Valve Products

Subbase & Manifold Valves - Order Today, SHIP TODAY at www.PartsGopher.com
Catalog PDN1000-3US   Valve Products
Parker Pneumatic   **Pictorial Index** - www.parker.com/pneu/valve

Direct Acting Valves

XM Series - Direct Acting

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

D4

15mm Series - Direct Acting

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

D8

Inline Valves

Viking Lite Series - Inline

- 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

D11

Viking Xtreme Series - Inline

- 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

D19

B Series - Inline

- 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

D43

ADEX Series - Inline

- 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

D68

Inline – continued

N Series - Inline Poppet

- 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

D78

Subbase & Manifold Valves

Moduflex Series Valves

- 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

D89

Isys Micro Series

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

D113

Isys ISO Series

- 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

D124

Fieldbus Series

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

D166

D

Pictorial Index
Valve Products

Subbase & Manifold – continued

DX ISOMAX Series

- 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

D185

Valvair II Series

- 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

D198

Manual / Mechanical Valves

Directair 2 & 4

- 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

D208

Viking Xtreme

- 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

D218

42 Series

- 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

D225

Manual / Mechanical – continued

M0 Series

- 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

D227

LV / EZ Lockout Valves

- 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

D231

Brass Poppet, Sliding Seal

- 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

D233

Valve Accessories

Control Panel Products

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

D236

Sensing / Limit Switches

- 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

D240

D

Pictorial Index
Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Moduflex

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
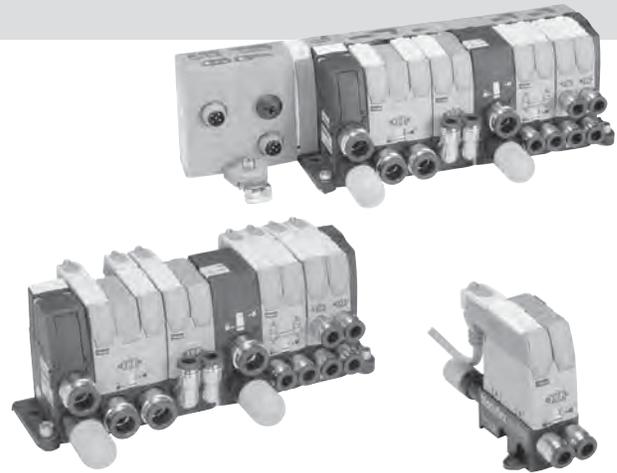- Compatible with PNP or NPN outputs

Certification / approval
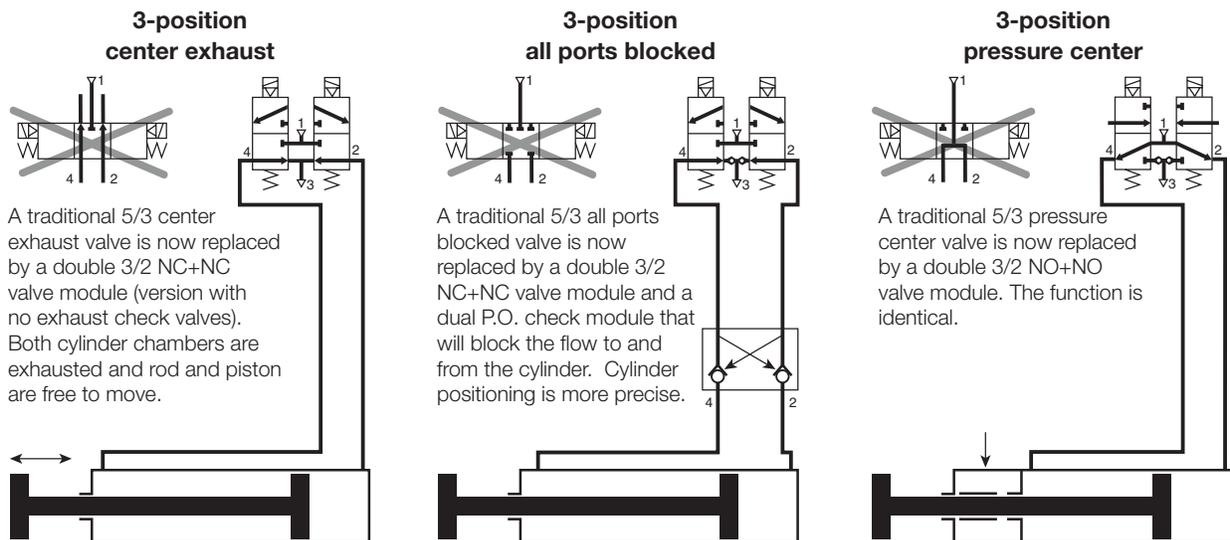- IP65 rated
- CE, as marked

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)

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

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

3-position center exhaust

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

3-position all ports blocked

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

3-position pressure center

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

Most popular.

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Moduflex

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

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

"S" Series Size 1 Accessories

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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

"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**
		3-way, 2-position, dual valve, NC/NC w/ exhaust check	0.44	Double solenoid	**P2M2SDEE2C**
				Double air pilot	**P2M2SDPP**
		3-way, 2-position, dual valve, NO/NO w/ exhaust check	0.44	Double solenoid	**P2M2SCEE2C**
Double Solenoid				Double air pilot	**P2M2SCPP**
		3-way, 2-position, dual valve, NC/NO w/ exhaust check	0.44	Double solenoid	**P2M2SEEE2C**
Double Air Pilot		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

Catalog PDN1000-3US | Valve Products
Parker Pneumatic | **Moduflex**

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

P2M	1	S	4ES	2C	00	A	F4

Basic series

Moduflex	P2M

Size

Size 1	1
Size 2	2

Valve series

Individual subbase	S

Valve type / function

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

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

Example for fitting configuration:
Size 1

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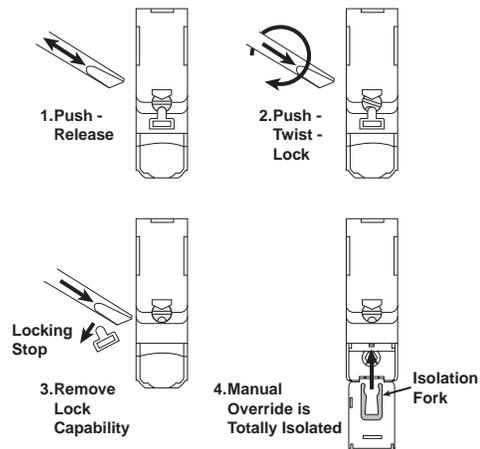& muffler
Ports 2 & 4
1/4" straight fittings

Size 2

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

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

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

1. Push - Release

2. Push - Twist - Lock

Locking Stop

3. Remove Lock Capability

4. Manual Override is Totally Isolated

Isolation Fork

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Moduflex

"T" Series Manifold Valves with Individual Connectors Size 1

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

Single Solenoid

Single Air Pilot

Double Solenoid

Double Air Pilot

"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

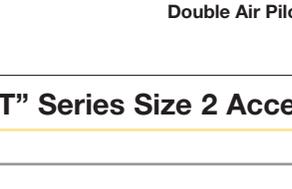**P2M2BXT0A**

Moduflex Series

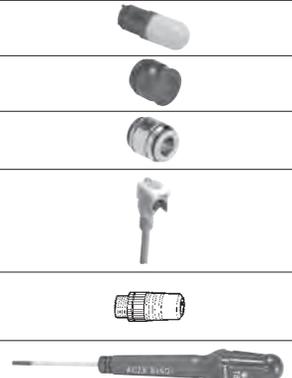Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Moduflex

"T" Series Manifold Valves with Individual Connectors Size 2

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

Single Solenoid

Single Air Pilot

Double Solenoid

Double Air Pilot

"T" Series Size 2 Accessories

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

Manifold Options

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

* Use Fittings for Size 2 Modules Only

P2M2HXT01

P2M2BXT0A
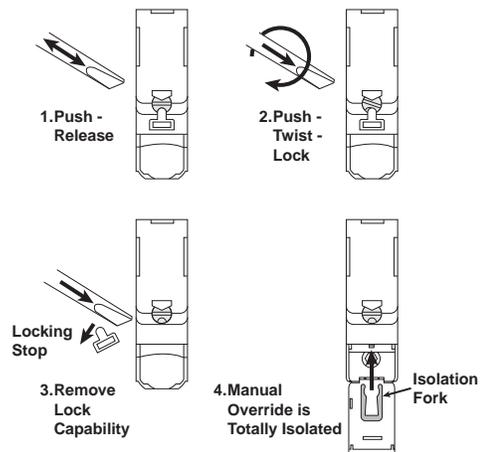
Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Catalog PDN1000-3US

Valve Products

Parker Pneumatic

Moduflex

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

P2M	1	T	4ES	2C	00	0	F4

Basic series
Valvetronic modules	P2M

Size
Size 1	1
Size 2	2

Valve series
Individual wire	T

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

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

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

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

1. Push - Release

2. Push - Twist - Lock

Locking Stop

3. Remove Lock Capability

4. Manual Override is Totally Isolated

Isolation Fork

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Parker Pneumatic　　　　　　　　　　　**Moduflex**

"V" Series Manifold Valves with Collective Wiring Size 1

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

Single Solenoid　　**Double Solenoid**

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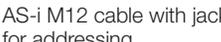
Moduflex Series | Isys Micro Series | Isys ISO Series | Fieldbus | DX ISOMAX Series | Valvair II Series | **D** Subbase & Manifold Valve Products

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Moduflex

Electrical Connections

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

Fieldbus Connections

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

Manifold Options

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

* Use Fittings for Size 2 Modules Only

P2M2HXT01

P2M2BXV0A

Moduflex Series

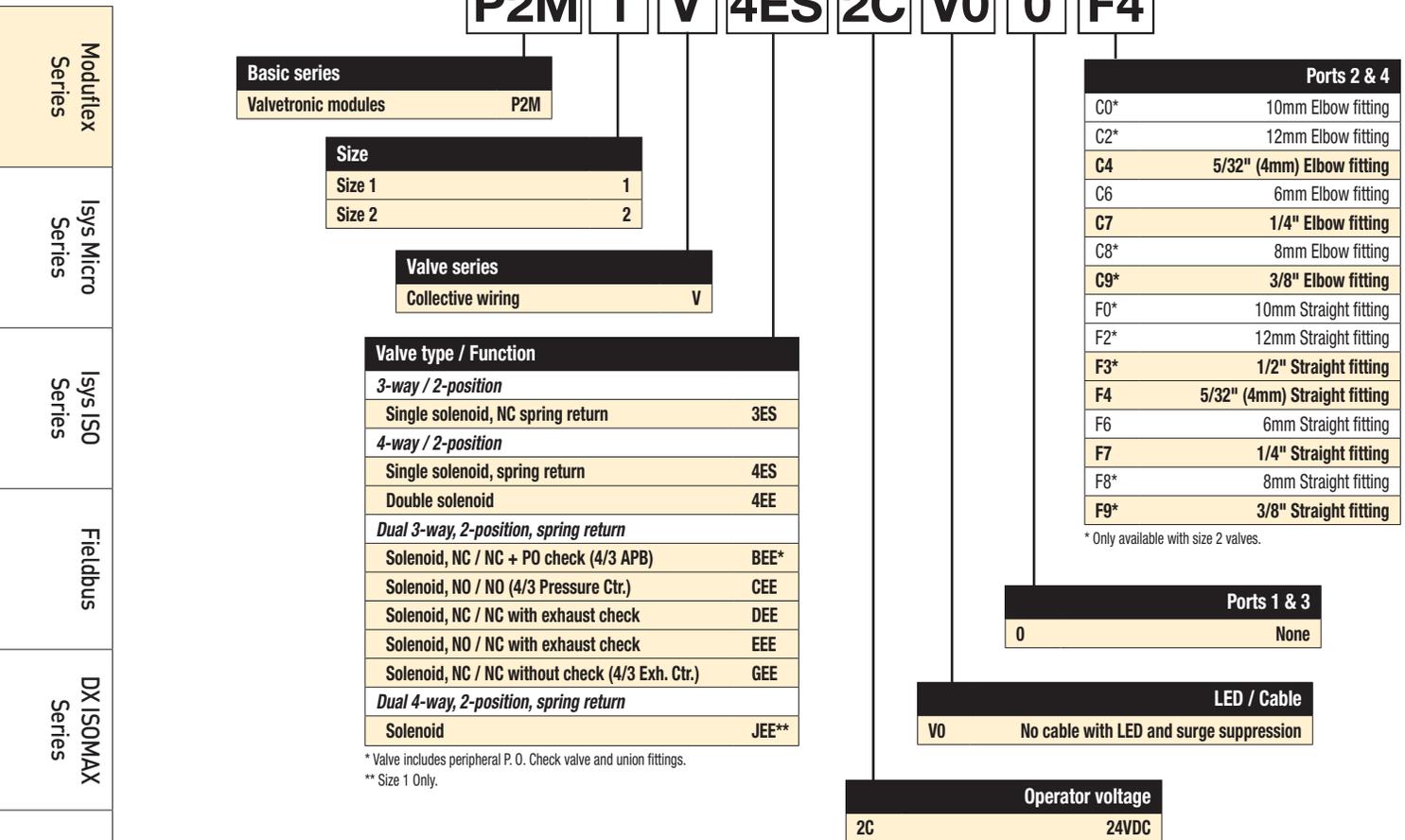Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

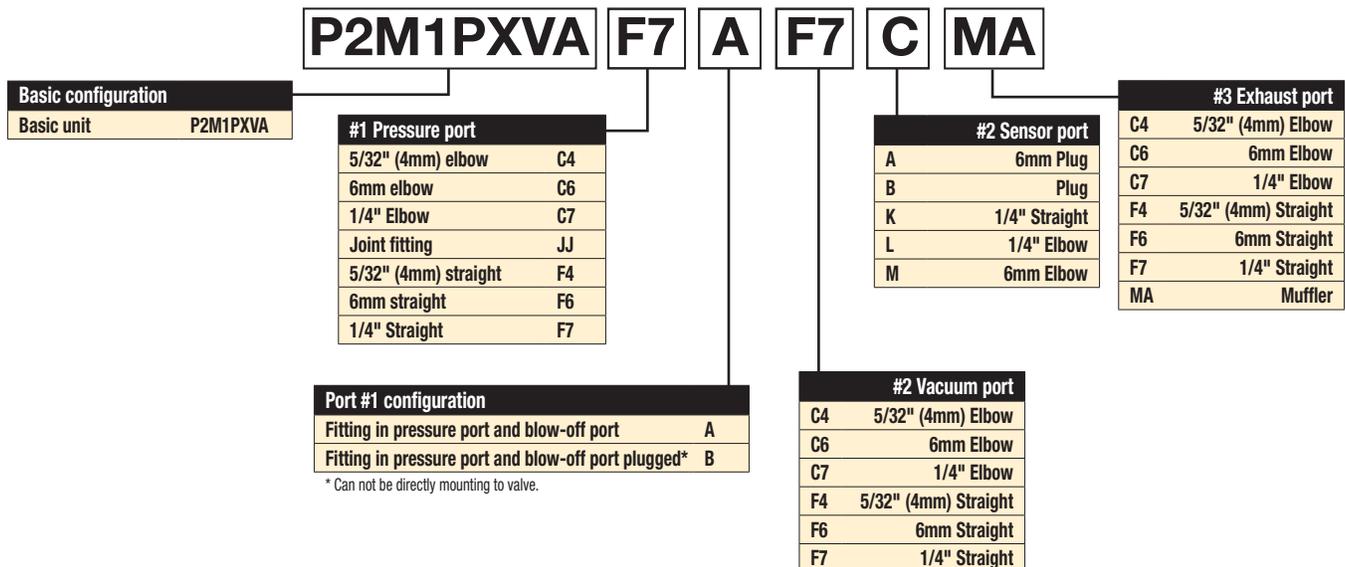## "V" Series Manifold Valves with Collective Wiring Size 2

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

Single Solenoid

Double Solenoid

"V" Series Size 2 Accessories

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

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Valve Products

Moduflex

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
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DeviceNet		**P2M2HBVD21600**
CANopen		**P2M2HBVC21600**
Interbus S		**P2M2HBVS11600**
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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

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Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Moduflex

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

P2M	1	V	4ES	2C	V0	0	F4

Basic series

Valvetronic modules	P2M

Size

Size 1	1
Size 2	2

Valve series

Collective wiring	V

Valve type / Function

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

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

Ports 2 & 4

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

* Only available with size 2 valves.

Ports 1 & 3

0	None

LED / Cable

V0	No cable with LED and surge suppression

Operator voltage

2C	24VDC

With only one universal solenoid pilot for all configurations

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Multi-function adaptable manual override

1. Push - Release

2. Push - Twist - Lock

Locking Stop

3. Remove Lock Capability

4. Manual Override is Totally Isolated

Isolation Fork

Peripheral Modules Size 1

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

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

## Vacuum Generator Model Number Index

P2M1PXVA F7 A F7 C MA

Basic configuration
Basic unit — P2M1PXVA

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

Port #1 configuration
| Fitting in pressure port and blow-off port | A |
| Fitting in pressure port and blow-off port plugged* | B |
* Can not be directly mounting to valve.

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

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

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

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Peripheral Modules Size 2

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

Catalog PDN1000-3US

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Valve Products

Moduflex

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

P2M	1	PX	S	L	F4	F4

Basic series

Electro-pneumatic valve modules	P2M

Size

Size 1	1
Size 2	2

Style / Function

Peripheral	PX

Accessory type

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

Accessory option

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

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

Ports 1 & 3 (Supply / Exhaust)

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

* Only available with size 2 valves.

Ports 2 & 4 (S, T & V Series)

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

* Only available with size 2 valves.

Intermediate Supply Module Model Number Index

P2M2BX	V	0	4	F9	MM

Intermediate supply module

Basic unit	P2M2BX

Valve type

Individually wired	T
Collective wiring	V

Wiring style

No cable	0

Plate configuration

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

Inlet port type (#1 pressure)*

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

* Elbow fittings face up.

Exhaust port type (#3 exhaust)*

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

* Elbow fittings face up.

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

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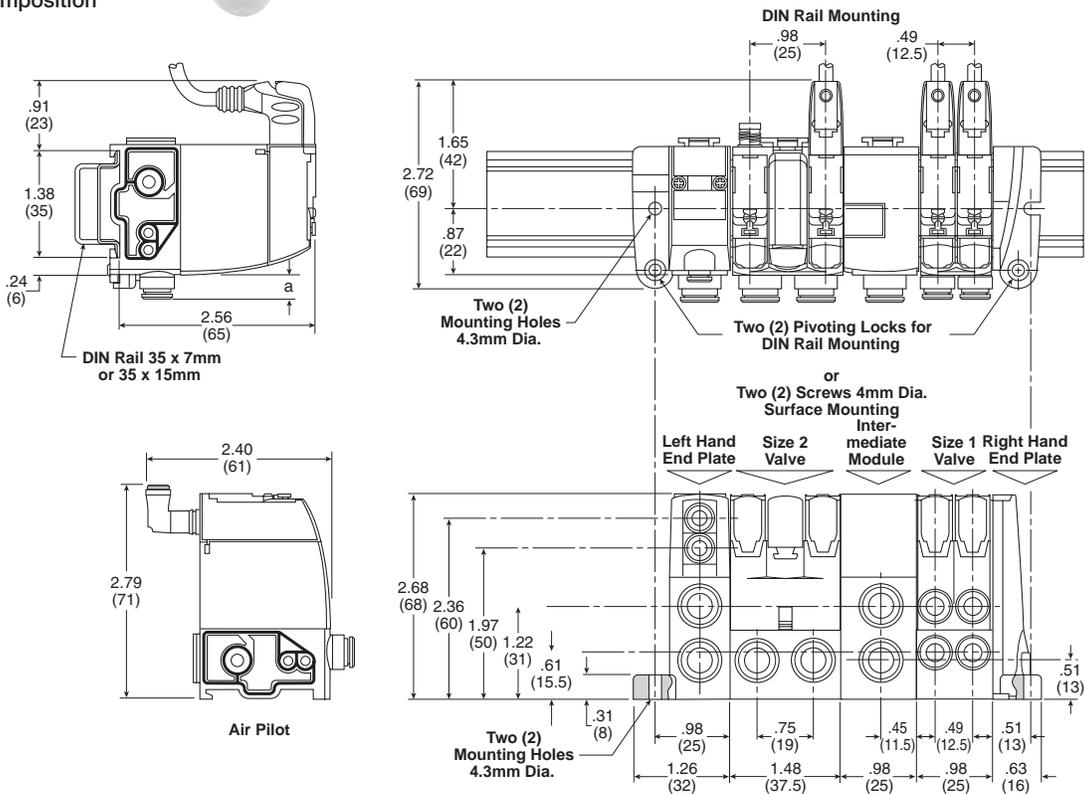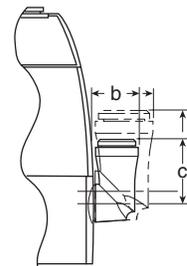Pneumatic Division
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Moduflex Add-A-Fold Assembly Model Number Index
(Complete with Pneumatic and Electrical Connectors)

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

1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.

2. List valves and manifolds. List left to right, LOOKING AT THE CYLINDER PORTS on the manifold.

P2MA V 0 1 C9 C9

Moduflex island assembly	
Add-A-Fold	**P2MA***

*Includes pneumatic H & T end plate kit.

Style	
Individually wired	**T**
Collective wiring	**V***

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

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

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

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

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

* Max. number of addresses for V type is 19. Single solenoid valves equal one address. Double solenoid valves equal two addresses. Maximum address may depend upon choice of bus protocol.

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

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

* Elbow fittings face up.

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

* Elbow fittings face up.

"V" Series with 20-pin Connector

"V" Series with Field Bus Connection

Valve Products
Moduflex

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.
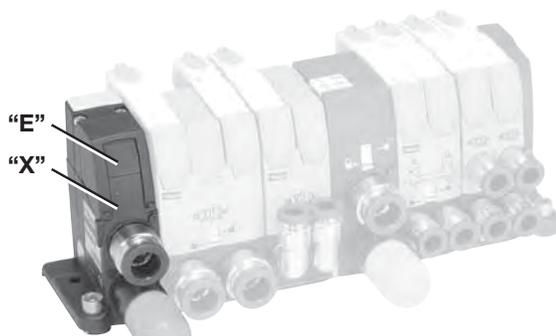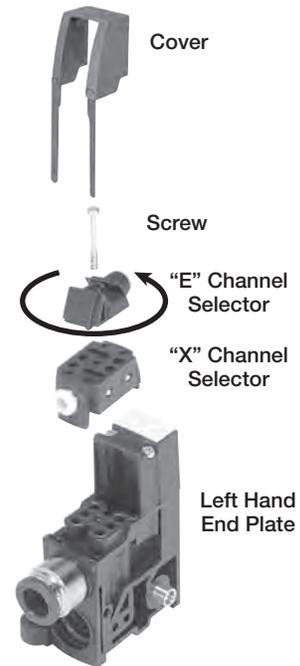
Cover

Screw

"E" Channel Selector

"X" Channel Selector

Left Hand End Plate

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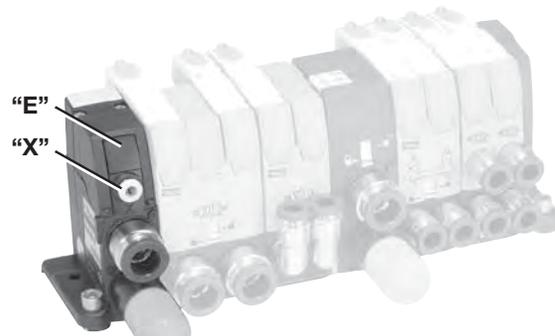
Left Hand End Plate
"E" Channel Internal Exhaust
"X" Channel External Pilot
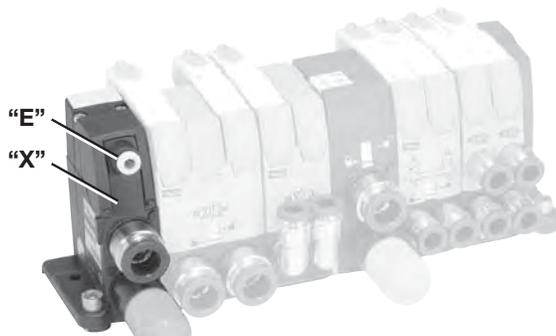
Left Hand End Plate
"E" Channel External Exhaust
"X" Channel Internal Pilot
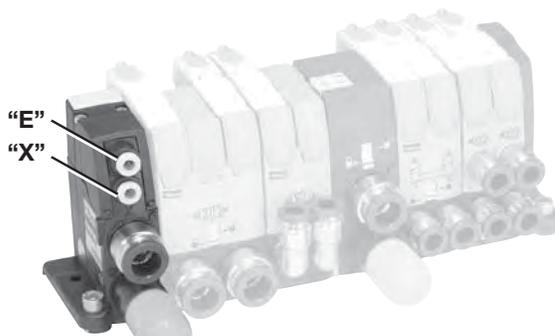
Left Hand End Plate
"E" Channel External Exhaust
"X" Channel External Pilot

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Moduflex

Solenoid Pilot 24VDC

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

P2D8V32C5   P2M2K0PA

Size 1 Valve
Without Solenoid Pilot
and Without Subbase
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	**P2M1XDEE**
Double solenoid NO + NO with exhaust check	**P2M1XCEE**
Double solenoid NC + NO with exhaust check	**P2M1XEEE**
Single solenoid NC with exhaust check	**P2M1X3ES**

Size 2 Valve
Without Solenoid Pilot
and Without Subbase
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	**P2M2XDEE**
Double solenoid NO + NO with exhaust check	**P2M2XCEE**
Double solenoid NC + NO with exhaust check	**P2M2XEEE**
Single solenoid NC with exhaust check	**P2M2X3ES**

Set of Maintenance Parts

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

P2M2K0FA
P2M2K0JA

P2M2K0CA

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

D

Subbase & Manifold Valve Products

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Catalog PDN1000-3US | Valve Products
Parker Pneumatic | **Moduflex Dimensions**
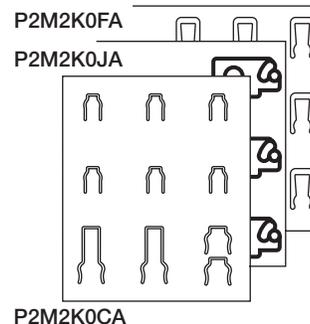
"S" Series Individual Subbase Valve Dimensions and Mounting

Subbase Valve Size 1

Subbase Valve Size 2

Surface Mounting with Screws 4 mm Dia. into Retractable Brackets 3mm Thick
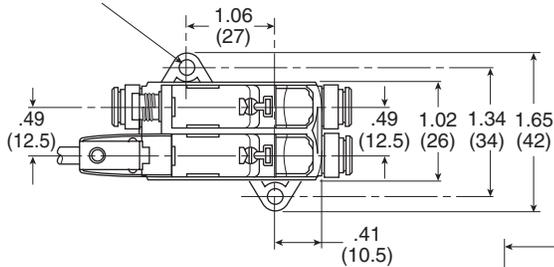
1.06 (27)

.49 (12.5) .49 (12.5) 1.02 (26) 1.34 (34) 1.65 (42)

.41 (10.5)

a

2.68 (68)

.61 (15.5)

.28 (7) 1.89 (48)

2.52 (64)

1.02 (26)

.59 (15) .39 (10)

Size 1

2.40 (61)

2.83 (72)

Air Pilot

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

.91 (23)

.98 (25) .75 (19) 1.81 (46) 2.13 (54) 1.52 (38.5)

.49 (12.5)

a

2.72 (69)

.55 (14)

.31 (8) 1.89 (48)

2.52 (64)

1.52 (38.5)

.45 (11.5) .51 (13)

Size 2

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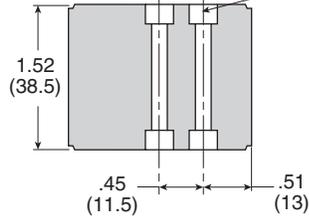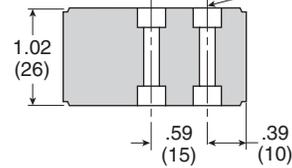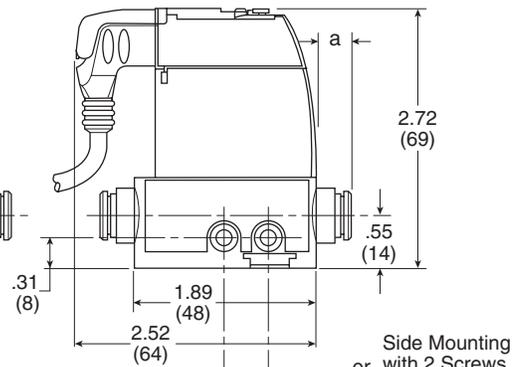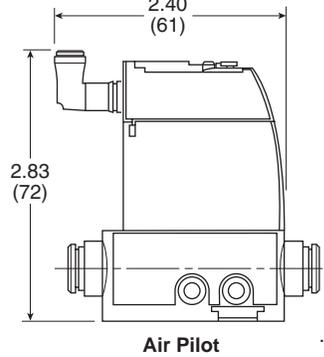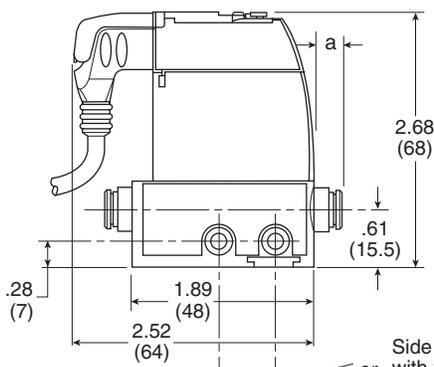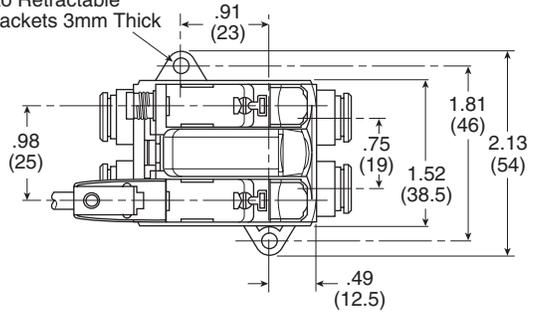
OD Tube Ext.		a	b	c
Size 1 Valves	5/32" (4 mm)	8	10	12
	6 mm	8	13	16
	1/4"	15	18	22
	Muffler		31	
Size 2 Valves	1/4"	12	18	22
	8 mm	9	16	19
	3/8"	16	23	26
	10 mm	13	18	22
	Muffler		40	

c   c

b   b

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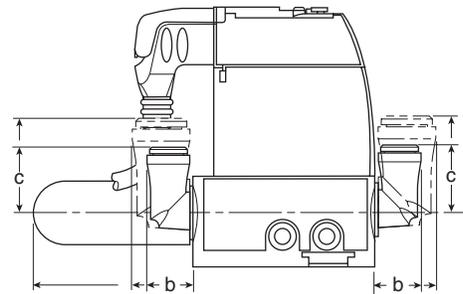
Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

"T" Series Manifold Dimensions and Mounting

Total Width Depends on Valve Composition

DIN Rail Mounting

.98 (25)   .49 (12.5)

1.65 (42)
2.72 (69)
.87 (22)

Two (2) Mounting Holes 4.3mm Dia.

