Parker Pneumatic

isys ISO Series

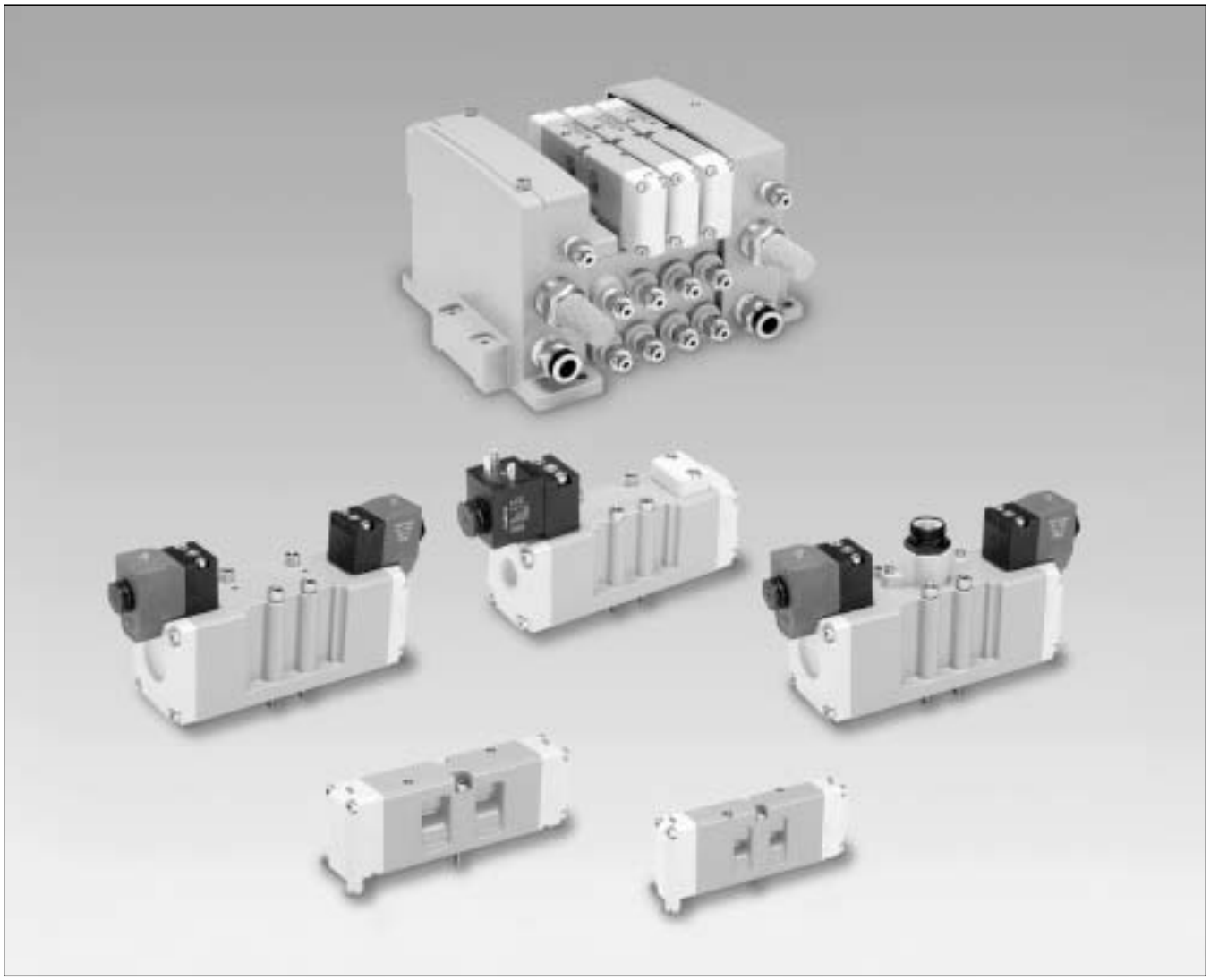
ISO Air Control Valves

15407-2, 5599-2 & 5599-1
Sizes 18mm, 26mm, 1, 2, 3, & 4

Section L

www.parker.com/pneu/isys

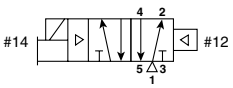
L



Bold text part numbers are standard.
Standard text part numbers may have longer lead times.

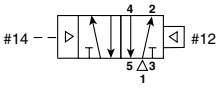
Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatic

Single Solenoid



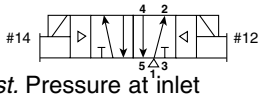
Single Pressure At Inlet Port 1:
De-energized position – Solenoid operator #14 de-energized. Pressure at inlet port 1 connected to outlet port 2. Outlet port 4 connected to exhaust port 5.
Energized position – Solenoid operator #14 energized. Pressure at inlet port 1 connected to outlet port 4. Outlet port 2 connected to exhaust port 3.

Single Remote Pilot

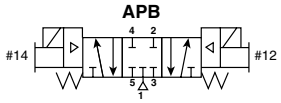


Single Pressure At Inlet Port 1:
Normal position – Pressure at inlet port 1 connected to outlet port 2. Outlet port 4 connected to exhaust port 5.
Operated position – Maintained air signal at port 14. Pressure at inlet port 1 connected to outlet port 4. Outlet port 2 connected to exhaust port 3.

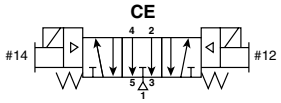
Double Solenoid



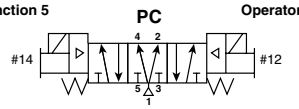
Single Pressure At Inlet Port 1:
Solenoid operator #14 energized last. Pressure at inlet port 1 connected to outlet port 4. Outlet port 2 connected to exhaust port 3.
Solenoid operator #12 energized last. Pressure at inlet port 1 connected to outlet port 2. Outlet port 4 connected to exhaust port 5.



Operator / Function 5

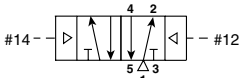


Operator / Function 6

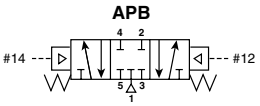


Operator / Function 7

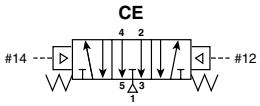
Double Remote Pilot



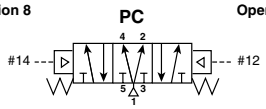
Single Pressure At Inlet Port 1:
Momentary air signal at port 14 last. Pressure at inlet port 1 connected to outlet port 4. Outlet port 2 connected to exhaust port 3.
Momentary air signal at port 12 last. Pressure at inlet port 1 connected to outlet port 2. Outlet port 4 connected to exhaust port 5.



Operator / Function 8



Operator / Function 9



Operator / Function 0

Double Solenoid

3-Position

With #12 operator energized – inlet port 1 connected to cylinder port 2, cylinder port 4 connected to exhaust port 5.
With #14 operator energized – inlet port 1 connected to cylinder port 4, cylinder port 2 connected to exhaust port 3.

Function 5: All Ports Blocked
All ports blocked in the center position.

Function 6: Center Exhaust
Cylinder ports 2 and 4 connected to exhaust ports 3 and 5 in center position. Port 1 is blocked.

Function 7: Pressure Center
Pressure port 1 connected to cylinder ports 2 and 4, and exhaust ports 3 and 5 blocked in center position.

Double Remote Pilot

3-Position

With #12 operator signaled – inlet port 1 connected to cylinder port 2, cylinder port 4 connected to exhaust port 5.
With #14 operator signaled – inlet port 1 connected to cylinder port 4, cylinder port 2 connected to exhaust port 3.

Function 8: All Ports Blocked
All ports blocked in the center position.

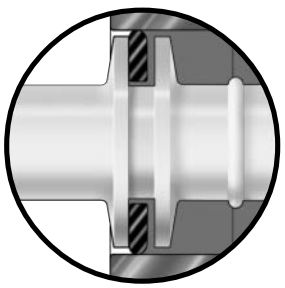
Function 9: Center Exhaust
Cylinder ports 2 and 4 connected to exhaust ports 3 and 5 in center position. Port 1 is blocked.

