

## Isys Micro Series

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

### Ports

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

### Mounting

- Manifold

### Solenoids

- 24 VDC, 1.0 watt

### Certification / approval

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

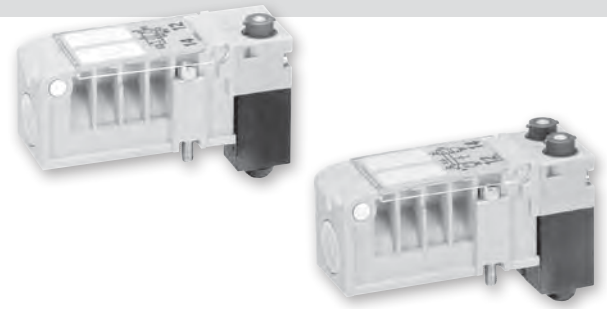
### Material specifications

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

### Pilot configuration

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

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



### Operating information

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

Pilot pressure requirements:

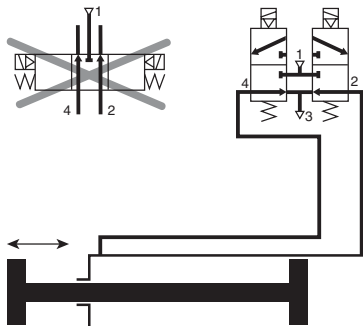
Valve number	Minimum pilot pressure	Maximum pilot pressure
HMEVX2049A	40 PSI	120 PSI
HM2VX2049A	25 PSI	120 PSI
HM5VX2049A	45 PSI	120 PSI
HMN VX2049A	40 PSI	120 PSI
HMPVX2049A	40 PSI	120 PSI
HMQVX2049A	40 PSI	120 PSI

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

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

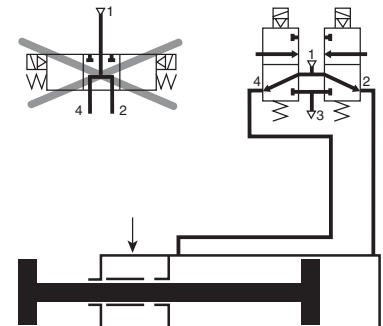
#### 3-position center exhaust

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



#### 3-position pressure center

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



Most popular.

Modulflex Series

Isys Micro Series

Isys ISO Series

Fieldbus

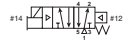
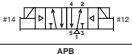
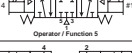
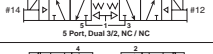
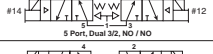