Two (2) Pivoting Locks for DIN Rail Mounting

or
Two (2) Screws 4mm Dia.
Surface Mounting

.91 (23)
1.38 (35)
.24 (6)
2.56 (65)
a

DIN Rail 35 x 7mm or 35 x 15mm

Left Hand End Plate | Size 2 Valve | Inter-mediate Module | Size 1 Valve | Right Hand End Plate

2.40 (61)
2.79 (71)

Air Pilot

2.68 (68)   2.36 (60)   1.97 (50)   1.22 (31)   .61 (15.5)

.31 (8)

.98 (25)   .75 (19)   .45 (11.5)   .49 (12.5)   .51 (13)

1.26 (32)   1.48 (37.5)   .98 (25)   .98 (25)   .63 (16)

.51 (13)

Two (2) Mounting Holes 4.3mm Dia.

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	

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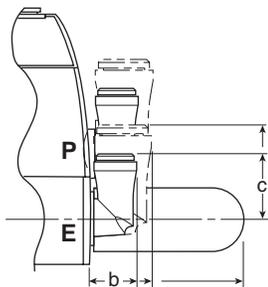
OD Tube	Ext.	a	b	c
Size 1 Valves	5/32" (4 mm)	8	10	12
	6 mm	8	13	16
	1/4"	15	18	22
Size 2 Valves	1/4"	12	18	22
	8 mm	9	16	19
	3/8"	16	23	26
	10 mm	13	18	22

b
c

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Moduflex Dimensions

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

Total Width Depends on Valve Composition
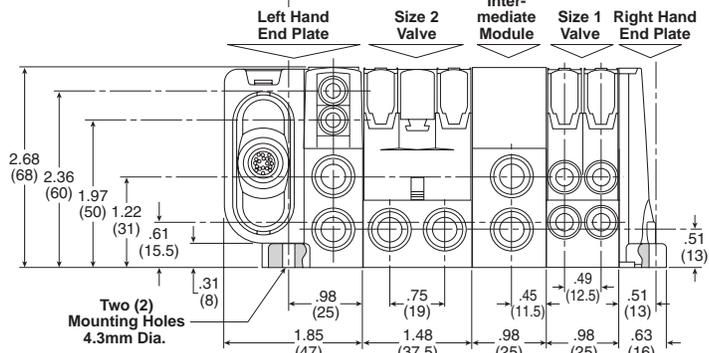
1.02 (26)
1.38 (35)
.24 (6)
2.56 (65)

DIN Rail 35 x 7mm or 35 x 15mm

a

1.81 (46)
2.83 (72)
.87 (22)

Two (2) Mounting Holes 4.3mm Dia.

**Two (2) Pivoting Locks for DIN Rail Mounting
or
Two (2) Screws 4mm Dia. Surface Mounting**

Left Hand End Plate | Size 2 Valve | Inter-mediate Module | Size 1 Valve | Right Hand End Plate

2.68 (68)
2.36 (60)
1.97 (50)
1.22 (31)
.61 (15.5)
.31 (8)

Two (2) Mounting Holes 4.3mm Dia.

.98 (25)
.75 (19)
.45 (11.5)
.49 (12.5)
.51 (13)
.51 (13)

1.85 (47)
1.48 (37.5)
.98 (25)
.98 (25)
.63 (16)

2.65 (67.2)
.96 (24.5)
2.20 (56)

25-pin, D-Sub

R .26 (6.5)
1.61 (41)
2.99 (76)

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	

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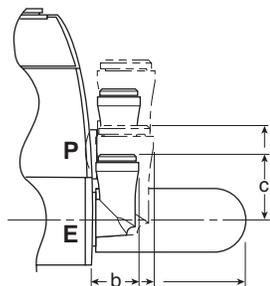
OD Tube	Ext.	a	b	c
Size 1 Modules	5/32" (4 mm)	8	10	12
	6 mm	8	13	16
	1/4"	15	18	22
Size 2 Modules	1/4"	12	18	22
	8 mm	9	16	19
	3/8"	16	23	26
	10 mm	13	18	22
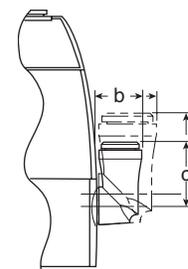
b
c

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

1.42 (36)
1.38 (35)
.24 (6)
2.56 (65)
DIN Rail 35 x 7mm
or 35 x 15mm

3.23 (82)
2.20 (56)
.87 (22)

Two (2)
Mounting Holes
4.3mm Dia.

Two (2) Pivoting Locks for
DIN Rail Mounting

DIN Rail
Mounting

Device Bus Islands

1.18 (30)
1.38 (35)
.24 (6)
2.56 (65)
DIN Rail 35 x 7mm
or 35 x 15mm

Three (3)
Mounting Holes
4.3mm Dia.

2.95 (75)
1.93 (49)
.06 (1.5)
.87 (22)
1.50 (38)

Three (3) Pivoting Locks for
DIN Rail Mounting

DIN Rail
Mounting

Communication
Module

Left Hand
End Plate

Size 2
Valve

Inter-
mediate
Module

Size 1
Valve

Right Hand
End Plate

or
Two (2) Screws
4mm Dia.
Surface Mounting

2.68 (68)
2.36 (60)
1.97 (50)
1.22 (31)
.61 (15.5)
.31 (8)

Two (2)
Mounting Holes
4.3mm Dia.

.98 (25)
.75 (19)
.45 (11.5)
.49 (12.5)
.51 (13)
.51 (13)

3.70 (94)
1.48 (37.5)
.98 (25)
.98 (25)
.63 (16)

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Pneumatic Division
Richland, Michigan
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Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Moduflex Dimensions

"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

Union Connector
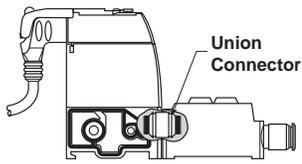
In-Line Peripheral Modules:
Mounting is Required

Male Connector   Tubing   Male Connector

Dual Flow Control Size 1

.37 (9.5)   .47 (12)   Possible Mounting with 2 Screws 3mm Dia.
.49 (12.5)   .98 (25)   .49 (12.5)
1.69 (43)
1.54 (39)
.61 (15.5)   .49 (12.5)
1.22 (31)

Dual Flow Control Size 2

.46 (11.6)   .55 (14)   Possible Mounting with 2 Screws 3mm Dia.
.74 (18.8)   1.48 (37.5)   .74 (18.8)
1.76 (44.6)
1.57 (39.8)
3.73 (13.2)
1.46 (37)
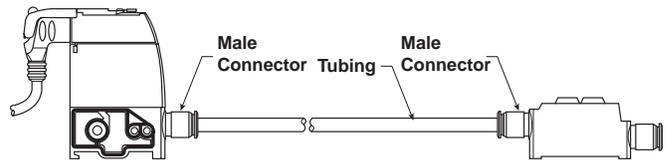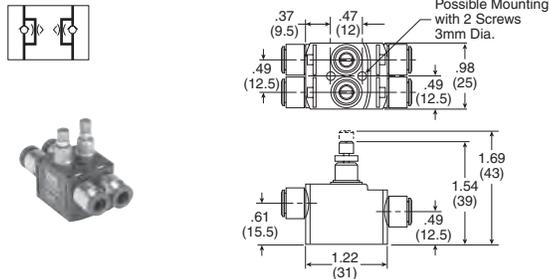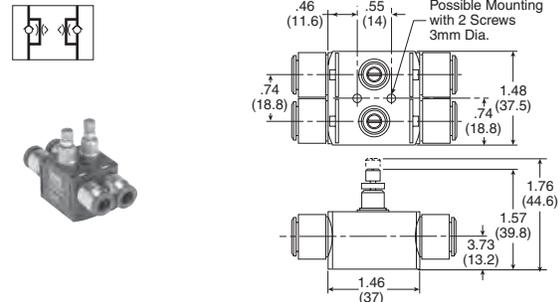
Pressure Regulator Size 1

With Gauge

2.93 (74.5)
1.34 (34)   .98 (25)   .49 (12.5)   1.65 (42)
.81 (20.5)   Mounting with 2 Screws 4mm Dia. on Retractable Brackets

With Gauge

3.07 (78)
.61 (15.5)
1.65 (42)   .12 (3)

Without Gauge

Without Gauge

2.76 (70)
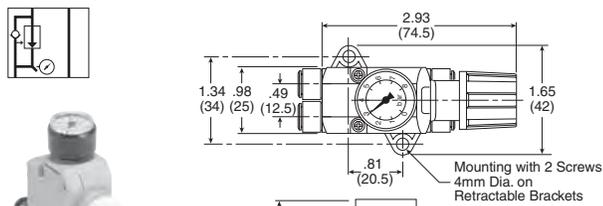
Pressure Regulator Size 2

With Gauge
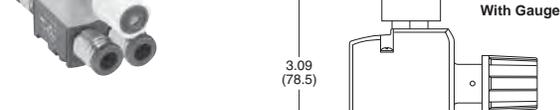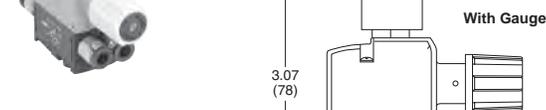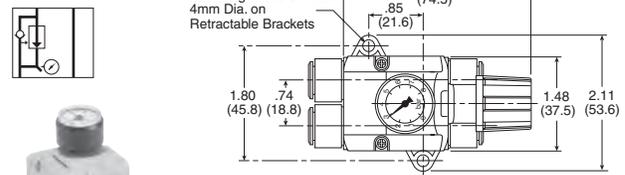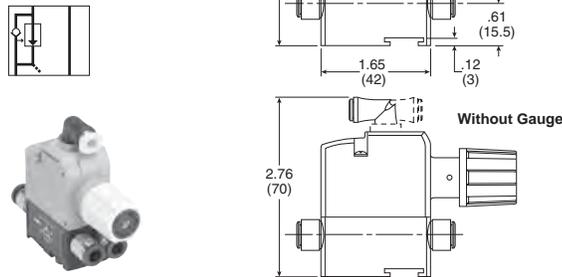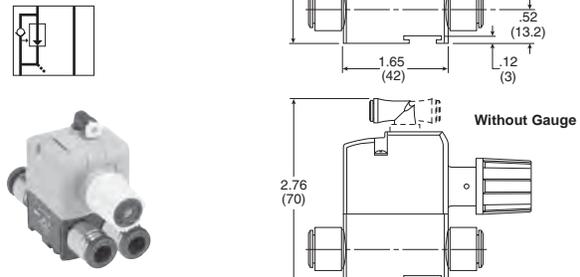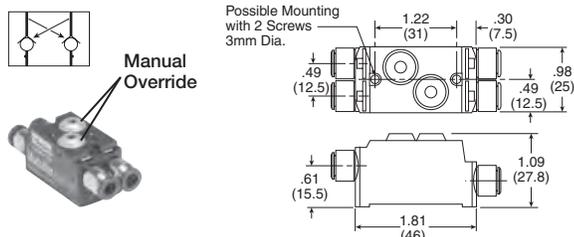
Mounting with 2 Screws 4mm Dia. on Retractable Brackets
2.93 (74.5)
.85 (21.6)
1.80 (45.8)   .74 (18.8)   1.48 (37.5)   2.11 (53.6)

With Gauge

3.09 (78.5)
.52 (13.2)
1.65 (42)   .12 (3)

Without Gauge

Without Gauge

2.76 (70)

Dual P.O. Check Valve Size 1

Manual Override

Possible Mounting with 2 Screws 3mm Dia.
1.22 (31)   .30 (7.5)
.49 (12.5)   .98 (25)
.49 (12.5)
.61 (15.5)   1.09 (27.8)
1.81 (46)

Dual P.O. Check Valve Size 2

.51 (13)   1.09 (27.8)
1.85 (47)
Possible Mounting with 2 Screws 3mm Dia.
1.26 (32)   .30 (7.5)
.74 (18.8)   1.48 (37.5)   .74 (18.8)
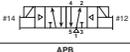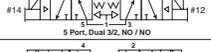
Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
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Subbase & Manifold Valves - Order Today, SHIP TODAY at www.PartsGopher.com
Catalog PDN1000-3US   Valve Products
Parker Pneumatic   **Moduflex Dimensions**
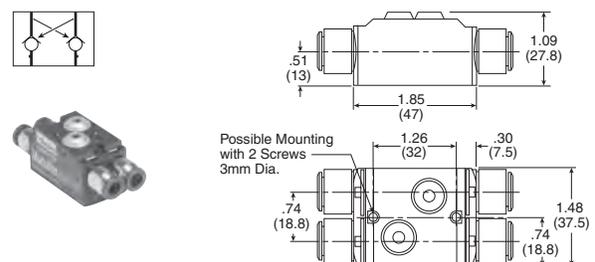
"P" Series Peripheral Modules Dimensions and Mounting

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

Vacuum Generator Size 1
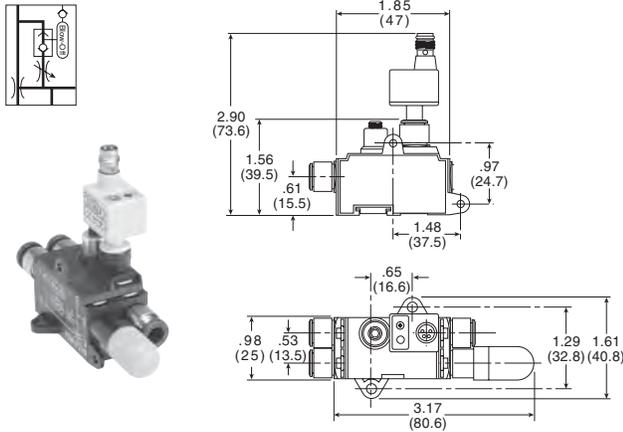
Sensor specifications

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
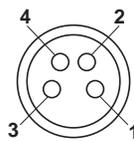
Cables

CB-M8-4P-2M, Female to Open Lead
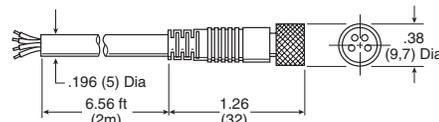
CB-M8-4P-5M, Female to Open Lead

Catalog PDN1000-3US

Valve Products

Parker Pneumatic

Isys Micro Series

Moduflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus

DX ISOMAX
Series

Valvair II
Series

D

Subbase & Manifold
Valve Products
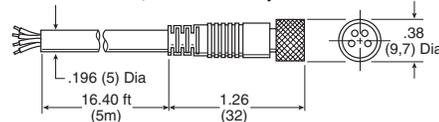
Isys Micro Series

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
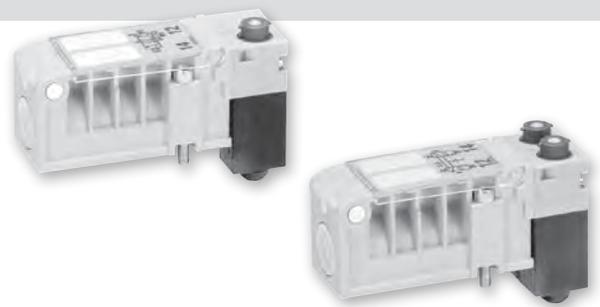
Operating information

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
HMNVX2049A	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)

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.

Px Internal Pilot

External Pilot

External Pilot

Px Internal Pilot
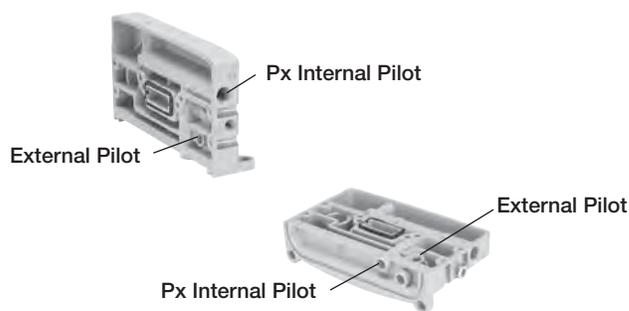
Dual 3/2 valves replace 3-position valves for better performance

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.
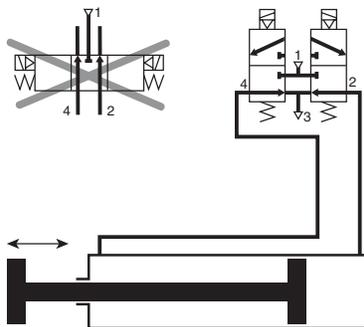
3-position pressure center

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.

Catalog PDN1000-3US
Parker Pneumatic
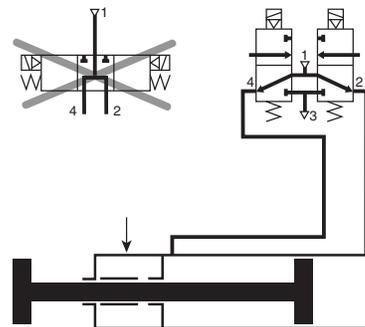
Valve Products
Isys Micro Series

Isys Micro Valves

		Symbol	Type	Cv	Operator	Part number
			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**
			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**
			Blanking plate	N/A	N/A	**HMBVX00XXA**
			Intermediate air supply	N/A	N/A	**HMCVX00XXA**

Manifold Bases

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

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**
	Moduflex 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**

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Isys Micro Series

Simple Manifold Assemblies

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

		A	B	C	D
		9 10	11 12	13 14	15 16
PSM3	**1** **M** **A** **P**	**N** **7**	**N** **7**	**N** **7**	**N** **7**

Base style	
4-Station manifold with valve and / or fitting	PSM3

Mounting style	
Side ported	**1**
Bottom ported	**2**

Enclosure / Lead length	
Single address circuit board	**J**
Double address circuit board	M

Engineering level	
Current	**A**

10, 12, 14, 16	Fitting
0	**Without fitting**
4	**Straight fitting for 5/32 inch or 4mm OD tube**
6	**Straight fitting for 6mm OD tube**
7	**Straight fitting for 1/4 inch OD tube**
P	**Plug for blanking module**

9, 11, 13, 15	Valve type
N*	**Double solenoid, dual 3/2, NC/NC**
P*	**Double solenoid, dual 3/2, NO/NO**
Q*	**Double solenoid, dual 3/2, 14 end NO - 12 end NC**
E	**Single solenoid, 2-position - air return, spring assist**
2*	**Double solenoid, 2-position**
5*	**Double solenoid, 3-position - APB**
B**	**Blanking module**
C	**Intermediate air supply module**

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

** Requires fitting "P".

BOLD OPTIONS ARE MOST POPULAR.
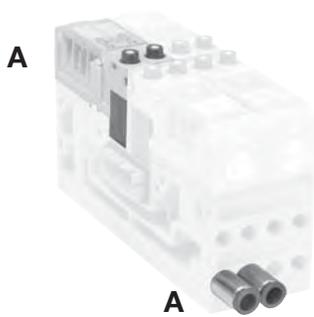
Valve Position A - Character 9
Fitting Position A - Character 10
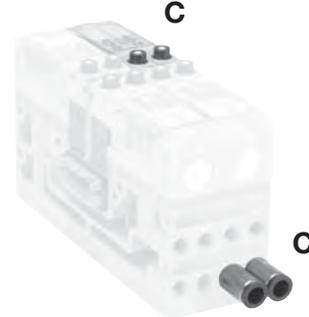
Valve Position C - Character 13
Fitting Position C - Character 14
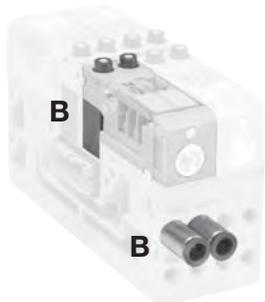
Valve Position B - Character 11
Fitting Position B - Character 12
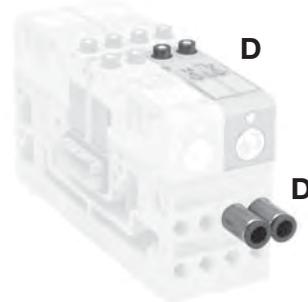
Valve Position D - Character 15
Fitting Position D - Character 16

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

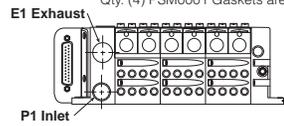Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Isys Micro Series

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)

	25-pin D-sub	Moduflex	Isysnet*	Turck 16 Outputs	Turck 32 Outputs
24VDC	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 side port, internal pilot	1
BSPP Threads	BSPP bottom port, internal pilot	2
	BSPP side port, external pilot	3
	BSPP bottom port, external pilot	4
	NPT side port, internal pilot	5
NPT Threads	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	BSPP Threads
4	Straight fitting for 5/32 inch OD tube	NPT Threads
7	Straight fitting for 1/4 inch OD tube	NPT Threads

M7 pilot port on end plate

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

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	BSPP Threads
7	Straight fitting for 1/4 inch OD tube	NPT Threads
9	Straight fitting for 3/8 inch OD tube	NPT Threads

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	BSPP Threads
7	Straight fitting for 1/4 inch OD tube	NPT Threads
9	Straight fitting for 3/8 inch OD tube	NPT Threads

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

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

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Isys Micro Series

25-pin, D-Sub Manifolds

24 Single Solenoid Valves

Manifold Slice #1 · Manifold Slice #2 · Manifold Slice #3 · Manifold Slice #4 · Manifold Slice #5 · Manifold Slice #6
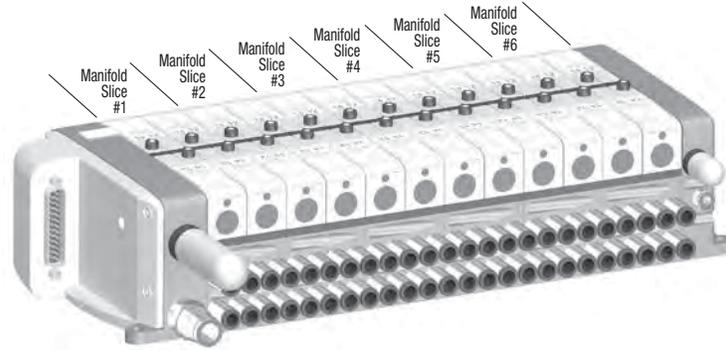
Add-A-Fold

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

Parker Pneumatic

Isys Micro Series

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.

Common Exhaust Open

Main Pressure for Back Row Open   Main Pressure for Front Row Open

PSM0001 Gasket*   PSM0001 Gasket*

E1 Exhaust P1 Inlet
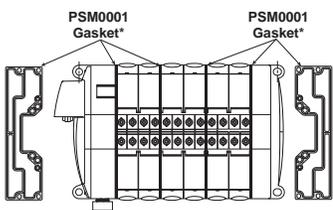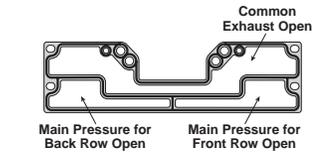
E1 Exhaust

P1 Inlet

* Qty. (4) PSM0001 Gaskets are required.

PSM0002 –

Rear manifold blocked for separate pressure supply.
Common exhausts.

Flip gasket to block front of manifold.

Common Exhaust Open

Main Pressure for Back Row Blocked   Main Pressure for Front Row Open

Internal Pilot Pressure from P1 Inlet

PSM0002 Gasket*   Intermediate Air Supply P2 Zone   PSM0002 Gasket*

E1 Exhaust P1 Inlet

P2 Inlet
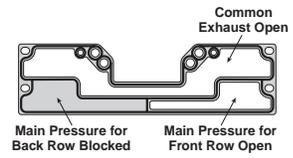
E1 Exhaust

P1 Inlet   P2 Inlet
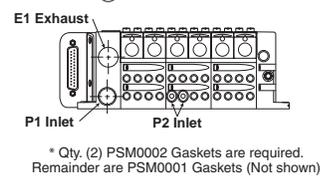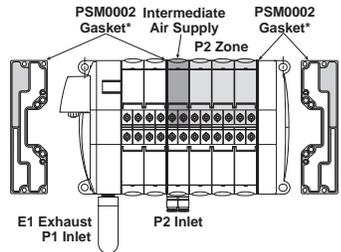
* Qty. (2) PSM0002 Gaskets are required.
Remainder are PSM0001 Gaskets (Not shown)

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.

Common Exhaust Blocked

Main Pressure for Back Row Blocked   Main Pressure for Front Row Open

Internal Pilot Pressure from P1 Inlet

Pressure   **Exhaust**

PSM0003 Gasket*   Intermediate Air Supply P2 Zone   PSM0002 Gasket*   PSM0003 Gasket*   E2 Zone   PSM0002 Gasket*

E1 Exhaust P1 Inlet   P2 Inlet   E1 Exhaust P1 Inlet

E1 Exhaust   E2 Exhaust
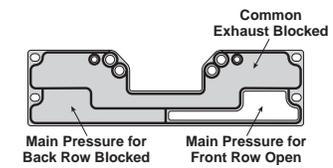
P1 Inlet   P2 Inlet
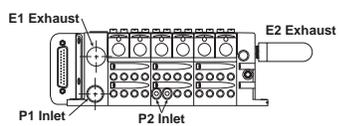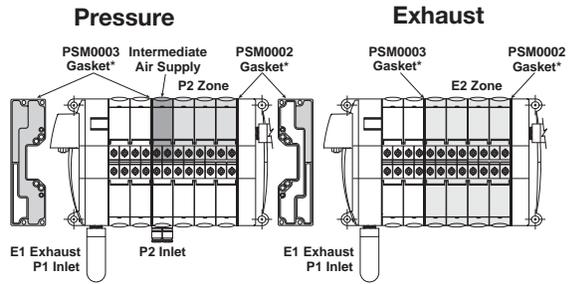
* Qty. (1) PSM0003 and Qty. (1) PSM0002 Gaskets are required.
Remainder are PSM0001 Gaskets (Not shown)

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.

Common Exhaust Blocked

Main Pressure for Back Row Blocked   Main Pressure for Front Row Blocked
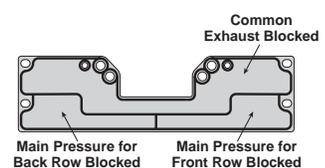
Internal Pilot Pressure from P2 Inlet

Pressure   **Exhaust**

PSM0004 Gasket*   Intermediate Air Supply P2 Zone   PSM0001 Gasket*   PSM0004 Gasket*   E2 Zone   PSM0001 Gasket*

E1 Exhaust P1 Inlet   P2 Inlet   E1 Exhaust P1 Inlet

E1 Exhaust   E2 Exhaust

P1 Inlet   P2 Inlet
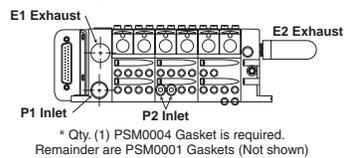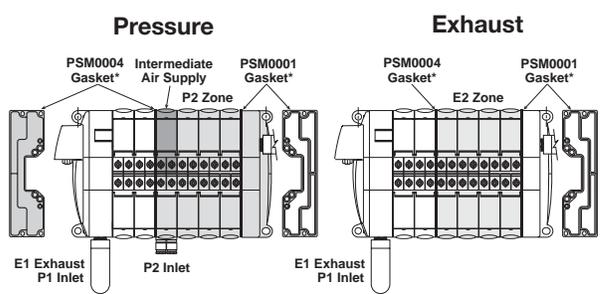
* Qty. (1) PSM0004 Gasket is required.
Remainder are PSM0001 Gaskets (Not shown)

Valve Products

Parker Pneumatic

Isys Micro Series

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

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 Solenoid Kit

	Description	Part number
	24VDC solenoid kit with screws	**PSM0010**

Replacement Screws

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

Replacement Override Caps

	Description	Part number
	Set of 10 manual override caps	**PSM0011**

Replacement Regulator Gauge

	Description	Part number
	5 to 125 PSI Gauge	**P0566202**

Replacement Gaskets and Valve Screws

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

Replacement Protective Cover

	Description	Part number
	Protective Polyester Cover Set of 10	**PS5706**

Replacement Plugs

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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

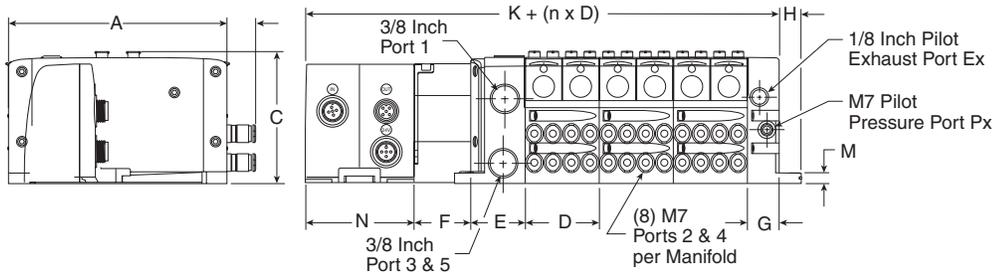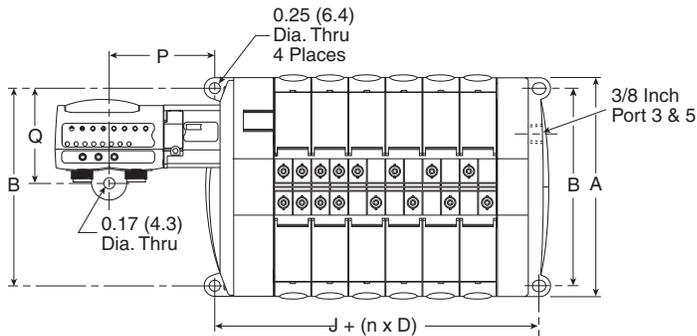## 25-pin, D-Sub with Isys Micro Valves, Side Ported

0.25 (6.4)
Dia. Thru
4 Places

3/8 Inch
Port 3 & 5

B A

3/8 Inch
Port 3 & 5

J + (n x D)

A

K + (n x D)   H

1/8 Inch
Pilot Exhaust
Port Ex

M7 Pilot
Pressure
Port Px

C

M

F E D G

3/8 Inch
Port 1

(8) M7
Ports 2 & 4
per Manifold

N
P
P

Side Ported

Dimensions

A	B	C	D
4.88	4.41	2.95	1.65
(124.0)	(112.0)	(75.0)	(42.0)
E	**F**	**G**	**H**
1.22	1.02	0.71	0.49
(31.0)	(26.0)	(18.0)	(12.5)
J	**K**	**M**	**N**
2.28	3.44	0.24	0.21
(58.0)	(87.5)	(6.1)	(5.2)
P			
0.41			
(10.5)			

Inches (mm)
n = Number of manifolds

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

A

K + (n x D)   H

C

M

F E D G

J + (n x D)

L + (n x D)