Function 0: Pressure Center
Pressure port 1 connected to cylinder ports 2 and 4, and exhaust ports 3 and 5 blocked in center position.

Dual Pressure:
May be used for dual pressure service with pressure at ports 3 & 5. (Use either external pilot source option “L” or “P” or internal pilot source option “E”.) If pilot source “E” is selected, the high pressure must be at port #3. If pilot source “L” or “P” is selected, the external pilot must be plumbed to either port #14 or #12 respectively. In the 3-Position valve, the effect of dual pressure is extremely important when the valve is in the center position, as the CE and PC functions are reversed. Therefore care should be used when selecting a 3-Position valve.

*W*ear *C*ompensation *S*ystem

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



15407-2

Specifications

HB: 0.55 Cv (18mm)
HA: 1.1 Cv (26mm)

Materials of Construction

- End Caps: PBT
- Fasteners: Zinc Plated Steel
- Valve Body: Die Cast Aluminum
- Coils: Thermoset Plastic

Operating Pressure

- Vacuum to 145 PSIG
- Minimum Operating Pressure
  – 2-Position: 20 PSI
  – 3-Position: 30 PSI

Ports

- NPT and BSPP “G” Standard

Manifolds

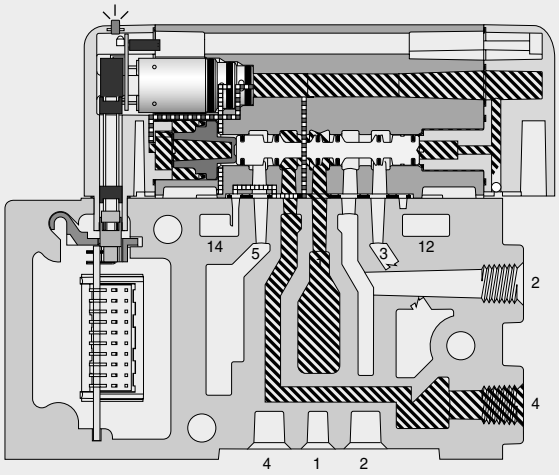
- Terminal Block Wiring (HA Only)
- Collective Wiring
  – 25-Pin, D-Sub
  – 19-Pin Round
  – 16 Point Terminal Strip
  – M23, 12-Pin
  – isysnet Field Bus

Certification / Approval

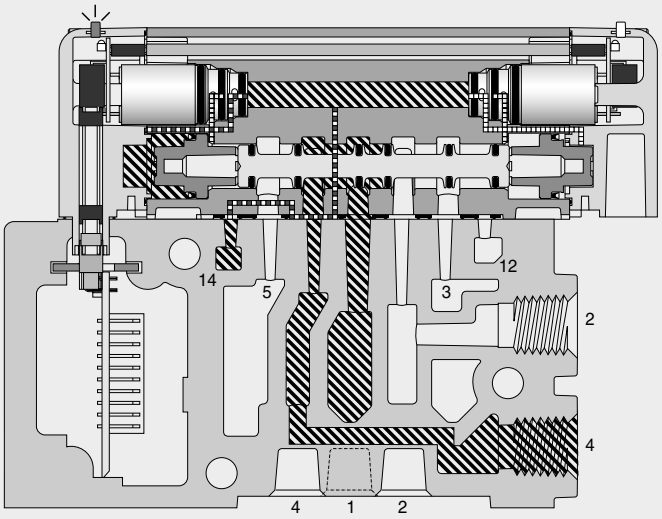
- Approved to be CE Marked
- CSA / C-US Approved
- NEMA 4
- IP65
- Manifold and Subbase Ports Meet ISO 1179 Specifications

Solenoids

- Bi-Polar
- Surge Suppression (Standard)
- Low Watt – 1.0, 24VDC, 2.0VA, 120VAC
- Indicator Lights



15407-2 18mm Single Solenoid Energized
Internal Pilot
Manifold Mounted



15407-2 26mm Double Solenoid 12 End Energized
External Pilot
Manifold Mounted

Pressure **Exhaust**

L

5599-2 5599-1

Specifications

H1 H1: 1.5 Cv
H2 H2: 3.0 Cv
H3 H3: 6.0 Cv

Materials of Construction

- End Caps: PBT
- Fasteners: Zinc Plated Steel
- Valve Body: Die Cast Aluminum
- Coils: Thermoset Plastic

Operating Pressure

- Vacuum to 145 PSIG
- Minimum Operating Pressure
  – 2-Position: 25 PSI
  – 3-Position: 30 PSI

Ports

- NPT and BSPP “G”

Manifolds

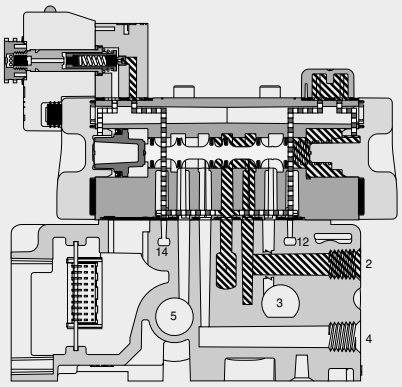
- Flying Leads
- Terminal Block Wiring
- Collective Wiring
  – 25-Pin, D-Sub
  – 19-Pin Round
  – M23, 12-Pin
  – isysnet Field Bus

Certification / Approval

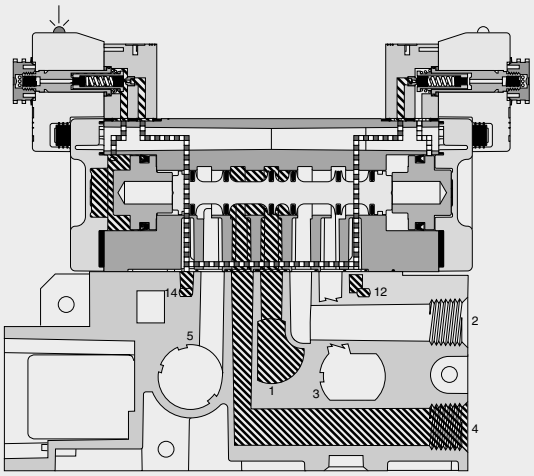
- Approved to be CE Marked
- CSA / C-US Approved
- NEMA 4
- IP65
- Manifold and Subbase Ports Meet ISO 1179 Specifications

Solenoids

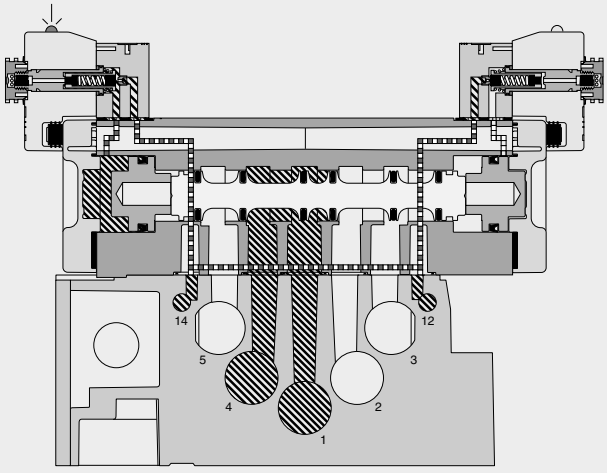
- Bi-Polar
- Surge Suppression (On Lighted Coils)
- Low Watt – 3.0, 24VDC, 4.5VA, 120VAC
- Indicator Lights, 24VDC & 120VAC



H1 5599-2 Single Solenoid De-Energized
Internal Pilot
Manifold Mounted



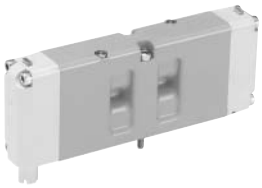
H2 5599-2 Double Solenoid 12 End Energized
External Pilot
Manifold Mounted