DX ISOMAX Series

Valvair II Series


**D**

Subbase & Manifold Valve Products









**Isys Micro Valves**

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

**Manifold Bases**

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

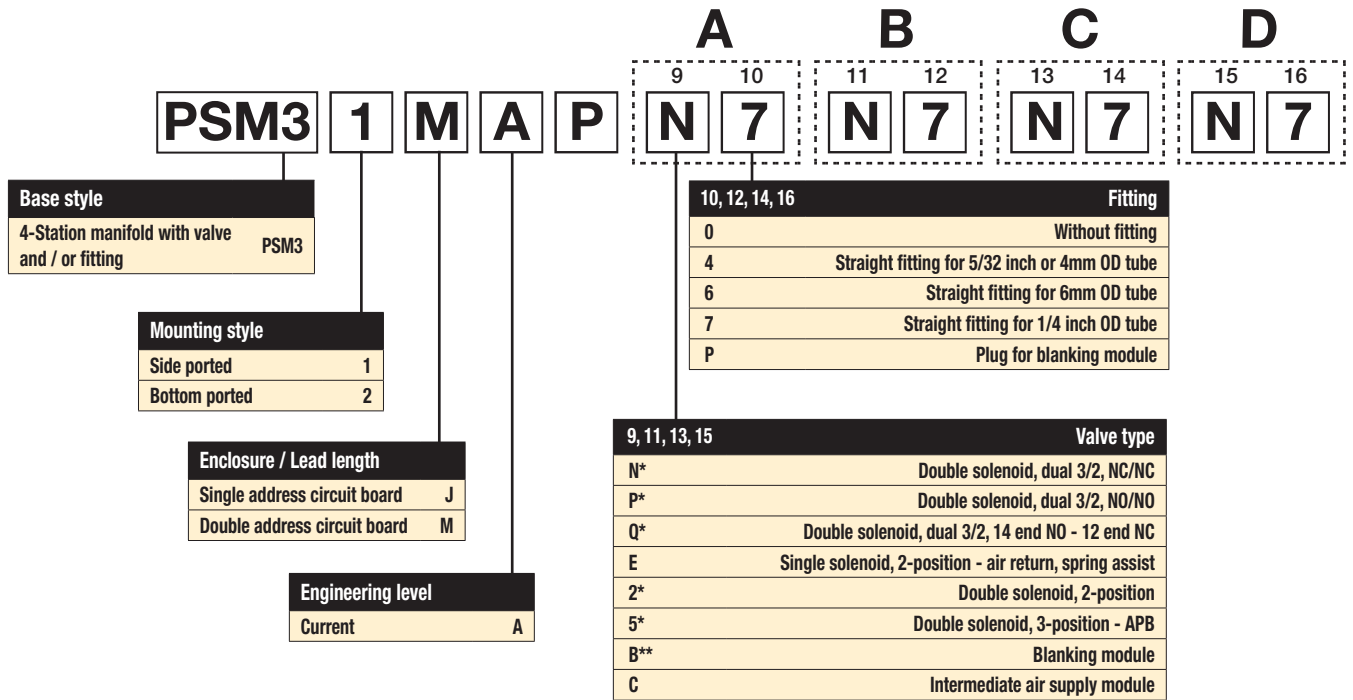
**Internal Pilot End Plate Kits**

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

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

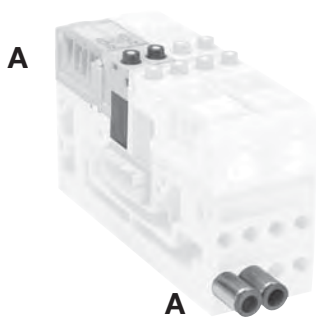
**Simple Manifold Assemblies**

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

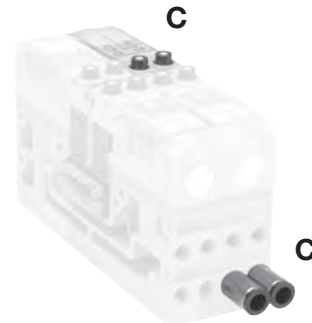


**BOLD OPTIONS ARE MOST POPULAR.**

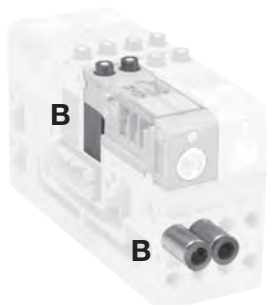
\* Requires double address circuit board, enclosure "M".  
 \*\* Requires fitting "P".



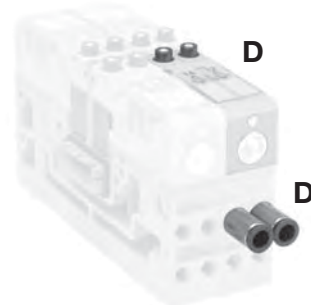
Valve Position A - Character 9  
 Fitting Position A - Character 10



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



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



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

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

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

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

### Maximum Number of Solenoids (Maximum Energized Simultaneously)

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

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

### Add-A-Fold Assembly Model Number

**AAHM D 3 24 0 0 0 0**

Valve series	
Isys micro add-a-fold	AAHM

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

Isysnet and Moduflex communication modules must be ordered separately.

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

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

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

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

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

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

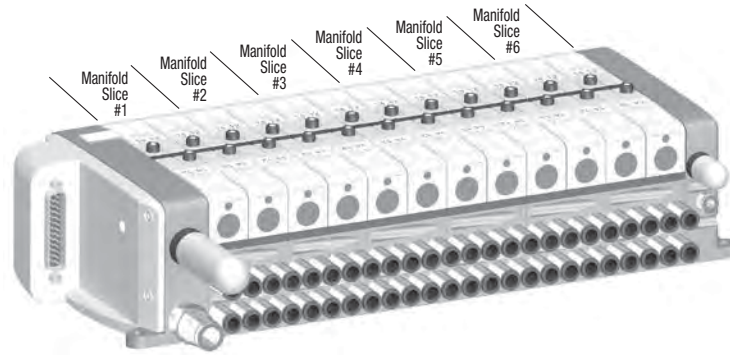
3/8" inlet port on end plate		
0	Without fitting	
8	Straight fitting for 8mm OD tube	<b>BSPP Threads</b>
A	Straight fitting for 10mm OD tube	
7	Straight fitting for 1/4 inch OD tube	<b>NPT Threads</b>
9	Straight fitting for 3/8 inch OD tube	