0.25 (6.4)
Dia. Thru
4 Places

3/8 Inch
Port 1

M7 Pilot
Pressure Port Px

M7 Pilot
Exhaust
Port Ex

3/8 Inch
Port 3 & 5

(2) 3/8 Inch
Port 3 & 5

B A

(8) M7
Ports 2 & 4
per Manifold

U V

T
S

N

P
Q
R

**Bottom Ported
Detail**

Dimensions

A	B	C	D
4.88	4.41	2.95	1.65
(124.0)	(112.0)	(75.0)	(42.0)
E	**F**	**G**	**H**
1.22	1.02	0.71	0.49
(31.0)	(26.0)	(18.0)	(12.5)
J	**K**	**L**	**M**
2.28	3.44	1.69	0.24
(58.0)	(87.5)	(43.0)	(6.1)
N	**P**	**Q**	**R**
0.21	0.62	1.03	1.45
(5.3)	(15.8)	(26.3)	(36.8)
S	**T**	**U**	**V**
0.64	1.14	3.73	4.23
(16.40)	(29.0)	(94.9)	(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
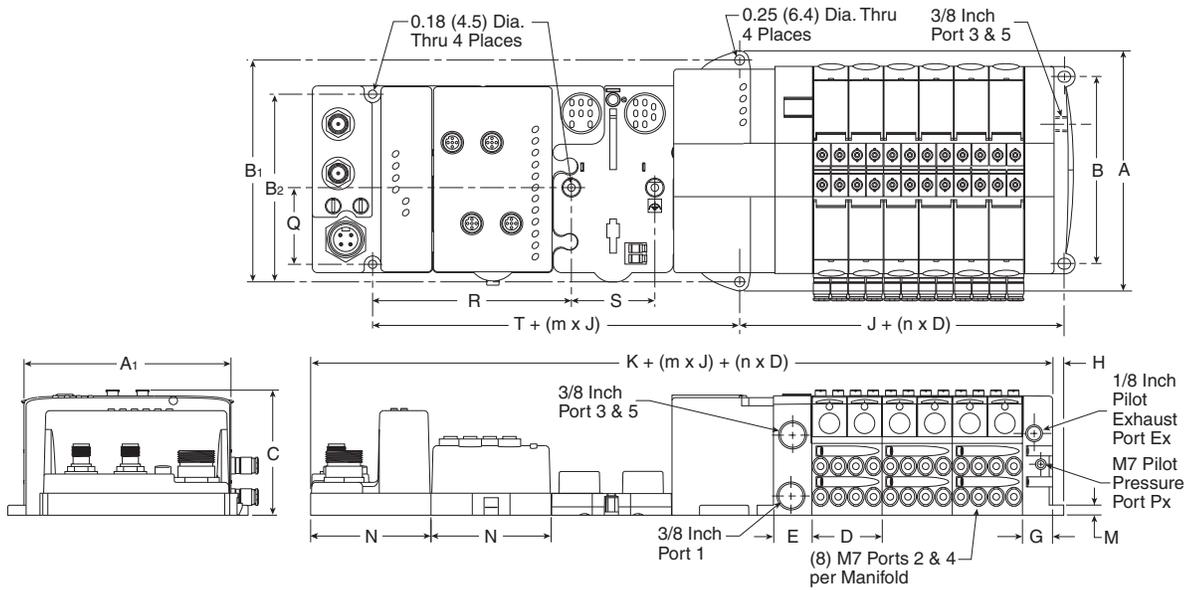
Dimensions

A	A$_1$	B	B$_1$	B$_2$	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
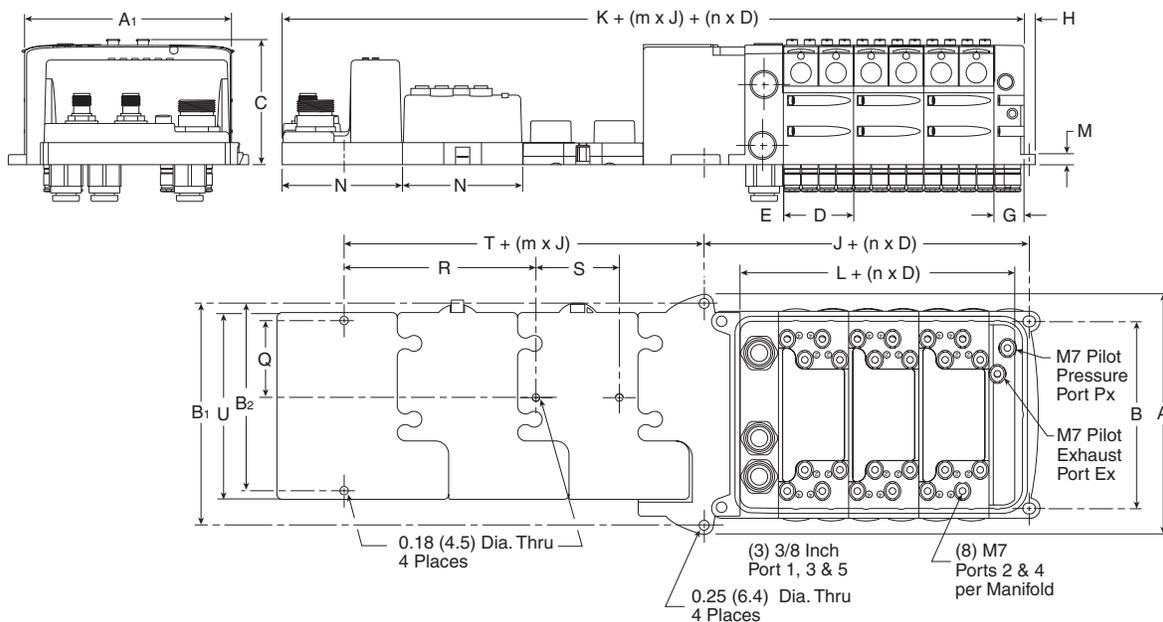
Dimensions

A	A$_1$	B	B$_1$	B$_2$	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

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

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Moduflex with Isys Micro Valves, Side Ported

0.25 (6.4)
Dia. Thru
4 Places

0.17 (4.3)
Dia. Thru

3/8 Inch
Port 3 & 5

J + (n x D)

K + (n x D)

3/8 Inch
Port 1

1/8 Inch Pilot
Exhaust Port Ex

M7 Pilot
Pressure Port Px

3/8 Inch
Port 3 & 5

(8) M7
Ports 2 & 4
per Manifold

Dimensions

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

Inches (mm)
n = Number of manifolds

Moduflex with Isys Micro Valves, Bottom Ported

0.25 (6.4)
Dia. Thru
4 Places

0.17 (4.3)
Dia. Thru

3/8 Inch
Port 3 & 5

J + (n x D)

K + (n x D)

L + (n x D)

3/8 Inch
Port 1

M7 Pilot
Pressure Port Px

M7 Pilot
Exhaust Port Ex

3/8 Inch
Port 3 & 5

(8) M7
Ports 2 & 4
per Manifold

Dimensions

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

Inches (mm)
n = Number of manifolds

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

Note 1: M =J+L+n_2xK, where n_2 = Number of Turck input / output modules

Inches (mm)

n = Number of H1 Bases
P= Width of H1 Bases

3/8 Inch
Port 3 & 5

0.25 (6.4)
Dia. Thru

Moduflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus

DX ISOMAX
Series

Valvair II
Series

D

**Subbase & Manifold
Valve Products**

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

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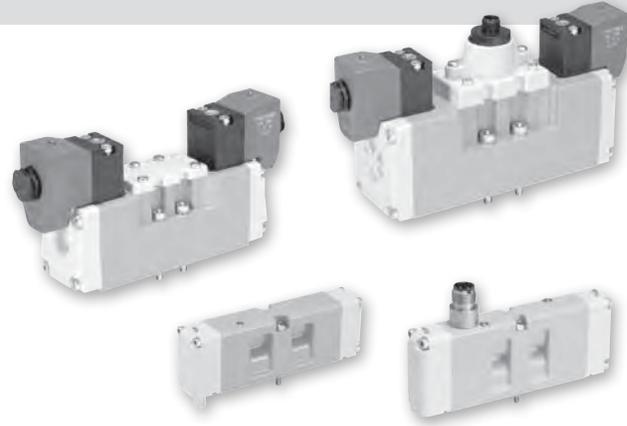
Ports, Flow
- HB: 1/8 inch, 0.55 Cv
- HA: 1/4 inch, 1.1 Cv
- H1: 3/8 inch, 1.5 Cv
- H2: 1/2 inch, 3.0 Cv
- H3: 3/4 inch, 6.0 Cv

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 (207)	25 (173)	25 (173)	25 (173)	35 (241)
2	Double solenoid- 2-position					
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	30 (207)	30 (207)	35 (241)	45 (310)	45 (310)
	Air return / spring assist					
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.

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

ISO Pneumatic Valve Standard Definitions

15407-1: Non-Plug-in Standards for Size 01 (26mm) & Size 02 (18mm) Wide Valves
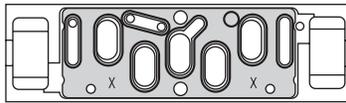
15407-2: Plug-in Standards for Size 01 (26mm) & Size 02 (18mm) Wide Valve**s**
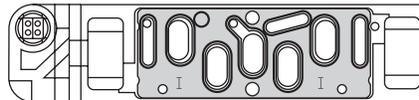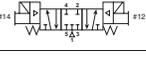
5599-1: Non-Plug-in Standards for Sizes 1, 2, 3
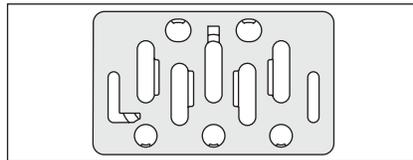
5599-2: Plug-in Standards for Size 1, 2, 3

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products
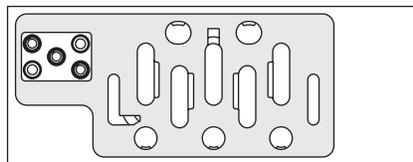
Wear Compensation System

- Maximum Performance
  - Low Friction
  - Fast Response
  - Lower Operating Pressures
  - 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.

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

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

	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	0.55	Single solenoid	24 VDC	Internal	HBEVXBG0G9A	HBEVXBH0G9A
						External	HBEVXLG0G9A	HBEVXLH0G9A
	Sol. 14	4-way, 2-position, air return	0.55	Single solenoid	24 VDC	Internal	HB1VXBG0G9A	HB1VXBH0G9A
						External	HB1VXLG0G9A	HB1VXLH0G9A
	Sol. 14 Sol. 12	4-way, 2-position	0.55	Double solenoid	24 VDC	Internal	HB2VXBG0G9A	HB2VXBH0G9A
						External	HB2VXLG0G9A	HB2VXLH0G9A
	APB #14 #12	4-way, 3-position, all ports blocked	0.5	Double solenoid	24 VDC	Internal	HB5VXBG0G9A	HB5VXBH0G9A
						External	HB5VXLG0G9A	HB5VXLH0G9A
	CE #14 #12	4-way, 3-position, center exhaust	0.5	Double solenoid	24 VDC	Internal	HB6VXBG0G9A	HB6VXBH0G9A
						External	HB6VXLG0G9A	HB6VXLH0G9A
	PC #14 #12	4-way, 3-position, pressure center	0.5	Double solenoid	24 VDC	Internal	HB7VXBG0G9A	HB7VXBH0G9A
						External	HB7VXLG0G9A	HB7VXLH0G9A
	#14 #12 5 Port, Dual 3/2, NC / NC	3-way, 2-position, dual valve, NC/NC	0.45	Double solenoid	24 VDC	Internal	HBNVXBG0G9A	HBNVXBH0G9A
	#14 #12 5 Port, Dual 3/2, NO / NO	3-way, 2-position, dual valve, NO/NO	0.45	Double solenoid	24 VDC	Internal	HBPVXBG0G9A	HBPVXBH0G9A
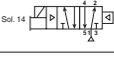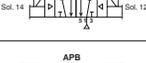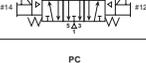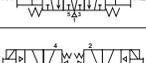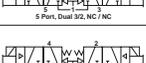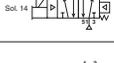
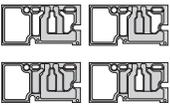|	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	0.55	Single solenoid	120 VAC	Internal	HBEVXBG023A	HBEVXBH023A
						External	HBEVXLG023A	HBEVXLH023A
	Sol. 14	4-way, 2-position, air return	0.55	Single solenoid	120 VAC	Internal	HB1VXBG023A	HB1VXBH023A
						External	HB1VXLG023A	HB1VXLH023A
	Sol. 14 Sol. 12	4-way, 2-position	0.55	Double solenoid	120 VAC	Internal	HB2VXBG023A	HB2VXBH023A
						External	HB2VXLG023A	HB2VXLH023A
	APB #14 #12	4-way, 3-position, all ports blocked	0.5	Double solenoid	120 VAC	Internal	HB5VXBG023A	HB5VXBH023A
						External	HB5VXLG023A	HB5VXLH023A
	CE #14 #12	4-way, 3-position, center exhaust	0.5	Double solenoid	120 VAC	Internal	HB6VXBG023A	HB6VXBH023A
						External	HB6VXLG023A	HB6VXLH023A
	PC #14 #12	4-way, 3-position, pressure center	0.5	Double solenoid	120 VAC	Internal	HB7VXBG023A	HB7VXBH023A
						External	HB7VXLG023A	HB7VXLH023A
	#14 #12 5 Port, Dual 3/2, NC / NC	3-way, 2-position, dual valve, NC/NC	0.45	Double solenoid	120 VAC	Internal	HBNVXBG023A	HBNVXBH023A
	#14 #12 5 Port, Dual 3/2, NO / NO	3-way, 2-position, dual valve, NO/NO	0.45	Double solenoid	120 VAC	Internal	HBPVXBG023A	HBPVXBH023A
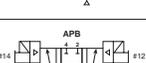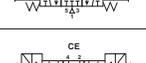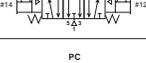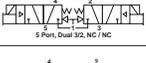
15407-2, Plug-in, Size 18mm (HB), 2-Station Manifold Bases

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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

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**

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

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

	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	1.1	Single solenoid	24 VDC	Internal	HAEVXBG0G9A	HAEVXBH0G9A
						External	HAEVXLG0G9A	HAEVXLH0G9A
	Sol. 14	4-way, 2-position, air return	1.1	Single solenoid	24 VDC	Internal	HA1VXBG0G9A	HA1VXBH0G9A
						External	HA1VXLG0G9A	HA1VXLH0G9A
	Sol. 14 / Sol. 12	4-way, 2-position	1.1	Double solenoid	24 VDC	Internal	HA2VXBG0G9A	HA2VXBH0G9A
						External	HA2VXLG0G9A	HA2VXLH0G9A
	#14 APB #12	4-way, 3-position, all ports blocked	1.0	Double solenoid	24 VDC	Internal	HA5VXBG0G9A	HA5VXBH0G9A
						External	HA5VXLG0G9A	HA5VXLH0G9A
	#14 CE #12	4-way, 3-position, center exhaust	1.0	Double solenoid	24 VDC	Internal	HA6VXBG0G9A	HA6VXBH0G9A
						External	HA6VXLG0G9A	HA6VXLH0G9A
	#14 PC #12	4-way, 3-position, pressure center	1.0	Double solenoid	24 VDC	Internal	HA7VXBG0G9A	HA7VXBH0G9A
						External	HA7VXLG0G9A	HA7VXLH0G9A

	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	1.1	Single solenoid	120 VAC	Internal	HAEVXBG023A	HAEVXBH023A
						External	HAEVXLG023A	HAEVXLH023A
	Sol. 14	4-way, 2-position, air return	1.1	Single solenoid	120 VAC	Internal	HA1VXBG023A	HA1VXBH023A
						External	HA1VXLG023A	HA1VXLH023A
	Sol. 14 / Sol. 12	4-way, 2-position	1.1	Double solenoid	120 VAC	Internal	HA2VXBG023A	HA2VXBH023A
						External	HA2VXLG023A	HA2VXLH023A
	#14 APB #12	4-way, 3-position, all ports blocked	1.0	Double solenoid	120 VAC	Internal	HA5VXBG023A	HA5VXBH023A
						External	HA5VXLG023A	HA5VXLH023A
	#14 CE #12	4-way, 3-position, center exhaust	1.0	Double solenoid	120 VAC	Internal	HA6VXBG023A	HA6VXBH023A
						External	HA6VXLG023A	HA6VXLH023A
	#14 PC #12	4-way, 3-position, pressure center	1.0	Double solenoid	120 VAC	Internal	HA7VXBG023A	HA7VXBH023A
						External	HA7VXLG023A	HA7VXLH023A

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

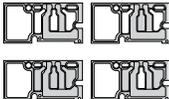|	Enclosure / Lead length	Solenoid addresses	1/4" NPT	1/4" BSPP
	Terminal strip in the base	Double solenoid - 2 addresses	PS551113CP	PS551114CP

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

Side tabs (left margin): Moduflex Series | Isys Micro Series | Isys ISO Series | Fieldbus | DX ISOMAX Series | Valvair II Series | **D** | Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

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**

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
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15407-2, Plug-in, Size 18mm & 26mm End Plate Kits

	Electrical option	NPT port	BSPP port
	No connector - use with terminal strip in base	PS5631010P	PS5631011P
	25-pin, D-Sub	PS5620L20P	PS5620L21P
	19-pin, round, Brad Harrison	PS5620L30P	PS5620L31P
	12-pin, M23	PS5620L40P	PS5620L41P
	16-point terminal strip	PS5620L50P	PS5620L51P
	19-pin, M23	PS5620M20P	PS5620M21P
	Moduflex fieldbus	PS5620M40P	PS5620M41P
	Isysnet, with valve driver module	PS5620L60P	PS5620L61P
	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	BSPP port
	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
	Moduflex 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 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 4-Station manifold.
(Two 18mm + Two 26mm Stations)

Item	Qty.	Part No.	Location
01	1	AAHBD004	
02	1	HB1VXBG0G9A	Station 1
03	1	HB2VXLG0G9A	Station 2
04	1	PS561151MP	Station 1 & 2
05	2	HA1VXBG0G9A	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.

Option "P"

Valve Driver Module (PSSV32A) / Double Address Manifold (Option M) / Double Address Manifold with 32 Output Expansion (Option P) / Double Address Manifold (Option M)

Option "N"

Valve Driver Module (PSSV32A) / Double Address Manifold (Option M) / Single Address Manifold with 32 Output Expansion (Option N) / Double Address Manifold (Option M) / Single Address Manifold (Option J)

#14 End

18mm Station 1 / 18mm Station 2 / 26mm Station 3 / 26mm Station 4

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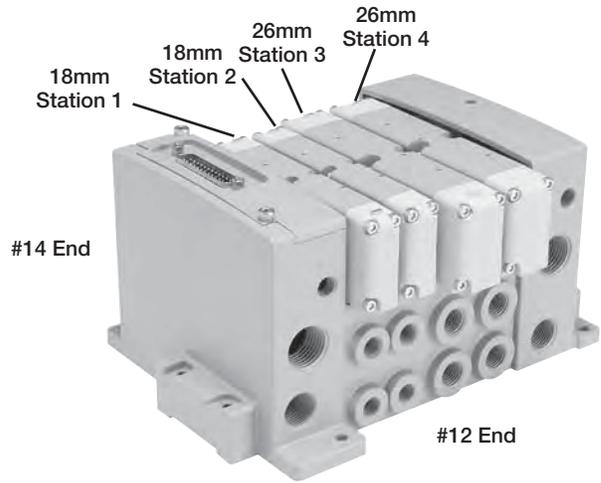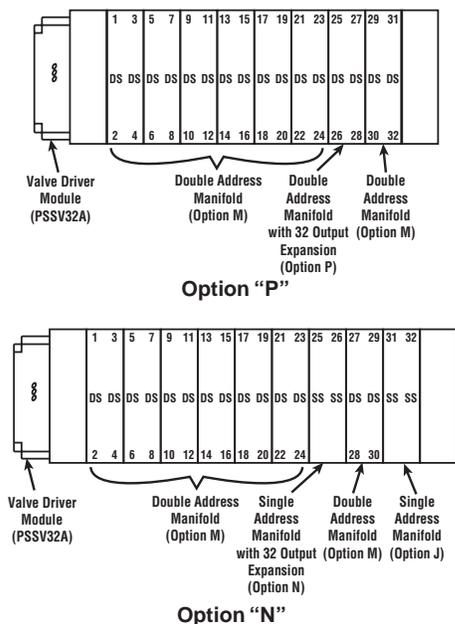
Example:
4-Station Manifold with (2) 18mm and (2) 26mm Valves on Manifold Bases with 25-pin, D-Sub End Plates

Maximum Number of Solenoids
(Maximum energized simultaneously)

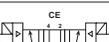| Voltage	Voltage code	25-pin D-sub	19-pin M23 or Brad Harrison	12-pin M23	Moduflex	Isysnet	Turck 16 Outputs	Turck 32 Outputs
24VDC	G9	24 (24)	16 (16)	8 (8)	16 (16)	32 (32)	16 (16)	32 (32)
120VAC*	23	24 (24)	16 (16)	8 (8)	N/A	N/A	N/A	N/A

* 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)** | **HB*** |

* Common end plates for HA & HB.

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***

*Must order communication modules separately.

Number of stations*
02
04
•
24
•
32

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

Thread type	
0	**NPT**
1*	BSPP "G"

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

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Moduflex 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) & 26mm (HA)

| 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*

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

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 |

Mounting

| 15407-2 Valve less base | VX |

15407-2 Overrides / Lights

| G | Non-locking, flush, push - w/ light |
| H | Locking, flush, push / turn - w/ light |

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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Most popular.

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Richland, Michigan
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5599-2, Plug-in, Size 1 (H1)
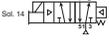
	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	1.5	Single solenoid	24 VDC	Internal	H1EVXBG0B9D	H1EVXBH0B9D
						External	H1EVXXG0B9D	H1EVXXH0B9D
	Sol. 14	4-way, 2-position, air return	1.5	Single solenoid	24 VDC	Internal	H11VXBG0B9D	H11VXBH0B9D
						External	H11VXXG0B9D	H11VXXH0B9D
	Sol. 14 ... Sol. 12	4-way, 2-position	1.5	Double solenoid	24 VDC	Internal	H12VXBG0B9D	H12VXBH0B9D
						External	H12VXXG0B9D	H12VXXH0B9D
	APB #14 ... #12	4-way, 3-position, all ports blocked	1.2	Double solenoid	24 VDC	Internal	H15VXBG0B9D	H15VXBH0B9D
						External	H15VXXG0B9D	H15VXXH0B9D
	CE #14 ... #12	4-way, 3-position, center exhaust	1.2	Double solenoid	24 VDC	Internal	H16VXBG0B9D	H16VXBH0B9D
						External	H16VXXG0B9D	H16VXXH0B9D
	PC #14 ... #12	4-way, 3-position, pressure center	1.2	Double solenoid	24 VDC	Internal	H17VXBG0B9D	H17VXBH0B9D
						External	H17VXXG0B9D	H17VXXH0B9D
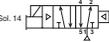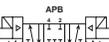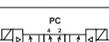
	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	1.5	Single solenoid	120 VAC	Internal	H1EVXBG023D	H1EVXBH023D
						External	H1EVXXG023D	H1EVXXH023D
	Sol. 14	4-way, 2-position, air return	1.5	Single solenoid	120 VAC	Internal	H11VXBG023D	H11VXBH023D
						External	H11VXXG023D	H11VXXH023D
	Sol. 14 ... Sol. 12	4-way, 2-position	1.5	Double solenoid	120 VAC	Internal	H12VXBG023D	H12VXBH023D
						External	H12VXXG023D	H12VXXH023D
	APB #14 ... #12	4-way, 3-position, all ports blocked	1.2	Double solenoid	120 VAC	Internal	H15VXBG023D	H15VXBH023D
						External	H15VXXG023D	H15VXXH023D
	CE #14 ... #12	4-way, 3-position, center exhaust	1.2	Double solenoid	120 VAC	Internal	H16VXBG023D	H16VXBH023D
						External	H16VXXG023D	H16VXXH023D
	PC #14 ... #12	4-way, 3-position, pressure center	1.2	Double solenoid	120 VAC	Internal	H17VXBG023D	H17VXBH023D
						External	H17VXXG023D	H17VXXH023D
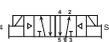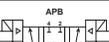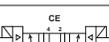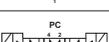
5599-2, Plug-in Single Subbase, Size 1 (H1)

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

Moduflex Series
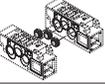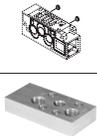
Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

5599-2, Size 1 (H1) Accessories

	Accessory	Description		Part number
	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**
	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**

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

Electrical option	Description	NPT port	BSPP port
	No connector - use with individually wired base	**PS4031010DP**	**PS4031011DP**
	25-pin, D-sub	**PS4020L20DP**	**PS4020L21DP**
	19-pin, round, Brad Harrison	**PS4020L30DP**	**PS4020L31DP**
	12-pin, M23	**PS4020L40DP**	**PS4020L41DP**
	19-pin, M23	**PS4020M20DP**	**PS4020M21DP**
	Moduflex 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 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

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

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

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.

#14 End

#12 End

Station 1 Station 2 Station 3

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	12-pin M23	Moduflex	Isysnet	Turck 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

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*

* Must order communication modules separately.

Number of stations

| 01 |
| 02 |
| 03 |
| 04 |
| • |
| • |
| 24 |

Thread type

| 0 | NPT |
| 1* | BSPP "G" |

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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Isys ISO 5599-2, Plug-in, Size 2 (H2)

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
	APB #14 #12	4-way, 3-position, all ports blocked	2.8	Double solenoid	24 VDC	Internal	**H25VXBG0B9D**	H25VXBH0B9D
						External	**H25VXXG0B9D**	H25VXXH0B9D
	CE #14 #12	4-way, 3-position, center exhaust	2.8	Double solenoid	24 VDC	Internal	**H26VXBG0B9D**	H26VXBH0B9D
						External	**H26VXXG0B9D**	H26VXXH0B9D
	PC #14 #12	4-way, 3-position, pressure center	2.8	Double solenoid	24 VDC	Internal	**H27VXBG0B9D**	H27VXBH0B9D
						External	**H27VXXG0B9D**	H27VXXH0B9D
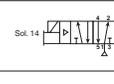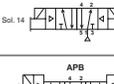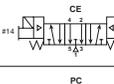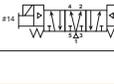
	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	3.0	Single solenoid	120 VAC	Internal	**H2EVXBG023D**	H2EVXBH023D
						External	**H2EVXXG023D**	H2EVXXH023D
	Sol. 14	4-way, 2-position, air return	3.0	Single solenoid	120 VAC	Internal	**H21VXBG023D**	H21VXBH023D
						External	**H21VXXG023D**	H21VXXH023D
	Sol. 14 Sol. 12	4-way, 2-position	3.0	Double solenoid	120 VAC	Internal	**H22VXBG023D**	H22VXBH023D
						External	**H22VXXG023D**	H22VXXH023D
	APB #14 #12	4-way, 3-position, all ports blocked	2.8	Double solenoid	120 VAC	Internal	**H25VXBG023D**	H25VXBH023D
						External	**H25VXXG023D**	H25VXXH023D
	CE #14 #12	4-way, 3-position, center exhaust	2.8	Double solenoid	120 VAC	Internal	**H26VXBG023D**	H26VXBH023D
						External	**H26VXXG023D**	H26VXXH023D
	PC #14 #12	4-way, 3-position, pressure center	2.8	Double solenoid	120 VAC	Internal	**H27VXBG023D**	H27VXBH023D
						External	**H27VXXG023D**	H27VXXH023D
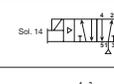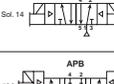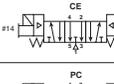
5599-2, Plug-in Single Subbase, Size 2 (H2)

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

Side labels: Moduflex Series · Isys Micro Series · Isys ISO Series · Fieldbus · DX ISOMAX Series · Valvair II Series · **D** Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US   (Revised 01-08-15)   Valve Products

Parker Pneumatic   **Isys ISO 5599-2, Plug-in, Size 2 (H2)**

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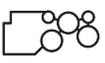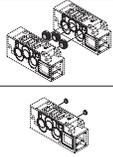
Plug-in, 5599-2 End Plate Kits, Size 2 (H2)

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

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Isys ISO 5599-2, Plug-in, Size 2 (H2)
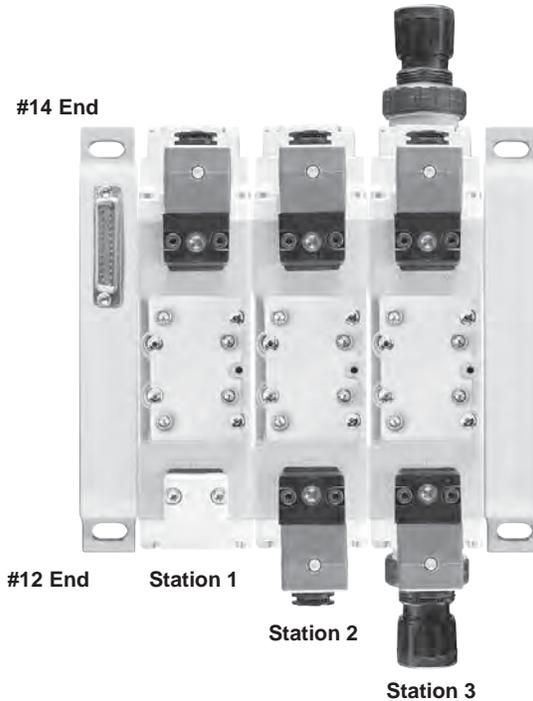
How To Order Plug-in Add-A-Fold Assemblies

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.