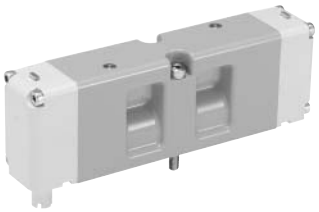
H3 5599-2 Double Solenoid 12 End Energized
External Pilot
Subbase Mounted

Pressure **Exhaust**

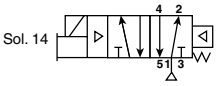
Single Solenoid
2-Position



HB: 18mm

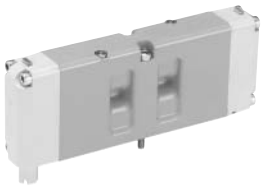


HA: 26mm

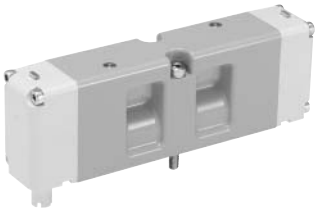


HB	**HBEVXBG023A**	120VAC	0.55 Cv
	HBEVXBG0G9A	24VDC	
HA	**HAEVXBG023A**	120VAC	1.1 Cv
	HAEVXBG0G9A	24VDC	

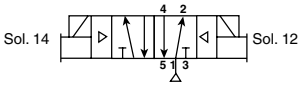
Double Solenoid
2-Position



HB: 18mm



HA: 26mm

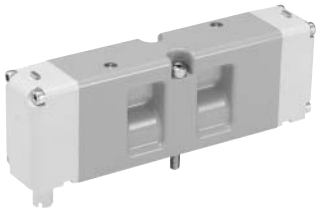


HB	**HB2VXBG023A**	120VAC	0.55 Cv
	HB2VXBG0G9A	24VDC	
HA	**HA2VXBG023A**	120VAC	1.1 Cv
	HA2VXBG0G9A	24VDC	

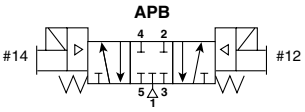
L

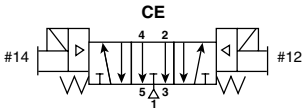
Double Solenoid
3-Position APB
3-Position CE
3-Position PC

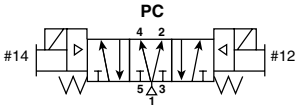
HB: 18mm



HA: 26mm



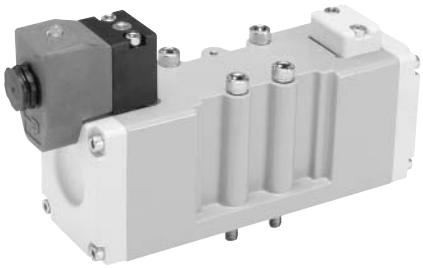


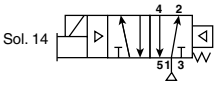


APB			
HB	**HB5VXBG023A**	120VAC	0.50 Cv
	HB5VXBG0G9A	24VDC	
HA	**HA5VXBG023A**	120VAC	1.0 Cv
	HA5VXBG0G9A	24VDC	
CE			
HB	**HB6VXBG023A**	120VAC	0.50 Cv
	HB6VXBG0G9A	24VDC	
HA	**HA6VXBG023A**	120VAC	1.0 Cv
	HA6VXBG0G9A	24VDC	

PC			
HB	**HB7VXBG023A**	120VAC	0.50 Cv
	HB7VXBG0G9A	24VDC	
HA	**HA7VXBG023A**	120VAC	1.0 Cv
	HA7VXBG0G9A	24VDC	

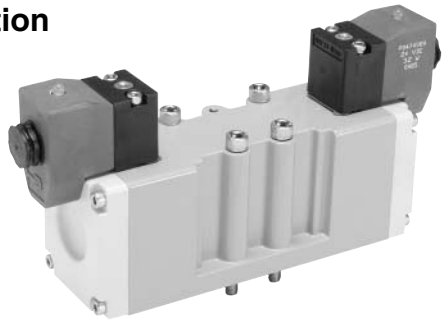
Single Solenoid
2-Position, Spring / Air Return

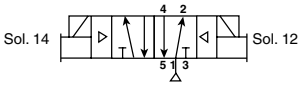




H1	**H1EVXBG023C**	120VAC	1.5 Cv
	H1EVXBG0B9C	24VDC	
H2	**H2EVXBG023C**	120VAC	3.0 Cv
	H2EVXBG0B9C	24VDC	
H3	**H3EVXBG023C**	120VAC	6.0 Cv
	H3EVXBG0B9C	24VDC	

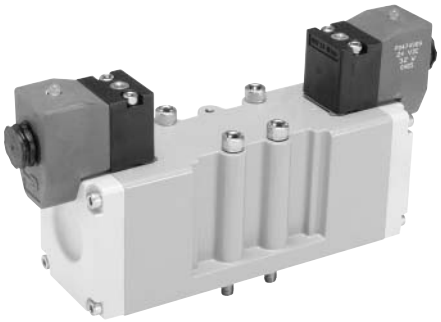
Double Solenoid
2-Position

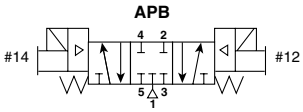


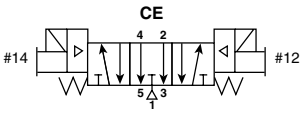


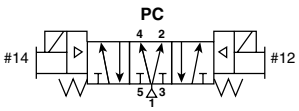
H1	**H12VXBG023C**	120VAC	1.5 Cv
	H12VXBG0B9C	24VDC	
H2	**H22VXBG023C**	120VAC	3.0 Cv
	H22VXBG0B9C	24VDC	
H3	**H32VXBG023C**	120VAC	6.0 Cv
	H32VXBG0B9C	24VDC	

Double Solenoid
3-Position APB
3-Position CE
3-Position PC





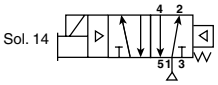




APB			
H1	**H15VXBG023C**	120VAC	1.2 Cv
	H15VXBG0B9C	24VDC	
H2	**H25VXBG023C**	120VAC	2.8 Cv
	H25VXBG0B9C	24VDC	
H3	**H35VXBG023C**	120VAC	5.0 Cv
	H35VXBG0B9C	24VDC	
CE			
H1	**H16VXBG023C**	120VAC	1.2 Cv
	H16VXBG0B9C	24VDC	
H2	**H26VXBG023C**	120VAC	2.8 Cv
	H26VXBG0B9C	24VDC	
H3	**H36VXBG023C**	120VAC	5.0 Cv
	H36VXBG0B9C	24VDC	

PC			
H1	**H17VXBG023C**	120VAC	1.2 Cv
	H17VXBG0B9C	24VDC	
H2	**H27VXBG023C**	120VAC	2.8 Cv
	H27VXBG0B9C	24VDC	
H3	**H37VXBG023C**	120VAC	5.0 Cv
	H37VXBG0B9C	24VDC	

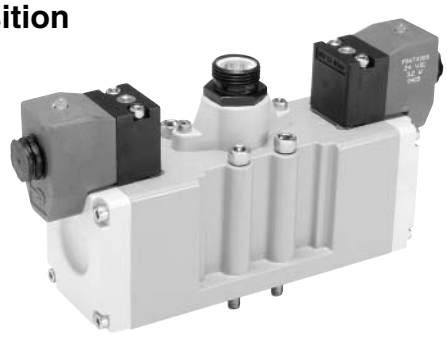
Single Solenoid
2-Position, Spring / Air Return

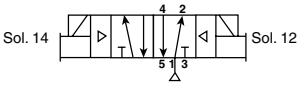


H1	**H1EWXBG323000*C**	120VAC	1.5 Cv
	H1EWXBG2B9000*C	24VDC	
H2	**H2EWXBG323000*C**	120VAC	3.0 Cv
	H2EWXBG2B9000*C	24VDC	
H3	**H3EWXBG323000*C**	120VAC	6.0 Cv
	H3EWXBG2B9000*C	24VDC	

H##WXBG3̲23000*C = 5-Pin Automotive Mini Straight Connector
H##WXBG2̲B9000*C = 4-Pin M12 Micro Straight Connector