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



## 25-pin, D-Sub Manifolds

### 24 Single Solenoid Valves



### Add-A-Fold


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

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

### Component Level




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

### Sandwich Regulator


Description	Kit number
 Common port regulator, 5 to 125 PSI with gauge	<b>PSMRAX6AP</b>

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




### Flow Controls

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

### 25-pin, D-Sub Cable (Female)

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

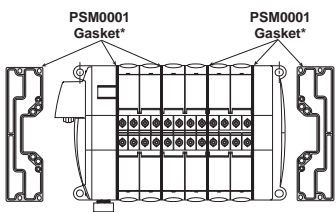
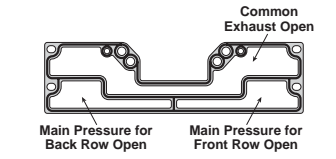
### Fittings – Must be ordered in multiples of 10

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

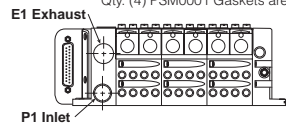
**Multiple Pressure Zones**

**PSM0001 –**

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

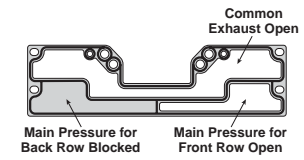


\* Qty. (4) PSM0001 Gaskets are required.

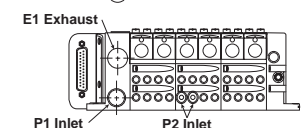
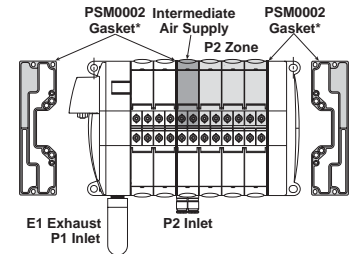


**PSM0002 –**

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



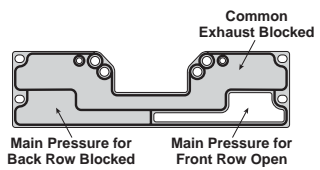
**Internal Pilot Pressure from P1 Inlet**



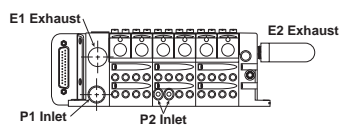
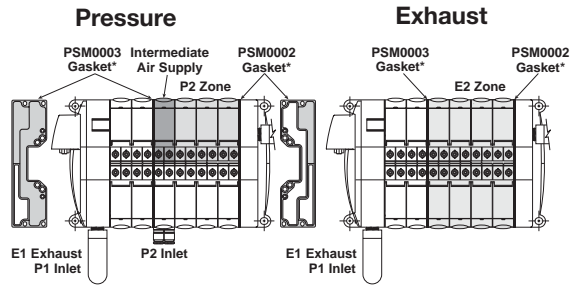
\* Qty. (2) PSM0002 Gaskets are required.  
 Remainder are PSM0001 Gaskets (Not shown)

**PSM0003 –**

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



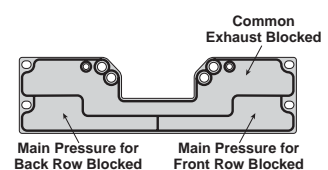
**Internal Pilot Pressure from P1 Inlet**



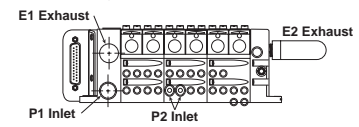
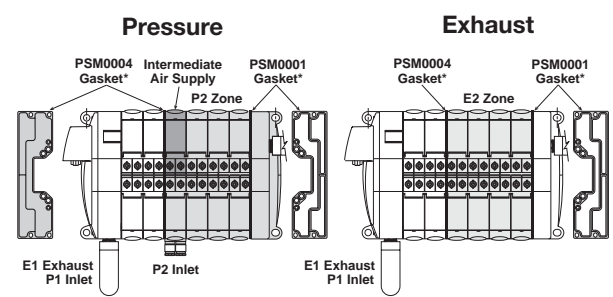
\* Qty. (1) PSM0003 and Qty. (1) PSM0002 Gaskets are required.  
 Remainder are PSM0001 Gaskets (Not shown)

**PSM0004 –**

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



**Internal Pilot Pressure from P2 Inlet**



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

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Fieldbus Series

DX/SOMAX Series





Valvair II Series

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**Manifold to Manifold Gaskets\***


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

\* Includes 1 Gasket


**Solenoid Kit**

Description	Part number
 24VDC solenoid kit with screws	<b>PSM0010</b>


**Override Caps**

Description	Part number
 Set of 10 manual override caps	<b>PSM0011</b>


**Gaskets and Valve Screws**

Description	Part number
 Set of 5 valve to manifold gaskets and 10 screws	<b>PSM0012</b>

**Plugs**

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

**Screws**


Description	Part number
 Set of 10 manifold to manifold M3 screws	<b>PSM0014</b>

**Valve Labels\***


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

\*Includes 10 Labels.

