4	Double remote pilot	Remote	DX2-416-60



Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus


DX ISOMAX Series


Valvair II Series


D

Subbase & Manifold Valve Products


DX2 Series Subbase & Manifolds

Single subbase	Description	1/2" NPT	1/2" BSPP
	Side ported base	PS4111170CP	PS4111180CP

Manifold bases	Description	1/2" NPT	1/2" BSPP
	Bottom / End ported bases Note: Manifolds include 2 pipe plugs	PS4111670CP	PS4111680CP

End plate kits	Description	NPT port	BSPP port
	H2 Non-collective wiring end plates	PS4131010CP	PS4131011CP

5599-1, DX2 Accessories

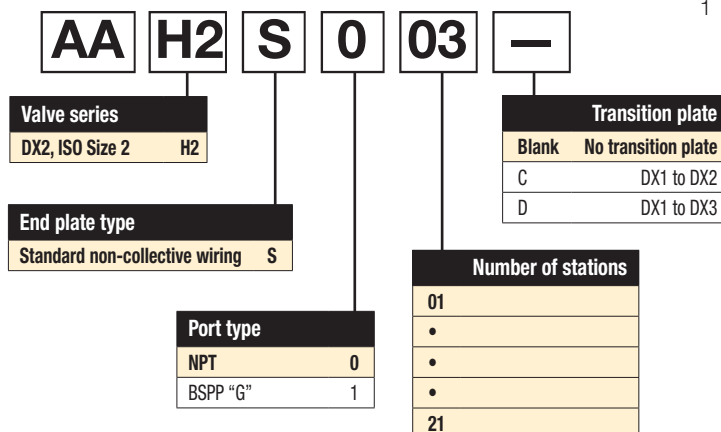
Accessories	Description	Part number
Sandwich regulator 	Common pressure 5-125 PSIG w/ gauge	PS4137166CP
	Independent pressure 5-125 PSIG w/ gauge	PS4137266CP
Remote pilot access plate kit	1/8" NPT	PS411500CP
	1/8" BSPP	PS411501CP
Blanking plate kit		PS4134CP
Sandwich flow control		PS4142CP
Manifold to manifold gasket kit		PS4113P
Manifold port isolation kits	Main galley (1, 3, 5)	PS4132CP
Manifold port isolation kits	Pilot galley	PS4033CP

How To Order Add-A-Fold Assemblies

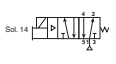
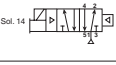
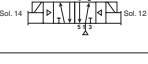

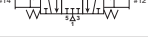
- List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
- List complete valve/base model number. List left to right, looking at the cylinder ports on the #12 end of the manifold. The left most station is station 1.
(If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)

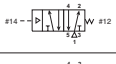
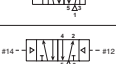
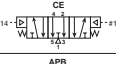
Example: Application requires a 3-station manifold.

Qty.	Part No.
1	AAH2S003
1	DX2-621-BL49..... Valve Station 1
1	PS4111570CP.....Base Station 1
1	DX2-616-BL49 Valve Station 2
1	PS4111570CP.....Base Station 2
1	DX2-611-BL49 Valve Station 3
1	PS4111570CP.....Base Station 3



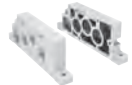


DX3 ISO Valves


Symbol	Type	Cv	Operator	Pilot	Override	24 VDC	120 VAC
	4-way, 2-position, spring return	4.15	Single solenoid	Internal	Non-locking	DX3-621-BL49	DX3-621-BL53
					Locking	DX3-621-CL49	DX3-621-CL53
	4-way, 2-position, air return	4.15	Single solenoid	Internal	Non-locking	DX3-651-BL49	DX3-651-BL53
					Locking	DX3-651-CL49	DX3-651-CL53
	4-way, 2-position	4.15	Double solenoid	Internal	Non-locking	DX3-606-BL49	DX3-606-BL53
					Locking	DX3-606-CL49	DX3-606-CL53
	4-way, 3-position, center exhaust	4.0	Double solenoid	Internal	Non-locking	DX3-611-BL49	DX3-611-BL53
					Locking	DX3-611-CL49	DX3-611-CL53
	4-way, 3-position, all ports blocked	4.0	Double solenoid	Internal	Non-locking	DX3-616-BL49	DX3-616-BL53
					Locking	DX3-616-CL49	DX3-616-CL53

Symbol	Type	Cv	Operator	Pilot	Part number
	4-way, 2-position, spring return	4.15	Single remote pilot	Remote	DX3-421-60
					DX3-451-60
	4-way, 2-position, air return	4.15	Single remote pilot	Remote	DX3-406-60
					DX3-411-60
	4-way, 3-position, center exhaust	4.0	Double remote pilot	Remote	DX3-416-60
					DX3-416-60

DX3 Series Subbase & Manifolds

Single subbase	Description	3/4" NPT	3/4" BSPP
	Side ported base	PS4211170CP	PS4211180CP
Manifold bases	Description	3/4" NPT	3/4" BSPP
	Bottom / End ported bases Note: Manifolds include 2 pipe plugs	PS4211690CP	PS4211600CP
End plate kits	Description	NPT port	BSPP port
	H3 Non-collective wiring end plates	PS4231010CP	PS4231011CP

5599-1, DX3 Accessories

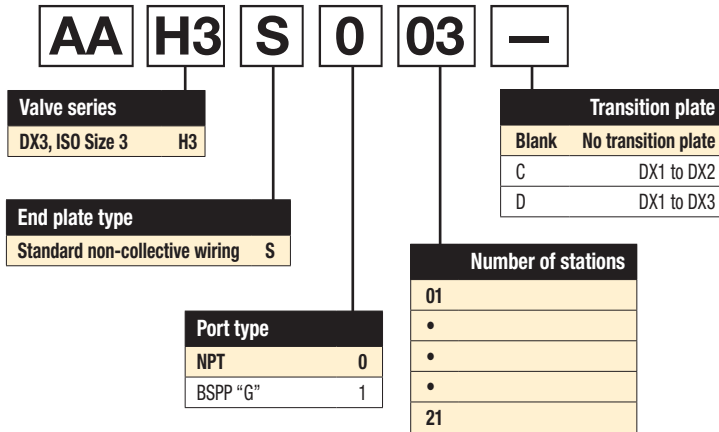
Accessories	Description	Part number
Sandwich regulator 	Common pressure 5-125 PSIG w/ gauge	PS4237166CP
	Independent pressure 5-125 PSIG w/ gauge	PS4237266CP
Remote pilot access plate kit	1/8" NPT	PS421500CP
	1/8" BSPP	PS421501CP
Blanking plate kit		PS4134CP
Sandwich flow control		PS4242CP
Manifold to manifold gasket kit		PS4213P
Manifold port isolation kits	Main galley (1, 3, 5)	PS4232CP
Manifold port isolation kits	Pilot galley	PS4033CP

How To Order Add-A-Fold Assemblies

1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List complete valve/base model number. List left to right, looking at the cylinder ports on the #12 end of the manifold. The left most station is station 1.
 (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)

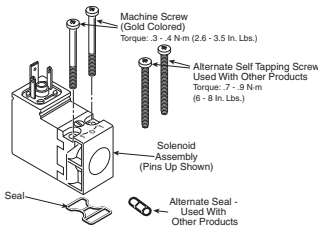
Example: Application requires a 3-station manifold.

Qty.	Part No.
1	AAH3S003
1	DX3-621-BL49..... Valve Station 1
1	PS4111590CPBase Station 1
1	DX3-616-BL49 Valve Station 2
1	PS4111590CPBase Station 2
1	DX3-611-BL49 Valve Station 3
1	PS4111590CPBase Station 3



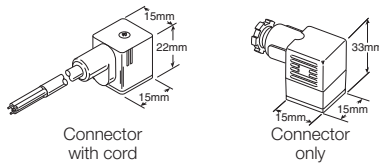
Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

15mm 3-Pin DIN 43650C Replacement Solenoid Kits



Voltage	Non-locking	Locking
24VDC	PS2982B49P	PS2982C49P
110/50, 120/60	PS2982B53P	PS2982C53P

15mm 3-Pin DIN 43650C Connectors



Description	Connector with 6' (2m) Cord	Connector
No circuit board	PS2932JBP	PS2932BP
Light - 24DC	PS2946J79BP*	PS294679BP
Light - 110/120VAC	PS2946J83BP*	PS294683BP

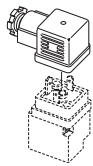
* LED with surge suppression.