Double Solenoid
2-Position



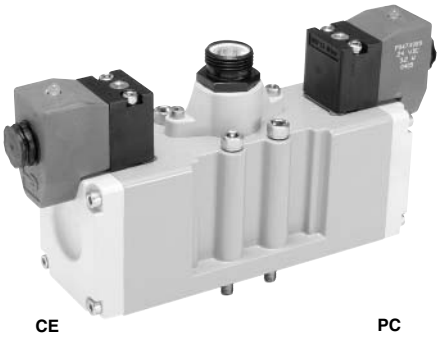


H1	**H12WXBG323000*C**	120VAC	1.5 Cv
	H12WXBG2B9000*C	24VDC	
H2	**H22WXBG323000*C**	120VAC	3.0 Cv
	H22WXBG2B9000*C	24VDC	
H3	**H32WXBG323000*C**	120VAC	6.0 Cv
	H32WXBG2B9000*C	24VDC	

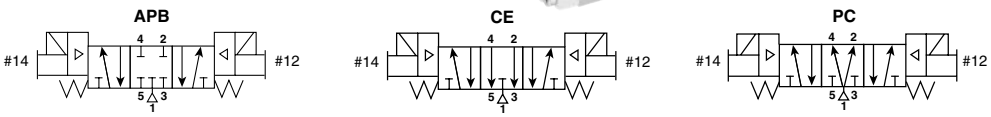
H##WXBG3̲23000*C = 5-Pin Automotive Mini Straight Connector
H##WXBG2̲B9000*C = 4-Pin M12 Micro Straight Connector

L

Double Solenoid
3-Position APB
3-Position CE
3-Position PC



*** Specify Automotive Wiring Code**
C - Chrysler
F - SAE / Ford
G - GM

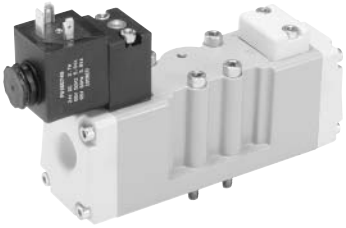


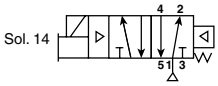
APB			
H1	**H15WXBG323000*C**	120VAC	1.2 Cv
	H15WXBG2B9000*C	24VDC	
H2	**H25WXBG323000*C**	120VAC	2.8 Cv
	H25WXBG2B9000*C	24VDC	
H3	**H35WXBG323000*C**	120VAC	5.0 Cv
	H35WXBG2B9000*C	24VDC	
CE			
H1	**H16WXBG323000*C**	120VAC	1.2 Cv
	H16WXBG2B9000*C	24VDC	
H2	**H26WXBG323000*C**	120VAC	2.8 Cv
	H26WXBG2B9000*C	24VDC	
H3	**H36WXBG323000*C**	120VAC	5.0 Cv
	H36WXBG2B9000*C	24VDC	

PC			
H1	**H17WXBG323000*C**	120VAC	1.2 Cv
	H17WXBG2B9000*C	24VDC	
H2	**H27WXBG323000*C**	120VAC	2.8 Cv
	H27WXBG2B9000*C	24VDC	
H3	**H37WXBG323000*C**	120VAC	5.0 Cv
	H37WXBG2B9000*C	24VDC	

H##WXBG3̲23000*C = 5-Pin Automotive Mini Straight Connector
H##WXBG2̲B9000*C = 4-Pin M12 Micro Straight Connector

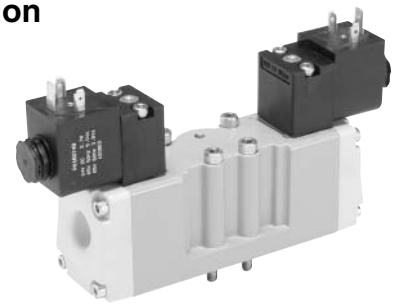
Single Solenoid
2-Position, Spring / Air Return

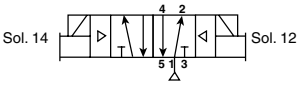




H1	**H1EWXBBL53C**	120VAC	1.5 C_V
	H1EWXBBL49C	24VDC	
H2	**H2EWXBBL53C**	120VAC	3.0 C_V
	H2EWXBBL49C	24VDC	
H3	**H3EWXBBL53C**	120VAC	6.0 C_V
	H3EWXBBL49C	24VDC	

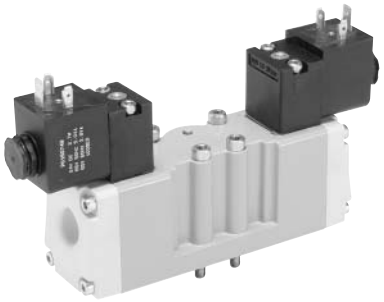
Double Solenoid
2-Position

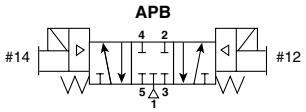


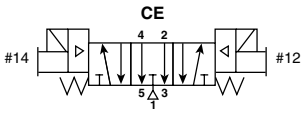


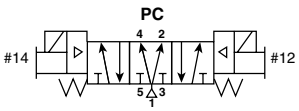
H1	**H12WXBBL53C**	120VAC	1.5 C_V
	H12WXBBL49C	24VDC	
H2	**H22WXBBL53C**	120VAC	3.0 C_V
	H22WXBBL49C	24VDC	
H3	**H32WXBBL53C**	120VAC	6.0 C_V
	H32WXBBL49C	24VDC	

Double Solenoid
3-Position APB
3-Position CE
3-Position PC









APB			
H1	**H15WXBBL53C**	120VAC	1.2 C_V
	H15WXBBL49C	24VDC	
H2	**H25WXBBL53C**	120VAC	2.8 C_V
	H25WXBBL49C	24VDC	
H3	**H35WXBBL53C**	120VAC	5.0 C_V
	H35WXBBL49C	24VDC	
CE			
H1	**H16WXBBL53C**	120VAC	1.2 C_V
	H16WXBBL49C	24VDC	
H2	**H26WXBBL53C**	120VAC	2.8 C_V
	H26WXBBL49C	24VDC	
H3	**H36WXBBL53C**	120VAC	5.0 C_V
	H36WXBBL49C	24VDC	

PC			
H1	**H17WXBBL53C**	120VAC	1.2 C_V
	H17WXBBL49C	24VDC	
H2	**H27WXBBL53C**	120VAC	2.8 C_V
	H27WXBBL49C	24VDC	
H3	**H37WXBBL53C**	120VAC	5.0 C_V
	H37WXBBL49C	24VDC	

BOLD OPTIONS ARE MOST POPULAR

Basic Series	Operator / Function	Mounting	Pilot Source / Pilot Exhaust	Overrides / Lights	Enclosure / Lead Length	Voltage & Frequency	Engineering Level
HB	**1**	**VX**	**B**	**G**	**0**	**G9**	**A**

15407-2

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

15407-2 Operator / Function

1	**Single Solenoid, 2-Position - Air Return**
2	**Double Solenoid, 2-Position**
3*†§	Single Remote Pilot, 2-Position - Air Return
4*†§	Double Remote Pilot, 2-Position
5	**Double Solenoid, 3-Position - APB**
6	**Double Solenoid, 3-Position - CE**
7	Double Solenoid, 3-Position - PC
8*†§	Double Remote Pilot, 3-Position - APB
9*†§	Double Remote Pilot, 3-Position - CE
0*†§	Double Remote Pilot, 3-Position - PC
E	**Single Solenoid, 2-Position - Air Return, Spring Assist**
F*†§	Single Remote Pilot, 2-Position - Air Return, Spring Assist

* Only Available with Pilot Source / Pilot Exhaust "0".
† Only Available with HA - 26mm.
§ Must Order Remote Pilot Access Plates for Manifolds.