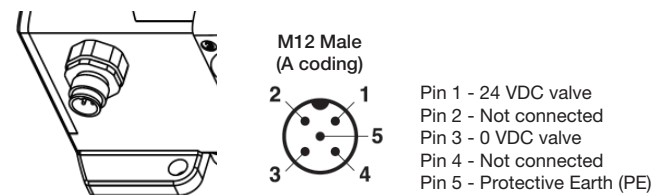
**Regulator Gauge**

Description	Part number
 5 to 125 PSI Gauge	<b>P0566202</b>

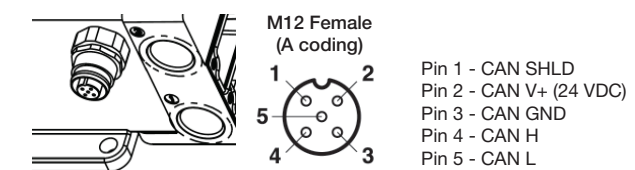
**Protective Cover**

Description	Part number
 Protective Polyester Cover Set of 10	<b>PS5706</b>

**Valve power supply connector (As seen on module)**



**Local bus connector (As seen on module)**



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Fieldbus

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**D**

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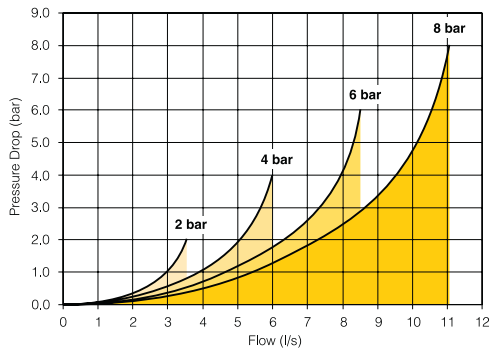
**Flow Characteristics**

**Dual 3/2**



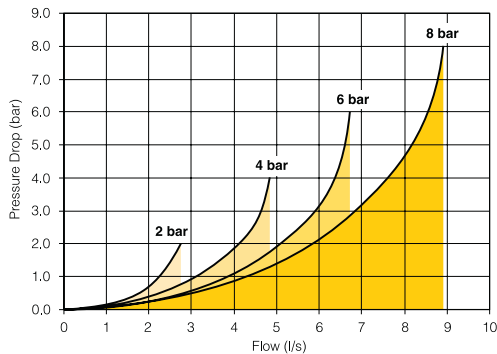
Operating pressure: 39 to 120.3 PSI (2.7 to 8.3 bar)  
 Change-over time (side 14): Actua. 15 ms  
 Return 20 ms P = 6b  
 Change-over time (side 12): 15 ms / 25 ms P = 6b  
 Flow (acc. to ISO 6358): c = 1.2 NI/s x bar  
 b = 0.13  
 Qn = 4.6 NI/s  
 Qmax = 8.4 NI/s

**5/2 single and double solenoid**



Operating pressure:  
 Single solenoid 39 to 120.3 PSI (2.7 to 8.3 bar)  
 Double solenoid 24.6 to 120.3 PSI (1.7 to 8.3 bar)  
 Change-over time:  
 Single solenoid Actua. 15 ms  
 Return 20 ms P = 6b  
 Double solenoid 13 ms / 13 ms P = 6b  
 Flow (acc. to ISO 6358): c = 1.2 NI/s x bar  
 b = 0.13  
 Qn = 4.7 NI/s  
 Qmax = 8.5 NI/s

**5/3 all ports blocked**



Operating pressure: 39 to 120.3 PSI (2.7 to 8.3 bar)  
 Change-over time: Actua. 20 ms  
 Return 20 ms P = 6b  
 Flow (acc. to ISO 6358): c = 1 NI/s x bar  
 b = 0.14  
 Qn = 3.8 NI/s  
 Qmax = 6.7 NI/s