Note: Max. ø6.5mm cable size required for connector without 6' (2m) cord. IP65 rated when properly installed.

Engineering Data:

Conductors: 2 poles plus ground
 Cable range (Connector only): 4 to 6mm (0.16 to 0.24 Inch)
 Contact spacing: 8mm

Female Electrical Connectors (IP65 Rated) 30mm, 3-Pin ISO 4400, (DIN 43650A)



Description	Connector with 6' (2m) cord	Connector
Unlighted	PS2028JCP	PS2028BP
Light - 6-48V, 50/60Hz; 6-48VDC	PS2032J79CP*	PS203279BP
Light - 120V/60Hz	PS2032J83CP*	PS203283BP
Light - 240V/60Hz	N/A	PS203283BP

* With surge suppression.

Engineering data:

Conductors: 2 poles plus ground; cable range (connector only): 8 to 10mm (0.31 To 0.39 inch); Contact spacing: 18mm

5599-1 CNOMO Solenoid Kits

Voltage code	3-pin, 30mm 'L' coil kit	2-pin, M12 Euro '6' coil kit
19	—	PS2828619P
42	P2FCA442	—
45	P2FCA445	—
49	P2FCA449	—
53	P2FCA453	—
57	P2FCA457	—

Quantity 1

CNOMO Operator Adapter

Description	Kit number
Operator adapter	PS2855P

Manifold to Manifold Gasket Kits

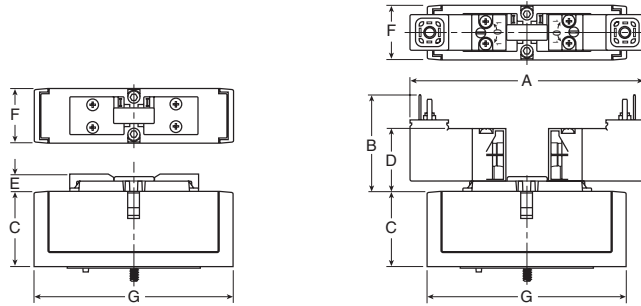
Size	Part number
DX02*	DX02M2MGSKT (PJLP02)
DX01*	DX01M2MGSKT (PJLP01)

* Gaskets used with PS5611 & PS5511 manifolds.

Pilot Operator - CNOMO

Valve size	Kit number
DX1, DX2 & DX3	Locking PS4052CP
	Non-locking PS4053CP

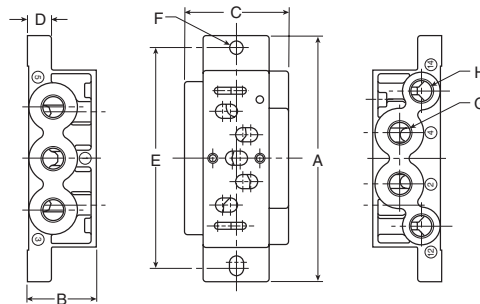
DX01 & DX02 Valve Dimensions



Series	A	B	C	D	E	F	G
DX02	4.06 (103)	1.61 (41)	1.41 (36)	1.06 (27)	.31 (8)	.71 (18)	3.15 (80)
DX01	4.06 (103)	1.61 (41)	1.41 (36)	1.06 (27)	.31 (8)	1.02 (26)	3.94 (100)

Inches (mm)

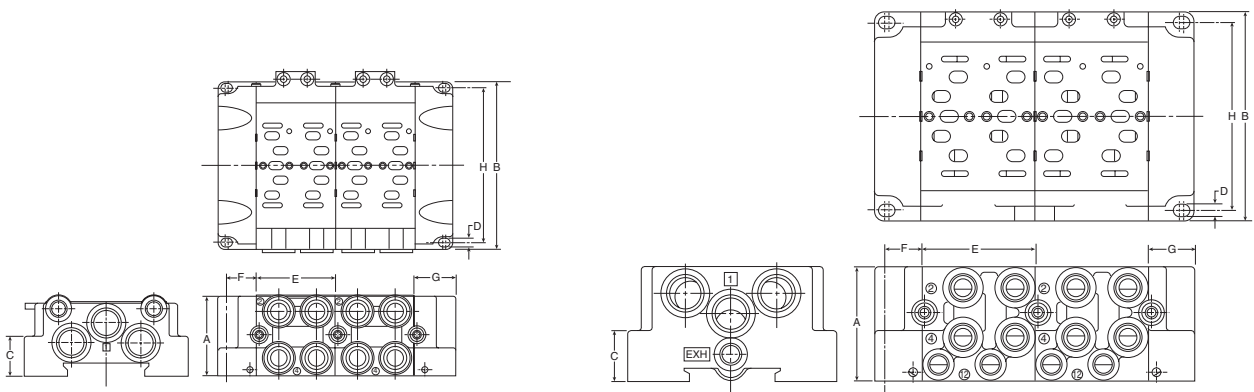
DX01 & DX02 Individual Subbase Dimensions



Series	Part number	A	B	C	D	E	F	G	H
DX02	PL02	3.15 (80)	.87 (22)	1.06 (27)	.31 (8)	2.76 (70)	.216 Dia. (Ø 5.5)	1/8	M5
DX01	PL01	3.94 (100)	1.10 (28)	1.65 (42)	.39 (10)	3.54 (90)	.216 Dia. (Ø 5.5)	1/4	1/8

Inches (mm)

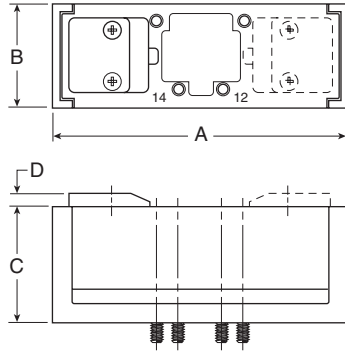
DX01 & DX02 2-Station Manifold Base Dimensions



Series	Part number	A	B	C	D	E	F	G	H
DX02	PJLP02 / PEJ02	1.52 (38.5)	3.15 (80)	.47 (12)	.165 Dia. (Ø 4.2)	1.50 (38)	.55 (14)	.71 (18)	2.83 (72)
DX01	PJL01 / PJLP01 / PEJ01	2.17 (55)	3.94 (100)	.94 (24)	.216 Dia. (Ø 5.5)	2.13 (54)	.67 (17)	.87 (22)	3.54 (90)

Inches (mm)

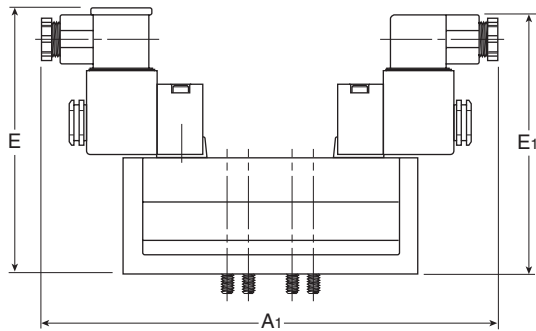
DX1, DX2 & DX3 Air Operated Valve Dimensions



Series	A	B	C	D
DX1	4.72 (120)	1.65 (42)	1.85 (47)	.20 (5)
DX2	5.51 (140)	2.13 (54)	2.30 (58.5)	.20 (5)
DX3	6.69 (170)	2.68 (68)	2.80 (71)	.20 (5)

Inches (mm)

DX1, DX2 & DX3 Solenoid Operated Valve Dimensions



Series	A1	E	E1	E2
DX1	7.97 (202.5)	4.43 (112.5)	4.69 (119)	4.53 (115)
DX2	8.58 (218)	4.86 (123.5)	5.12 (130)	4.98 (126.5)
DX3	9.27 (235.5)	5.35 (136)	5.61 (142.5)	5.47 (139)

Inches (mm)

Modulflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus
Series

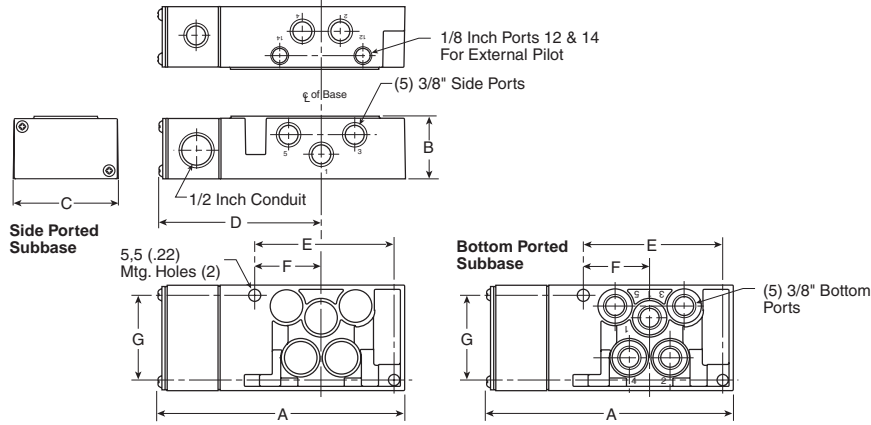
DX ISOMAX
Series

Valvair II
Series

D

Subbase & Manifold
Valve Products

DX1 Subbase Dimensions

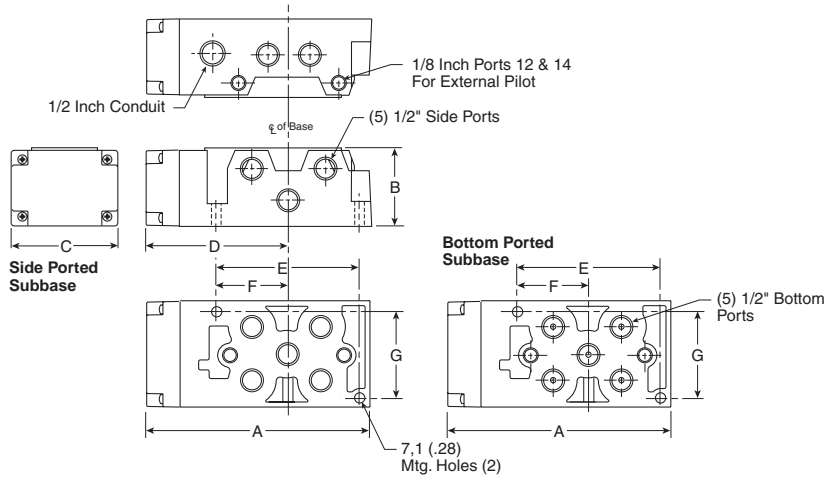


PS4011 Subbase

A	B	C	D
5.83 (148)	1.48 (38)	2.50 (64)	3.86 (98)
E	F	G	
3.29 (84)	1.57 (40)	2.00 (51)	

Inches (mm)

DX2 Subbase Dimensions

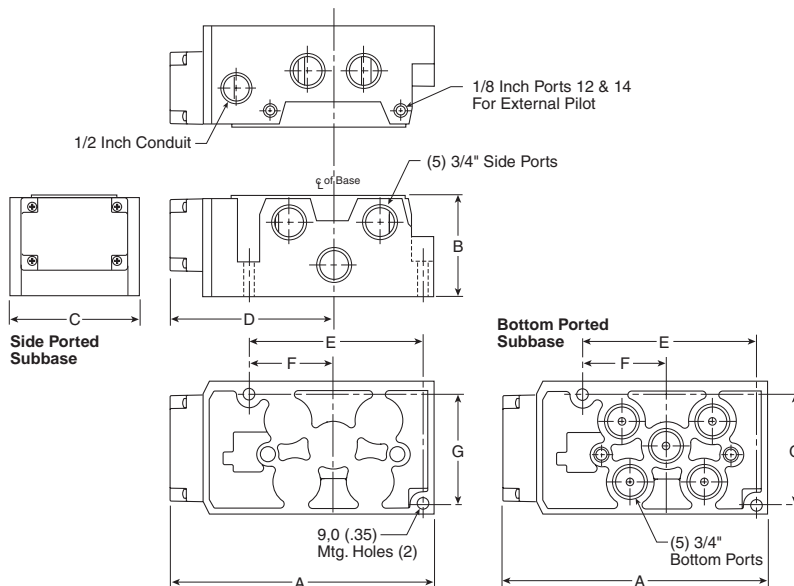


PS4111 Subbase

A	B	C	D
6.69 (170)	2.33 (59)	3.15 (80)	4.25 (108)
E	F	G	
4.21 (107)	2.07 (52)	2.56 (65)	

Inches (mm)

DX3 Subbase Dimensions



PS4211 Subbase

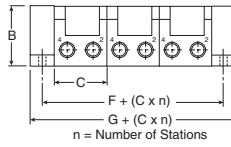
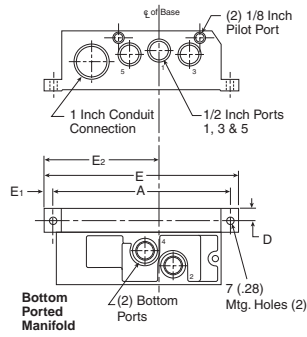
A	B	C	D
7.90 (201)	2.96 (75)	3.90 (990)	4.92 (125)
E	F	G	
5.14 (131)	2.50 (64)	3.24 (82)	

Inches (mm)

- Modulflex Series
- Isys Micro Series
- Isys ISO Series
- Fieldbus Series
- DX ISOMAX Series
- Valvair II Series
- Subbase & Manifold Valve Products



DX1 Manifold Dimensions



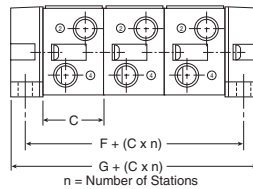
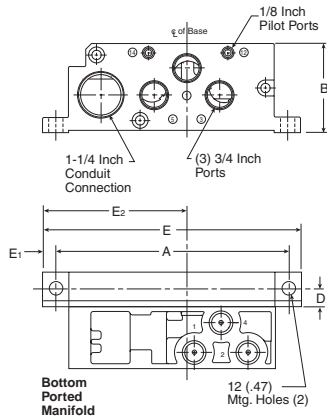
PS4011 Manifold

A	B	C	D	E
6.50 (165)	2.20 (56)	1.93 (49)	.44 (11)	7.15 (182)

E1	E2	F	G
.33 (8)	4.25 (108)	.87 (22)	1.80 (46)

Inches (mm)

DX2 Manifold Dimensions



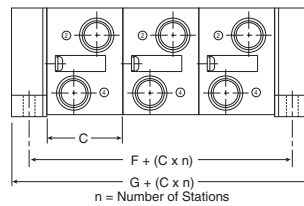
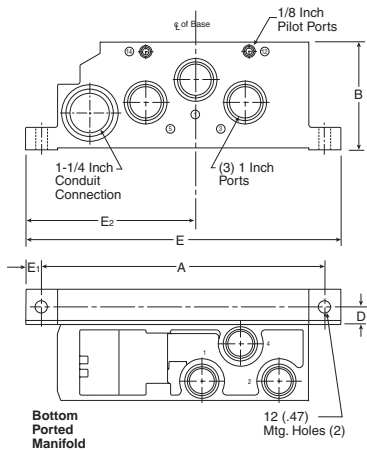
PS4111 Manifold

A	B	C	D	E
8.46 (215)	3.35 (85)	2.20 (56)	.59 (15)	9.41 (239)

E1	E2	F	G
.47 (12)	5.28 (134)	1.18 (30)	2.36 (60)

Inches (mm)

DX3 Manifold Dimensions



PS4211 Manifold

A	B	C	D	E
10.41 (265)	4.13 (105)	2.80 (71)	.65 (175)	11.61 (295)

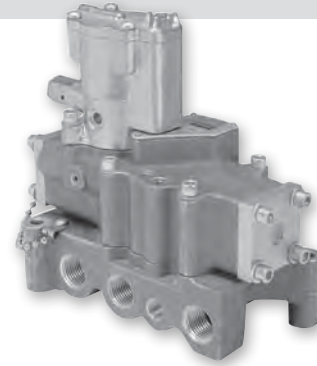
E1	E2	F	G
.59 (15)	6.26 (159)	1.30 (33)	2.60 (63)