#14 End

#12 End **Station 1**

Station 2

Station 3

**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 Brad Harrison	12-pin M23	Moduflex	Isysnet	Turck 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.
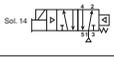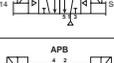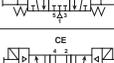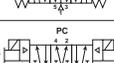
Add-A-Fold Assembly Model Numbers

AA	H2	D	0	03

Valve series	
Right & left end plate	H2

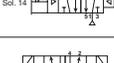| End plate type	
Turck fieldbus with valve driver module - 16 outputs	A*
Turck fieldbus with valve driver module - 32 outputs	B*
25-pin, D-sub	D†
19-pin, brad harrison	E†
12-pin, M23	G†
19-pin, M23	H†
Moduflex fieldbus	T*
Isysnet, with valve driver module	Y*

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

Number of stations	
01	
02	
03	
04	
•	
•	
24	

Thread type	
0	NPT
1*	BSPP "G"

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

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Isys ISO 5599-2, Plug-in, Size 3 (H3)

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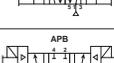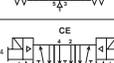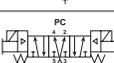
5599-2, Plug-in Single Subbase, Size 3 (H3)

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

Moduflex Series

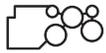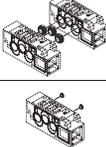Isys Micro Series

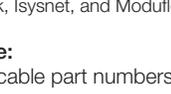Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

5599-2, Size 3 (H3) Accessories

	Accessory	Description		Part number
	Sandwich regulator	Common pressure	5-125 PSIG w/ gauge	**PS4238166CP**
		Independent pressure	5-125 PSIG w/ gauge	**PS4238266CP**
	Blanking plate kit			**PS4234CP**
	Sandwich flow control			**PS4235CP**
	Manifold to manifold gasket kits			**PS4213P**
	Manifold port isolation kit	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
	No connector - use with individually wired base	**PS4231010DP**	**PS4231011DP**
	25-pin, D-sub	**PS4220L20DP**	**PS4220L21DP**
	19-pin, round, Brad Harrison	**PS4220L30DP**	**PS4220L31DP**
	12-pin, M23	**PS4220L40DP**	**PS4220L41DP**
	19-pin, M23	**PS4220M20DP**	**PS4220M21DP**
	Moduflex 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 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

Catalog PDN1000-3US   Valve Products
Parker Pneumatic   **Isys ISO 5599-2, Plug-in, Size 3 (H3)**

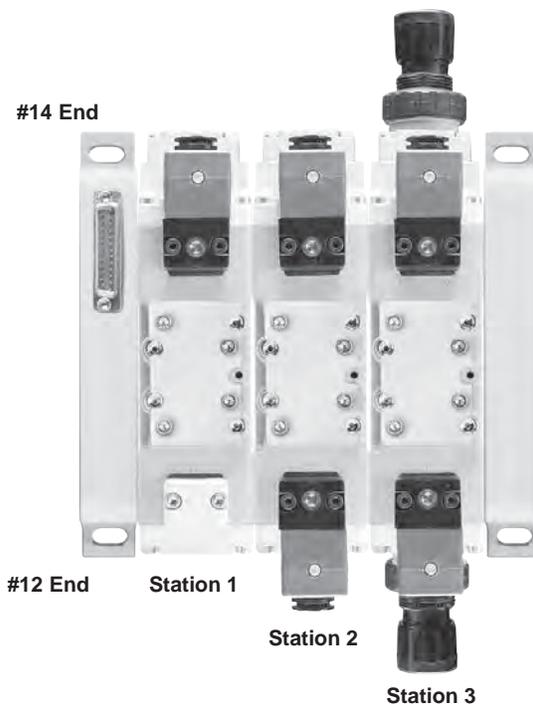## How To Order Plug-in Add-A-Fold Assemblies

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.

#14 End

#12 End   **Station 1**

Station 2

Station 3

**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 Brad Harrison	12-pin M23	Moduflex	Isysnet	Turck 16 Outputs	Turck 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†
Moduflex fieldbus	T*
Isysnet, with valve driver module	Y*

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

Number of stations

01
02
03
04
•
•
24

Thread type

0	NPT
1*	BSPP "G"

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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

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

| H1 | E | VX | B | G | 0 | 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 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 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 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 Enclosure / Lead length

| 0 | None, valve less base |

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

Options

25-pin, D-sub	L2
19-pin, round, brad harrison	L3
12-pin, M23	L4
19-pin, M23	M2
Moduflex 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 miodule seperately
  turck, isysnet, and moduflex communication modules must be ordered separately.
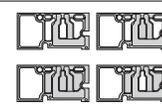 See fieldbus section for more information.

Engineering level

| C | Basic series PS40 |

Thread type

| 0 | NPT |
| 1* | BSPP "G" |

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

Left Hand
End Plate

Transition Plate

H1 to H2 Shown

Right Hand
End Plate

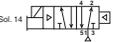**Side tabs (left margin):**
Moduflex Series
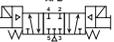Isys Micro Series
Isys ISO Series
Fieldbus
DX ISOMAX Series
Valvair II Series
D
Subbase & Manifold Valve Products

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Richland, Michigan
www.parker.com/pneumatics

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

	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	0.55	Single solenoid	24 VDC	Internal	**HBEWXBG2G9000FA**	**HBEWXBH2G9000FA**
						External	**HBEWXLG2G9000FA**	**HBEWXLH2G9000FA**
	Sol. 14	4-way, 2-position, air return	0.55	Single solenoid	24 VDC	Internal	**HB1WXBG2G9000FA**	**HB1WXBH2G9000FA**
						External	**HB1WXLG2G9000FA**	**HB1WXLH2G9000FA**
	Sol. 14 ... Sol. 12	4-way, 2-position	0.55	Double solenoid	24 VDC	Internal	**HB2WXBG2G9000FA**	**HB2WXBH2G9000FA**
						External	**HB2WXLG2G9000FA**	**HB2WXLH2G9000FA**
	APB #14 ... #12	4-way, 3-position, all ports blocked	0.5	Double solenoid	24 VDC	Internal	**HB5WXBG2G9000FA**	**HB5WXBH2G9000FA**
						External	**HB5WXLG2G9000FA**	**HB5WXLH2G9000FA**
	CE #14 ... #12	4-way, 3-position, center exhaust	0.5	Double solenoid	24 VDC	Internal	**HB6WXBG2G9000FA**	**HB6WXBH2G9000FA**
						External	**HB6WXLG2G9000FA**	**HB6WXLH2G9000FA**
	PC #14 ... #12	4-way, 3-position, pressure center	0.5	Double solenoid	24 VDC	Internal	**HB7WXBG2G9000FA**	**HB7WXBH2G9000FA**
						External	**HB7WXLG2G9000FA**	**HB7WXLH2G9000FA**
	#14 ... #12 5 Port, Dual 3/2, NC/NC	3-way, 2-position, dual valve, NC/NC	0.45	Double solenoid	24 VDC	Internal	**HBNWXBG2G9000FA**	**HBNWXBH2G9000FA**
	#14 ... #12 5 Port, Dual 3/2, NO/NO	3-way, 2-position, dual valve, NO/NO	0.45	Double solenoid	24 VDC	Internal	**HBPWXBG2G9000FA**	**HBPWXBH2G9000FA**

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**

2 Station manifold bases	Description	1/8" NPT	1/8" BSPP
	End ported bases	**PS5611510P**	**PS5611520P**

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
	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	Standard		**PS561AP**
		Blocked #1 port		**PS561BP**
		Blocked #1, 3, 5, ports		**PS561CP**
		Blocked #3, 5 ports		**PS561DP**

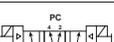Moduflex Series

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Subbase & Manifold Valve Products

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Pneumatic Division
Richland, Michigan
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15407-1, Non Plug-in, Size 26mm (HA)

	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	1.1	Single solenoid	24 VDC	Internal	**HAEWXBG2G9000FA**	HAEWXBH2G9000FA
						External	**HAEWXLG2G9000FA**	HAEWXLH2G9000FA
	Sol. 14	4-way, 2-position, air return	1.1	Single solenoid	24 VDC	Internal	**HA1WXBG2G9000FA**	HA1WXBH2G9000FA
						External	**HA1WXLG2G9000FA**	HA1WXLH2G9000FA
	Sol. 14 / Sol. 12	4-way, 2-position	1.1	Double solenoid	24 VDC	Internal	**HA2WXBG2G9000FA**	HA2WXBH2G9000FA
						External	**HA2WXLG2G9000FA**	HA2WXLH2G9000FA
	#14 APB #12	4-way, 3-position, all ports blocked	1.0	Double solenoid	24 VDC	Internal	**HA5WXBG2G9000FA**	HA5WXBH2G9000FA
						External	**HA5WXLG2G9000FA**	HA5WXLH2G9000FA
	#14 CE #12	4-way, 3-position, center exhaust	1.0	Double solenoid	24 VDC	Internal	**HA6WXBG2G9000FA**	HA6WXBH2G9000FA
						External	**HA6WXLG2G9000FA**	HA6WXLH2G9000FA
	#14 PC #12	4-way, 3-position, pressure center	1.0	Double solenoid	24 VDC	Internal	**HA7WXBG2G9000FA**	HA7WXBH2G9000FA
						External	**HA7WXLG2G9000FA**	HA7WXLH2G9000FA
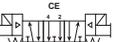
15407-1, Non Plug-in, Size 26mm (HA)

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
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**
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**
Manifold to manifold gasket kits	Standard		**PS561AP**
	Blocked #1 port		**PS561BP**
	Blocked #1, 3, 5, ports		**PS561CP**
	Blocked #3, 5 ports		**PS561DP**
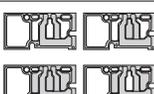
Non Plug-in, 15407-1, Size 18mm (HB) & 26mm (HA)

| HB | E | WX | B | G | 2 | G9 | 000F | A |

Basic series 15407-1

| ISO 15407-1 18mm | HB |
| ISO 15407-1 26mm | HA |

15407-1 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
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†

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

15407-1 Mounting

| Valve less base | WX |

15407-1 Pilot source / Pilot exhaust

| B | Internal pilot, port #1 / vented |
| L* | External pilot, port #14 / vented |

* Must be specified when using Sandwich Regulators.

15407-1 Overrides / Lights

| G | Non-locking, flush, push - w/ light |
| H | Locking, flush, push / turn - w/ light |

15407-1 Enclosure / Lead length

| 2 | 4-pin, M12 micro, straight connector |

15407-1 Voltage & frequency

| G9 | 24VDC | LED & suppression |

15407-1 Central connector wiring options

| 000F | SAE / Ford, ISO 20401 |

15407-1 Engineering level

| A | Current |

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.)

Add-A-Fold Assembly Model Number

| AA | HBS | 0 | 04 |

Valve series

| Right & left end plate 15407-1 (HB 18mm & HA 26mm) | HBS† |

† For use with PS5511 and PS5611 manifolds.

Thread type

| NPT | 0 |
| BSPP "G" | 1* |

* BSPP conforms to ISO 1179-1 w 228-1 threads for end plate Type "S".

Number of stations*

| 02 |
| 04 |
| • |
| 24 |
| • |
| 32 |

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

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

18mm Station 1 · 18mm Station 2 · 26mm Station 3 · 26mm Station 4
#14 End · #12 End

Example

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

Item	Qty.	Part No.	Location
01	1	AAHBS004	
02	1	HB1WXBG2G9000FA	Station 1
03	1	HB2WXBG2G9000FA	Station 2
04	1	PS5611510P	Station 1 & 2
05	2	HA1WXBG2G9000FA	Station 3 & 4
06	1	PS5511510P	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.
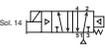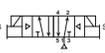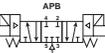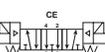
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Catalog PDN1000-3US   Valve Products
Parker Pneumatic   **Isys ISO 5599-1, Non Plug-in, Size 1 (H1)**

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

	Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
		4-way, 2-position, spring return	1.5	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	**H1EWXBG2B9000FD**	H1EWXBH2B9000FD
							External	**H1EWXXG2B9000FD**	**H1EWXXH2B9000FD**
		4-way, 2-position, air return	1.5	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	**H11WXBG2B9000FD**	**H11WXBH2B9000FD**
							External	**H11WXXG2B9000FD**	**H11WXXH2B9000FD**
		4-way, 2-position	1.5	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H12WXBG2B9000FD**	**H12WXBH2B9000FD**
							External	**H12WXXG2B9000FD**	**H12WXXH2B9000FD**
		4-way, 3-position, all ports blocked	1.2	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H15WXBG2B9000FD**	**H15WXBH2B9000FD**
							External	**H15WXXG2B9000FD**	**H15WXXH2B9000FD**
		4-way, 3-position, center exhaust	1.2	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H16WXBG2B9000FD**	**H16WXBH2B9000FD**
							External	**H16WXXG2B9000FD**	**H16WXXH2B9000FD**
		4-way, 3-position, pressure center	1.2	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H17WXBG2B9000FD**	**H17WXBH2B9000FD**
							External	**H17WXXG2B9000FD**	**H17WXXH2B9000FD**
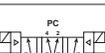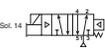
	Symbol	Type	Cv	Operator	Voltage		Pilot	Non-locking	Locking
		4-way, 2-position, spring return	1.5	Single solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	**H1EWXBG323000FD**	H1EWXBH323000FD
							External	**H1EWXXG323000FD**	**H1EWXXH323000FD**
		4-way, 2-position, air return	1.5	Single solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	**H11WXBG323000FD**	**H11WXBH323000FD**
							External	**H11WXXG323000FD**	**H11WXXH323000FD**
		4-way, 2-position	1.5	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	**H12WXBG323000FD**	**H12WXBH323000FD**
							External	**H12WXXG323000FD**	**H12WXXH323000FD**
		4-way, 3-position, all ports blocked	1.2	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	**H15WXBG323000FD**	**H15WXBH323000FD**
							External	**H15WXXG323000FD**	**H15WXXH323000FD**
		4-way, 3-position, center exhaust	1.2	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	**H16WXBG323000FD**	**H16WXBH323000FD**
							External	**H16WXXG323000FD**	**H16WXXH323000FD**
		4-way, 3-position, pressure center	1.2	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	**H17WXBG323000FD**	**H17WXBH323000FD**
							External	**H17WXXG323000FD**	**H17WXXH323000FD**
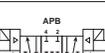
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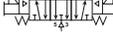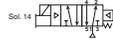
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Catalog PDN1000-3US
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Valve Products
Isys ISO 5599-1, Non Plug-in, Size 1 (H1)

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

	Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
	Sol. 14	4-way, 2-position, spring return	1.5	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	H1EWXBBL49D	H1EWXBDL49D
							External	H1EWXXBL49D	H1EWXXDL49D
	Sol. 14	4-way, 2-position, air return	1.5	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	H11WXBBL49D	H11WXBDL49D
							External	H11WXXBL49D	H11WXXDL49D
	Sol. 14 ... Sol. 12	4-way, 2-position	1.5	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H12WXBBL49D	H12WXBDL49D
							External	H12WXXBL49D	H12WXXDL49D
	APB #14 ... #12	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
	CE #14 ... #12	4-way, 3-position, center exhaust	1.2	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H16WXBBL49D	H16WXBDL49D
							External	H16WXXBL49D	H16WXXDL49D
	PC #14 ... #12	4-way, 3-position, pressure center	1.2	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	H17WXBBL49D	H17WXBDL49D
							External	H17WXXBL49D	H17WXXDL49D
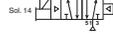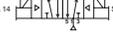
	Symbol	Type	Cv	Operator	Voltage	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	1.5	Single solenoid	120 VAC	Internal	H1EWXBBL53D	H1EWXBDL53D
						External	H1EWXXBL53D	H1EWXXDL53D
	Sol. 14	4-way, 2-position, air return	1.5	Single solenoid	120 VAC	Internal	H11WXBBL53D	H11WXBDL53D
						External	H11WXXBL53D	H11WXXDL53D
	Sol. 14 ... Sol. 12	4-way, 2-position	1.5	Double solenoid	120 VAC	Internal	H12WXBBL53D	H12WXBDL53D
						External	H12WXXBL53D	H12WXXDL53D
	APB #14 ... #12	4-way, 3-position, all ports blocked	1.2	Double solenoid	120 VAC	Internal	H15WXBBL53D	H15WXBDL53D
						External	H15WXXBL53D	H15WXXDL53D
	CE #14 ... #12	4-way, 3-position, center exhaust	1.2	Double solenoid	120 VAC	Internal	H16WXBBL53D	H16WXBDL53D
						External	H16WXXBL53D	H16WXXDL53D
	PC #14 ... #12	4-way, 3-position, pressure center	1.2	Double solenoid	120 VAC	Internal	H17WXBBL53D	H17WXBDL53D
						External	H17WXXBL53D	H17WXXDL53D
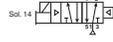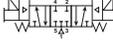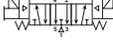
Note: The 120 VAC rows all use "3-pin DIN connector on coil" enclosure.

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

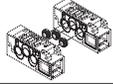| End plate kits	Description	NPT port	BSPP port
	H1 Non-collective wiring end plates	PS4031010CP	PS4031011CP

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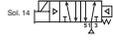
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Isys ISO Series
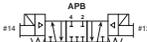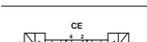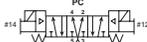
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D

Subbase & Manifold Valve Products

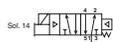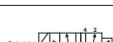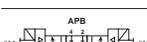**Parker Hannifin Corporation**
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

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**

Moduflex
Series

Isys Micro
Series

Isys ISO
Series
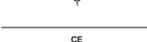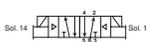
Fieldbus

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.

#14 End

#12 End
Station 1

Station 2   Station 3

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

Right & left end plate	H1

End plate type

Standard - non-collective wiring	S

Thread type

NPT	0
BSPP "G"	1*

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

Transition plate

Blank	No transition plate
C	H1 to H2
D	H1 to H3

Number of stations
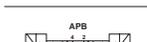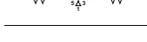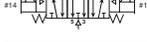
01
02
03
04
•
•
24

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US
Valve Products

Parker Pneumatic
Isys ISO 5599-1, Non Plug-in, Size 2 (H2)

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

	Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
	Sol. 14	4-way, 2-position, spring return	3.0	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	**H2EWXBG2B9000FD**	**H2EWXBH2B9000FD**
							External	**H2EWXXG2B9000FD**	**H2EWXXH2B9000FD**
	Sol. 14	4-way, 2-position, air return	3.0	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	**H21WXBG2B9000FD**	**H21WXBH2B9000FD**
							External	**H21WXXG2B9000FD**	**H21WXXH2B9000FD**
	Sol. 14 Sol. 12	4-way, 2-position	3.0	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H22WXBG2B9000FD**	**H22WXBH2B9000FD**
							External	**H22WXXG2B9000FD**	**H22WXXH2B9000FD**
	APB #14 #12	4-way, 3-position, all ports blocked	2.8	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H25WXBG2B9000FD**	**H25WXBH2B9000FD**
							External	**H25WXXG2B9000FD**	**H25WXXH2B9000FD**
	CE #14 #12	4-way, 3-position, center exhaust	2.8	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H26WXBG2B9000FD**	**H26WXBH2B9000FD**
							External	**H26WXXG2B9000FD**	**H26WXXH2B9000FD**
	PC #14 #12	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		Pilot	Non-locking	Locking
	Sol. 14	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**
	Sol. 14	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**
	Sol. 14 Sol. 12	4-way, 2-position	3.0	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	**H22WXBG323000FD**	**H22WXBH323000FD**
							External	**H22WXXG323000FD**	**H22WXXH323000FD**
	APB #14 #12	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**
	CE #14 #12	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**
	PC #14 #12	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**
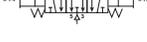
5599-1, Non Plug-in, Size 2 (H2) with 3-Pin DIN Connectors

	Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
	Sol. 14	4-way, 2-position, spring return	3.0	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	**H2EWXBBL49D**	**H2EWXBCL49D**
							External	**H2EWXXBL49D**	**H2EWXXCL49D**
	Sol. 14	4-way, 2-position, air return	3.0	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	**H21WXBBL49D**	**H21WXBCL49D**
							External	**H21WXXBL49D**	**H21WXXCL49D**
	Sol. 14 Sol. 12	4-way, 2-position	3.0	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	**H22WXBBL49D**	**H22WXBCL49D**
							External	**H22WXXBL49D**	**H22WXXCL49D**
	APB #14 #12	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**
	CE #14 #12	4-way, 3-position, center exhaust	2.8	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	**H26WXBBL49D**	**H26WXBCL49D**
							External	**H26WXXBL49D**	**H26WXXCL49D**
	PC #14 #12	4-way, 3-position, pressure center	2.8	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	**H27WXBBL49D**	**H27WXBCL49D**
							External	**H27WXXBL49D**	**H27WXXCL49D**
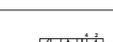
Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
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Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Isys ISO 5599-1, Non Plug-in, Size 2 (H2)

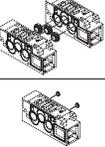## 5599-1, Non Plug-in, Size 2 (H2) with 3-Pin DIN Connectors

	Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	3.0	Single solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H2EWXBBL53D**	H2EWXBCL53D
							External	**H2EWXXBL53D**	**H2EWXXCL53D**
	Sol. 14	4-way, 2-position, air return	3.0	Single solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H21WXBBL53D**	**H21WXBCL53D**
							External	**H21WXXBL53D**	**H21WXXCL53D**
	Sol. 14 ... Sol. 12	4-way, 2-position	3.0	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H22WXBBL53D**	H22WXBCL53D
							External	**H22WXXBL53D**	**H22WXXCL53D**
	#14 APB #12	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**
	#14 CE #12	4-way, 3-position, center exhaust	2.8	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H26WXBBL53D**	**H26WXBCL53D**
							External	**H26WXXBL53D**	**H26WXXCL53D**
	#14 PC #12	4-way, 3-position, pressure center	2.8	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H27WXBBL53D**	**H27WXBCL53D**
							External	**H27WXXBL53D**	**H27WXXCL53D**
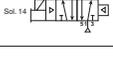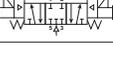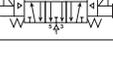
5599-1, Non Plug-in, Size 2 (H2)

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	**PS4111670CP**	**PS4111680CP**
	Note: Manifolds include 2 pipe plugs		

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
	Sandwich regulator	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**
	Manifold port isolation kit	Main galley (1, 3, 5)		**PS4132CP**
		Pilot galley		**PS4033CP**

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
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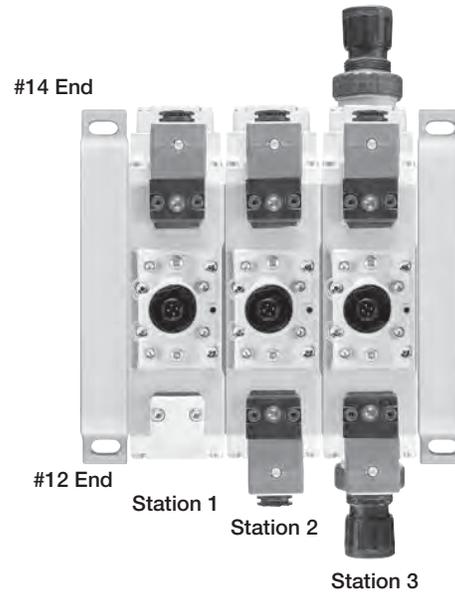## How To Order Non Plug-in Add-A-Fold Assemblies

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.

#14 End

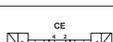**#12 End**

Station 1

Station 2

Station 3

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

Add-A-Fold Assembly Model Number

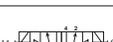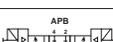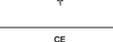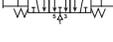**AA** **H2** **S** **0** **03**

Valve series
Right & left end plate   H2

End plate type
Standard - non-collective wiring   S

Thread type
| NPT | 0 |
| BSPP "G" | 1* |

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

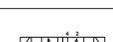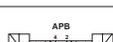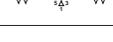| Number of stations |
|---|
| 01 |
| 02 |
| 03 |
| 04 |
| • |
| • |
| 24 |

Moduflex Series
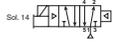
Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D
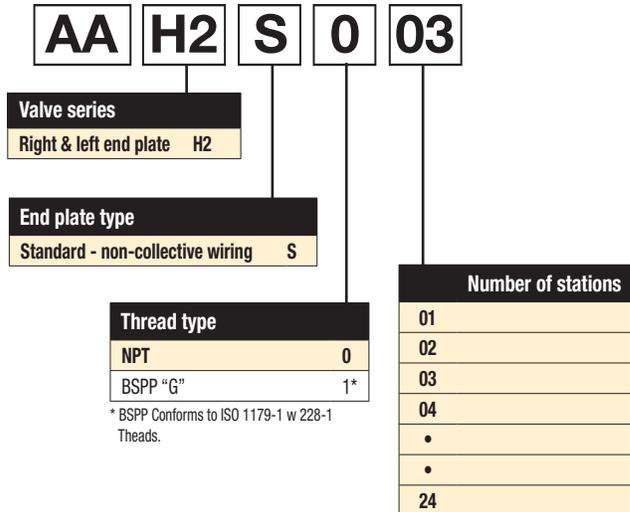
Subbase & Manifold Valve Products

5599-1, Non Plug-in, Size 3 (H3) with Central Connectors
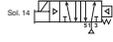
Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
Sol. 14	4-way, 2-position, spring return	6.0	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	**H3EWXBG2B9000FD**	H3EWXBH2B9000FD
						External	**H3EWXXG2B9000FD**	**H3EWXXH2B9000FD**
Sol. 14	4-way, 2-position, air return	6.0	Single solenoid	24 VDC	4-pin, central M12 connector	Internal	**H31WXBG2B9000FD**	**H31WXBH2B9000FD**
						External	**H31WXXG2B9000FD**	**H31WXXH2B9000FD**
Sol. 14 ... Sol. 12	4-way, 2-position	6.0	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H32WXBG2B9000FD**	**H32WXBH2B9000FD**
						External	**H32WXXG2B9000FD**	**H32WXXH2B9000FD**
#14 APB #12	4-way, 3-position, all ports blocked	5.0	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H35WXBG2B9000FD**	**H35WXBH2B9000FD**
						External	**H35WXXG2B9000FD**	**H35WXXH2B9000FD**
#14 CE #12	4-way, 3-position, center exhaust	5.0	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H36WXBG2B9000FD**	**H36WXBH2B9000FD**
						External	**H36WXXG2B9000FD**	**H36WXXH2B9000FD**
#14 PC #12	4-way, 3-position, pressure center	5.0	Double solenoid	24 VDC	4-pin, central M12 connector	Internal	**H37WXBG2B9000FD**	**H37WXBH2B9000FD**
						External	**H37WXXG2B9000FD**	**H37WXXH2B9000FD**
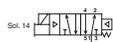
Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Non-locking	Locking
Sol. 14	4-way, 2-position, spring return	6.0	Single solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	**H3EWXBG323000FD**	H3EWXBH323000FD
						External	**H3EWXXG323000FD**	**H3EWXXH323000FD**
Sol. 14	4-way, 2-position, air return	6.0	Single solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	**H31WXBG323000FD**	**H31WXBH323000FD**
						External	**H31WXXG323000FD**	**H31WXXH323000FD**
Sol. 14 ... Sol. 12	4-way, 2-position	6.0	Double solenoid	120 VAC	5-Pin, central 7/8" mini connector	Internal	**H32WXBG323000FD**	**H32WXBH323000FD**
						External	**H32WXXG323000FD**	**H32WXXH323000FD**
#14 APB #12	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**
#14 CE #12	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**
#14 PC #12	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**
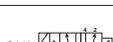
5599-1, Non Plug-in, Size 3 (H3) with 3-Pin DIN Connectors

Symbol	Type	Cv	Operator	Voltage	Enclosure	Pilot	Internal pilot	External pilot
Sol. 14	4-way, 2-position, spring return	6.0	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	**H3EWXBBL49D**	H3EWXBCL49D
						External	**H3EWXXBL49D**	**H3EWXXCL49D**
Sol. 14	4-way, 2-position, air return	6.0	Single solenoid	24 VDC	3-pin DIN connector on coil	Internal	**H31WXBBL49D**	**H31WXBCL49D**
						External	**H31WXXBL49D**	**H31WXXCL49D**
Sol. 14 ... Sol. 12	4-way, 2-position	6.0	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	**H32WXBBL49D**	**H32WXBCL49D**
						External	**H32WXXBL49D**	**H32WXXCL49D**
#14 APB #12	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**
#14 CE #12	4-way, 3-position, center exhaust	5.0	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	**H36WXBBL49D**	**H36WXBCL49D**
						External	**H36WXXBL49D**	**H36WXXCL49D**
#14 PC #12	4-way, 3-position, pressure center	5.0	Double solenoid	24 VDC	3-pin DIN connector on coil	Internal	**H37WXBBL49D**	**H37WXBCL49D**
						External	**H37WXXBL49D**	**H37WXXCL49D**

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

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

5599-1, Non Plug-in, Size 3 (H3) with 3-Pin DIN Connectors
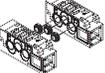
Symbol		Type	Cv	Operator	Voltage	Pilot		Non-locking	Locking
	Sol. 14	4-way, 2-position, spring return	6.0	Single solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H3EWXBBL53D**	H3EWXBCL53D
							External	**H3EWXXBL53D**	H3EWXXCL53D
	Sol. 14	4-way, 2-position, air return	6.0	Single solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H31WXBBL53D**	H31WXBCL53D
							External	**H31WXXBL53D**	H31WXXCL53D
	Sol. 14 Sol. 12	4-way, 2-position	6.0	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H32WXBBL53D**	H32WXBCL53D
							External	**H32WXXBL53D**	H32WXXCL53D
	APB #14 #12	4-way, 3-position, all ports blocked	5.0	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H35WXBBL53D**	H35WXBCL53D
							External	**H35WXXBL53D**	H35WXXCL53D
	CE #14 #12	4-way, 3-position, center exhaust	5.0	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H36WXBBL53D**	H36WXBCL53D
							External	**H36WXXBL53D**	H36WXXCL53D
	PC #14 #12	4-way, 3-position, pressure center	5.0	Double solenoid	120 VAC	3-pin DIN connector on coil	Internal	**H37WXBBL53D**	H37WXBCL53D
							External	**H37WXXBL53D**	H37WXXCL53D
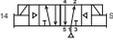
5599-1, Non Plug-in, Size 3 (H3)

Single subbase	Description	3/4" NPT	3/4" BSPP
	Side ported base	**PS4211190CP**	**PS4211180CP**

Manifold bases	Description	3/4" NPT	3/4" BSPP
	Bottom / End ported bases	**PS4211690CP**	**PS4211600CP**
	Note: Manifolds include 2 pipe plugs		

End plate kits	Description	NPT port	BSPP port
	H3 Non-collective wiring end plates	**PS4231010CP**	**PS4231011CP**

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

	Accessory	Description		Part number
	Sandwich regulator	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**
	Manifold port isolation kit	Main galley (1, 3, 5)		**PS4232CP**
		Pilot galley		**PS4033CP**

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

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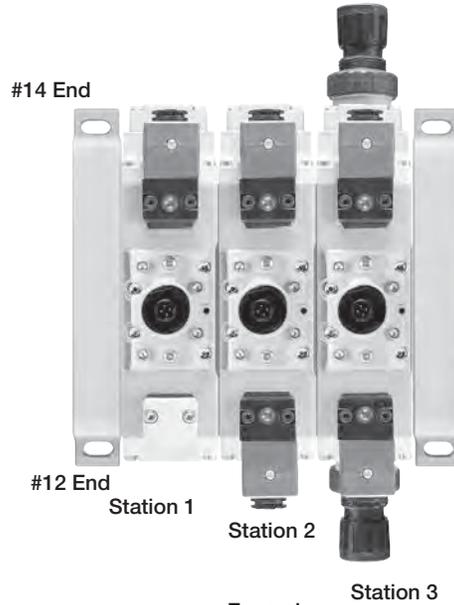## How To Order Non Plug-in Add-A-Fold Assemblies

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

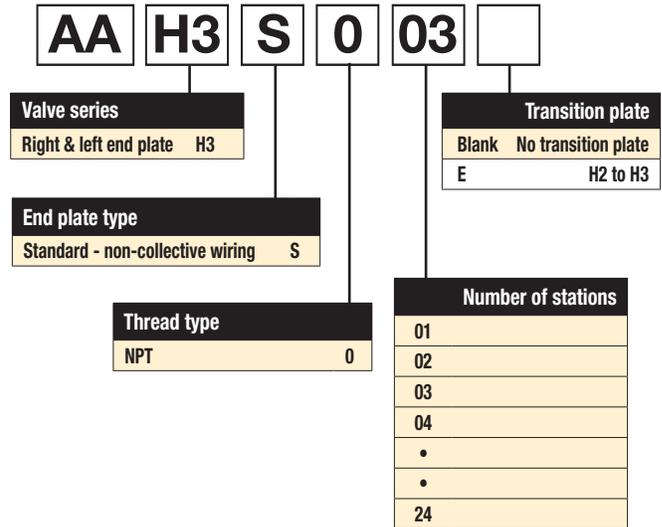Application requires a 3-Station manifold with a valve and regulator on Station 3.