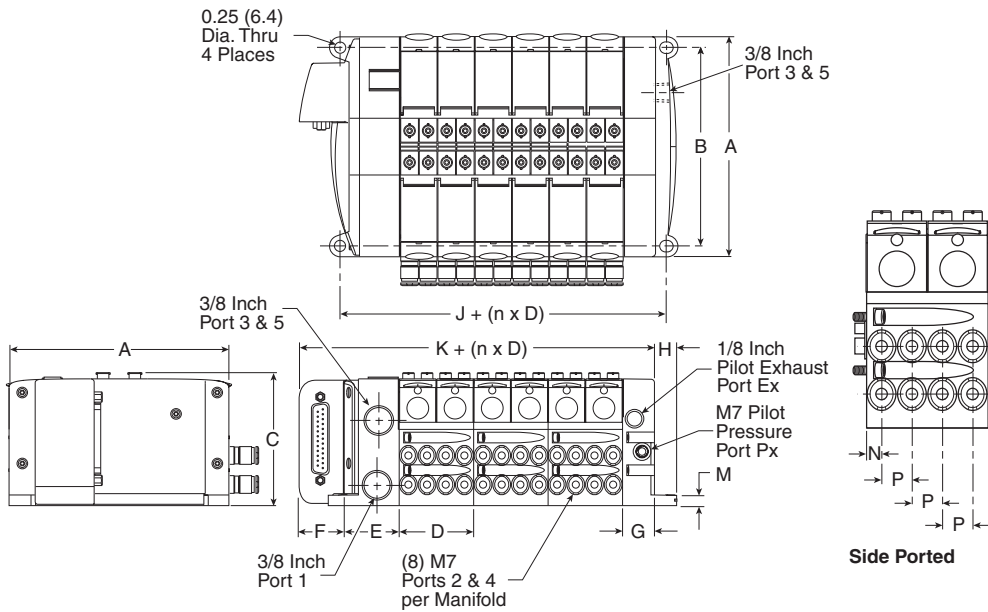
**Characteristics**

Fluid: Air or inert gas  
 Filtered 40 μ  
 Class 5 (according to ISO 8573-1)  
 Dry class 4 (according to ISO 8573-1)  
 Non-lubricated or lubricated  
 Storage temperature: 104°F to 158°F (-40°C to 70°C)  
 Working temperature: 5°F to 122°F (-15°C to 50°C)  
 Vibration: according to IEC 68-2-6  
 2G to 150 Hz  
 Shock: according to IEC 68-2-27  
 15G 11 ms

Operating pressure: -13 to 120.3 PSI (-0.9 to 8.3 bar)  
 with external pressure 87 PSI (6 bar)  
 Piloting pressure: 37 to 120.3 PSI (2.7 to 8.3 bar)  
 Exhaust collection: Independant exhaust collection  
 Rated coil voltage: 24 VDC -15 % / +10 %  
 Electrical connection: Not polarized  
 Coil insulation: Class B  
 Power consumption: 1 W (42 mA) with LED  
 Duty factor: 100 % at 68°F (20°C)



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



**Dimensions**

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

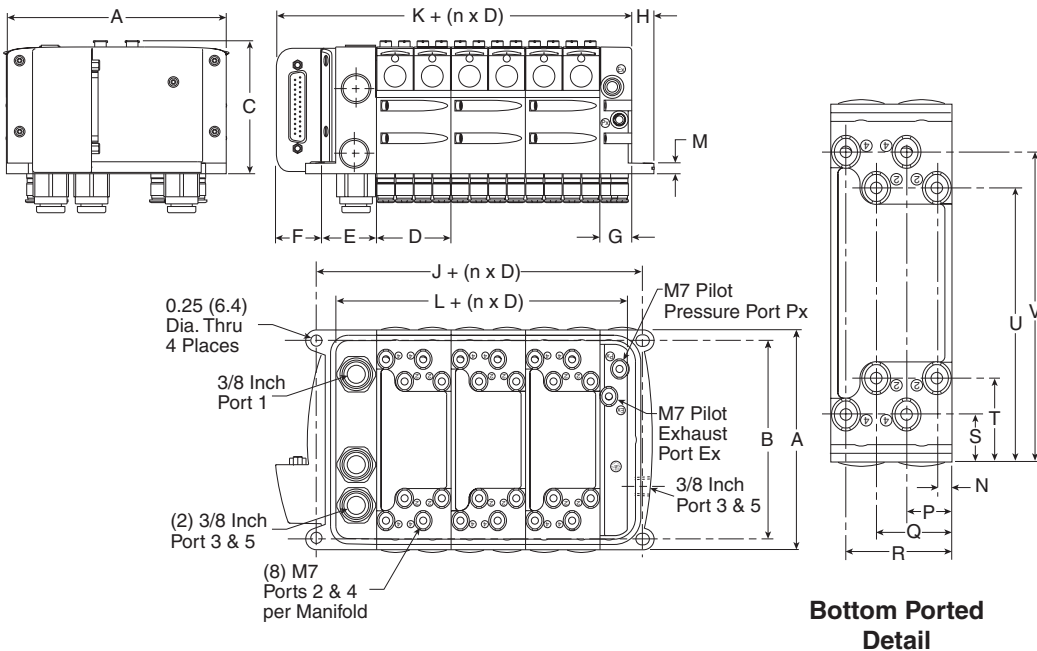
E	F	G	H
1.22	1.02	0.71	0.49
(31.0)	(26.0)	(18.0)	(12.5)