Inches (mm)

Valvair II Series

Features

- Full air operation for fastest response
- “Plug-In” option simplifies maintenance and installation
Reduces downtime. No wiring or plumbing to disturb
- “Direct pipe” design for economy and performance
- Variety of operators available; direct conduit, (JIC) junction box, NEMA 4, hazardous duty, (UL, CSA), and remote air pilot
- Field convertible to external pilot supply for vacuum or other services
- Synthetic rubber o-ring seals are specially compounded for minimum compression and friction for superior wear and abrasion resistance
- Precision ground spool “floats” on o-ring seals. Closed center cross-over design saves air
- General Purpose Approvals
 - CSA - Canadian Standards Association
File number 42024
- Hazardous Duty Approvals
 - UL - Underwriters Laboratories, Inc.
File number E42542 Category Y107
 - CSA - Canadian Standards Association
File number 24349



Operating information

Pressure range for solenoid operated valves

Media	Internal pilot supply				External pilot supply			
	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1"	
Air	35-140* PSIG				N.A.	Main	0-250 PSIG	
						Pilot	35-140* PSIG	
Vacuum	do not use				N.A.	Main	within 1 Hg of perfect	
						Pilot	35-140* PSIG	

Other Consult supplier

* 200 PSIG solenoid is optional (consult supplier).

Pressure range for remote pilot operated valves

Media		Valve type	
		Single	Double & 3-position
Air	Main	35-250 PSIG	0-250 PSIG
	Pilot	35-200 PSIG	35-200 PSIG
Vacuum	Main	Do not use	Within 1" Hg of perfect
	Pilot	Do not use	35-200 PSIG

Other Consult supplier

Ambient temperature – standard service solenoid operator

Minimum	Maximum	
	Intermittent duty	Continuous duty
0°F	125°F	100°F

Special service (continuous duty) solenoid operator

0°F	125°F	125°F
-----	-------	-------

Ambient temperature – remote pilot operated valves

0°F	200°F
-----	-------

Material specifications

Manifolds & subbases	Aluminum alloy	
Other seals	Nitrile	
Resilient seals: in valve body		
Dynamic	Polyurethane base on 3/8" basic valves*	
Static / dynamic	Nitrile base w / 12% Molybdenum Disulphide on 1/4" & 1/2" basic valves	
Shock pads	Polyurethane	
Solenoid bodies	Plated zinc alloy	
Internal components	Corrosion resistant steel	
Resilient seals	Standard service	Nitrile
	Special service (continuous duty)	Fluorocarbon & Silicone
Other seals	Nitrile	
Coil	Class “B” epoxy encapsulated (Class “H” also available on some models, consult supplier)	
Valve bodies	Aluminum alloy	
Valve spacers	Brass	
Valve spool	Aluminum alloy with special coating on 3/8" basic valves*.	
	Hard chrome plated AISI type 416 stainless steel on 1/4" & 1/2" basic valves.	

* These materials are specially designed for valves used on non-lubricated service

As the above chart indicates, Standard Duty Solenoids may be used on continuous duty but ambient temperature is de-rated.

In some cases, Special Service Solenoids may be rated for higher ambient temperatures (consult supplier).





Caution:



If it is possible that the ambient temperature may fall below freezing, the medium must be moisture free to prevent internal damage and unpredictable behavior.

Most popular.





4-way, 5-port, 2-position, Plug-in

L675 (3/8" basic valve) Single solenoid	L655 (3/8" basic valve) Double solenoid	Nominal Cv	Port size (NPT)	Subbase (Side ports)	Manifold† (End & bottom ports)	Voltage	Valve only						
							Single solenoid	Double solenoid					
		4.8	3/8"	K022090	K142230	120V 60Hz	L6753910253	L6553910253					
							4.8	1/2"	K022091	K142231	110V 50Hz	L6753910253	L6553910253
							4.8	3/4"	K022101	K142270	24VDC	L6753310249	L6553310249



L675 (1" basic valve) Single solenoid	L655 (1" basic valve) Double solenoid	Nominal Cv	Port size (NPT)	Subbase (Side ports)	Manifold† (End & bottom ports)	Voltage	Valve only						
							Single solenoid	Double solenoid					
		11.3	1"	K022095	K142230	120V 60Hz	L6758910253	L6558910253					
							11.3	1"	K022095	K142231	110V 50Hz	L6758310249	L6558310249
							11.3	1"	K022095	K142270	24VDC	L6758310249	L6558310249



4-way, 5-port, 3-position, Plug-in

L665 (3/8" basic valve) Double solenoid	Nominal Cv	Port size (NPT)	Subbase (side ports)	Manifold † (end & bottom ports)	Voltage	Valve only						
						Double solenoid						
	4.8	3/8"	K022090	K142230	120V 60Hz	L6653921153						
						4.8	1/2"	K022091	K142231	110V 50Hz	L6653921153	
						4.8	3/4"	K022101	K142270	24VDC	L6653321149	



L665 (1" basic valve) Double solenoid	Nominal Cv	Port size (NPT)	Subbase (side ports)	Manifold (end & bottom ports)	Voltage	Valve only						
						Double solenoid						
	11.3	1"	K022095	K142230	120V 60Hz	L6658921153						
						11.3	1"	K022095	K142231	110V 50Hz	L6658921153	
						11.3	1"	K022095	K142270	24VDC	L6658321149	

4-way, 5-port, 2-position, Direct Pipe Ported

L705 (3/8" basic valve) single solenoid	L685 (3/8" basic valve) double solenoid	Port size (NPT)		Nominal Cv	Voltage	Operator type	Valve	
		P, A & B	EA & EB				Single solenoid	Double solenoid
		3/8"	1/2"	4.8	120V 60Hz	Junction box	L7053910253	L6853910253
							L7054910253	L6854910253
		3/8"	1/2"	4.8	24VDC	Junction box	L7053610249	L6853610249
							L7054610249	L6854610249
		3/8"	1/2"	4.8	120V 60Hz	Basic	L7053310253	L6853310253
							L7054310253	L6854310253
L7054310253	L6854310253							

L705 (1" basic valve) single solenoid	L685 (1" basic valve) double solenoid	Port size (NPT)		Nominal Cv	Voltage	Operator type	Valve	
		P, A & B	EA & EB				Single solenoid	Double solenoid
		1"	1-1/4"	12.0	120V 60Hz	Junction box	L7058910253	L6858910253
							L7059910253	L6859910253
		1"	1-1/4"	12.0	24VDC	Junction box	L7058610249	L6858610249
							L7059610249	L6859610249

4-way, 5-port, 3-position, Direct Pipe Ported

L695 (3/8" basic valve) double solenoid	L695 (1" basic valve) double solenoid	Port size (NPT)		Nominal Cv	Voltage	Operator type	Valve	
		P, A & B	EA & EB				3/8" basic size	1" basic size
		3/8"	1/2"	4.5	120V 60Hz	Junction box	L6953921153	—
							L6954921153	—
		1"	1-1/4"	12.0	110V 50Hz	Junction box	—	L6958921153
							—	L6959921153

† Manifolds include mounting hardware, except for port adapters.



Modulflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus

DX ISOMAX
Series

Valvair II
Series

D
 Subbase & Manifold
 Valve Products

Lubricated Non-Lubricated Service
2-position, Plug-In, 3/8" & 1" Basic Size

- Modulflex Series
- Isys Micro Series
- Isys ISO Series
- Fieldbus
- DX ISOMAX Series
- Valvair II Series
- D** Subbase & Manifold Valve Products

L 67 5 3 9 10 2 53

Type	
Double	65
Single	67

Operator	
Remote	4
Solenoid	5

Size	
3/8" Basic	3
1" Basic	8

Operator options	
Solenoid (basic) or remote	1
Solenoid with locking override	3
Solenoid w/light (120VAC, 24VDC) & non-locking override	8
Solenoid w/light (120VAC, 24VDC) & locking override	9

Voltage & frequency			
	60Hz	50Hz	DC
45			12
49			24
53	120	110	
57	240	220	

Duty Cycle	
2	Standard service, solenoid or remote
4	Continuous service solenoid

Enclosure "Class"	
10	Standard (NEMA 1 & 12) or remote

Lubricated or Non-Lubricated Service
3-position, Plug-In, 3/8" & 1" Basic Size

L 66 5 3 9 21 1 53

Type	
Double	66

Operator	
Remote	4
Solenoid	5

Size	
3/8" Basic	3
1" Basic	8

Operator options	
Solenoid (basic) or remote	1
Solenoid with locking override	3
Solenoid w/light (120VAC, 24VDC) & non-locking override	8
Solenoid w/light (120VAC, 24VDC) & locking override	9

Voltage & frequency			
	60Hz	50Hz	DC
45			12
49			24
53	120	110	
57	240	220	

Duty cycle	
1	Standard service, solenoid or remote
5	Continuous service solenoid

Enclosure "class"	
21	All ports blocked in neutral (NEMA 1 & 12 enclosure) or remote
22	Cyl. Ports open to exhaust in neutral (NEMA 1 & 12 enclosure) or remote
23	Cyl. Ports open to inlet in neutral (NEMA 1 & 12 enclosure) or remote

Lubricated or Non-Lubricated Service
2-position, Direct Pipe Ported, 3/8" & 1" Basic Size

L	70	5	3	9	10	2	53	—
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Type	
Double	68
Single	70

Operator	
Remote	4
Solenoid	5

Size	
3/8" NPT inlet & cylinder 1/2" NPT exhaust	3
1/2" NPT inlet, cylinder & exhaust	4
1" NPT inlet & cylinder 1-1/4" NPT exhaust	8
1-1/4" NPT inlet cylinder & exhaust	9*

* Not available operator option 4 - Remote pilot.

Operator options	
Solenoid (basic) or remote	1
Solenoid with locking override	3
Solenoid w/ junction box & locking override	6
Solenoid w/ junction box & light (120VAC, 24VDC) & non-locking override	8
Solenoid w/ junction box & light (120VAC, 24VDC) & locking override	9

Voltage & frequency			
	60Hz	50Hz	DC
45			12
49			24
53	120	110	
57	240	220	

Lead length	
Blank	19" (Standard)

Duty cycle	
2	Standard service, solenoid or remote
4	Continuous service solenoid

Enclosure "Class"	
10	Standard (NEMA 1 & 12) or remote
60*†	Hazardous duty (NEMA 7 & 9)
80*†	NEMA 4

* Voltage 49 / 53 only.
 † Use with operator options 1, 2 & 3 only, voltage 53 only.

Lubricated or Non-Lubricated Service
3-position, Direct Pipe Ported, 3/8" & 1" Basic Size

L	69	5	3	9	21	1	53	—
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Type	
Double	69

Operator	
Remote	4
Solenoid	5

Size	
3/8" NPT inlet & cylinder 1/2" NPT exhaust	3
1/2" NPT inlet, cylinder & exhaust	4
1" NPT inlet & cylinder 1-1/4" NPT exhaust	8
1-1/4" NPT inlet cylinder & exhaust	9*

* Not available operator option 4 - Remote pilot.

Operator options	
Solenoid (basic) or remote	1
Solenoid with locking override	3
Solenoid w/ junction box & locking override	6
Solenoid w/ junction box & light (120VAC, 24VDC) & non-locking override	8
Solenoid w/ junction box & light (120VAC, 24VDC) & locking override	9

Voltage & frequency			
	60Hz	50Hz	DC
45			12
49			24
53	120	110	
57	240	220	

Lead length	
Blank	19" (Standard)


Duty cycle	
1	Standard service, solenoid or remote
5	Continuous service solenoid

Enclosure "Class"	
All ports blocked in neutral	
21	Standard (NEMA 1 & 12) or remote
71*†	Hazardous duty (NEMA 7 & 9)
91*†	NEMA 4
Cylinder ports open to exhaust in neutral	
22	Standard (NEMA 1 & 12) or remote
72*†	Hazardous duty (NEMA 7 & 9)
92*†	NEMA 4
Cylinder ports open to inlet in neutral	
23	Standard (NEMA 1 & 12) or remote
73*†	Hazardous duty (NEMA 7 & 9)
93*†	NEMA 4

* Voltage 49 / 53 only.
 † Use with operator options 1, 2 & 3 only, voltage 53 only.


Modulflex Series
Isys Micro Series
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DX ISOMAX Series
Valvair II Series
D
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Plug-in Pilot


	Description	Standard service		Special service	
	Override type	Locking	Non-locking	Locking	Non-locking
	With override (120VAC)	K175903553	K175803553	K185902553	K185802553
With override (Other than 120VAC)	K1753035**	—	K1853025**	—	

** Voltage code - (reference model index for availability)

NEMA 1 & 12

	Description	Standard service		Special service	
	Override type	Locking	Non-locking	Locking	Non-locking
	Basic with override	K0653035**	—	K0853025**	—



Basic Pilot

	JIC with junction box & override	K0656035**	K0655035**	K0856025**	K0855025**
	JIC pilot with junction box & override & indicator lights (120VAC Only)	K0659035**	K0658035**	K0859025**	K0858025**

JIC Pilot

** Voltage code - (reference model index for availability)

NEMA 4, 7 & 9

	Description	Standard service		Special service	
	Override type	Locking	Non-locking	Locking	Non-locking
	Hazardous duty pilot - UL & CSA	K0251035***	—	K0451025***	—
NEMA 4 pilot	K2351035***	—	—	—	
	Hazardous duty with override	K0253035***	K0252035***	K0453025***	K0452025***
	NEMA 4 with override	—	K2353035***	K2352035***	—

Hazardous Duty

NEMA 4 Pilot

† 49 / 53 only ** Voltage code - (reference model index for availability)

Service Kits

Basic valve	Solenoid operated *						Remote pilot operated	
	Size	Series (prefix)	Standard service (intermittent duty)		Special service ** (continuous duty)		Single	Double 2 & 3-position
			Single	Double 2 & 3-position	Single	Double 2 & 3-position		
3/8"	L65	—	K352126	—	K352127	—	K352355	
	L66	—	K352126	—	K352127	—	K352355	
	L67	K352124	—	K352125	—	K352362	—	
	L68	—	K352126	—	K352127	—	K352355	
	L69	—	K352126	—	K352127	—	K352355	
	L70	K352124	—	K352125	—	K352362	—	
	L65	—	K352130	—	K352131	—	K352360	
1"	L66	—	K352130	—	K352131	—	K352360	
	L67	K352128	—	K352129	—	K352359	—	
	L68	—	K352130	—	K352131	—	K352360	
	L69	—	K352130	—	K352131	—	K352360	
	L70	K352128	—	K352129	—	K352359	—	

Notes:

* Kits for solenoid operated valves include solenoid service kits.

** Special service (continuous duty) solenoids may be identified as having gold colored solenoid tops.



Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

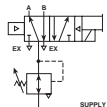
Modular Pneumatic Controls, Plug-In Sandwich Block Design for Modular Port Regulation

These modular regulators assemble to any 3/8" basic valve interface pattern.

Common Port Regulator

Pressure Adjustment	Pressure Range PSIG	Part number	
		Assembly "A"	Assembly "B"
Manual	1 - 60	L55402308C	L55408302C
	2 - 125	L55403308C	L55408303C
Remote	0 - 140	L55411308C	L55408311C

* Assembly "A" places the regulator on the end opposite the electrical junction box. Assembly "B" places the regulator over the electrical junction box.

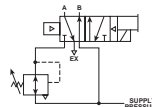


Regulated pressure at both "A" & "B"

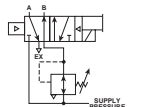
Single Port Regulator

Pressure adjustment	Pressure range PSIG	Part number	
		Cyl. port "A"	Cyl. port "B"
Manual	1 - 60	L55405307C	L55407305C
	2 - 125	L55406307C	L55407306C
Remote	0 - 140	L55414307C	L55407314C

* Assembly "A" places the regulator on the end opposite the electrical junction box. Assembly "B" places the regulator over the electrical junction box. Convert valve to external pilot.



Supply pressure at "B" & regulated at "A"

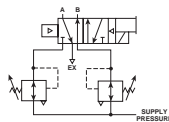


Supply pressure at "A" & regulated at "B"

Independent Port Regulator

Pressure adjustment	Cylinder port "A" PSIG	Part number	
		Cylinder port "B"	
Manual	1 - 60	L55405305C	—
Remote	0 - 140	—	L55414314C†

† Remote operator units 0-140 PSIG. Convert valve to external pilot.