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.
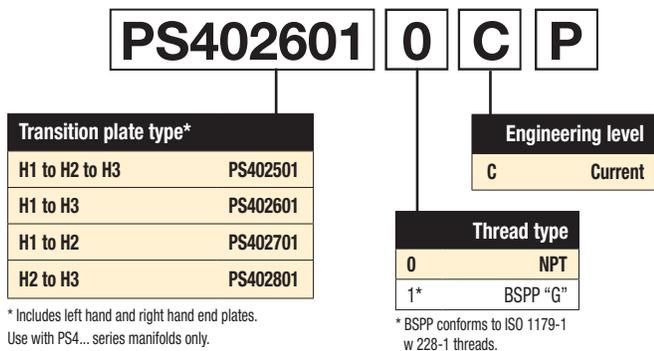
#14 End

#12 End
Station 1

Station 2

Station 3

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

Add-A-Fold Assembly Model Number

| AA | H3 | S | 0 | 03 | |

Valve series

| Right & left end plate | H3 |

End plate type

| Standard - non-collective wiring | S |

Thread type

| NPT | 0 |

Transition plate

| Blank | No transition plate |
| E | H2 to H3 |

Number of stations

| 01 |
| 02 |
| 03 |
| 04 |
| • |
| • |
| 24 |

5599-1 Non Plug-in Transition Plate Kits

| PS402601 | 0 | C | P |

Transition plate type*

H1 to H2 to H3	PS402501
H1 to H3	PS402601
H1 to H2	PS402701
H2 to H3	PS402801

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

Engineering level

| C | Current |

Thread type

| 0 | NPT |
| 1* | BSPP "G" |

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

Left Hand End Plate

Transition Plate

Right Hand End Plate

H1 to H2 Shown

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

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

H1 E WX B G 2B9 000F D

Left sidebar tabs:
- Moduflex Series
- Isys Micro Series
- Isys ISO Series
- Fieldbus
- DX ISOMAX Series
- Valvair II Series

D — Subbase & Manifold Valve Products

Basic series 5599-1

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

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 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

5599 -1 Engineering level

D	Current

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".

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 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 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 Engineering level

D	Current

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 Overrides / Lights

Non-locking, flush, push - no light	B
Locking, flush, push / turn - no light	C

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Isys ISO Kits & Accessories

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	Turck 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	Turck 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
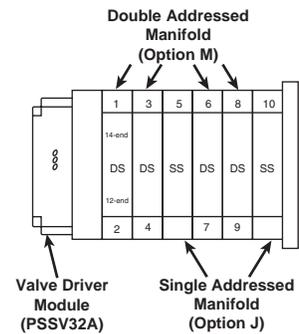
I/O Addressing Examples

**HB & HA Example
Two Station Manifold Bases**

Double Address Circuit Board (Option M)
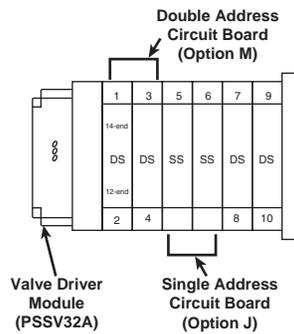
Notes: SS = Single Solenoid Valve
DS = Double Solenoid Valve
First output address the #14 end of the valve closest to the valve driver module.

Valve Driver Module (PSSV32A)

Single Address Circuit Board (Option J)

**H1, H2 & H3 Example:
Single Station Manifold Bases**

Double Addressed Manifold (Option M)

Valve Driver Module (PSSV32A)

Single Addressed Manifold (Option J)

5599-2 & 5599-1 AUTO Solenoid Kits

Valve size	Voltage code	Coil kit number
	42 (24VAC)	**PS404142P**
	45 (12VDC)	**PS404145P**
H1, H2 & H3	B9 (24VDC)	**PS4041B9P**
	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

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Valve Products

Parker Pneumatic

Isys ISO Kits & Accessories

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
H1, H2 & H3	**PS4012P**
	PS4112P
	PS4212P

Quantity 12

Valve Bolt Kits

Valve size	Kit number
HA & HB	**PS5687P**
	PS5587P
H1, H2 & H3	**PS4087DP**
	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
Indicates External Pilot	HB	**PS5605P**
HB shown Indicates Internal Pilot	HA	**PS5505P**
Indicates Internal Pilot Indicates External Pilot	H1, H2 & H3	**PS4007P**
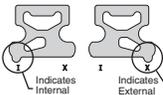
Quantity 10

Catalog PDN1000-3US
Valve Products

Parker Pneumatic

Isys ISO Dimensions

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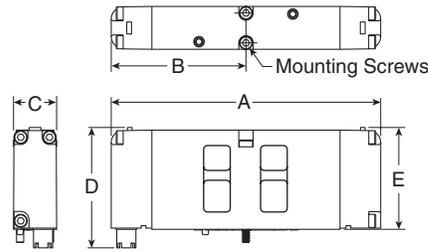
18mm Dimensions

A	B	C	D
4.43	2.22	.72	1.98
(113)	(56)	(18)	(50)

E			
1.68			
(43)			

Inches (mm)

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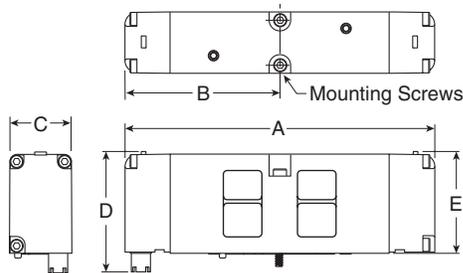
26mm Dimensions

A	B	C	D
5.10	2.55	1.02	1.98
(130)	(65)	(26)	(50)

E			
1.66			
(42)			

Inches (mm)

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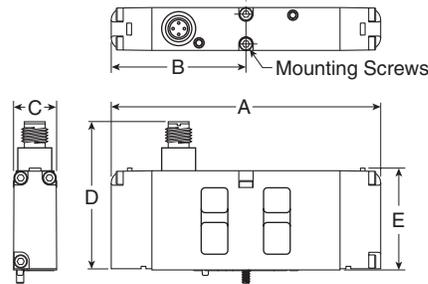
18mm Dimensions

A	B	C	D
4.43	2.22	.72	2.40
(113)	(56)	(18)	(61)

E			
1.68			
(43)			

Inches (mm)

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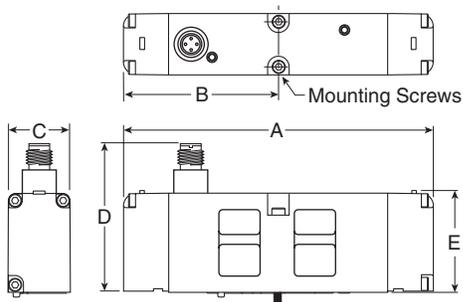
26mm Dimensions

A	B	C	D
5.10	2.55	1.02	2.40
(130)	(65)	(26)	(61)

E			
1.66			
(42)			

Inches (mm)

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

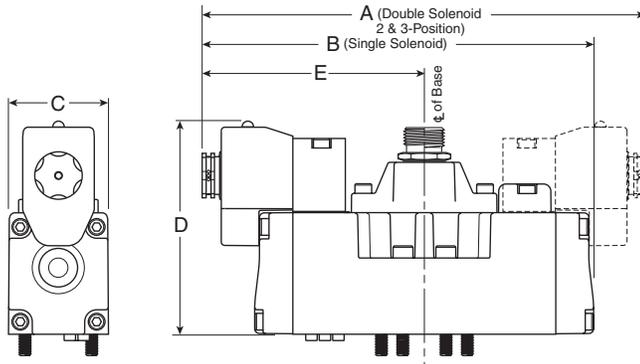**Parker Hannifin Corporation**
Pneumatic Division
Richland, Michigan
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Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Isys ISO Dimensions

Isys ISO 5599-2

H1 Valves Shown

A (Double Solenoid 2 & 3-Position)
B (Single Solenoid)
E
C
D
℄ of Base

Isys ISO 5599-1 Auto

A (Double Solenoid 2 & 3-Position)
B (Single Solenoid)
E
C
D
℄ of Base
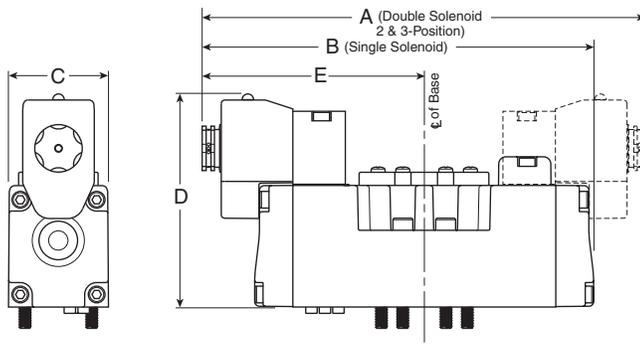
H1 Dimensions

A	A₁	B	C
7.32	5.59	6.46	1.65
(186)	(142)	(164)	(42)
D	**D₁**	**D₂**	**D₃**
3.54	4.29	4.29	2.50
(90)	(109)	(109)	(63.5)
D₄	**E**	**E₁**	
2.48	3.66	2.80	
(63)	(93)	(71)	

Inches (mm)

Isys ISO 5599-1 CNOMO

A (Double Solenoid 2 & 3-Position)
B (Single Solenoid)
E
C
D₁ (30mm)
D₂ (22mm)
℄ of Base

H2 Dimensions

A	A₁	B	C
8.35	6.62	7.48	2.17
(212)	(168)	(190)	(55)
D	**D₁**	**D₂**	**D₃**
4.05	4.80	4.57	2.99
(103)	(122)	(116)	(76)
E	**E₁**		
4.17	3.31		
(106)	(84)		

Inches (mm)
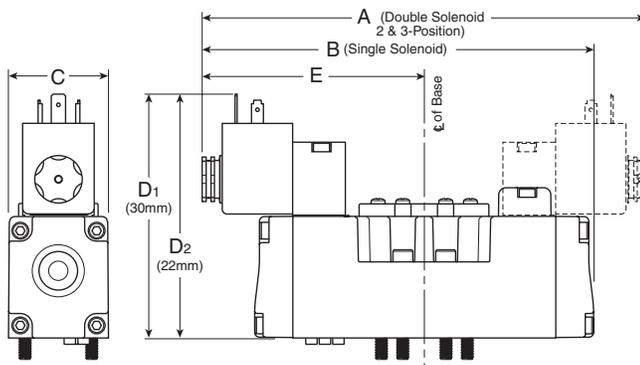
Isys ISO 5599-2 / 5599-1 Remote Pilot
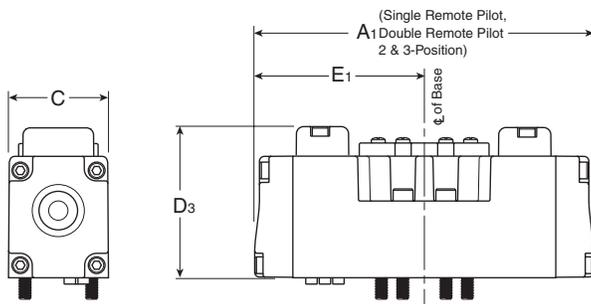
(Single Remote Pilot, Double Remote Pilot 2 & 3-Position)
A₁
E₁
C
D₃
℄ of Base

H3 Dimensions

A	A₁	B	C
9.68	6.98	8.68	2.17
(246)	(177)	(220)	(55)
D	**D₁**	**D₂**	**D₃**
4.05	4.80	4.57	2.99
(103)	(122)	(116)	(76)
E	**E₁**		
4.74	3.49		
(121)	(89)		

Inches (mm)

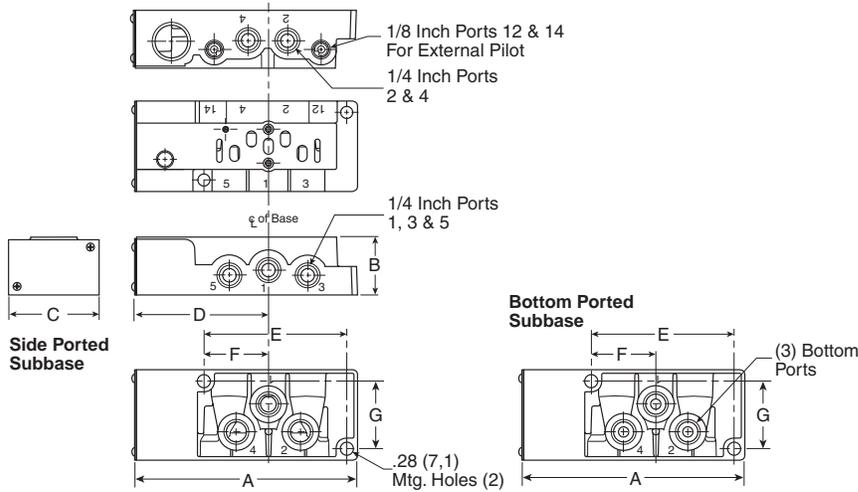Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

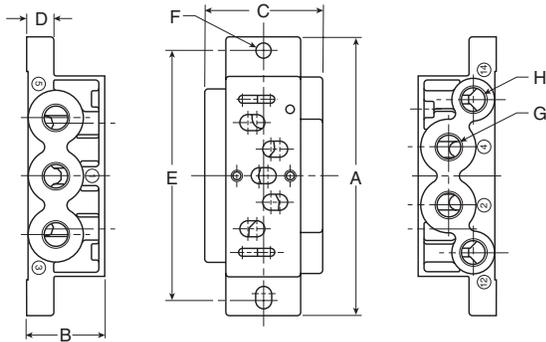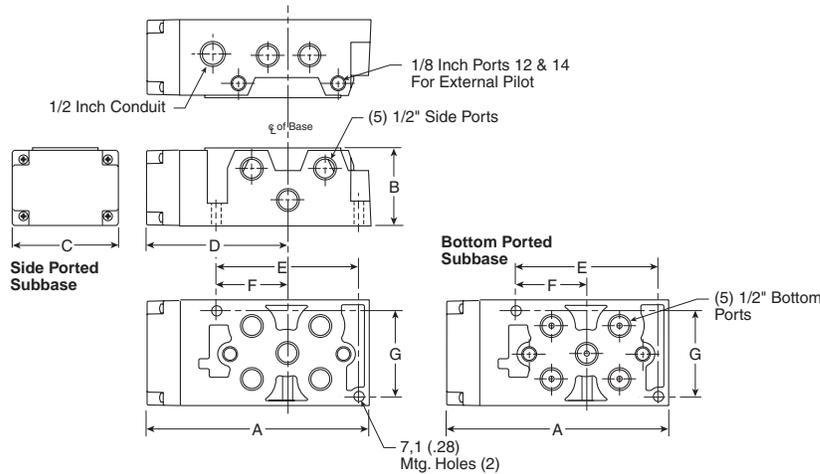### Isys ISO 15407-2 & 15407-1 Size 26mm (HA), Plug-in Subbases

1/8 Inch Ports 12 & 14
For External Pilot

1/4 Inch Ports
2 & 4

1/4 Inch Ports
1, 3 & 5

Side Ported Subbase

Bottom Ported Subbase

(3) Bottom Ports

.28 (7,1)
Mtg. Holes (2)

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

(2) 1/8 Inch Pilot Ports

1/2 Inch Ports 3 & 5

3/8 Inch Port 1

C (HB)

C₁ (HA)

(C x n + C₁ x n₁) + F

(C x n + C₁ x n₁) + G

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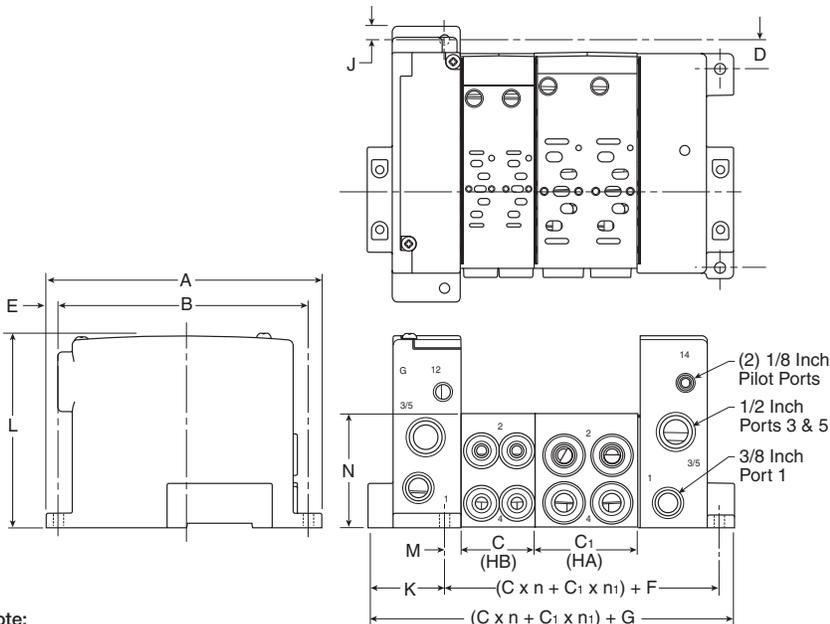
HB & HA Dimensions

A	B	C	C₁	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.

Isys ISO 5599-1 Size H1, PS4011 Subbase

1/8 Inch Ports 12 & 14
For External Pilot

(5) 3/8" Side Ports

1/2 Inch Conduit

Side Ported Subbase

5.5 (.22)
Mtg. Holes (2)

Bottom Ported Subbase

(5) 3/8" Bottom Ports
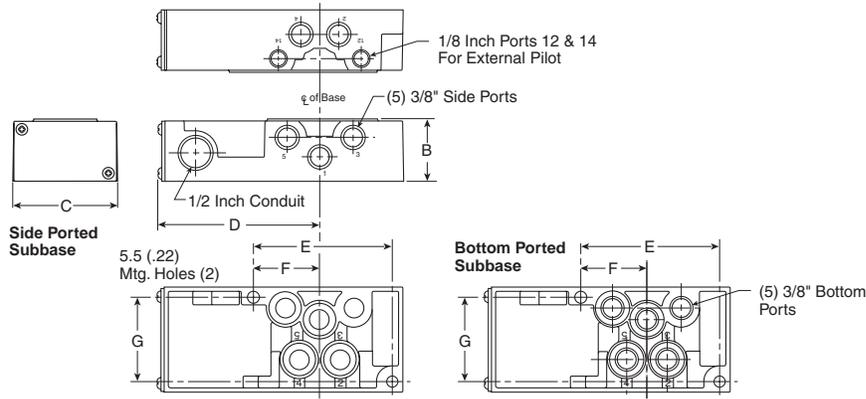
PS4011 Subbase Dimensions

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

1/8 Inch Ports 12 & 14
For External Pilot

1/2 Inch Conduit

(5) 1/2" Side Ports

Side Ported Subbase

Bottom Ported Subbase

(5) 1/2" Bottom Ports

7,1 (.28)
Mtg. Holes (2)

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

1/8 Inch Ports 12 & 14
For External Pilot

1/2 Inch Conduit

(5) 3/4" Side Ports

Side Ported Subbase

Bottom Ported Subbase

9,0 (.35)
Mtg. Holes (2)

(5) 3/4" Bottom Ports
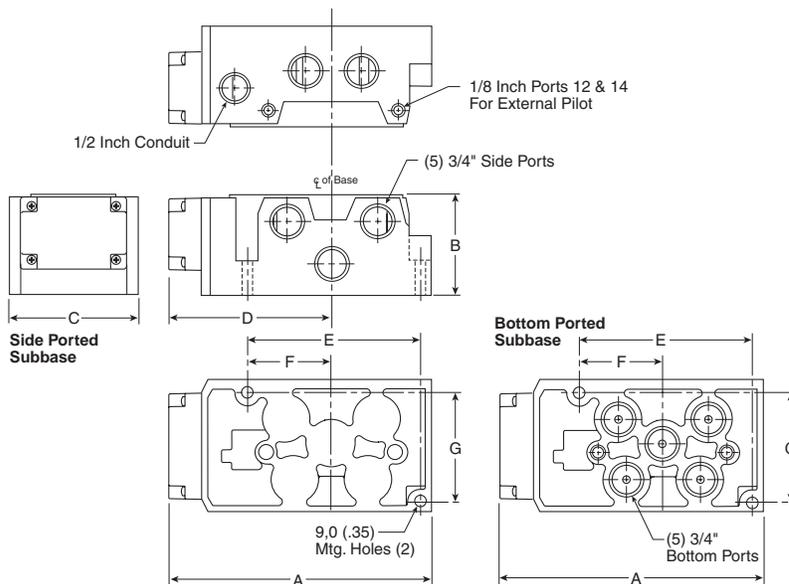
PS4211 Subbase Dimensions

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)

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Isys ISO 5599 Size H1, PS4011 Manifold

(2) 1/4" or 3/8" End Ports

(2) 1/8 Inch Pilot Port

1 Inch Conduit Connection

1/2 Inch Ports 1, 3 & 5

Bottom Ported Manifold

(2) 3/8" Bottom Ports

F + (C x n)
G + (C x n)
n = Number of Stations
Manifold with Optional Collective Wiring System
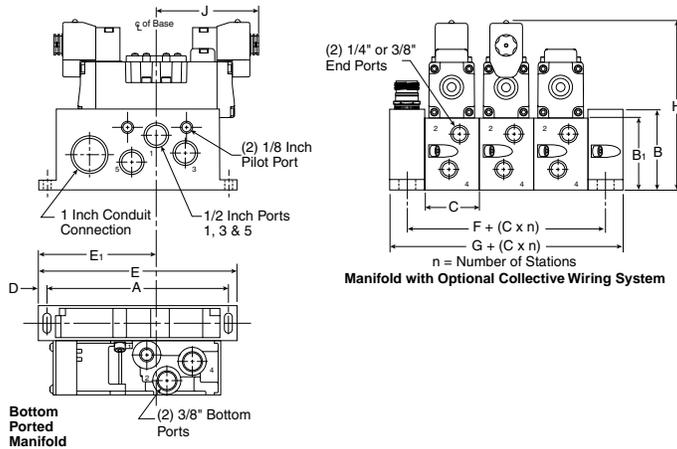
PS4011 Manifold Dimensions

A	B	B₁	C	D
6.50	2.87	2.64	1.96	.33
(165)	(73)	(67)	(50)	(8)

E	E₁	F	G	H
7.15	4.25	1.25	2.50	6.18
(182)	(108)	(32)	(63.5)	(157)

J				
3.66				
(93)				

Inches (mm)

Isys ISO 5599 Size H2, PS4111 Manifold

(2) 3/8" or 1/2" End Ports

1/8 Inch Pilot Ports

1-1/4 Inch Conduit Connection

(3) 3/4 Inch Ports

4 x R .24 R (6)

Bottom Ported Manifold

(3) 1/2" Bottom Ports

F + (C x n)
G + (C x n)
n = Number of Stations
Manifold with Optional Collective Wiring System
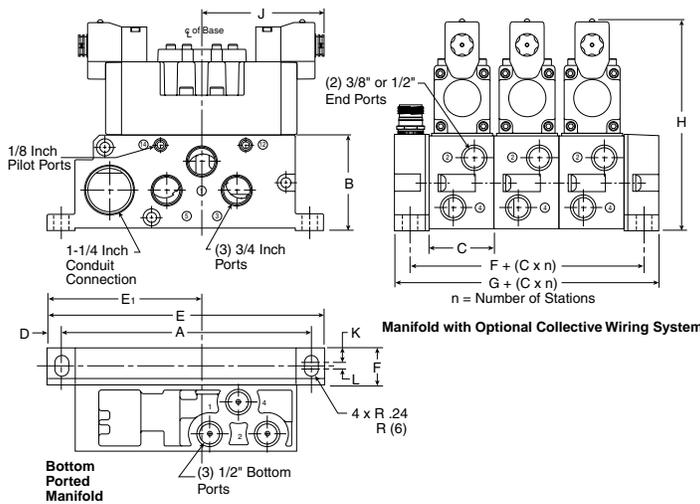
PS4111 Manifold Dimensions

A	B	C	D	E
8.46	3.35	2.20	.47	9.41
(215)	(85)	(56)	(12)	(239)

E₁	F	G	H	J
5.28	1.26	2.60	7.40	4.17
(134)	(32)	(63)	(188)	(106)

K	L			
.65	.24			
(16.5)	(6)			

Inches (mm)

Isys ISO 5599 Size H3, PS4211 Manifold

(2) 1/2" or 3/4" End Ports

1/8 Inch Pilot Ports

1-1/4 Inch Conduit Connection

(3) 1 Inch Ports

4 x R .24 R (6)

Bottom Ported Manifold

(2) 3/4" Bottom Ports

F + (C x n)
G + (C x n)
n = Number of Stations
Manifold with Optional Collective Wiring System
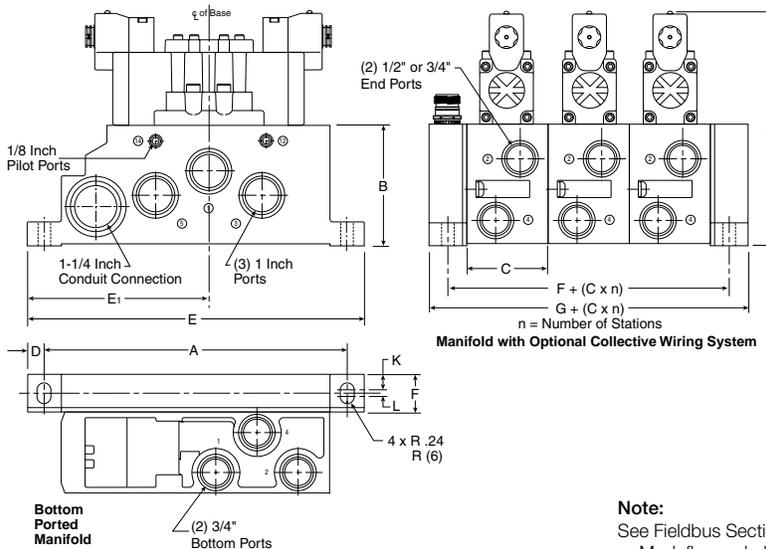
PS4211 Manifold Dimensions

A	B	C	D	E
10.41	4.13	2.80	.59	11.61
(265)	(105)	(71)	(15)	(295)

E₁	F	G	H	
6.26	1.30	2.60	8.19	
(159)	(33)	(63)	(208)	

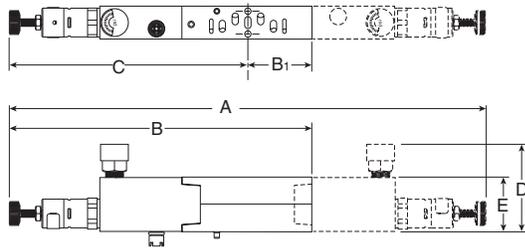| K	L			
.53	.24			
(13.5)	(6)			

Inches (mm)

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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series
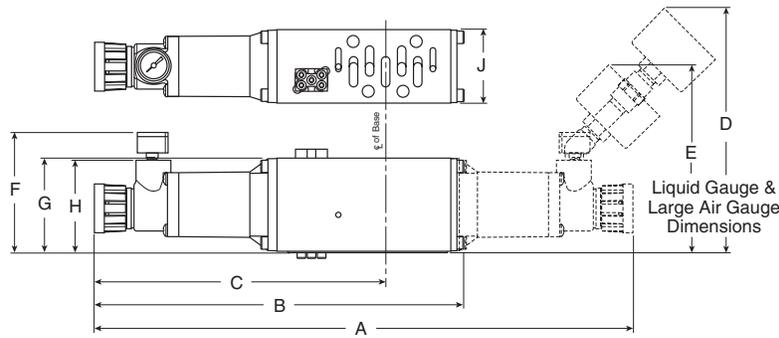
D

Subbase & Manifold Valve Products

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

Liquid Gauge & Large Air Gauge Dimensions

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

Inches (mm)

Isys ISO 5599, Size H2 & H3 Sandwich Regulator

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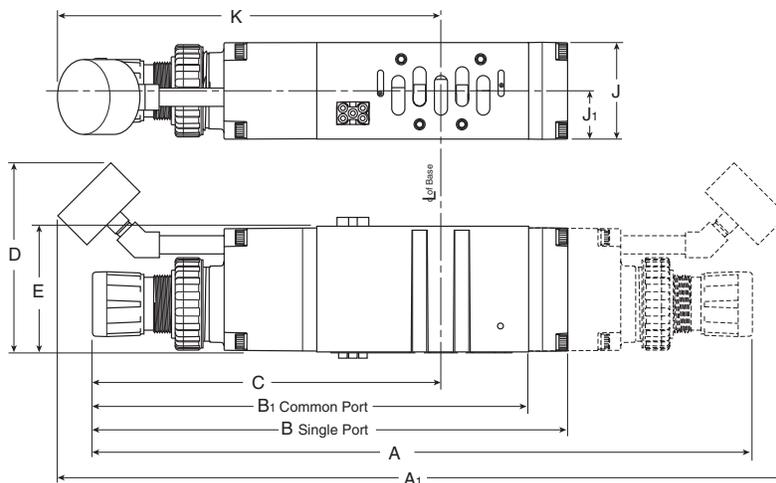
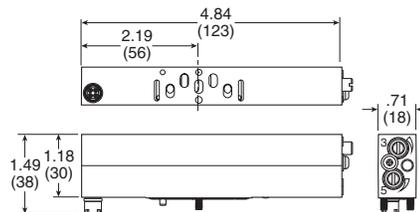| Series	Part number	A	A₁	B	B₁	C	D	E	J	J₁	K
H2	**PS4137**	14.65 (372)	16.18 (411)	10.56 (268)	9.84 (250)	7.71 (196)	4.20 (107)	2.80 (71)	2.15 (55)	1.07 (27)	8.50 (216)
	PS4138										
H3	**PS4237**	15.67 (398)	17.15 (436)	11.53 (293)	10.67 (271)	8.37 (213)	4.20 (107)	2.93 (75)	2.50 (64)	1.25 (32)	9.10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

Inches (mm)