Mounting

15407-2
VX Valve Less Base

15407-1
WX* Valve Less Base

* Use for Remote Pilot Operator Function

15407-2 Pilot Source / Pilot Exhaust

0*	None, Remote Pilot Valve
B**	**Internal Pilot, Port #1 / Vented**
L**†	External Pilot #14 Port / Vented

* Only Available with Overrides / Lights "0".
** Not Available with Overrides / Lights "0".
† Must be specified when using Sandwich Regulators.

15407-2 Overrides / Lights

0*	None, Remote Pilot Valve
G	**Non-Locking, Flush, Push - w/ Light**
H	Locking, Flush, Push / Turn - w/ Light

* Only Available with Voltage & Frequency "XX".

15407-2 Enclosure / Lead Length

0	**Valve Less Base or Remote Pilot**

15407-2 Voltage & Frequency

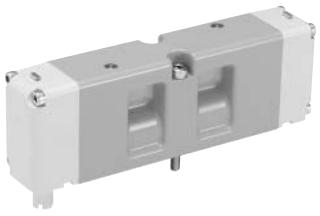
	AC		DC	Light & Surge Sup
	60Hz	50Hz		
B9*			24	LED & Sup
G9**			**24**	**LED & Sup**
23	**120**	**115**		**LED & Sup**
XX	Remote Pilot			

* End Caps are Blue color. Automotive.
** **End Caps are Gray color. Standard**

15407-2 Engineering Level

A	**Current**

L



BOLD OPTIONS ARE MOST POPULAR

Basic Series	Operator / Function	Mounting	Pilot Source / Pilot Exhaust	Overrides / Lights	Enclosure / Lead Length	Voltage & Frequency	Engineering Level
H1	**E**	**VX**	**B**	**G**	**0**	**B9**	**C**

5599-2 Basic Series

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

5599-2 Operator / Function

- **1 Single Solenoid, 2-Position - Air Return**
- **2 Double Solenoid, 2-Position**
- 3*§ Single Remote Pilot, 2-Position - Air Return
- 4*§ Double Remote Pilot, 2-Position
- **5 Double Solenoid, 3-Position - APB**
- **6 Double Solenoid, 3-Position - CE**
- 7 Double Solenoid, 3-Position - PC
- 8*§ Double Remote Pilot, 3-Position - APB
- 9*§ Double Remote Pilot, 3-Position - CE
- 0*§ Double Remote Pilot, 3-Position - PC
- **E Single Solenoid, 2-Position - Air Return, Spring Assist**
- F*§ Single Remote Pilot, 2-Position - Air Return, Spring Assist

* Only Available with Pilot Source / Pilot Exhaust "0".
§ Must Order Remote Pilot Access Plates for Manifolds.

Mounting

5599-2
VX Valve Less Base

5599-1
WX* Valve Less Base

* Use for Remote Pilot Operator Function

5599-2 Pilot Source / Pilot Exhaust

- 0 None, Remote Pilot Valve
- **B Internal Pilot, Port #1 / Vented**
- X* External Pilot #12 or #14 Port / Vented

* Must be specified when using Sandwich Regulators.

5599-2 Overrides / Lights

- 0 None, Remote Pilot Valve
- **B* Non-Locking, Flush, Push - w/o Light**
- C* Locking, Flush, Push / Turn - w/o Light
- **G** Non-Locking, Flush, Push - w/ Light**
- H** Locking, Flush, Push / Turn - w/ Light

* Apply to Voltage Codes "42", "45" & "57".
** Apply to Voltage Codes "B9" & "23".

5599-2 Enclosure / Lead Length

- **0 None, Remote Pilot Valve or Valve Less Base**

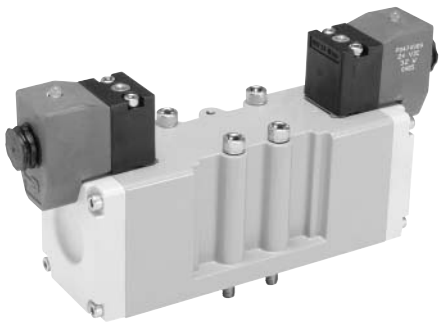
5599-2 Voltage & Frequency

	AC		DC	Light & Surge Sup
	60Hz	50Hz		
42	24			
45			12	
B9*			**24**	**LED & Sup**
23	**120**	**115**		**LED & Sup**
57	240			
XX	Remote Pilot			

* Solenoid is blue color.

5599-2 Engineering Level

- **C Current**



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BOLD OPTIONS ARE MOST POPULAR

Basic Series	Operator / Function	Mounting	Pilot Source / Pilot Exhaust	Overrides / Lights	Enclosure / Lead Length	Voltage & Frequency	Automotive Enclosure	Automotive Wiring Options	Engineering Level
H1	**E**	**WX**	**B**	**G**	**2**	**B9**	**000**	**F**	**C**

5599-1 Basic Series

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

5599-1 Operator / Function

- **1 Single Solenoid, 2-Position - Air Return**
- **2 Double Solenoid, 2-Position**
- **5 Double Solenoid, 3-Position - APB**
- **6 Double Solenoid, 3-Position - CE**
- 7 Double Solenoid, 3-Position - PC
- **E Single Solenoid, 2-Position - Air Return, Spring Assist**

5599-1 Mounting

- **WX Valve Less Base**

5599-1 Pilot Source / Pilot Exhaust

- **B Internal Pilot, Port #1 / Vented**
- X* External Pilot #12 or #14 Port / Vented

* Must be specified when using Sandwich Regulators.

5599-1 Overrides / Lights

- **B* Non-Locking, Flush, Push - w/o Light**
- C* Locking, Flush, Push / Turn - w/o Light
- **G** Non-Locking, Flush, Push - w/ Light**
- H** Locking, Flush, Push / Turn - w/ Light

* Apply to Voltage Codes "42", "45" & "57".
** Apply to Voltage Codes "B9" & "23".

5599-1 Enclosure / Lead Length

- **1** 3-Pin Mini Straight**
- **2*† 4-Pin M12 Micro Straight Connector**
- **3* 5-Pin Mini Automotive Straight Connector**

* Must specify Auto Wiring Option "C", "F", or "G".
** Operator Function "1" or "E"
† Voltage Code "B9" Only.

5599-1 Voltage & Frequency

	AC		DC	Light & Surge Sup
	60Hz	50Hz		
42	24			
45			12	
B9*			**24**	**LED & Sup**
23	**120**	**115**		**LED & Sup**
57	240			

* Solenoid is blue color.

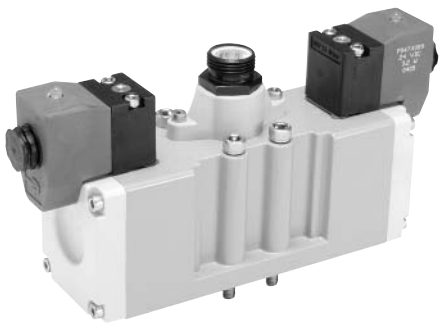
5599-1 Automotive Wiring Options

- C* Chrysler
- **F* SAE / Ford**
- G* General Motors

* Required with Enclosure "1", "2" & "3".

5599-1 Engineering Level

- **C Current**



BOLD OPTIONS ARE MOST POPULAR

Basic Series	Operator / Function	Mounting	Pilot Source / Pilot Exhaust	Overrides / Lights	Enclosure / Lead Length	Voltage & Frequency	Automotive Wiring Options	Engineering Level
H1	**E**	**WX**	**B**	**B**	**L**	**53**	**—**	**C**

5599-1 Basic Series

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

5599-1 Operator / Function

1	**Single Solenoid, 2-Position - Air Return**
2	**Double Solenoid, 2-Position**
5	**Double Solenoid, 3-Position - APB**
6	**Double Solenoid, 3-Position - CE**
7	Double Solenoid, 3-Position - PC
E	**Single Solenoid, 2-Position - Air Return / Spring Assist**

5599-1 Mounting

WX	**Valve Less Base**

5599-1 Pilot Source / Pilot Exhaust

B	**Internal Pilot, Port #1 / Vented**
X*	External Pilot #12 or #14 Port / Vented

* Must be specified when using Sandwich Regulators.