Independently regulated pressure at both "A" & "B"

Blank Station Covers

Manifold assembly	Blank cover kit
K142230	3/8" Basic valve
K142231	3/8" Basic valve
K142270	3/8" Basic valve

Flush Type Hex Drive Pipe Plugs for Port Isolation

Size (NPTF)	Part number
1/8"	K21R02012L
1/4"	K21R02025L
3/8"	K21R02037L
1/2"	K21R02050L
3/4"	K21R02075L

Interchangeable Manual Override Assemblies for Solenoid Operators



Non-locking type	Locking type
K162001	K152003

Replacement Solenoid Coil

L □ □ □ □ □ □ □ □ ** Voltage Code

Voltage code	Voltage			Coil number	
	60 Hz	50 Hz	DC	Plug-In	Flying lead (19") *
49	—	—	24†	K593060 K593274‡	K593014
53	120†	110	—	K593071 K593125‡	K593025
57	240†	220	—	K593081	K593035

Notes: **Bold Face** type indicated primary coil rating.

† Indicates voltages approved for solenoid operators designed for use in hazardous locations.

* 19" Coil lead length is standard. Other lead lengths may be available, consult supplier.

‡ Assembly includes indicator light socket, less light.

Conversion Kits: Lubricated to Non-Lubricated Operation

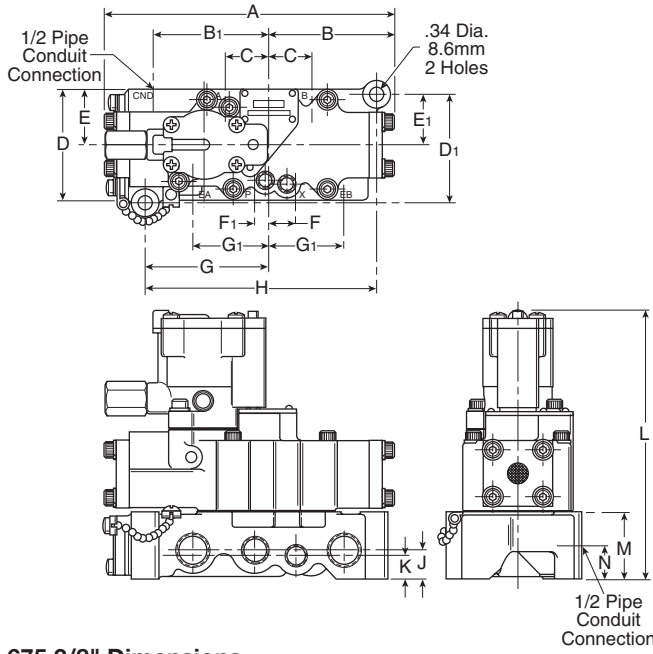
Basic size	Operators (solenoid or remote pilot)	
	Single	Double (2-position)
3/8"	K322012	K322013

Electrical Connectors Single or Double Solenoid Valves

Basic size	Valve body		Subbase / manifold	
	Single solenoid	Double solenoid	19" leads	72" leads
3/8"	H02723	H02722	H02713	H02789
1"				



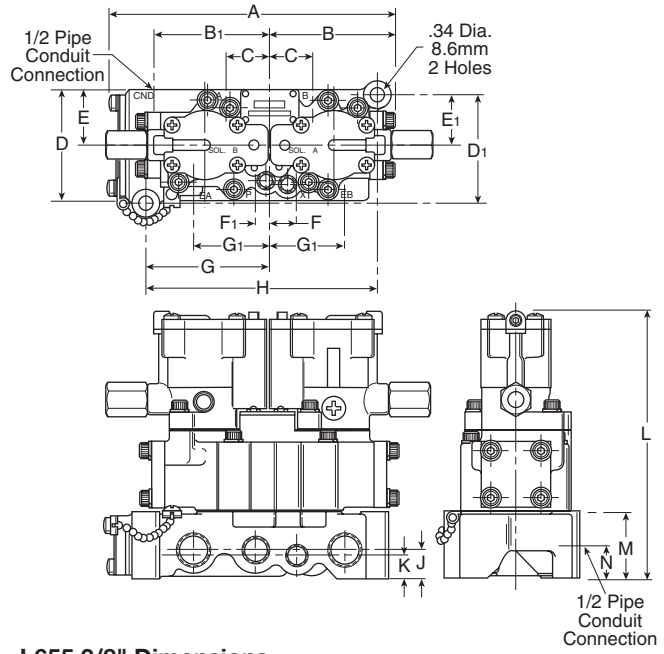
Modulflex Series
 Isys Micro Series
 Isys ISO Series
 Fieldbus
 DX ISOMAX Series
 Valvair II Series
D
 Subbase & Manifold Valve Products



L675 3/8" Dimensions

A	B	B ₁	C	D	D ₁	E	E ₁	F
7.56 (192)	3.32 (84.3)	2.94 (74.7)	1.12 (28.4)	2.88 (73.2)	2.84 (72.1)	1.44 (36.6)	1.34 (34)	.75 (19.1)
F ₁	G	G ₁	H	J	K	L	M	N
.38 (9.7)	3.16 (80.3)	2.00 (50.8)	6.03 (153.2)	.75 (19.1)	.62 (15.7)	6.93 (176)	1.75 (44.5)	1.00 (25.4)

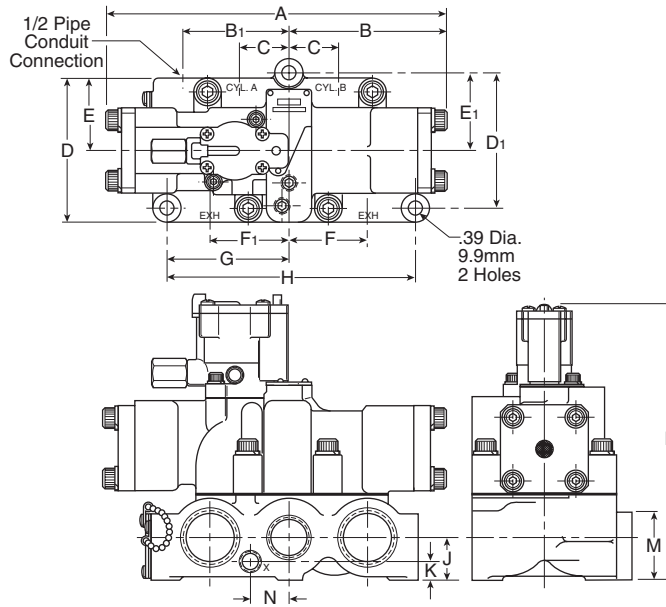
Inches (mm)



L655 3/8" Dimensions

A	B	B ₁	C	D	D ₁	E	E ₁	F
7.38 (187.5)	3.32 (84.3)	2.94 (74.7)	1.12 (28.4)	2.88 (73.2)	2.84 (72.1)	1.44 (36.6)	1.34 (34)	.75 (19.1)
F ₁	G	G ₁	H	J	K	L	M	N
.38 (9.7)	3.16 (80.3)	2.00 (50.8)	6.03 (153.2)	.75 (19.1)	.62 (15.7)	6.93 (176)	1.75 (44.5)	1.00 (25.4)

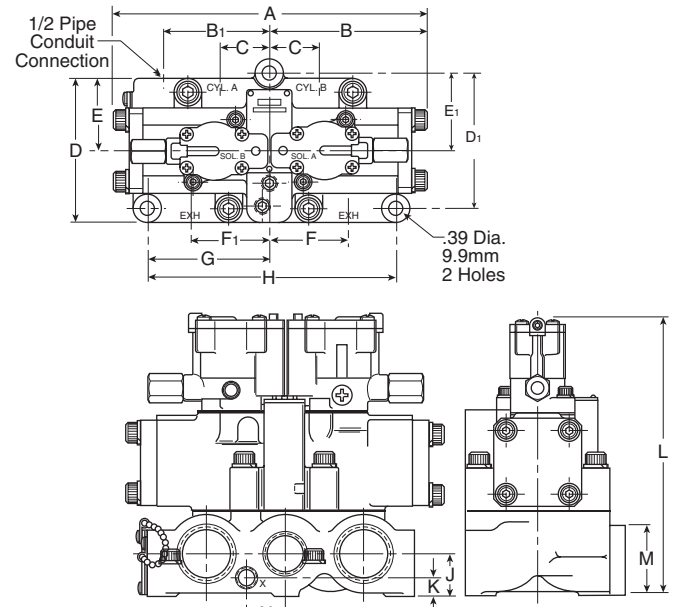
Inches (mm)