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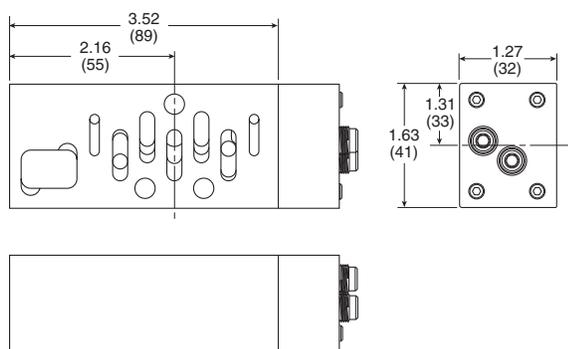
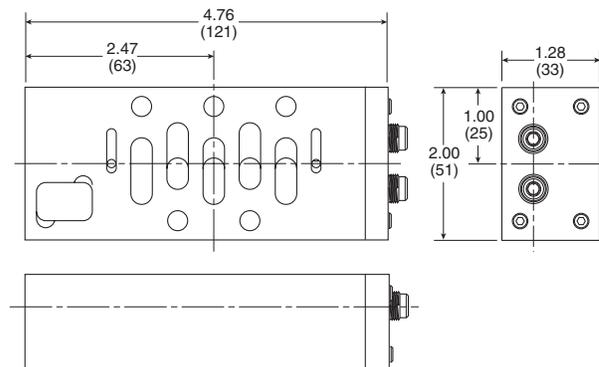**HA Flow Control**
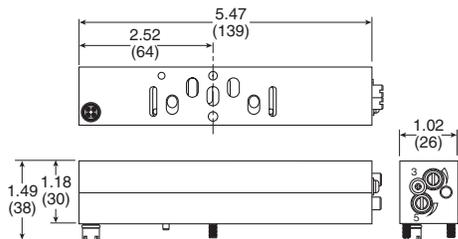
HB Flow Control

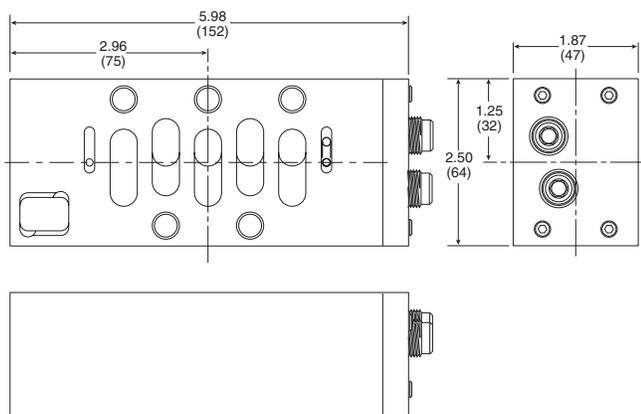## Isys ISO 5599, Size H1, H2 & H3, Flow Control

H1 Flow Control

H2 Flow Control

H3 Flow Control

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

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

* Modulfex 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

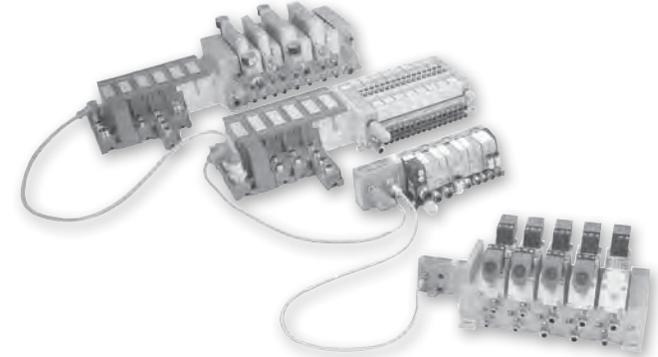|	Turck fieldbus	Isysnet	Moduflex
Solenoid control	Up to 32 solenoids on main valve manifold. Devicenet Subnet Allows an additional 32 solenoids per node 63 nodes maximum. CANopen expansion Allows an additional 64 solenoids per expansion 5 expansions maximum.	Up to 32 solenoids on main valve manifold 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

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US

Valve Products

Parker Pneumatic

Moduflex Fieldbus Systems

The Moduflex Fieldbus System

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

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 Field wireable connector	Profibus DP / InterBus-S / DeviceNet / CANopen	M12 type A female	**P8CS1205AA**
Line termination resistor	Profibus DP	M12 type B	**P8BPA00MB**
	DeviceNet / CANopen	M12 type A	**P8BPA00MA**

| 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**

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

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Valve Products

Parker Pneumatic   **Isysnet Fieldbus Systems**

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
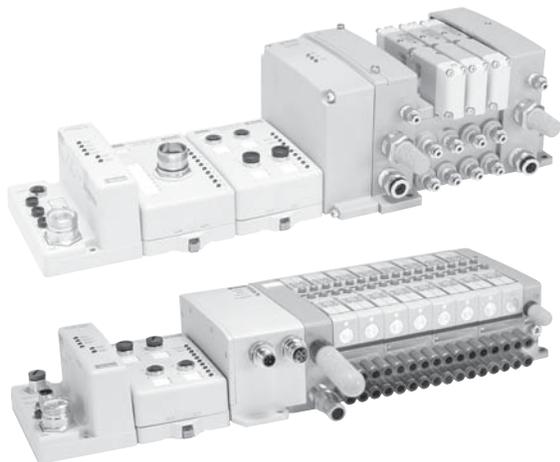
Isysnet Features

- 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

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

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**

PSSN16M12A

PSSN8M8A

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Isysnet Fieldbus Systems

Digital Outputs

I/O modules	Voltage	Part number
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**
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**
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**

PSST16D25A

PSST16M12A

PSST8M12A

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

Analog Inputs

I/O modules	Voltage	Part number
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**

PSSNACM12A

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

Analog Outputs

I/O modules	Voltage	Part number
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**

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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

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

Isys Micro Bus Extender Cable

	Description	Voltage	Part number
	1 Meter Cable*	24VDC	**PSSVEXT1**

* IP67 certified.

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.

Valve Driver with
Bus Extension

Power #1

PSSVEXT1

Valve Driver with
Bus Extension and
24VDC Connector

Power #2

PSSVEXT1

Valve Driver with
24VDC Connector

Power #3

Moduflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus

DX ISOMAX
Series
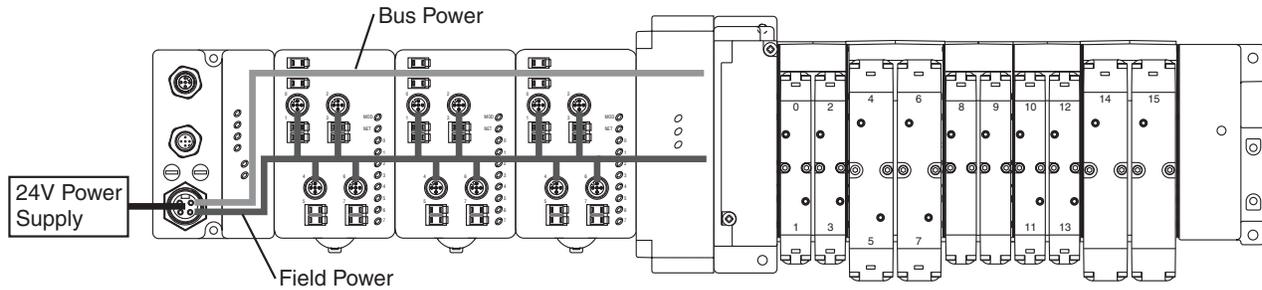
Valvair II
Series

D
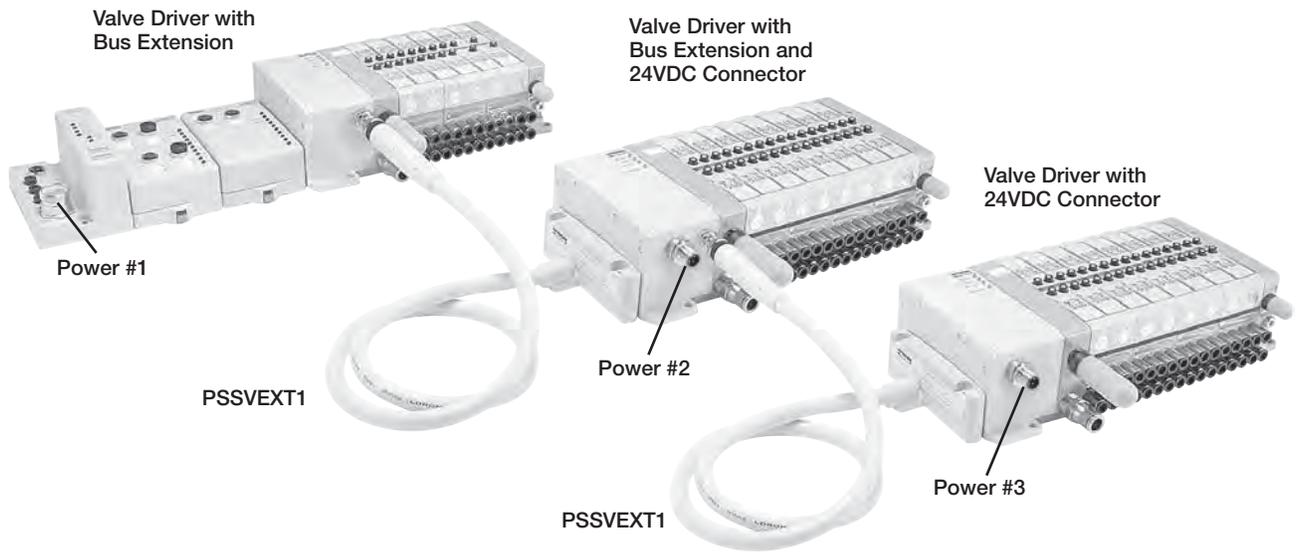
Subbase & Manifold
Valve Products
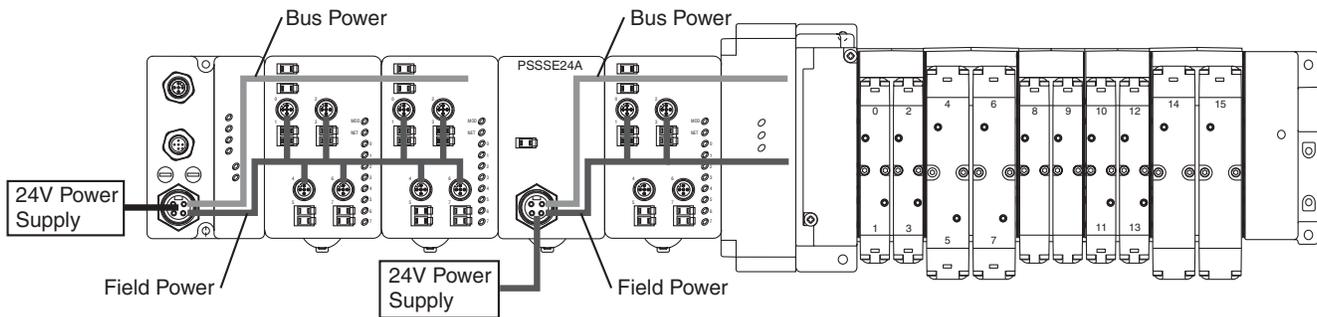
Power Distribution Options for Isys ISO

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.

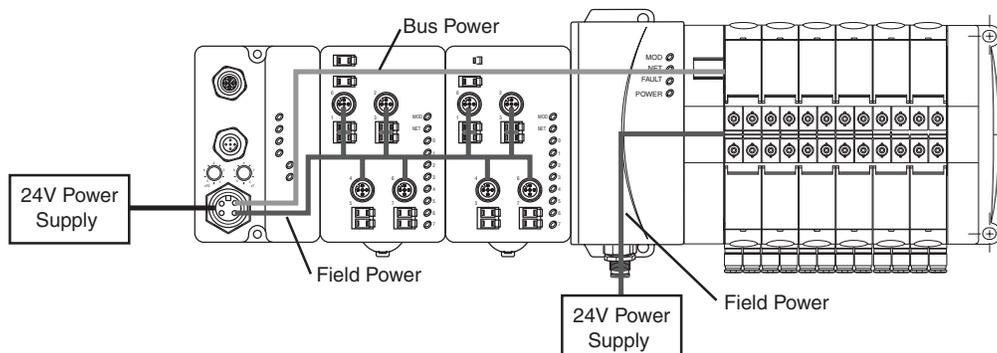### Isysnet System with 24VDC Expansion Power Unit (PSSSE24A)

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.


Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

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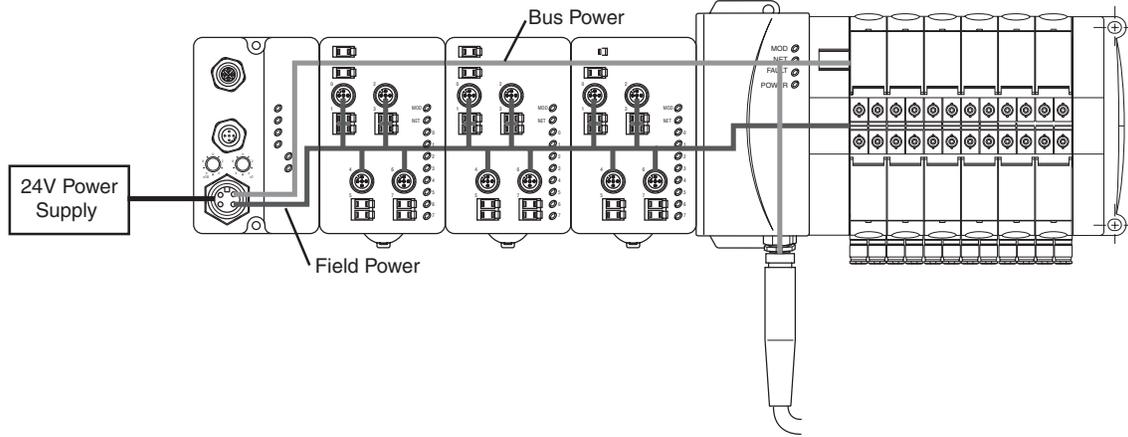
Isysnet Communication Module with 24VDC and Bus Extension Connectors and I/O Modules

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.
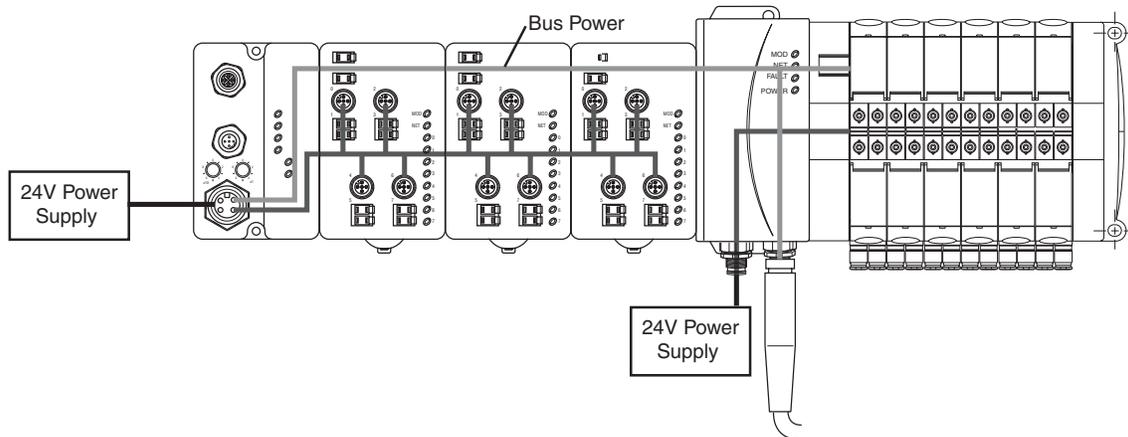
Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

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Valve Products

Turck Fieldbus Systems

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
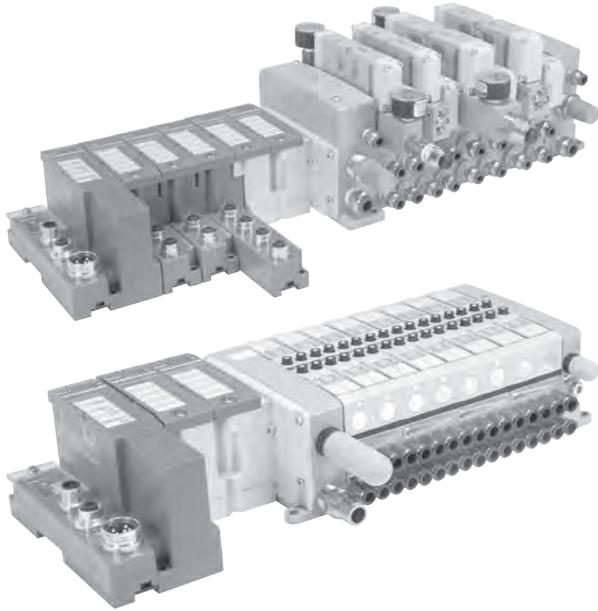
Turck Features

- 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**
Multiproticol 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**

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

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Valve Products
Turck Fieldbus Systems

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

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

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

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

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Turck Fieldbus Systems

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**

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**
	4 x M12, 5 pole, female, A-code	**BL67-B-4M12P**

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**

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**

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

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Valve Products

Turck Fieldbus Systems

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**

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**

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**

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**

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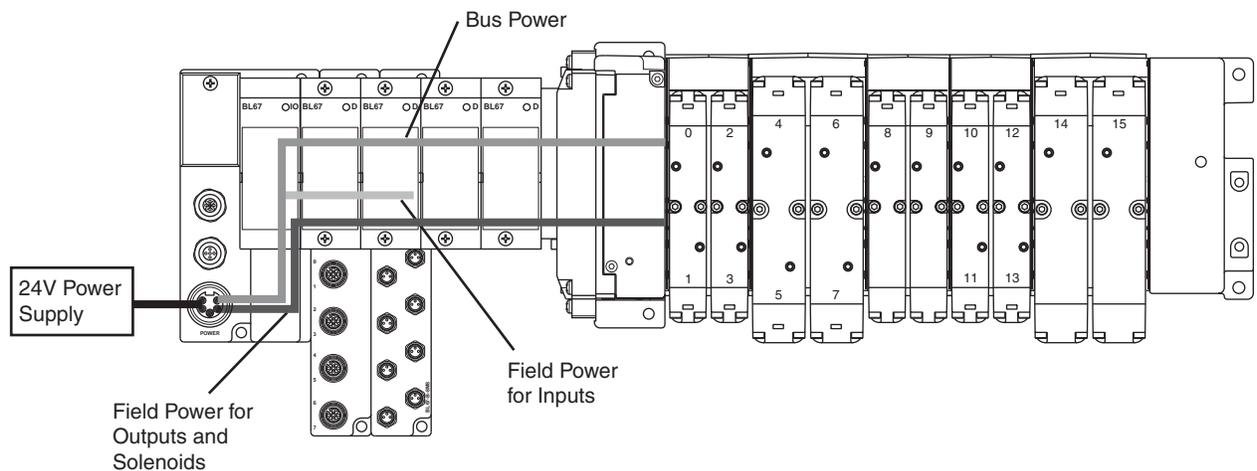## Power Distribution Options for Turck Fieldbus

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.

Bus Power

24V Power Supply and DeviceNet or CANopen

Field Power for Inputs

Field Power for Outputs and Solenoids
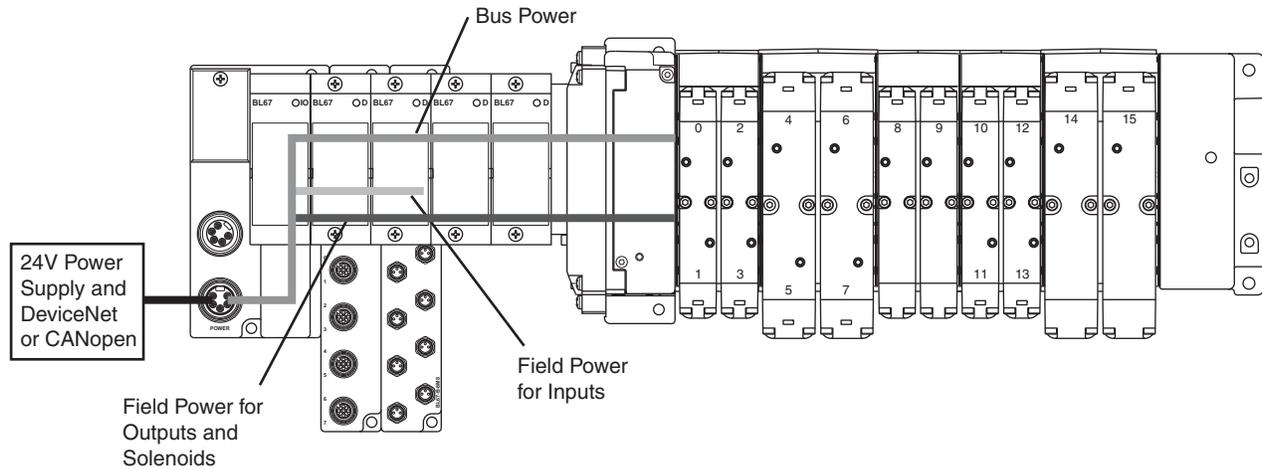
Turck Communication and I/O Modules - Ethernet/IP, Modbus/TCP, Profinet, Profibus, and CANopen

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.

Bus Power

24V Power Supply

Field Power for Inputs

Field Power for Outputs and Solenoids

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

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Power Distribution Options for Turck 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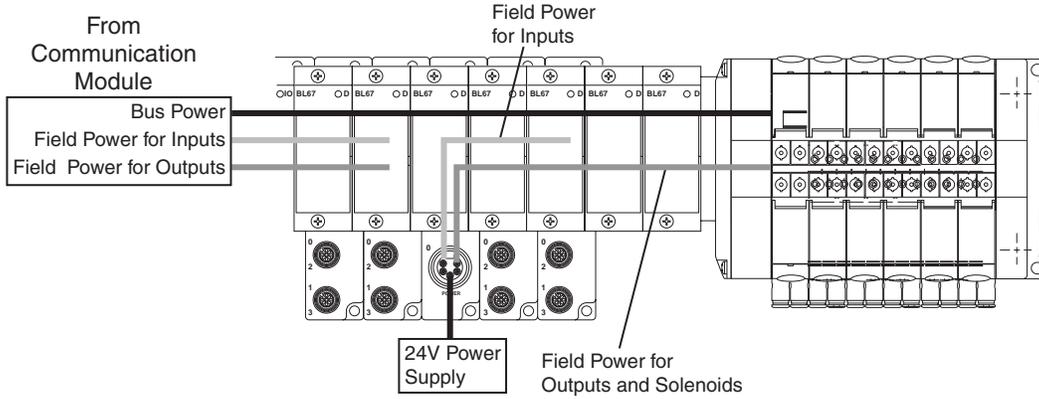 which can be wired to an e-stop circuit to kill all outputs and solenoids to the right of the module. The 1.5 A bus power is uninterrupted, and is still supplied from the communication module.

From
Communication
Module

Field Power
for Inputs

Bus Power
Field Power for Inputs
Field Power for Outputs

24V Power
Supply

Field Power for
Outputs and Solenoids

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.

From
Communication
Module

Field Power
for Inputs

Bus Power
Field Power for Inputs
Field Power for Outputs

24V Power
Supply

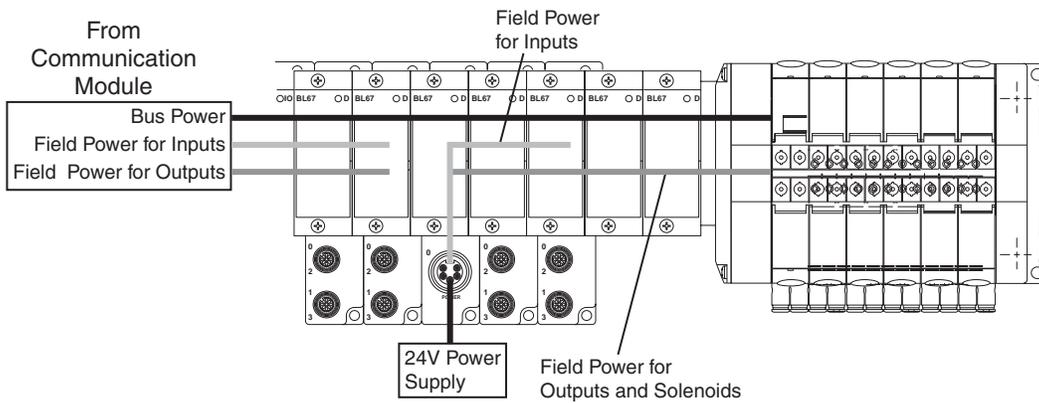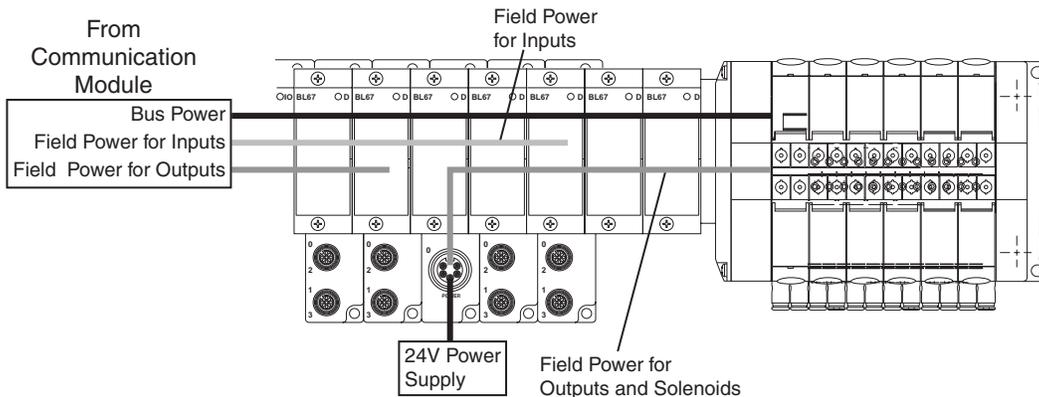Field Power for
Outputs and Solenoids

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.

From
Communication
Module

Field Power
for Inputs

Bus Power
Field Power for Inputs
Field Power for Outputs

24V Power
Supply

Field Power for
Outputs and Solenoids

Moduflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus

DX ISOMAX
Series

Valvair II
Series

D

Subbase & Manifold
Valve Products

Catalog PDN1000-3US   (Revised 01-08-15)

Parker Pneumatic

Valve Products

Fieldbus System Accessories

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 RKSW 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

Moduflex Series
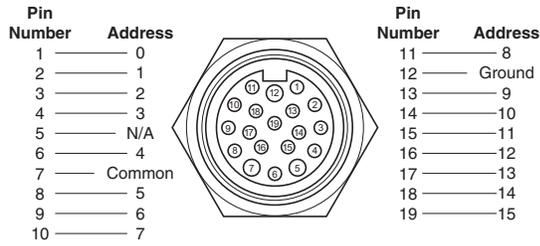
Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

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Parker Pneumatic   **Fieldbus System Accessories**

19-Pin Round Brad Harrison

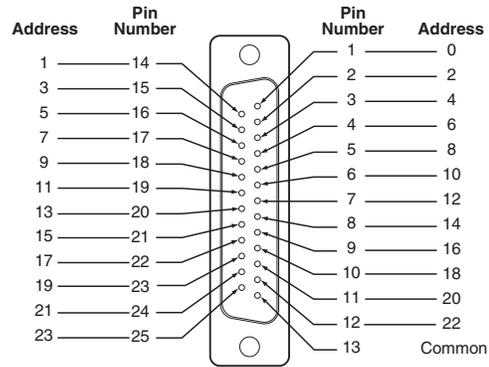| Pin Number	Address		Pin Number	Address
1	0		11	8
2	1		12	Ground
3	2		13	9
4	3		14	10
5	N/A		15	11
6	4		16	12
7	Common		17	13
8	5		18	14
9	6		19	15
10	7			

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.
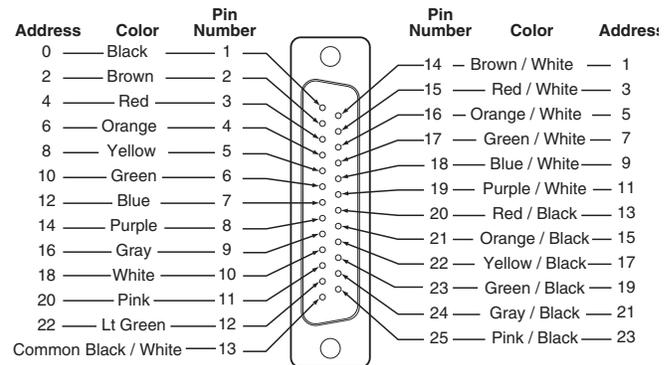
Example: 8 station manifold, 16 solenoids, 120VAC - 16 x .039 amps = .63 total amp rating.