5599-1 Overrides / Lights

B	**Non-Locking, Flush, Push - w/o Light**
C	Locking, Flush, Push / Turn - w/o Light
G*	**Non-Locking, Flush, Push - w/ Light**
H*	Locking, Flush, Push / Turn - w/ Light

* Apply to Voltage Code 19 & Enclosure / Lead Length "6".

5599-1 Enclosure / Lead Length

6*	2-Pin M12 Euro Connector with CNOMO Operator
L	**3-Pin 30mm DIN 43650A with CNOMO Operator**

* Only available with Voltage / Wiring "19000FC".

5599-1 Voltage & Frequency

	AC		DC
	60Hz	50Hz	
19*			24
42	24	24	
45			12
49			**24**
53	**120**	**120**	
57	240		

* LED & Surge Suppression. Only Available with Enclosure "6".

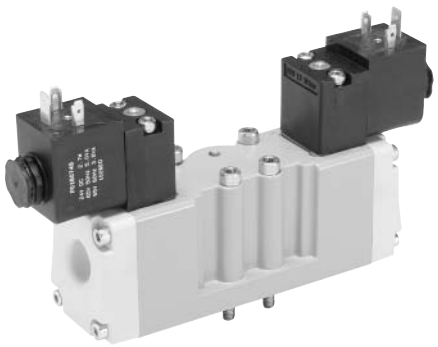
5599-1 Automotive Wiring Options

Blank	**None**
000F*	SAE / Ford

* Required with Enclosure "6" Only.

5599-1 Engineering Level

C	**Current**



BOLD OPTIONS ARE STOCKED

Basic Series	Operator / Function	Mounting / Base Style	Mounting	Pilot Source / Pilot Exhaust	Overrides / Lights	Enclosure / Lead Length	Voltage & Frequency	Automotive Connector Wiring Options	Engineering Level
H4	**1**	**V**	**X**	**B**	**G**	**0**	**53**	**–**	**A**

Basic Series

H4 ISO Size 4

Mounting / Base Style

V	**Valve Less Base: 5599-2**
W	**Valve Less Base: 5599-1**

Pilot Source / Pilot Exhaust

0	None, Remote Pilot Valve
B	**Internal, Port #1 / Vented & Single Remote Pilot**
L	External, Pilot #12 / Vented
P*	External, Pilot #14 / Vented

* Not available with Mounting/Base Style "6".

Engineering Level

A	Current

Automotive Connector Wiring Options

Blank	**None**
C*	Chrysler, Top Cover
F*	SAE / Ford, Top Cover
G*	General Motors, Top Cover

* Used for Enclosure "1", "2", "3" & "6".

Mounting

X	**Valve Less Base**

Overrides / Lights

0	None, Remote Pilot Valve or CNOMO interface Less Operator
B	**Flush, Non-Locking**
C	Flush, Locking
G*	**Flush, Non-Locking / Lighted**
H*	Flush, Locking / Lighted

* Available with Voltage "B9", "19", "49", & "53".

Operator / Function

1	**Single Solenoid, 2-Position - Air Return**
2	**Double Solenoid, 2-Position**
3	Single Remote Pilot, 2-Position - Air Return
4	Double Remote Pilot, 2-Position
5	Double Solenoid, 3-Position - APB
6	Double Solenoid, 3-Position - CE
7	Double Solenoid, 3-Position - PC
8	Double Remote Pilot, 3-Position - APB
9	Double Remote Pilot, 3-Position - CE
0	Double Remote Pilot, 3-Position - PC

Enclosure / Lead Length

5599-2 Plug-In

0	None, Remote Pilot Valve, or Valve less Base

5599-1 AUTO Connectors

1*	3-Pin Mini Straight Connector
2**	4-Pin M12 Micro Straight Connector
3	5-Pin Mini Straight Connector

5599-1 CNOMO Connectors

6††	2-Pin M12 Micro Connector with CNOMO Operator
L†	3-Pin 30mm DIN 43650A with CNOMO Operator
N	CNOMO Mounting – No Operator
P†	3-Pin 22mm DIN Industrial with CNOMO Operator

* Operator / Function "1" Single Solenoid Only.
** Voltage "B9" Only.
† Only Available with Override "B" & "C", and Voltage "42", "45", "49", "53" & "57".
†† Only Available with Override "G", Voltage "19", and Wiring Option "000FA".

Voltage & Frequency

	AC 60Hz	AC 50Hz	DC	Override/ Light
5599-2 / 5599-1 AUTO				
B9*			24	G, H
49			24	G, H
53	120	110		G, H
XX	Remote Pilot Valve			
5599-1 CNOMO				
19†			24	G, H
49			24	B, C
53	120	110		B, C
XX	Remote Pilot Valve or CNOMO Mounting - No Operator			

* LED / Surge Suppression / Low Watt / Blue Coil.
† LED / Surge Suppression / Low Watt

Parker Pneumatic

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
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Manifold and Subbase Kit Ordering Code

Basic Series	Mounting Style / Port Size	Enclosures / Lead Length	Factory Designator
PS5511	13	C	P

Basic Series

PS5611	**ISO 15407-2 18mm, HB**
PS5511	**ISO 15407-2 26mm, HA**

Mounting Style / Port Size

13* Subbase with 1/4 NPT Side Ports
14* Subbase with 1/4 BSPP Side Ports
23* Subbase with 1/4 NPT Bottom / Side Port
24* Subbase with 1/4 BSPP Bottom / Side Port
51† Manifold with 1/8 NPT Side Ports
52† Manifold with 1/8 BSPP End Port
53* Manifold with 1/4 NPT End Port
54* Manifold with 1/4 BSPP End Port
61† Manifold with 1/8 NPT Bottom / End Port
62† Manifold with 1/8 BSPP Bottom / End Port
63* Manifold with 1/4 NPT Bottom / End Port
64* Manifold with 1/4 BSPP Bottom / End Port

* Available with 26mm, PS5511.
† Available with 18mm, PS5611.

Enclosures / Lead Length

0† None, Remote Pilot
C† Terminal Strip
J* Single Address Circuit Board
M* Double Address Circuit Board
N*§ Single Address Circuit Board with 32 Output Expansion

* Manifolds Only.
† Available with 26mm.
§ 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 single address bases. 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.

Subbase Kits

HA Series Subbase

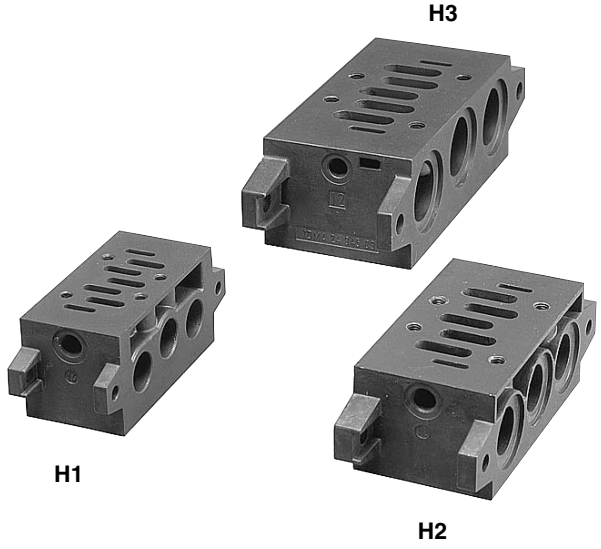
Manifold Kits

HB Series Manifold

HA Series Manifold

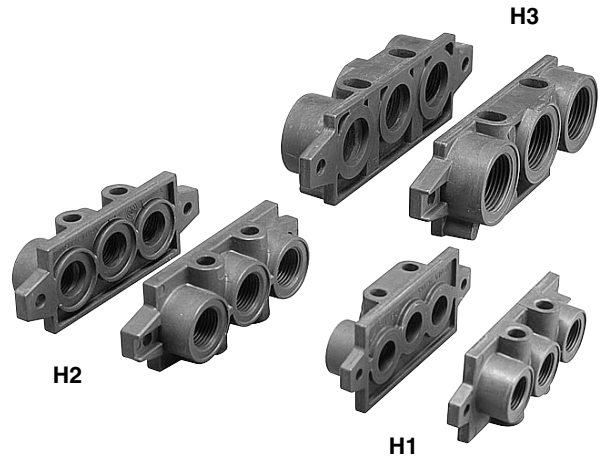
VDMA Manifolds

VDMA Form C Bottom Port



Series	Port Size	BSPP "G"
H1	1/4"	P2N-VM512MB
H2	3/8"	P2N-WM513MB
H3	1/2"	P2N-YM514MB