L675 1" Dimensions

A	B	B ₁	C	D	D ₁	E	E ₁	F
10.46 (265.7)	4.75 (120.6)	2.94 (74.7)	3.38 (85.8)	4.56 (115.8)	4.28 (108.7)	2.28 (57.9)	2.44 (62)	2.45 (62.2)
F ₁	G	H	J	K	L	M	N	
2.46 (62.5)	3.81 (96.8)	7.62 (193.5)	1.31 (33.3)	.59 (15)	8.74 (222)	2.09 (53.1)	1.22 (31)	

Inches (mm)

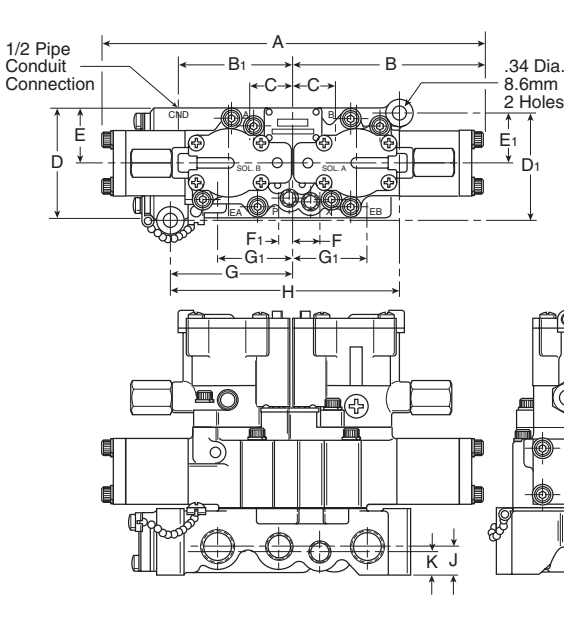


L655 1" Dimensions

A	B	B ₁	C	D	D ₁	E	E ₁	F
9.50 (241.3)	4.75 (120.6)	3.38 (85.8)	1.53 (38.9)	4.56 (115.8)	4.28 (108.7)	2.28 (57.9)	2.44 (62)	2.45 (62.2)
F ₁	G	H	J	K	L	M	N	
2.46 (62.5)	3.81 (96.8)	7.62 (193.5)	1.31 (33.3)	.59 (15)	8.74 (222)	2.09 (53.1)	1.22 (31)	

Inches (mm)

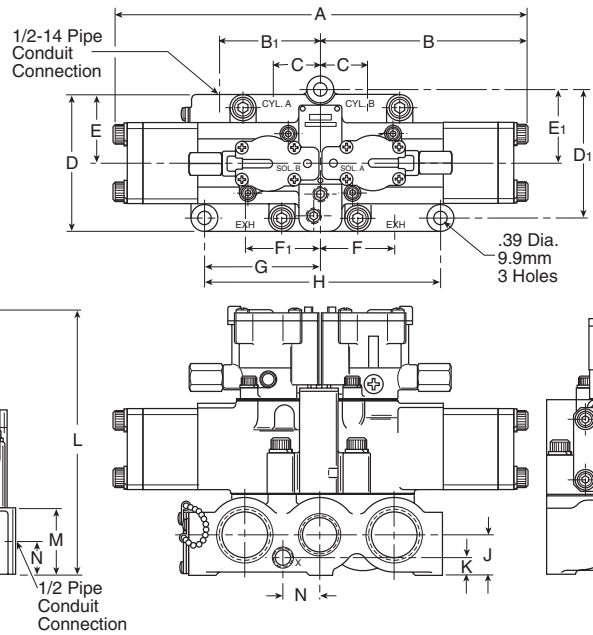




L665 3/8" Dimensions

A	B	B ₁	C	D	D ₁	E	E ₁	F
9.64 (244.8)	4.82 (122.4)	2.94 (74.7)	1.12 (28.4)	2.88 (73.2)	2.84 (72.1)	1.44 (36.6)	1.34 (34)	.75 (19.1)
F ₁	G	G ₁	H	J	K	L	M	
.38 (9.7)	3.16 (80.3)	2.00 (50.8)	6.03 (153.2)	.75 (19.1)	.62 (15.7)	6.93 (176)	1.00 (25.4)	

Inches (mm)



L665 1" Dimensions

A	B	B ₁	C	D	D ₁	E	E ₁	F
13.62 (345.9)	6.81 (173)	3.38 (85.8)	1.53 (38.9)	4.56 (115.8)	4.28 (108.7)	2.28 (57.9)	2.44 (62)	2.45 (62.2)
F ₁	G	H	J	K	L	M	N	
2.46 (62.5)	3.81 (96.8)	7.62 (193.5)	1.31 (33.3)	.59 (15)	8.74 (222)	2.09 (53.1)	1.22 (31)	

Inches (mm)

Modulflex Series

Isys Micro Series

Isys ISO Series

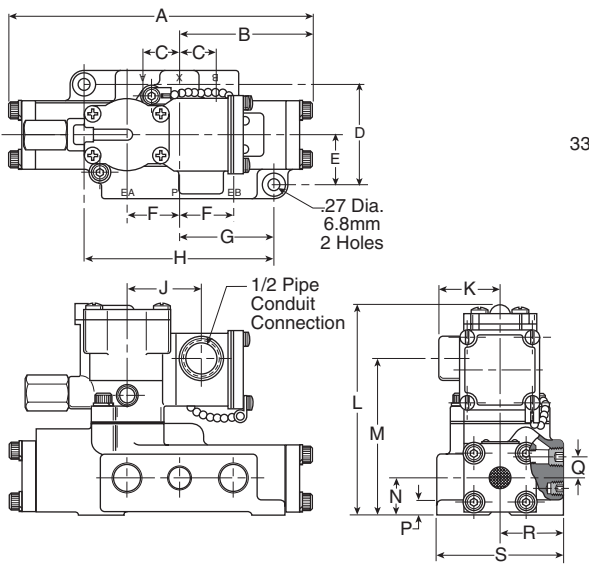
Fieldbus

DX ISOMAX Series

Valvair II Series

D

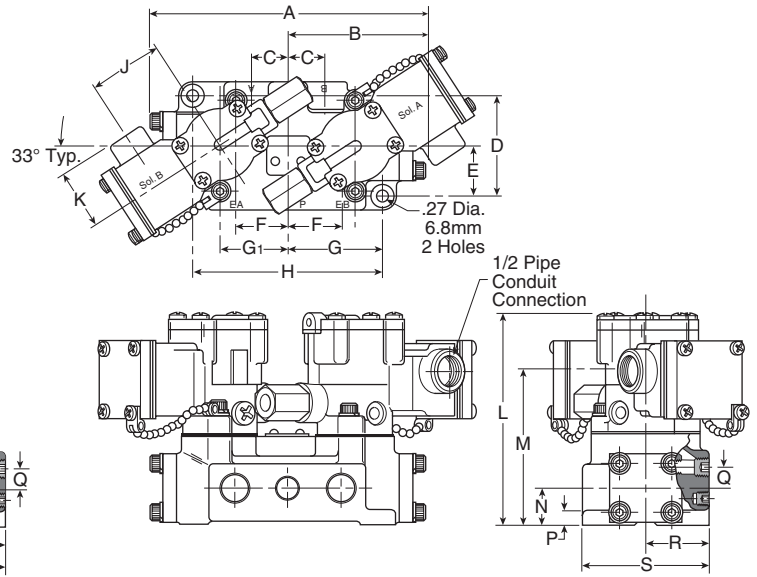
Subbase & Manifold Valve Products



L705 3/8" Dimensions

A	B	C	D	E	F	G	H	J
7.56 (192)	3.32 (84.3)	.90 (22.9)	2.56 (65)	1.28 (32.5)	1.33 (33.8)	2.34 (59.4)	4.69 (119.1)	1.82 (46.2)
K	L	M	N	P	Q	R	S	
1.50 (38.1)	5.35 (135.9)	3.91 (99.3)	.94 (23.9)	.38 (9.7)	.53 (13.5)	1.62 (41.1)	3.25 (82.6)	