NEMA 4 rated with properly assembled NEMA 4 rated cable.
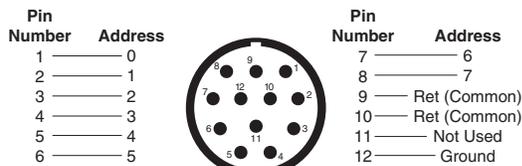
M23, 12-Pin Round Connector (Male)

Pin Number	Address		Pin Number	Address
1	0		7	6
2	1		8	7
3	2		9	Ret (Common)
4	3		10	Ret (Common)
5	4		11	Not Used
6	5		12	Ground

Face View - Male 19-Pin Connector

M23,19-Pin Round Connector (Male)

Pin Number	Address		Pin Number	Address
1	0		10	8
2	1		11	9
3	2		12	Not Used
4	3		13	10
5	4		14	11
6	Common		15	12
7	5		16	13
8	6		17	14
9	7		18	15
			19	Not Used
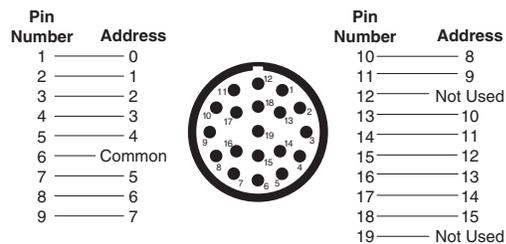
View into End Plate Connector - Male M23, 19-Pin

25-Pin, D-Sub Connector (Male)

Address	Pin Number		Pin Number	Address
1	14		1	0
3	15		2	2
5	16		3	4
7	17		4	6
9	18		5	8
11	19		6	10
13	20		7	12
15	21		8	14
17	22		9	16
19	23		10	18
21	24		11	20
23	25		12	22
			13	Common

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

25-Pin, D-Sub Cable (Female)

Address	Color	Pin Number		Pin Number	Color	Address
0	Black	1		14	Brown / White	1
2	Brown	2		15	Red / White	3
4	Red	3		16	Orange / White	5
6	Orange	4		17	Green / White	7
8	Yellow	5		18	Blue / White	9
10	Green	6		19	Purple / White	11
12	Blue	7		20	Red / Black	13
14	Purple	8		21	Orange / Black	15
16	Gray	9		22	Yellow / Black	17
18	White	10		23	Green / Black	19
20	Pink	11		24	Gray / Black	21
22	Lt Green	12		25	Pink / Black	23
Common	Black / White	13				

D179-A

Catalog PDN1000-3US | Valve Products

Parker Pneumatic

Isysnet Fieldbus System

Isysnet with Isys ISO Valves

Communications Module

Input / Output Modules

Communications Module

Input / Output Modules
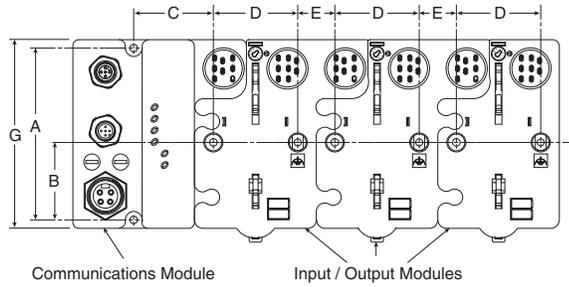
Dimensions

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)

HB - HA Manifold Assembly

$H + H_1 + (W \times n + W_1 \times n_1)$

n = Number of 18mm HB Bases
n1 = Number of 26mm HA Bases
W= Width of 18mm HB Bases
W1 = Width of 26mm HA Bases

Holes for M6 (or 1/4") Screws 4 Places
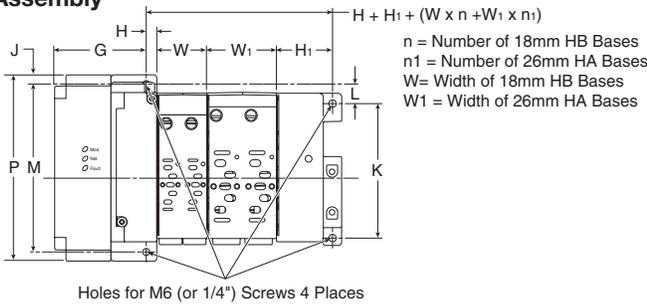
HB - HA Dimensions

G	H	H1	J	K
2.68	.33	1.80	.15	4.32
(68)	(8.4)	(45.8)	(4)	(110)
L	**M**	**P**	**W**	**W1**
.63	5.39	5.98	1.61	2.24
(16)	(137)	(152)	(40.8)	(56.8)

Inches (mm)

H1 Manifold Assembly

$H + H + (W \times n)$

n = Number of H1 Bases
W= Width of H1 Bases

Slots for M6 (or 1/4") Screws 4 Places
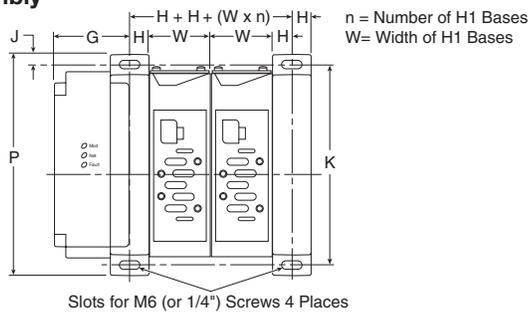
H1 Dimensions

G	H	J	K	P
2.20	.63	.33	6.50	7.17
(56)	(15.9)	(8.5)	(165)	(182)
W				
1.93				
(49)				

Inches (mm)

H2 Dimensions

G	H	J	K	P
2.34	.65	.47	8.46	9.41
(59.5)	(16.5)	(12)	(215)	(239)
W				
2.20				
(56)				

Inches (mm)

H2 - H3 Manifold Assembly
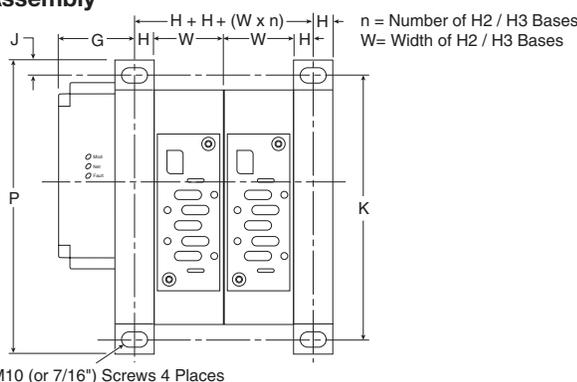
$H + H + (W \times n)$

n = Number of H2 / H3 Bases
W= Width of H2 / H3 Bases

Slots for M10 (or 7/16") Screws 4 Places

H3 Dimensions

G	H	J	K	P
2.34	.65	.59	10.43	11.61
(59.5)	(16.5)	(15)	(265)	(295)
W				
2.80				
(71)				

Inches (mm)

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

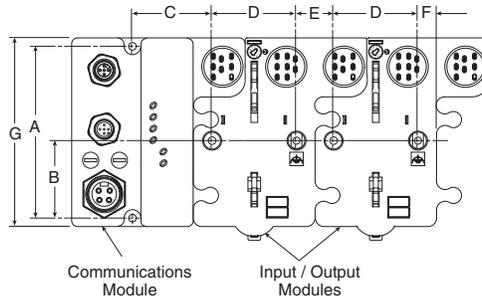Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Turck with Isys ISO Valves
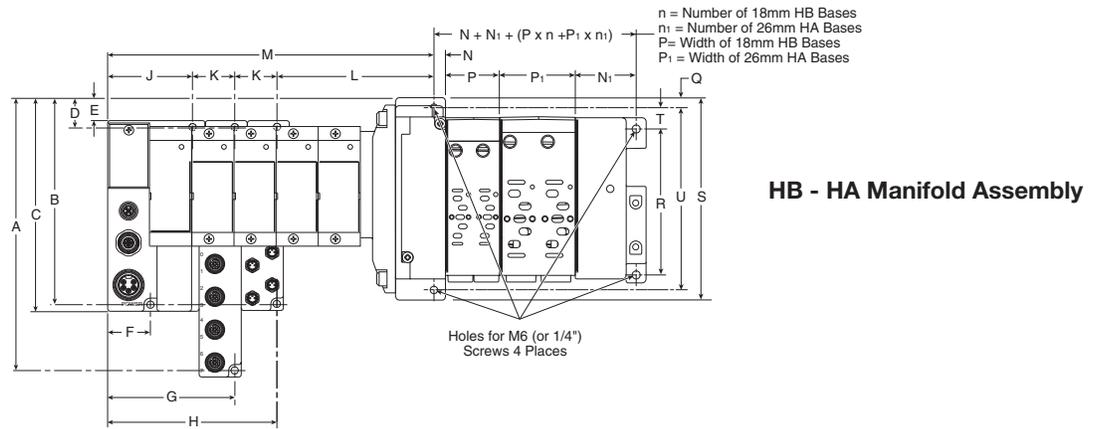
n = Number of 18mm HB Bases
n₁ = Number of 26mm HA Bases
P= Width of 18mm HB Bases
P₁ = Width of 26mm HA Bases

HB - HA Manifold Assembly

Holes for M6 (or 1/4")
Screws 4 Places

n = Number of H1 Bases
P = Width of H1 Bases

H1 Manifold Assembly

Slots for M6 (or 1/4")
Screws 4 Places

n = Number of H2 / H3 Bases
P= Width of H2 / H3 Bases

H2 - H3 Manifold Assembly

Slots for M10 (or 7/16")
Screws 4 Places

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

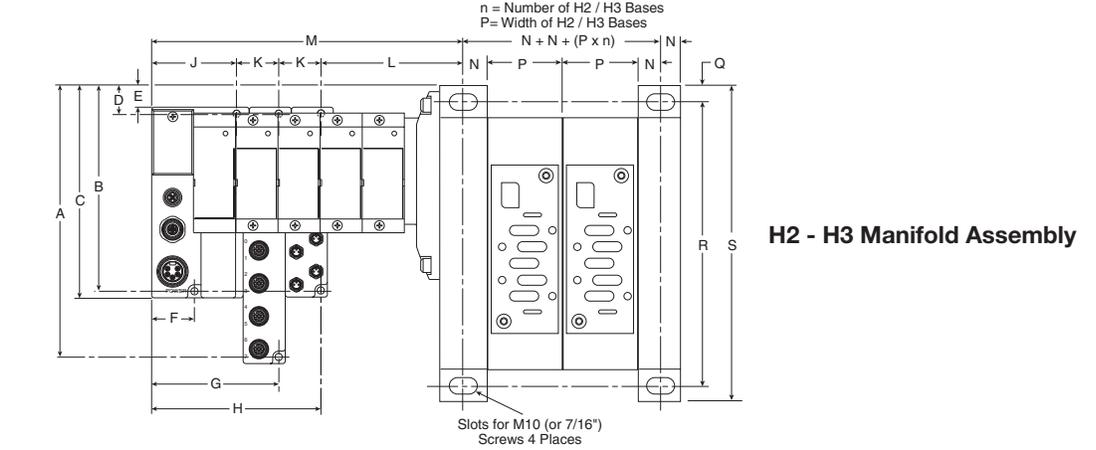Subbase & Manifold Valve Products
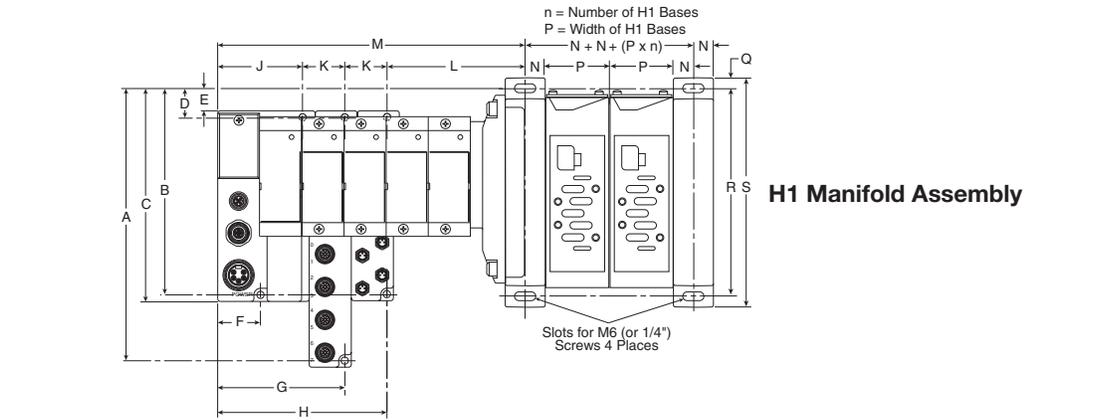
Dimensions

	A	B	C	D	E	F	G	H	J	K	L	M	N	N₁	P	P₁	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+n₂xK, where n₂ = Number of Turck input / output modules
Inches (mm)

Catalog PDN1000-3US | Valve Products
Parker Pneumatic | **Moduflex Fieldbus System**

Moduflex with Isys ISO Valves

n = Number of 18mm HB Bases
n₁ = Number of 26mm HA Bases
P= Width of 18mm HB Bases
P₁ = Width of 26mm HA Bases

HB - HA Manifold Assembly

0.17 (4.3) Dia. Thru

Holes for M6 (or 1/4")
Screws 4 Places

n = Number of H1 Bases
P= Width of H1 Bases

H1 Manifold Assembly

0.17 (4.3) Dia. Thru

Slots for M6 (or 1/4")
Screws 4 Places

n = Number of H2 / H3 Bases
P = Width of H2 / H3 Bases

H2 - H3 Manifold Assembly

0.17 (4.3) Dia. Thru

Slots for M10 (or 7/16")
Screws 4 Places
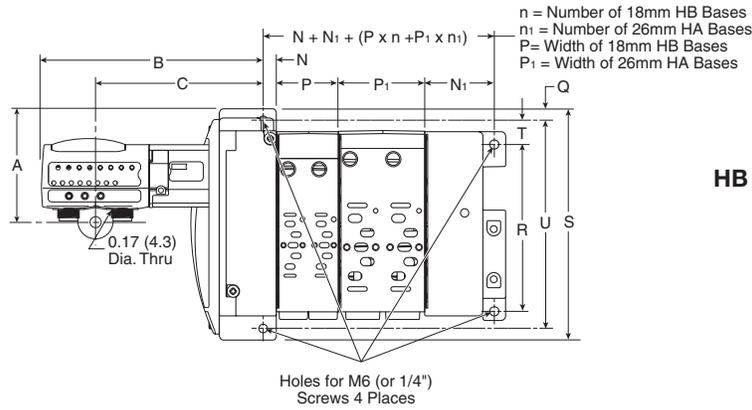
Dimensions

	A	B	C	N	N₁	P	P₁	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)

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products
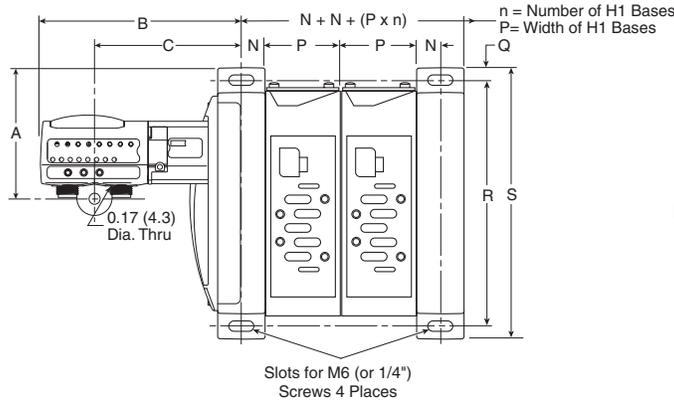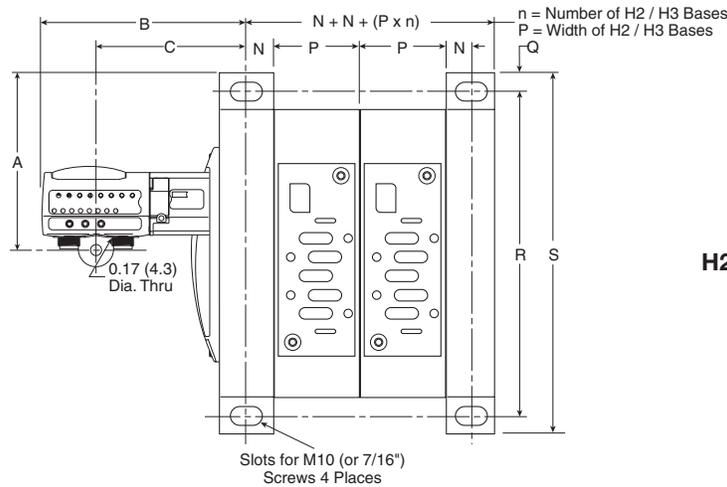
Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Isysnet Fieldbus System

Isysnet with Isys Micro Valves

Communications Module

Input / Output Modules

Communications Module

Input / Output Modules

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)

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

0.18 (4.5) Dia. Thru 2 Places

0.18 (4.5) Dia. Thru 2 Places

0.25 (6.4) Dia. Thru 4 Places

3/8 Inch Port 3 & 5

3/8 Inch Port 3 & 5

1/8 Inch Pilot Exhaust Port Ex

M7 Pilot Pressure Port Px

3/8 Inch Port 1

(8) M7 Ports 2 & 4 per Manifold

n = Number of Manifolds
m = Number of Modules

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)

D183

Turck with Isys Micro Valves
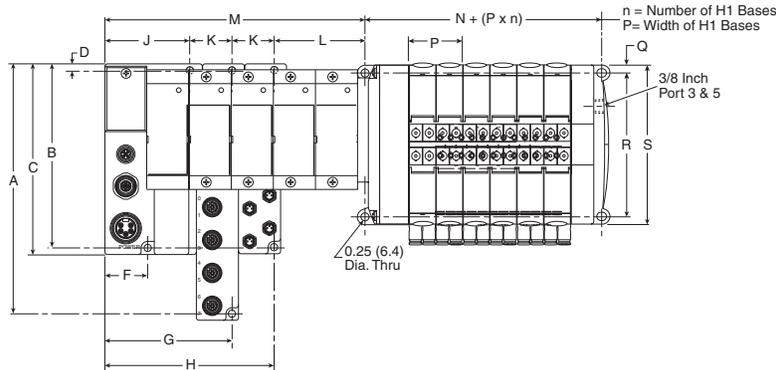
Dimensions

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

Note 1: M =J+L+n₂xK, where n₂ = Number of Turck input / output modules

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

Inches (mm)

Moduflex Adapter, Side Ported

n = Number of Manifolds
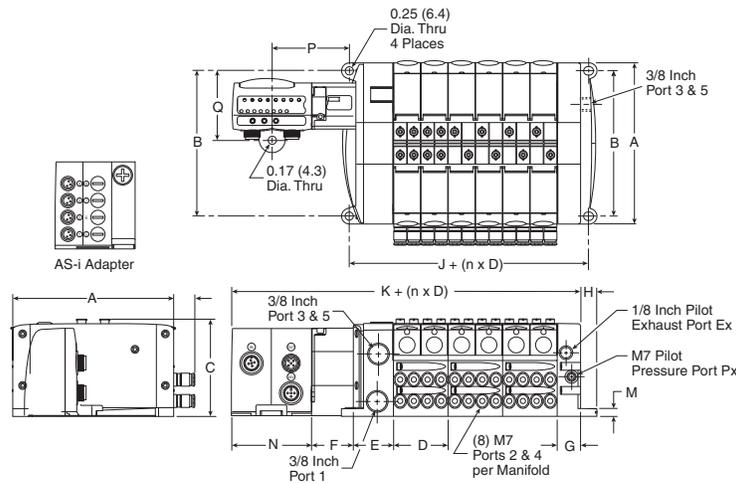
Dimensions

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

Inches (mm)

Side tabs (left margin, top to bottom):
Moduflex Series · Isys Micro Series · Isys ISO Series · Fieldbus · DX ISOMAX Series · Valvair II Series · **D** Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
DX ISOMAX Series

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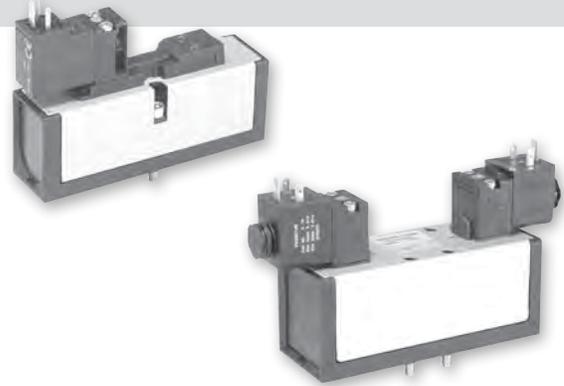– Low friction switching: minimum wear of the valve member / seal assembly

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)

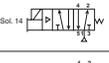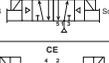### Material specifications

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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

☐ Most popular.

DX02 ISO Valves

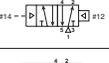|	Symbol	Type	Cv	Operator	Pilot	Override	24 VDC	120 VAC
	Sol. 14	4-way, 2-position, spring return	0.55	Single solenoid	Internal	Non-locking	DX02-621-951M	DX02-621-951J
	Sol. 14	4-way, 2-position, air return	0.55	Single solenoid	Internal	Non-locking	DX02-651-951M	DX02-651-951J
	Sol. 14 Sol. 12	4-way, 2-position	0.55	Double solenoid	Internal	Non-locking	DX02-606-951M	DX02-606-951J
	CE #14 #12	4-way, 3-position, center exhaust	0.4	Double solenoid	Internal	Non-locking	DX02-611-951M	DX02-611-951J
	APB #14 #12	4-way, 3-position, all ports blocked	0.4	Double solenoid	Internal	Non-locking	DX02-616-951M	DX02-616-951J
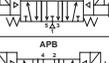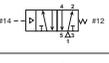
	Symbol	Type	Cv	Operator	Pilot	Part number
	#14 W #12	4-way, 2-position, spring return	0.55	Single remote pilot	Remote	DX02-421-60
	#14 #12	4-way, 2-position, air return	0.55	Single remote pilot	Remote	DX02-451-60
	#14 #12	4-way, 2-position	0.55	Double remote pilot	Remote	DX02-406-60
	CE #14 W #12	4-way, 3-position, center exhaust	0.4	Double remote pilot	Remote	DX02-411-60
	APB #14 W #12	4-way, 3-position, all ports blocked	0.4	Double remote pilot	Remote	DX02-416-60
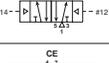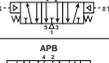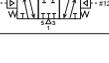
DX02 Series Subbase & Manifolds

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
	PEJ02-02-80	PEJ02-02-70

Add-A-Fold Assembly Model Number

AA	02U	0	04

Valve series

Right & left end plate DX02	02U*

* For use with PJLP02 Manifolds.

Thread type

NPT	0
BSPP "G"	1

Number of stations*

02
04
•
24
•
32

* 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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

DX ISOMAX 15407-1 Ceramic, DX01

DX01 ISO Valves

	Symbol	Type	Cv	Operator	Pilot	Override	24 VDC	120 VAC
	Sol. 14	4-way, 2-position, spring return	0.75	Single solenoid	Internal	Non-locking	**DX01-621-951M**	**DX01-621-951J**
	Sol. 14	4-way, 2-position, air return	0.75	Single solenoid	Internal	Non-locking	**DX01-651-951M**	**DX01-651-951J**
	Sol. 14 — Sol. 12	4-way, 2-position	0.75	Double solenoid	Internal	Non-locking	**DX01-606-951M**	**DX01-606-951J**
	CE #14 — #12	4-way, 3-position, center exhaust	0.5	Double solenoid	Internal	Non-locking	**DX01-611-951M**	**DX01-611-951J**
	APB #14 — #12	4-way, 3-position, all ports blocked	0.5	Double solenoid	Internal	Non-locking	**DX01-616-951M**	**DX01-616-951J**
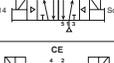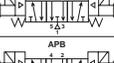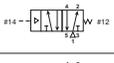
	Symbol	Type	Cv	Operator	Pilot	Part number
	#14 -- #12	4-way, 2-position, spring return	0.75	Single remote pilot	Remote	**DX01-421-60**
	#14 -- #12	4-way, 2-position, air return	0.75	Single remote pilot	Remote	**DX01-451-60**
	#14 -- #12	4-way, 2-position	0.75	Double remote pilot	Remote	**DX01-406-60**
	CE #14 -- #12	4-way, 3-position, center exhaust	0.5	Double remote pilot	Remote	**DX01-411-60**
	APB #14 -- #12	4-way, 3-position, all ports blocked	0.5	Double remote pilot	Remote	**DX01-416-60**
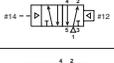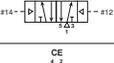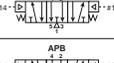
DX01 Series Subbase & Manifolds

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
	PEJ01-03-80	**PEJ01-03-70**

Add-A-Fold Assembly Model Number

AA	**01U**	**0**	**04**

Valve series

Right & left end plate DX01	01U*

* For use with PJLP01 or PJL01 Manifolds.

Thread type

NPT	**0**
BSPP "G"	1

Number of stations*

| |
|---|
| 02 |
| 04 |
| • |
| 24 |
| • |
| 32 |

* Must be ordered in multiples of (2)

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**

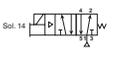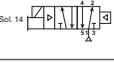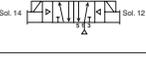Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

DX1 ISO Valves

		Symbol	Type	Cv	Operator	Pilot	Override	24 VDC	120 VAC
			4-way, 2-position, spring return	1.15	Single solenoid	Internal	Non-locking	**DX1-621-BL49**	**DX1-621-BL53**
							Locking	**DX1-621-CL49**	**DX1-621-CL53**
			4-way, 2-position, air return	1.15	Single solenoid	Internal	Non-locking	**DX1-651-BL49**	**DX1-651-BL53**
							Locking	**DX1-651-CL49**	**DX1-651-CL53**
			4-way, 2-position	1.15	Double solenoid	Internal	Non-locking	**DX1-606-BL49**	**DX1-606-BL53**
							Locking	**DX1-606-CL49**	**DX1-606-CL53**
			4-way, 3-position, center exhaust	0.75	Double solenoid	Internal	Non-locking	**DX1-611-BL49**	**DX1-611-BL53**
							Locking	**DX1-611-CL49**	**DX1-611-CL53**
			4-way, 3-position, all ports blocked	0.75	Double solenoid	Internal	Non-locking	**DX1-616-BL49**	**DX1-616-BL53**
							Locking	**DX1-616-CL49**	**DX1-616-CL53**
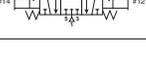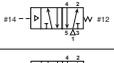
	Symbol	Type	Cv	Operator	Pilot	Part number
		4-way, 2-position, spring return	1.15	Single remote pilot	Remote	**DX1-421-60**
		4-way, 2-position, air return	1.15	Single remote pilot	Remote	**DX1-451-60**
		4-way, 2-position	1.15	Double remote pilot	Remote	**DX1-406-60**
		4-way, 3-position, center exhaust	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**
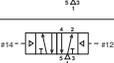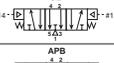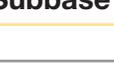
DX1 Series Subbase & Manifolds

Single subbase	Description		3/8" NPT	3/8" BSPP
	Side ported base		**PS4011150CP**	**PS4011160CP**

Manifold bases			3/8" NPT	3/8" BSPP
	End ported bases		**PS4011550CP**	**PS4011560CP**
	Bottom / End ported bases		**PS4011650CP**	**PS4011660CP**

End plate kits			NPT port	BSPP port
	DX1 non-collective wiring end plates		**PS4031010CP**	**PS4031011CP**

5599-1, DX1 Accessories

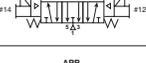| Accessories	Description		Part number
Sandwich regulator	Common pressure	5-125 PSIG w/ gauge	**PS4037166CP**
	Independent pressure	5-125 PSIG w/ gauge	**PS4037266CP**
Remote pilot access plate kit	1/8" NPT		**PS401500CP**
	1/8" BSPP		**PS401501CP**
Blanking plate kit			**PS4034CP**
Sandwich flow control			**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**

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
DX ISOMAX 15407-1 Ceramic, DX1 & DX2

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

AA H1 S 0 03 —

Valve series
DX1, ISO Size 1 — H1

End plate type
Standard non-collective wiring — S

Port type
NPT — 0
BSPP "G" — 1

Number of stations*
01
•
•
•
24

Transition plate
Blank — No transition plate
C — DX1 to DX2
D — DX1 to DX3

#14 End
#12 End

Station 1 Station 2

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
					Locking	DX2-621-CL49	DX2-621-CL53
	4-way, 2-position, air return	2.5	Single solenoid	Internal	Non-locking	DX2-651-BL49	DX2-651-BL53
					Locking	DX2-651-CL49	DX2-651-CL53
	4-way, 2-position	2.5	Double solenoid	Internal	Non-locking	DX2-606-BL49	DX2-606-BL53
					Locking	DX2-606-CL49	DX2-606-CL53
	4-way, 3-position, center exhaust	2.4	Double solenoid	Internal	Non-locking	DX2-611-BL49	DX2-611-BL53
					Locking	DX2-611-CL49	DX2-611-CL53
	4-way, 3-position, all ports blocked	2.4	Double solenoid	Internal	Non-locking	DX2-616-BL49	DX2-616-BL53
					Locking	DX2-616-CL49	DX2-616-CL53

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

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

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

DX2 Series Subbase & Manifolds

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

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

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

5599-1, DX2 Accessories

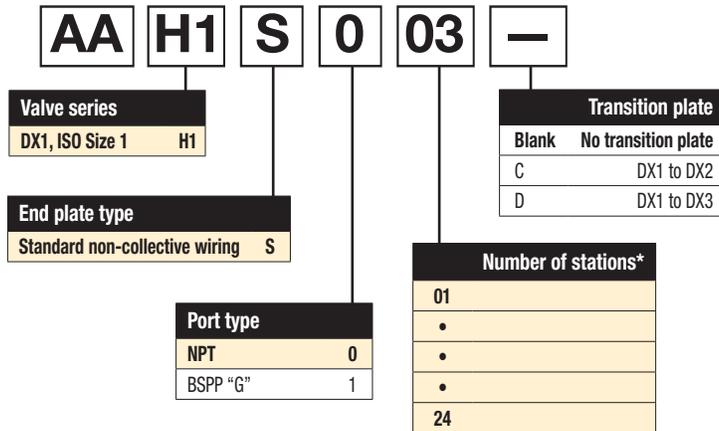| Accessories	Description		Part number
Sandwich regulator	Common pressure	5-125 PSIG w/ gauge	**PS4137166CP**
	Independent pressure	5-125 PSIG w/ gauge	**PS4137266CP**
Remote pilot access plate kit	1/8" NPT		**PS411500CP**
	1/8" BSPP		**PS411501CP**
Blanking plate kit			**PS4134CP**
Sandwich flow control			**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

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	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

AA **H2** **S** **0** **03** **—**

Valve series

DX2, ISO Size 2	H2

End plate type

Standard non-collective wiring	S

Port type

NPT	0
BSPP "G"	1

Number of stations

01
•
•
•
21

Transition plate

Blank	No transition plate
C	DX1 to DX2
D	DX1 to DX3

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

DX ISOMAX 15407-1 Ceramic, DX3

DX3 ISO Valves
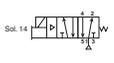
	Symbol	Type	Cv	Operator	Pilot	Override		24 VDC	120 VAC
	Sol. 14	4-way, 2-position, spring return	4.15	Single solenoid	Internal	Non-locking		DX3-621-BL49	DX3-621-BL53
						Locking		DX3-621-CL49	DX3-621-CL53
	Sol. 14	4-way, 2-position, air return	4.15	Single solenoid	Internal	Non-locking		DX3-651-BL49	DX3-651-BL53
						Locking		DX3-651-CL49	DX3-651-CL53
	Sol. 14 ... Sol. 12	4-way, 2-position	4.15	Double solenoid	Internal	Non-locking		DX3-606-BL49	DX3-606-BL53
						Locking		DX3-606-CL49	DX3-606-CL53
	CE #14 ... #12	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
	APB #14 ... #12	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
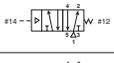
	Symbol	Type	Cv	Operator	Pilot	Part number
	#14 ... #12	4-way, 2-position, spring return	4.15	Single remote pilot	Remote	DX3-421-60
	#14 ... #12	4-way, 2-position, air return	4.15	Single remote pilot	Remote	DX3-451-60
	#14 ... #12	4-way, 2-position	4.15	Double remote pilot	Remote	DX3-406-60
	CE #14 ... #12	4-way, 3-position, center exhaust	4.0	Double remote pilot	Remote	DX3-411-60
	APB #14 ... #12	4-way, 3-position, all ports blocked	4.0	Double remote pilot	Remote	DX3-416-60

DX3 Series Subbase & Manifolds

Single subbase	Description	3/4" NPT	3/4" BSPP
	Side ported base	PS4211170CP	PS4211180CP

Manifold bases		3/4" NPT	3/4" BSPP
	Bottom / End ported bases	PS4211690CP	PS4211600CP
	Note: Manifolds include 2 pipe plugs		

End plate kits		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

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US

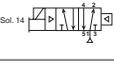Valve Products

Parker Pneumatic

DX ISOMAX 15407-1 Ceramic, DX3

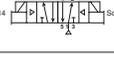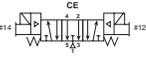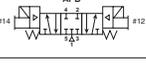### How To Order Add-A-Fold Assemblies

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.)
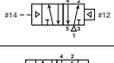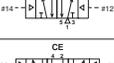
Example: Application requires a 3-station manifold.