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**



**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)

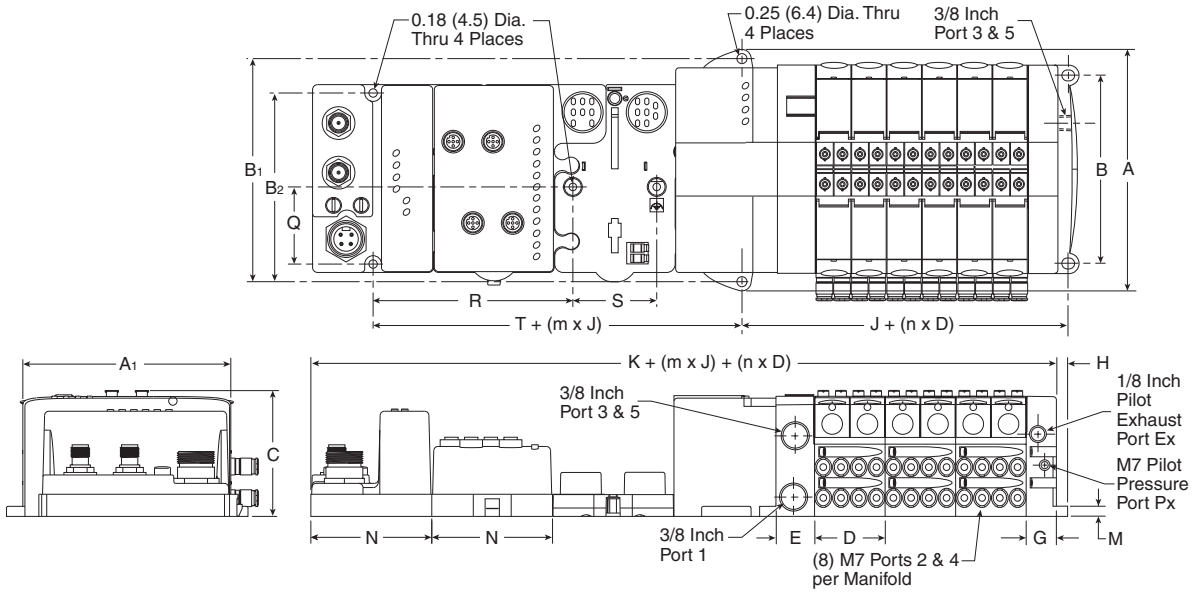
N	P	Q	R
0.21	0.62	1.03	1.45
(5.3)	(15.8)	(26.3)	(36.8)