Inches (mm)

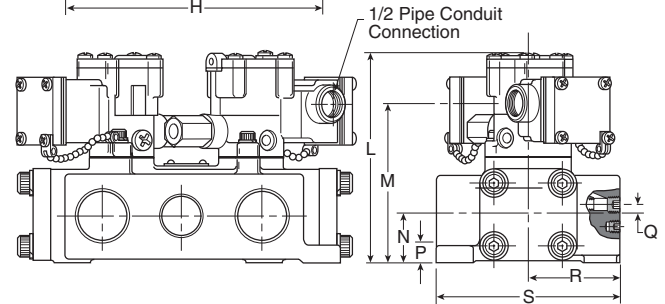
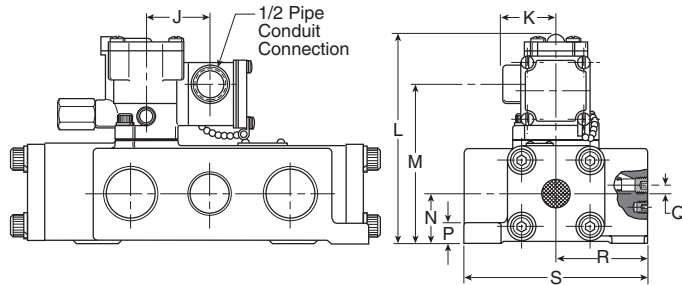
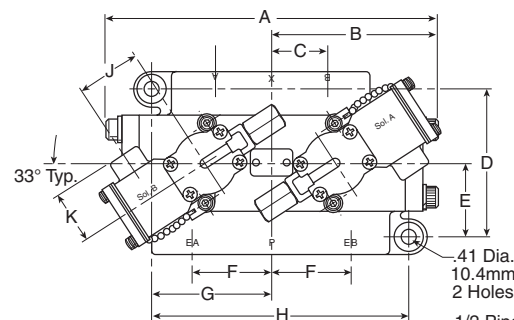
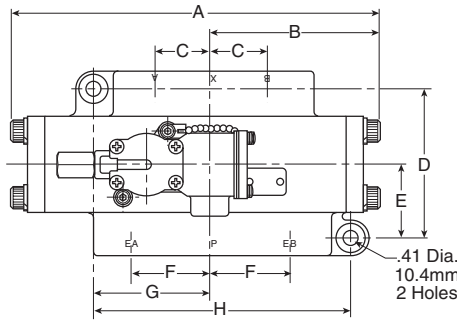


L685 3/8" Dimensions

A	B	C	D	E	F	G	G ₁	H
7.56 (192)	3.32 (84.3)	.90 (22.9)	2.56 (65)	1.28 (32.5)	1.33 (33.8)	2.34 (59.4)	1.66 (42.4)	4.69 (119.1)
J	K	L	M	N	P	Q	R	S
1.82 (46.2)	1.50 (38.1)	5.35 (135.9)	3.91 (99.3)	.94 (23.9)	.38 (9.7)	.53 (13.5)	1.62 (41.1)	3.25 (82.6)

Inches (mm)





L705 1" Dimensions

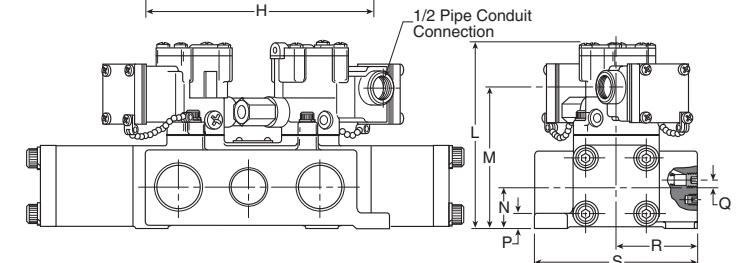
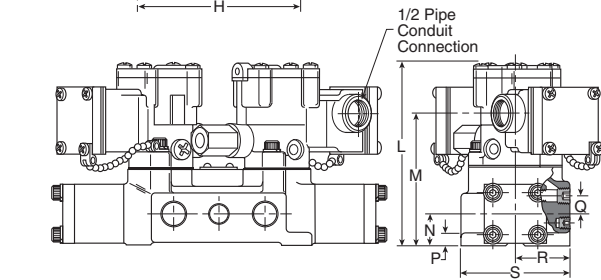
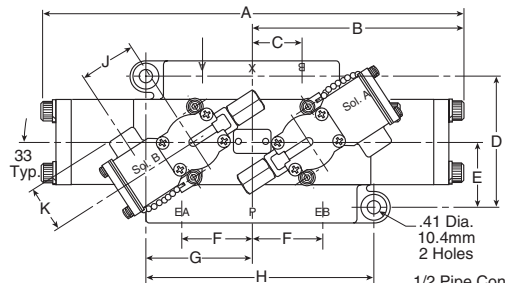
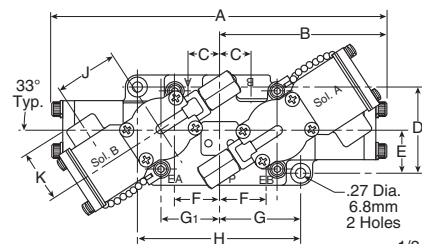
A	B	C	D	E	F	G	H	J
10.46	4.75	1.62	4.25	2.12	2.19	3.44	7.44	1.82
(265.7)	(120.6)	(41.1)	(108)	(53.8)	(55.6)	(87.4)	(189)	(46.2)
K	L	M	N	P	Q	R	S	
1.50	6.44	4.95	1.50	.69	.20	2.62	5.25	
(38.1)	(163.6)	(125.7)	(38.1)	(17.5)	(5.1)	(66.5)	(133.4)	

Inches (mm)

L685 1" Dimensions

A	B	C	D	E	F	G	H	J
9.50	4.75	1.62	4.25	2.12	2.19	3.44	7.44	1.82
(241.3)	(120.6)	(41.1)	(108)	(53.8)	(55.6)	(87.4)	(189)	(46.2)
K	L	M	N	P	Q	R	S	
1.50	6.44	4.95	1.50	.69	.20	2.62	5.25	
(38.1)	(163.6)	(125.7)	(38.1)	(17.5)	(5.1)	(66.5)	(133.4)	

Inches (mm)



L695 3/8" Dimensions

A	B	C	D	E	F	G	G1	H
9.64	4.82	.90	2.56	1.28	1.33	2.34	1.66	4.69
(244.8)	(122.4)	(22.9)	(65)	(32.5)	(33.8)	(59.4)	(42.4)	(119.1)
J	K	L	M	N	P	Q	R	S
1.82	1.50	5.35	3.91	.94	.38	.53	1.62	3.25
(46.2)	(38.1)	(135.9)	(99.3)	(23.9)	(9.7)	(13.5)	(41.1)	(82.6)

Inches (mm)

L695 1" Dimensions

A	B	C	D	E	F	G	H	J
13.63	6.81	1.62	4.25	2.12	2.19	3.44	7.44	1.82
(346.2)	(173)	(41.1)	(108)	(53.8)	(55.6)	(87.4)	(189)	(46.2)
K	L	M	N	P	Q	R	S	
1.50	6.44	4.95	1.50	.69	.20	2.62	5.25	
(38.1)	(163.6)	(125.7)	(38.1)	(17.5)	(5.1)	(66.5)	(133.4)	

Inches (mm)



Modiflex Series
 L705 Series
 L705 ISO Series
 Fieldbus
 DX ISOMAX Series
 Valvair II Series
 Subbase & Manifold Valve Products

Plug-in Manifold, 3/8" Basic

- K142230Cylinder ports 3/8" NPTF
- K142231Cylinder ports 1/2" NPTF
- K142270Cylinder ports 3/4" NPTF
 - Exhaust port..... 1" NPTF
 - Inlet port..... 1" NPTF
 - Conduit port..... 1-1/4" NPTF

Note: Manifold assemblies include mounting hardware.

Modulflex Series
Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products