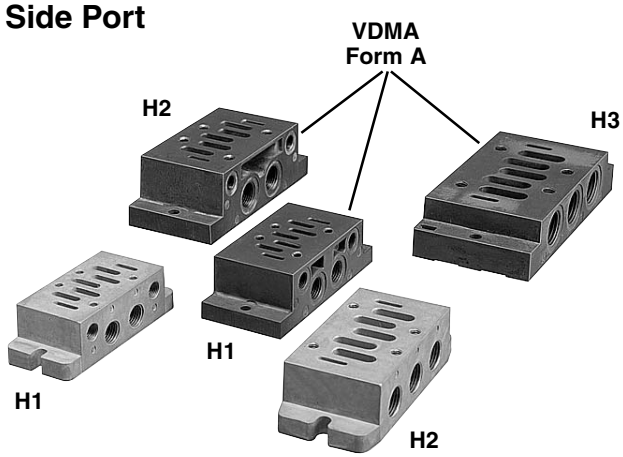
VDMA Form D End Plates



Series	Port Size	BSPP "G"
H1	3/8"	P2N-VM513E
H2	1/2"	P2N-WM514ES
H3	1"	P2N-YM518ES

Subbases

Side Port



Series	Port Size	NPT	BSPP "G"
H1	1/4"	**P2N-GS592SD**	P2N-GS512SD
VDMA	1/4"	—	P2N-VS512SD
H2	3/8"	**P2N-HS593SS**	P2N-HS513SS
VDMA	3/8"	—	P2N-WS513S
H3 VDMA	1/2"	—	P2N-YS514SD

L

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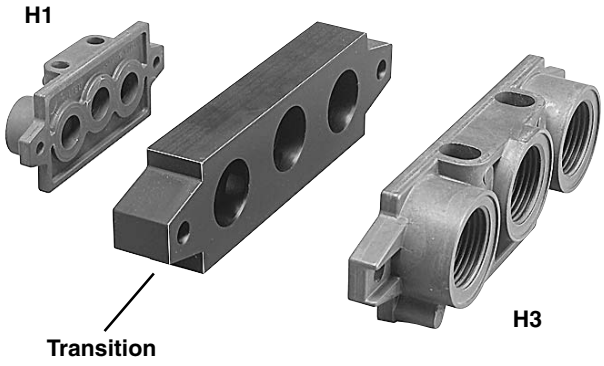
VDMA Transition Plate

Size	Kit Number
H1 to H3	**P2N-VM500AK**

Kit includes: Transition Plate Only.

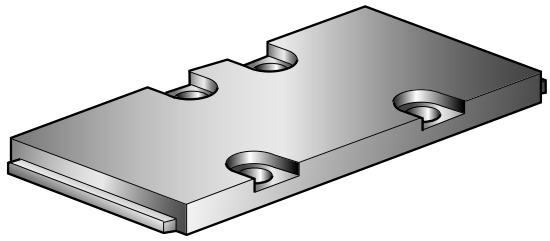
- Order P2N-VM513ES and P2N-YM518ES separately to assemble add-a-fold.



VDMA Blanking Plate

Size	Kit Number
H1	**P2N-AA5B**
H2	**P2N-BA5B**
H3	**P2N-CA5B**

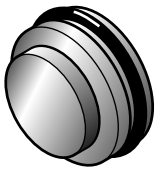
Kit includes: (1) Blanking Plate, (1) Gasket, and (4) Mounting Bolts.



VDMA Isolation Plugs - Main Galley

Size	Kit Number
H1	**P2N-VK0P**
H2	**P2N-WK0P**
H3	**P2N-YK0P**

Kit includes: (1) Isolator Plug.



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Manifold and Subbase Kit Ordering Code

Basic Series	Mounting Base Style / Port Size	Enclosures / Lead Length	Wiring Options	Engineering Level	Factory Designator
H1 **PS4011**	**55**	**A**	**—**	**C**	**P**
H2 **PS4111**					
H3 **PS4211**					

Enclosures / Lead Length

0	**None, No Electrical Plug - 5599-1**
7†	3-Pin Mini Connector in Base
8*†	4-Pin M12 Micro Connector in Base
9†	5-Pin Mini Connector in Base
A	**6" Leads**
C	Terminal Block
J‡	Circuit Board, Single Address
M‡	**Circuit Board, Double Address**
T*	SAM Gen 3.0 Wiring

* Valve Voltage Code "B9" Only.
† Must Specify Valve Auto Wiring Option "C", "F", or "G".
‡ Not Available with Subbase Kits.

Wiring Options

Blank	**None**
C	Chrysler
F	**SAE / Ford**
G	General Motors

Engineering Level

C	Current

Note:
When using the Enclosure / Lead Length "J" or "M" option:
12VDC - maximum number of coils is 13
24VDC - maximum number of coils is 21
120VAC - Coils limited by the number of pins available in the connector (25-Pin D-Sub = 24 coils, 19-Pin Brad Harrison = 16, 12-Pin M23 = 8)
240VAC - Must use "A" or "C" Option, Lead Wires or Terminal Blocks

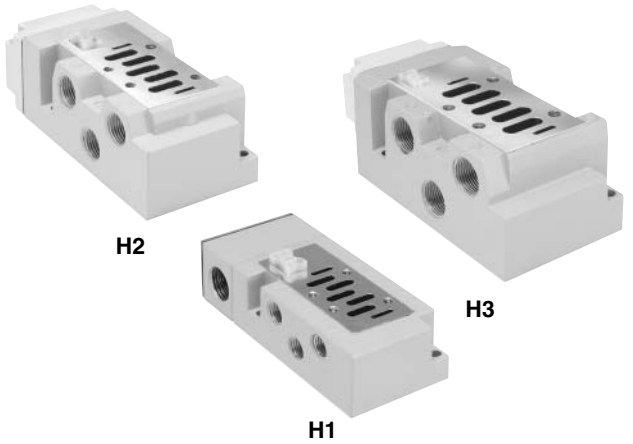
Mounting Base Style / Port Size

H1	H2	H3
15 Subbase: 3/8 NPT Side Ports	**17 Subbase: 1/2 NPT Side Ports**	**19 Subbase: 3/4 NPT Side Ports**
16* Subbase: 3/8 BSPP Side Ports	18* Subbase: 1/2 BSPP Side Ports	10* Subbase: 3/4 BSPP Side Port
53 Manifold: 1/4 NPT, End Ports	55 Manifold: 3/8 NPT, End Ports	29 Subbase: 3/4 NPT Bottom / Side Port
54 Manifold: 1/4 BSPP, End Ports	56* Manifold: 3/8 BSPP, End Ports	57 Manifold: 1/2 NPT End Port
55 Manifold: 3/8 NPT, End Ports	**57 Manifold: 1/2 NPT End Port**	58* Manifold: 1/2 BSPP, End Ports
56* Manifold: 3/8 BSPP, End Ports	58* Manifold: 1/2 BSPP, End Ports	**59 Manifold: 3/4 NPT End Port**
65† Manifold: 3/8 NPT Bottom / End Port	67 Manifold: 1/2 NPT Bottom / End Port	50 Manifold: 3/4 BSPP End Port
66*† Manifold: 3/8 BSPP Bottom / End Port	68* Manifold: 1/2 BSPP Bottom / End Port	69 Manifold: 3/4 NPT Bottom / End Port
		60* Manifold: 3/4 BSPP Bottom / End Port

* BSPP ISO 1179 Specifications.
† #1 Bottom Port - 1/4".