Qty.	Part No.	
1	AAH3S003	
1	DX3-621-BL49	Valve Station 1
1	PS4111590CP	Base Station 1
1	DX3-616-BL49	Valve Station 2
1	PS4111590CP	Base Station 2
1	DX3-611-BL49	Valve Station 3
1	PS4111590CP	Base Station 3

AA H3 S 0 03 —

Valve series

DX3, ISO Size 3	H3

End plate type

Standard non-collective wiring	S

Port type

NPT	0
BSPP "G"	1

Number of stations

01
•
•
•
21

Transition plate

Blank	No transition plate
C	DX1 to DX2
D	DX1 to DX3

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

DX ISOMAX Kits & Accessories
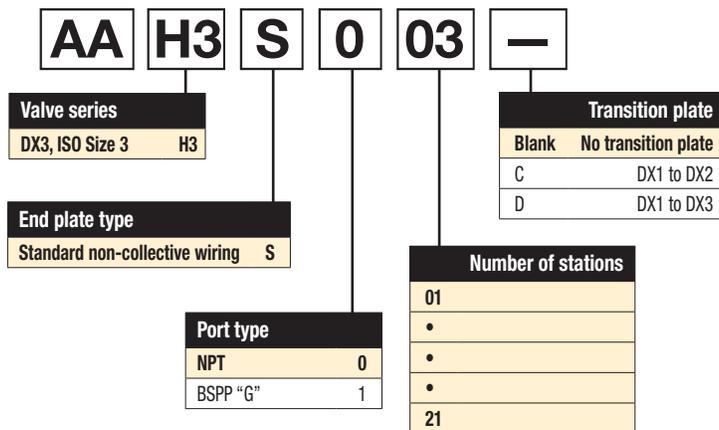
15mm 3-Pin DIN 43650C Replacement Solenoid Kits
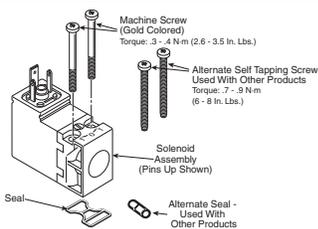
	Voltage	Non-locking	Locking
	24VDC	**PS2982B49P**	**PS2982C49P**
	110/50, 120/60	**PS2982B53P**	**PS2982C53P**

Machine Screw (Gold Colored) Torque: .3 - .4 N·m (2.6 - 3.5 In. Lbs.)

Alternate Self Tapping Screw Used With Other Products Torque: .7 - .9 N·m (6 - 8 In. Lbs.)

Solenoid Assembly (Pins Up Shown)

Seal

Alternate Seal - Used With Other Products

15mm 3-Pin DIN 43650C Connectors
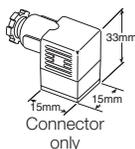
Description	Connector with 6' (2m) Cord	Connector
No circuit board	**PS2932JBP**	**PS2932BP**
Light – 24DC	**PS2946J79BP***	**PS294679BP**
Light – 110/120VAC	**PS2946J83BP***	**PS294683BP**

15mm
22mm
15mm
33mm
15mm
15mm

Connector with cord

Connector only

* 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

Pilot Operator - CNOMO

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

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.

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

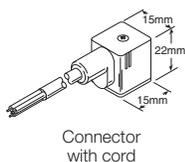Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

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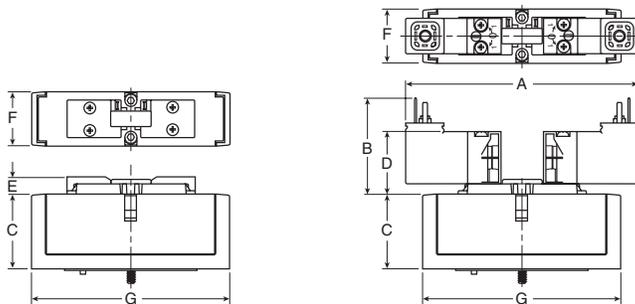
Series	A	B	C	D	E	F	G
DX02	4.06 (103)	1.61 (41)	1.41 (36)	1.06 (27)	.31 (8)	.71 (18)	3.15 (80)
DX01	4.06 (103)	1.61 (41)	1.41 (36)	1.06 (27)	.31 (8)	1.02 (26)	3.94 (100)

Inches (mm)

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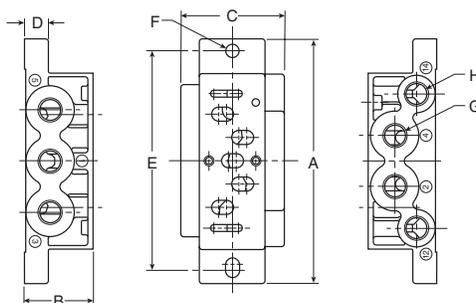
Series	Part number	A	B	C	D	E	F	G	H
DX02	PL02	3.15 (80)	.87 (22)	1.06 (27)	.31 (8)	2.76 (70)	.216 Dia. (Ø 5.5)	1/8	M5
DX01	PL01	3.94 (100)	1.10 (28)	1.65 (42)	.39 (10)	3.54 (90)	.216 Dia. (Ø 5.5)	1/4	1/8

Inches (mm)

DX01 & DX02 2-Station Manifold Base Dimensions
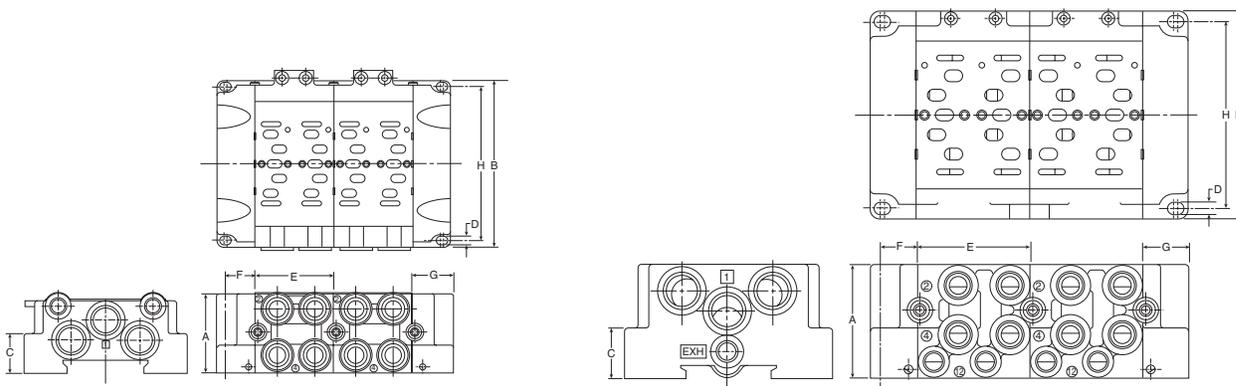
Series	Part number	A	B	C	D	E	F	G	H
DX02	PJLP02 / PEJ02	1.52 (38.5)	3.15 (80)	.47 (12)	.165 Dia. (Ø 4.2)	1.50 (38)	.55 (14)	.71 (18)	2.83 (72)
DX01	PJL01 / PJLP01 / PEJ01	2.17 (55)	3.94 (100)	.94 (24)	.216 Dia. (Ø 5.5)	2.13 (54)	.67 (17)	.87 (22)	3.54 (90)

Inches (mm)

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

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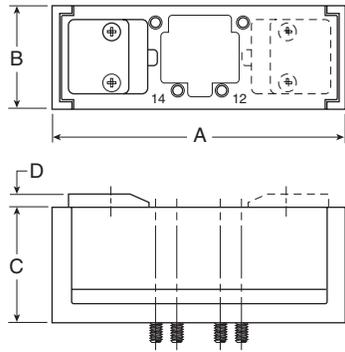
Series	A	B	C	D
DX1	4.72 (120)	1.65 (42)	1.85 (47)	.20 (5)
DX2	5.51 (140)	2.13 (54)	2.30 (58.5)	.20 (5)
DX3	6.69 (170)	2.68 (68)	2.80 (71)	.20 (5)

Inches (mm)

DX1, DX2 & DX3 Solenoid Operated Valve Dimensions
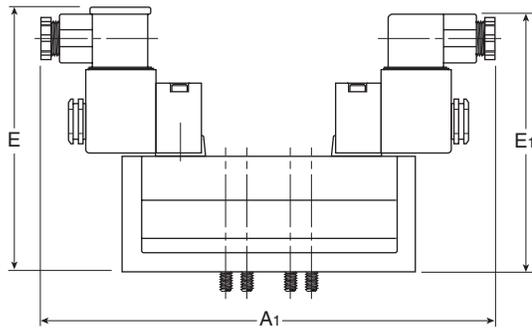
Series	A_1	E	E_1	E_2
DX1	7.97 (202.5)	4.43 (112.5)	4.69 (119)	4.53 (115)
DX2	8.58 (218)	4.86 (123.5)	5.12 (130)	4.98 (126.5)
DX3	9.27 (235.5)	5.35 (136)	5.61 (142.5)	5.47 (139)

Inches (mm)

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

DX1 Subbase Dimensions

1/8 Inch Ports 12 & 14
For External Pilot

(5) 3/8" Side Ports

1/2 Inch Conduit

**Side Ported
Subbase**

5,5 (.22)
Mtg. Holes (2)

**Bottom Ported
Subbase**

(5) 3/8" Bottom
Ports
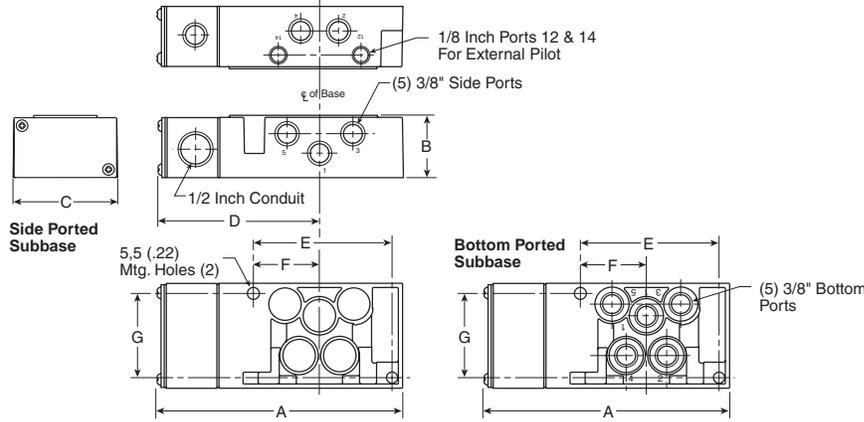
PS4011 Subbase

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)

DX2 Subbase Dimensions

1/8 Inch Ports 12 & 14
For External Pilot

1/2 Inch Conduit

(5) 1/2" Side Ports

**Side Ported
Subbase**

**Bottom Ported
Subbase**

(5) 1/2" Bottom
Ports

7,1 (.28)
Mtg. Holes (2)

PS4111 Subbase

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)

DX3 Subbase Dimensions

1/8 Inch Ports 12 & 14
For External Pilot

1/2 Inch Conduit

(5) 3/4" Side Ports

**Side Ported
Subbase**

**Bottom Ported
Subbase**

9,0 (.35)
Mtg. Holes (2)

(5) 3/4"
Bottom Ports
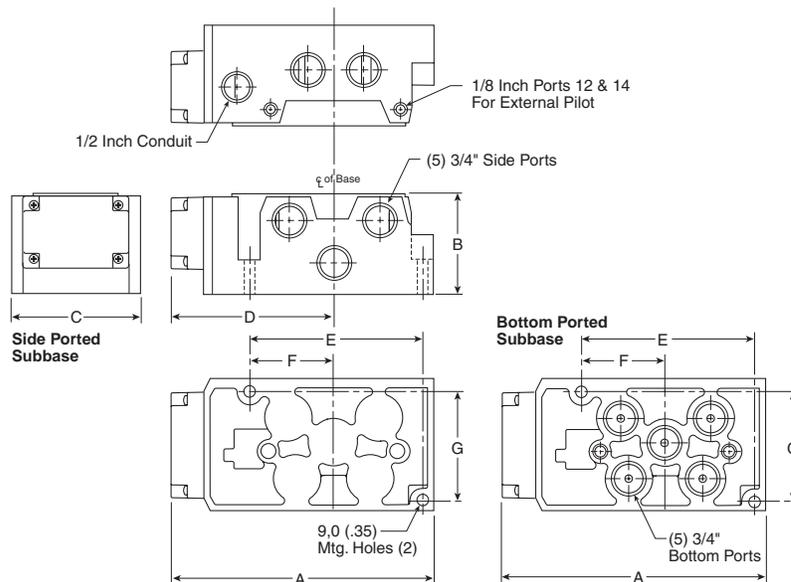
PS4211 Subbase

A	B	C	D
7.90	2.96	3.90	4.92
(201)	(75)	(990)	(125)

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

Inches (mm)

DX1 Manifold Dimensions
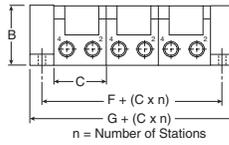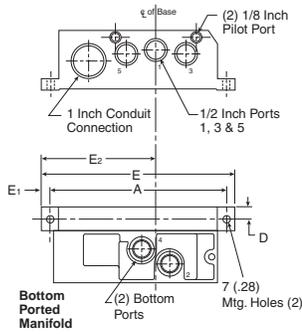
PS4011 Manifold

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

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

Inches (mm)

DX2 Manifold Dimensions
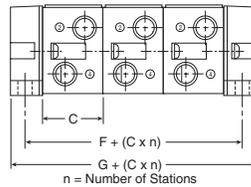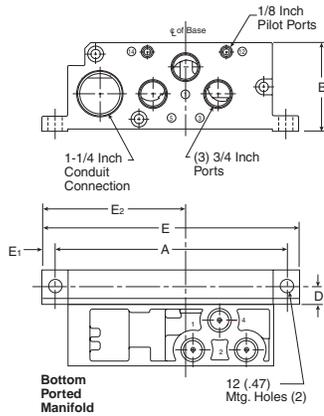
PS4111 Manifold

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

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

Inches (mm)

DX3 Manifold Dimensions
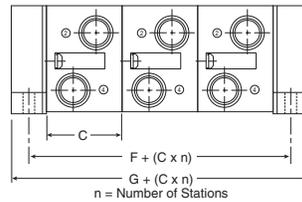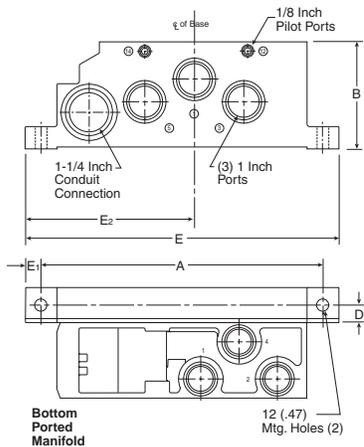
PS4211 Manifold

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

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

Inches (mm)

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

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

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

Side tabs: Moduflex Series, Isys Micro Series, Isys ISO Series, Fieldbus, DX ISOMAX Series, Valvair II Series, D, Subbase & Manifold Valve Products
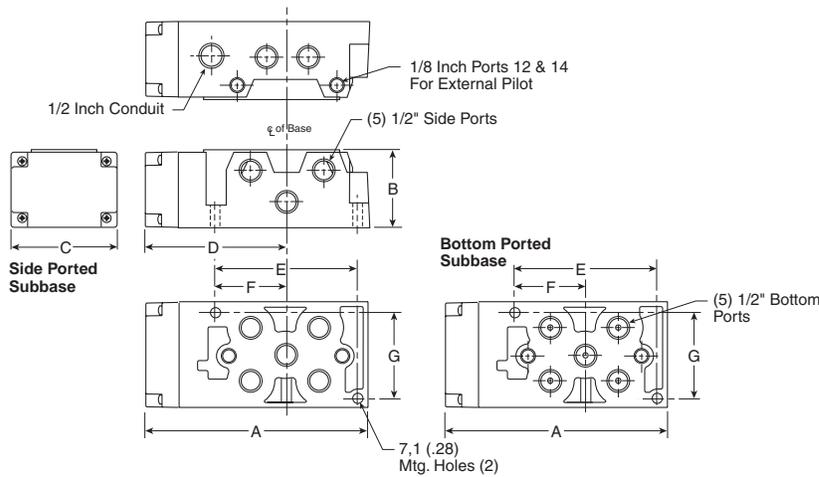
☐ Most popular.

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

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.

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Valvair II Series

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		
		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)	Voltage	Valve only	
						Single solenoid	Double solenoid
					120V 60Hz	L6758910253	L6558910253
		11.3	1"	K022095	110V 50Hz		
					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
		3/8"	K022090	K142230	120V 60Hz	L6653921153
	4.8	1/2"	K022091	K142231	110V 50Hz	
		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
				—	120V 60Hz	L6658921153
	11.3	1"	K022095	—	110V 50Hz	
				—	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) P, A & B	EA & EB	Nominal Cv	Voltage	Operator type	Valve Single solenoid	Double solenoid
		3/8"	1/2"	4.8	120V 60Hz	Junction box	L7053910253	L6853910253
		1/2"	1/2"		110V 50Hz		L7054910253	L6854910253
		3/8"	1/2"	4.8	24VDC	Junction box	L7053610249	L6853610249
		1/2"	1/2"				L7054610249	L6854610249
		3/8"	1/2"	4.8	120V 60Hz	Basic	L7053310253	L6853310253
		1/2"	1/2"		110V 50Hz		L7054310253	L6854310253

L705 (1" basic valve) single solenoid	L685 (1" basic valve) double solenoid	Port size (NPT) P, A & B	EA & EB	Nominal Cv	Voltage	Operator type	Valve Single solenoid	Double solenoid
		1"	1-1/4"	12.0	120V 60Hz	Junction box	L7058910253	L6858910253
		1-1/4"	1-1/4"		110V 50Hz		L7059910253	L6859910253
		1"	1-1/4"	12.0	24VDC	Junction box	L7058610249	L6858610249
		1-1/4"	1-1/4"				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) P, A & B	EA & EB	Nominal Cv	Voltage	Operator type	Valve 3/8" basic size	1" basic size
		3/8"	1/2"	4.5	120V 60Hz	Junction box	L6953921153	—
		1/2"	1/2"				L6954921153	—
		1"	1-1/4"	12.0	110V 50Hz		—	L6958921153
		1-1/4"	1-1/4"				—	L6959921153

† Manifolds include mounting hardware, except for port adapters.

Moduflex 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

| 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 exhuast in neutral (NEMA 1 & 12 enclosure) or remote
23	Cyl. Ports open to inlet in neutral (NEMA 1 & 12 enclosure) or remote

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US
Parker Pneumatic

Valve Products
Valvair II Series Valves, "Direct Pipe Ported"

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

| L | 70 | 5 | 3 | 9 | 10 | 2 | 53 | — |

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

Lead length

| Blank | 19" (Standard) |

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
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 | — |

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

Lead length

| Blank | 19" (Standard) |

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"

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.

Moduflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

DX ISOMAX Series

Valvair II Series

D

Subbase & Manifold Valve Products

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Plug-in Pilot

	Description	Standard service		Special service	
	Override type	Locking	Non-locking	Locking	Non-locking
With indicator light	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 Pilot	Basic with override	**K0653035****	—	**K0853025****	—
JIC Pilot	JIC with junction box & override	**K0656035****	**K0655035****	**K0856025****	**K0855025****
	JIC pilot with junction box & override & indicator lights (120VAC Only)	**K0659035****	**K0658035****	**K0859025****	**K0858025****

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

NEMA 4, 7 & 9

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

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

Service Kits

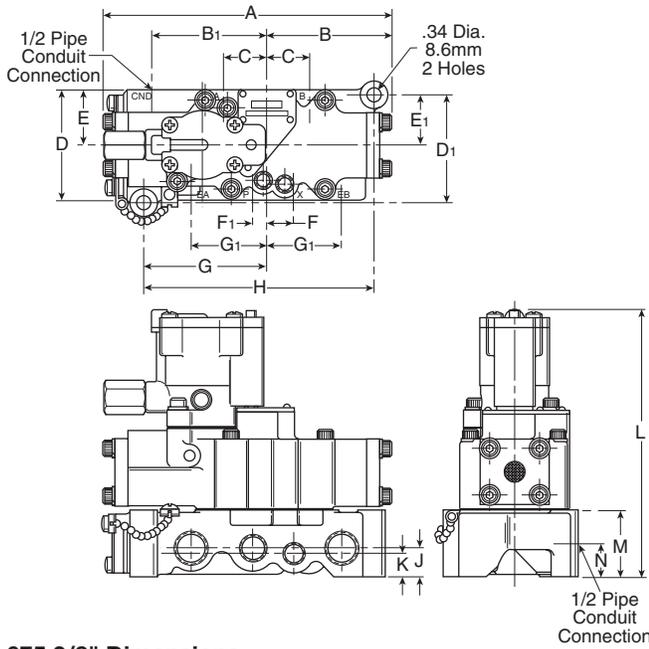| Basic valve		Solenoid operated *				Remote pilot operated	
		Standard service (intermittent duty)		Special service ** (continuous duty)			
Size	Series (prefix)	Single	Double 2 & 3-position	Single	Double 2 & 3-position	Single	Double 2 & 3-position
3/8"	L65	—	**K352126**	—	**K352127**	—	**K352355**
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

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Valvair II Series Kits & Accessories

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 Reduced pressure 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" 5 - 60	10 - 125†
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	K06020003
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 60 Hz	50 Hz	DC	Coil number 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 Single solenoid	Double solenoid	Subbase / manifold 19" leads	72" leads
3/8" 1"	H02723	H02722	H02713	H02789

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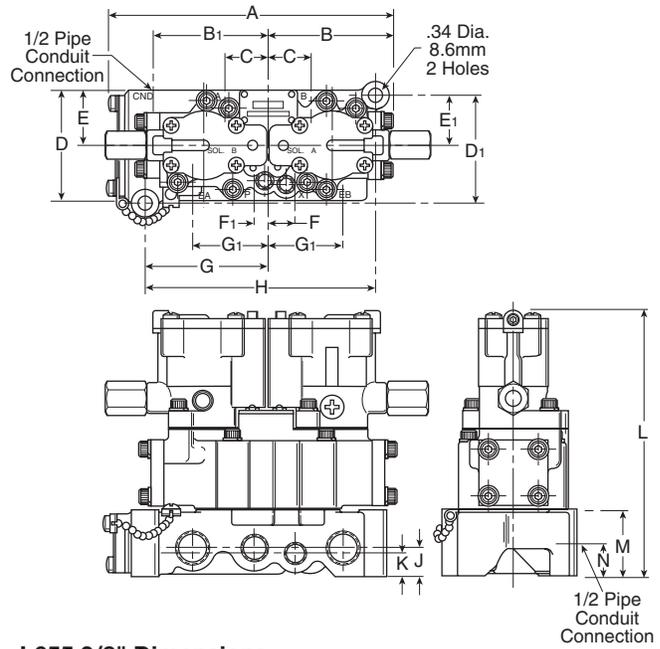Valvair II Series
D
Subbase & Manifold Valve Products

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Valvair II Series Subbase Valve Dimensions

L675 3/8" Dimensions

A	B	B₁	C	D	D₁	E	E₁	F
7.56	3.32	2.94	1.12	2.88	2.84	1.44	1.34	.75
(192)	(84.3)	(74.7)	(28.4)	(73.2)	(72.1)	(36.6)	(34)	(19.1)

F₁	G	G₁	H	J	K	L	M	N
.38	3.16	2.00	6.03	.75	.62	6.93	1.75	1.00
(9.7)	(80.3)	(50.8)	(153.2)	(19.1)	(15.7)	176)	(44.5)	(25.4)

Inches (mm)

L655 3/8" Dimensions

A	B	B₁	C	D	D₁	E	E₁	F
7.38	3.32	2.94	1.12	2.88	2.84	1.44	1.34	.75
(187.5)	(84.3)	(74.7)	(28.4)	(73.2)	(72.1)	(36.6)	(34)	(19.1)

F₁	G	G₁	H	J	K	L	M	N
.38	3.16	2.00	6.03	.75	.62	6.93	1.75	1.00
(9.7)	(80.3)	(50.8)	(153.2)	(19.1)	(15.7)	176)	(44.5)	(25.4)

Inches (mm)

L675 1" Dimensions

A	B	B₁	C	D	D₁	E	E₁	F
10.46	4.75	2.94	3.38	4.56	4.28	2.28	2.44	2.45
(265.7)	(120.6)	(74.7)	(85.8)	(115.8)	(108.7)	(57.9)	(62)	(62.2)

F₁	G	H	J	K	L	M	N
2.46	3.81	7.62	1.31	.59	8.74	2.09	1.22
(62.5)	(96.8)	(193.5)	(33.3)	(15)	(222)	(53.1)	(31)

Inches (mm)

L655 1" Dimensions

A	B	B₁	C	D	D₁	E	E₁	F
9.50	4.75	3.38	1.53	4.56	4.28	2.28	2.44	2.45
(241.3)	(120.6)	(85.8)	(38.9)	(115.8)	(108.7)	(57.9)	(62)	(62.2)

F₁	G	H	J	K	L	M	N
2.46	3.81	7.62	1.31	.59	8.74	2.09	1.22
(62.5)	(96.8)	(193.5)	(33.3)	(15)	(222)	(53.1)	(31)

Inches (mm)

Catalog PDN1000-3US

Parker Pneumatic

Valve Products

Valvair II Series Subbase Valve Dimensions

L665 3/8" Dimensions

A	B	B₁	C	D	D₁	E	E₁	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)

F₁	G	G₁	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	B₁	C	D	D₁	E	E₁	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)

F₁	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)
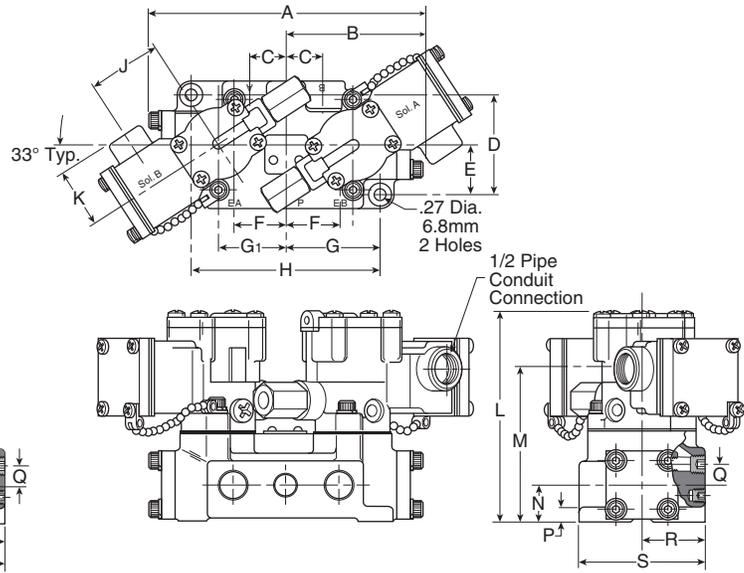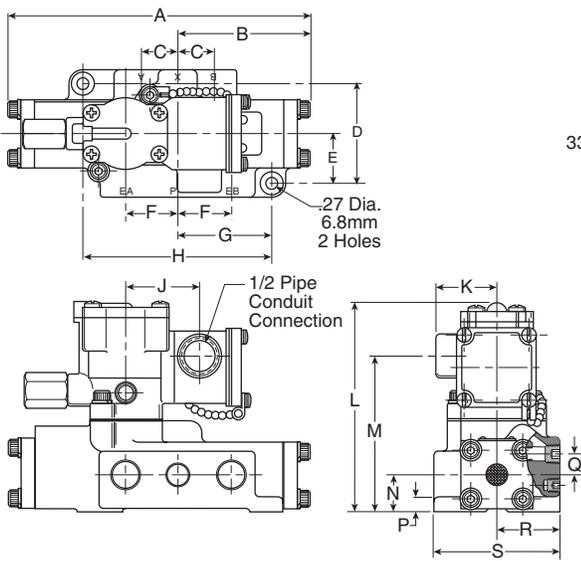
Inches (mm)

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)

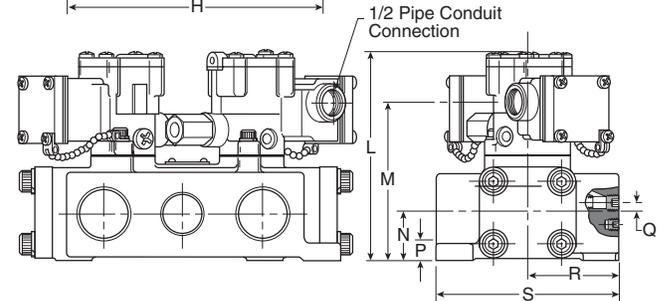| K	L	M	N	P	Q	R	S
1.50 (38.1)	5.35 (135.9)	3.91 (99.3)	.94 (23.9)	.38 (9.7)	.53 (13.5)	1.62 (41.1)	3.25 (82.6)

Inches (mm)

L685 3/8" Dimensions

A	B	C	D	E	F	G	G₁	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)

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

L705 1" Dimensions

A	B	C	D	E	F	G	H	J
10.46 (265.7)	4.75 (120.6)	1.62 (41.1)	4.25 (108)	2.12 (53.8)	2.19 (55.6)	3.44 (87.4)	7.44 (189)	1.82 (46.2)

K	L	M	N	P	Q	R	S	
1.50 (38.1)	6.44 (163.6)	4.95 (125.7)	1.50 (38.1)	.69 (17.5)	.20 (5.1)	2.62 (66.5)	5.25 (133.4)	

Inches (mm)

L685 1" Dimensions

A	B	C	D	E	F	G	H	J
9.50 (241.3)	4.75 (120.6)	1.62 (41.1)	4.25 (108)	2.12 (53.8)	2.19 (55.6)	3.44 (87.4)	7.44 (189)	1.82 (46.2)

K	L	M	N	P	Q	R	S	
1.50 (38.1)	6.44 (163.6)	4.95 (125.7)	1.50 (38.1)	.69 (17.5)	.20 (5.1)	2.62 (66.5)	5.25 (133.4)	

Inches (mm)

L695 3/8" Dimensions

A	B	C	D	E	F	G	G₁	H
9.64 (244.8)	4.82 (122.4)	.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)

L695 1" Dimensions

A	B	C	D	E	F	G	H	J
13.63 (346.2)	6.81 (173)	1.62 (41.1)	4.25 (108)	2.12 (53.8)	2.19 (55.6)	3.44 (87.4)	7.44 (189)	1.82 (46.2)

K	L	M	N	P	Q	R	S	
1.50 (38.1)	6.44 (163.6)	4.95 (125.7)	1.50 (38.1)	.69 (17.5)	.20 (5.1)	2.62 (66.5)	5.25 (133.4)	

Inches (mm)

Plug-in Manifold, 3/8" Basic

K142230 ....Cylinder ports 3/8" NPTF

K142231 ....Cylinder ports 1/2" NPTF

K142270 ....Cylinder ports 3/4" NPTF
    Exhaust port... 1" NPTF
    Inlet port.. 1" NPTF
    Conduit port..................................1-1/4" NPTF

Note: Manifold assemblies include mounting hardware.

Moduflex
Series

Isys Micro
Series

Isys ISO
Series

Fieldbus

DX ISOMAX
Series

Valvair II
Series

D

**Subbase & Manifold
Valve Products**