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**

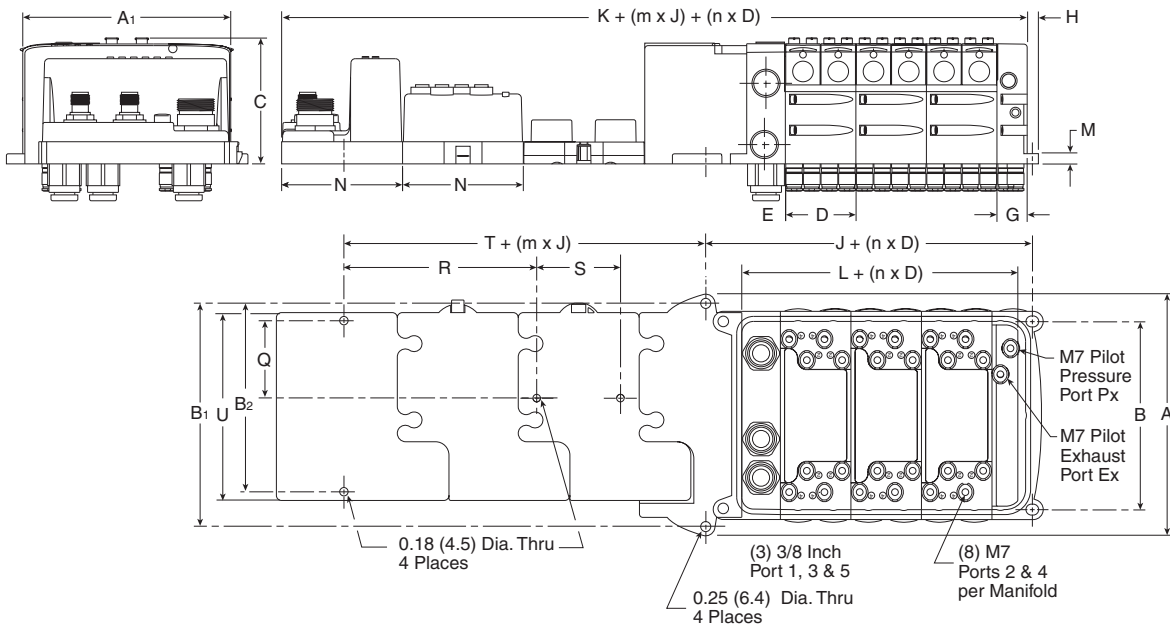


**Dimensions**

<b>A</b>	<b>A<sub>1</sub></b>	<b>B</b>	<b>B<sub>1</sub></b>	<b>B<sub>2</sub></b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>G</b>
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)
<b>H</b>	<b>J</b>	<b>K</b>	<b>M</b>	<b>N</b>	<b>Q</b>	<b>R</b>	<b>S</b>	<b>T</b>
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**

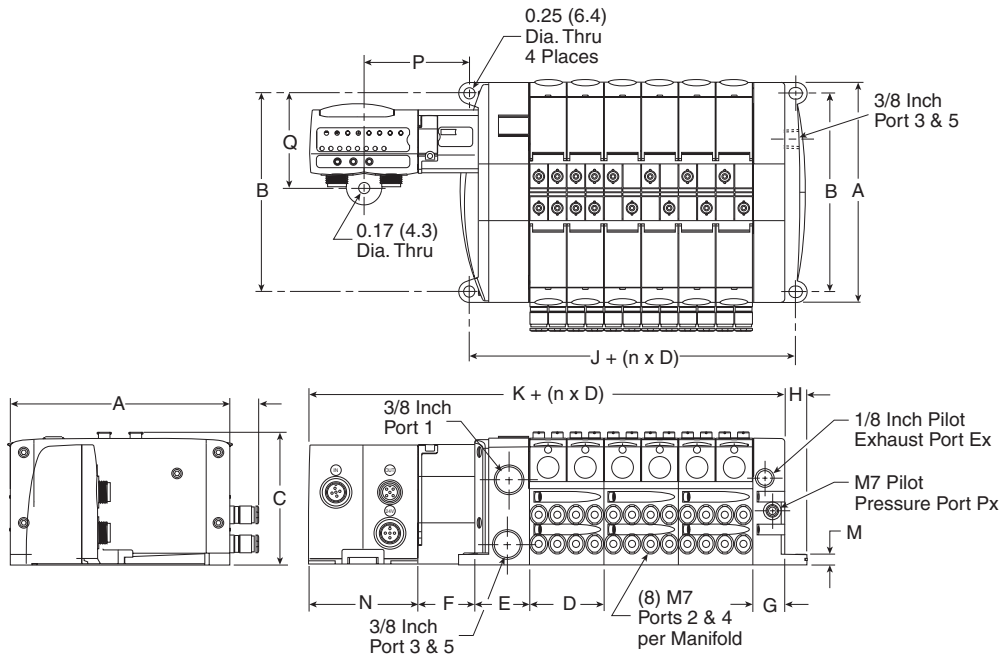


**Dimensions**

<b>A</b>	<b>A<sub>1</sub></b>	<b>B</b>	<b>B<sub>1</sub></b>	<b>B<sub>2</sub></b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>G</b>	<b>H</b>
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)
<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>Q</b>	<b>R</b>	<b>S</b>	<b>T</b>	<b>U</b>
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 with Isys Micro Valves, Side Ported**



**Dimensions**

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

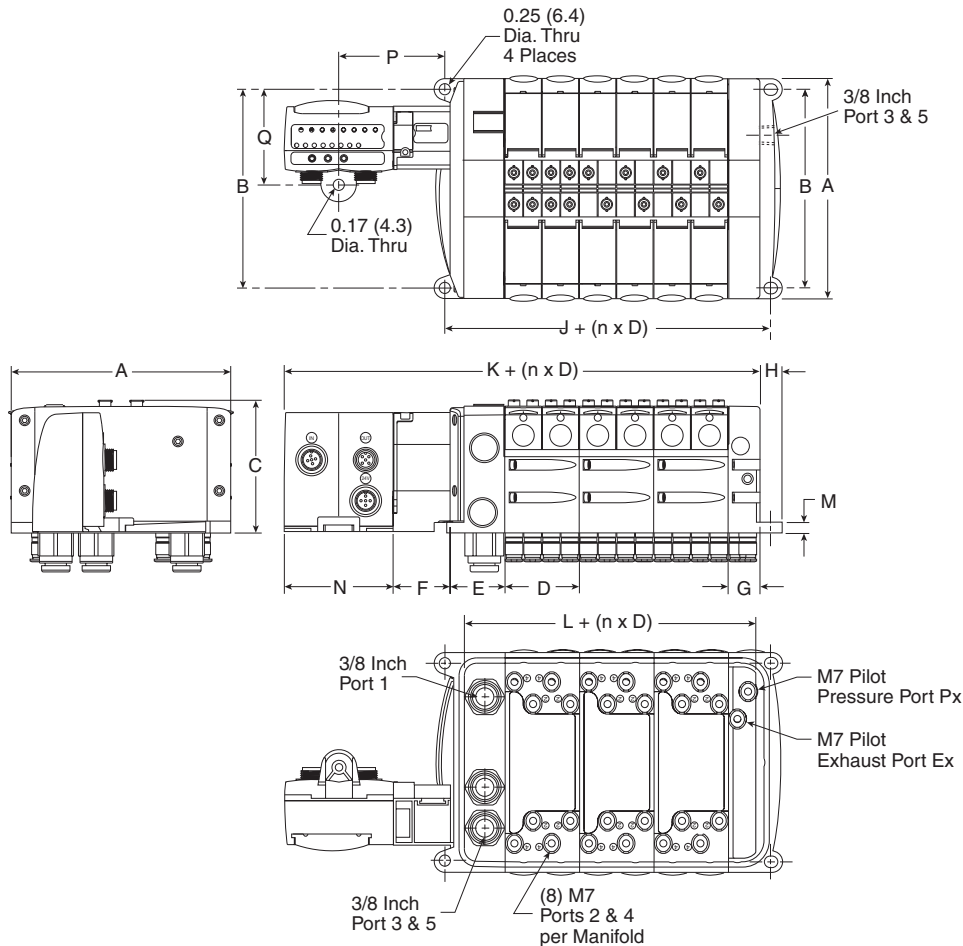
E	F	G	H
1.22	1.28	0.71	0.49
(31.0)	(32.5)	(18.0)	(12.5)

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**



**Dimensions**

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

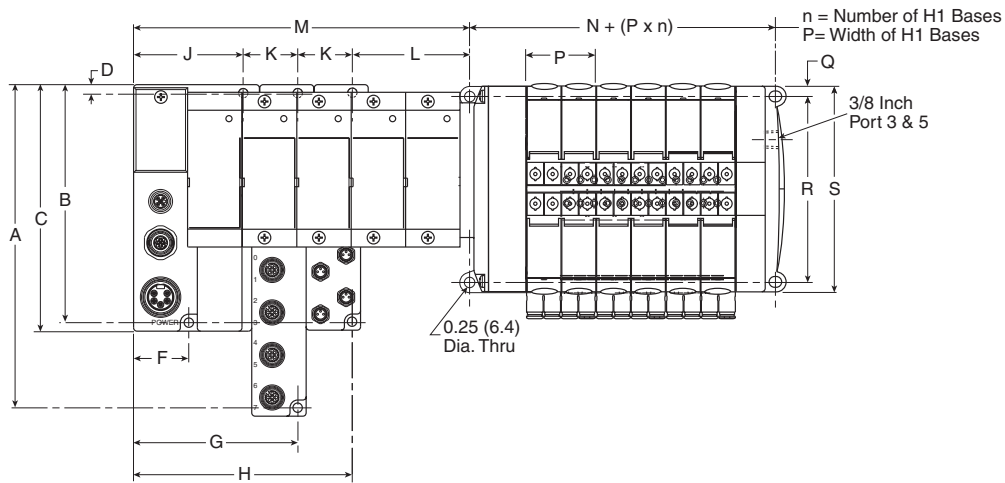
E	F	G	H
1.22	1.02	0.71	0.49
(31.0)	(26.0)	(18.0)	(12.5)

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

**Turck with Isys Micro Valves, Side Ported**



**Dimensions**

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

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

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