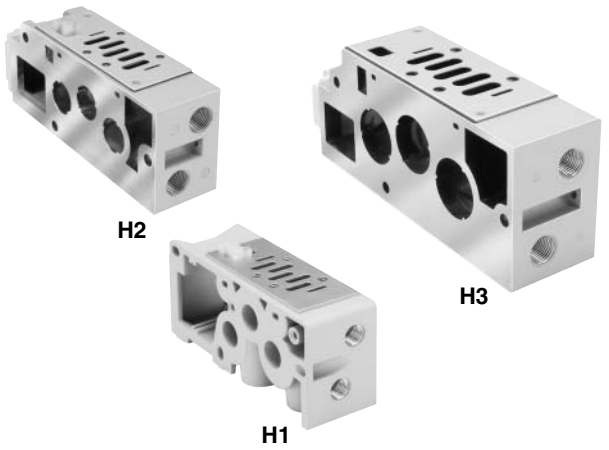
L

Subbase Kits



Automotive Connectors
Mounted in 1/2" Conduit Port
- *3-Pin - Wired for Single Solenoid*
- *4-Pin / 5-Pin - Wired for Double Solenoid*

Manifold Kits



Automotive Connectors
Mounted in Individual Manifold Conduit Cover
- *3-Pin - Wired for Single Solenoid*
- *4-Pin / 5-Pin - Wired for Double Solenoid*

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Manifold and Subbase Kit Ordering Code

Basic Series	Mounting Base Style	Port Size / Thread Type	Enclosures / Lead Length	Factory Designator
PS43	**1**	**9**	**A**	**P**

Mounting Base Style

1	**Subbase, Side Port**
2	Subbase, Bottom / Side Port
6	**Manifold, Bottom / End Port**

Port Size / Thread Type

9	**3/4" NPT**
0	**3/4" BSPP "G"**

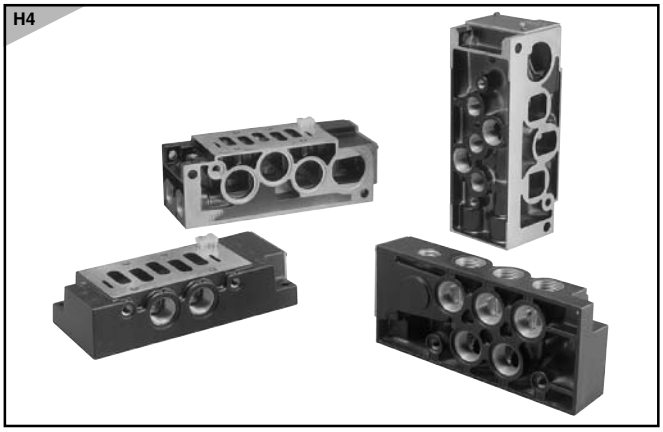
Enclosures / Lead Length

0	None, No Electrical Plug
A	6" Leads

Factory Designator

P	**Current**

H4



Mounting / Base Style H4

1 *#1, #2, #3, #4, and #5 Side Ports Tapped 3/4";*
#12 & #14 Side Pilot Ports Tapped 1/8"

2 *#1, #2, #3, #4, and #5 Bottom Ports Tapped 3/4";*
#1, #2, #3, #4, and #5 Side Ports Tapped 1/2";
#12 & #14 Bottom Pilot Ports Tapped 1/8"

6 *#2 and #4 End Ports Tapped 3/4";*
#2 and #4 Bottom Ports Tapped 3/4";
#1, #3 and #5 Bottom Ports Tapped 1/2";
#12 & #14 Bottom Pilot Ports Tapped 1/8"

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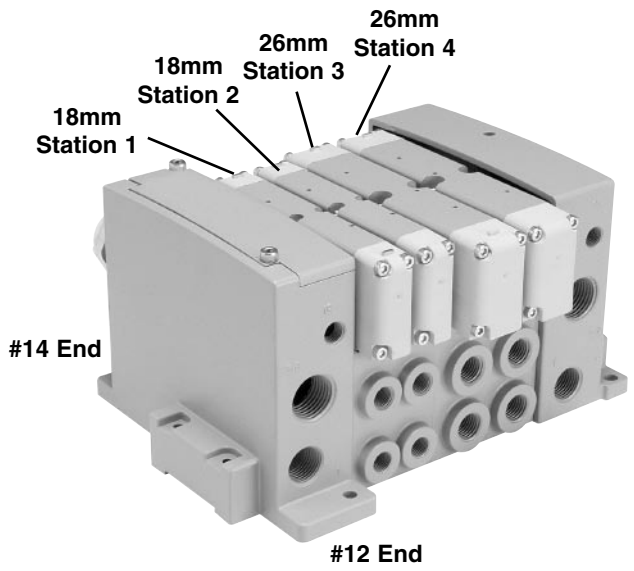
How To Order Add-A-Fold Assemblies

1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List complete Valve, Regulator, Flow Control and Base model number. List left to right, LOOKING AT THE CYLINDER PORTS on the #12 end of the manifold. The left most station is station 1.

   (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)



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

Maximum Solenoids Energized Simultaneously (Interconnect Circuit Boards)

HA / HB	Voltage Code	25-Pin D-Sub	19-Pin Round	Single 12-Pin M23	isysnet
24VDC	B9 / G9	24	16	8	32
120VAC*	23	24	16	8	32

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

L

Add-A-Fold Assembly Model Number

	Valve Series	End Plate Type	Port Type	Number of Stations
AA	HB	D	0	04

Valve Series

HB*	**Right & Left End Plate**

* Common End Plates for HA & HB.

End Plate Type

D	**25-Pin**
E	**19-Pin**
F	16 Point Terminal Strip
G	M23, 12-Pin
S†	**Standard - Non-Collective Wiring**
Y*	**isysnet**

* Valve Driver Module included. Must order serial modules separately.
† Available with HA (26mm) Valves Only and Terminal Strip Manifold Bases.

Port Type

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

Number of Stations*

02
04
•
25**
•
32†

* Must be ordered in multiples of (2).
† Maximum Number.
** Must use "N" Enclosure Lead Length on the 25th Output and Single Address (J) Bases there after.

Example

Application requires a 4-Station manifold with a regulator on Station 2.

(Two 18mm + Two 26mm Stations)

Item	Qty.	Part No.	
01	1	AAHBD004	
02	1	HB1VXBG0G9A	Station 1
03	1	HB2VXLG0G9A	Station 2
04	1	PS5638166P	Station 2
05	1	PS561151MP	Station 1 & 2
06	2	HA1VXBG0G9A	Station 3 & 4
07	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.

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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, 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.)

Maximum Solenoids Energized Simultaneously (Interconnect Circuit Boards)

H1	Voltage Code	25-Pin D-Sub	19-Pin Round	Single 12-Pin M23	isysnet	SAM 3.0
12VDC	45	13	13	8	N/A	N/A
24VAC*	42	24	16	8	N/A	N/A
24VDC	B9	20	16	8	21	4
120VAC*	23	24	16	8	N/A	N/A

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

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

Add-A-Fold Assembly Model Number

	Valve Series	End Plate Type	Port Type	Number of Stations	Transition Plate
AA	H1	D	0	03	—

Valve Series

H1 Right & Left End Plate

End Plate Type

D†	25-Pin
E†	19-Pin
G†	M23, 12-Pin
S	Standard - Non-collective Wiring
X*	isysnet
V	VDMA

* Valve Driver Module included. Must order communication modules separately.
† Collective Wiring Module Included.

Port Type

0	NPT
1	BSPP "G"

Number of Stations

01
02
03
04
•
•
21

Transition Plate

Blank	No Transition Plate
C	H1 to H2
D	H1 to H3

Example

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

Item	Qty.	Part No.	
01	1	AAH1E003	
02	2	H12VXBG0B9C	Station 1 & 2
03	2	PS401165MCP	Station 1 & 2
04	1	H11VXXG0B9C	Station 3
05	1	PS4038166CP	Station 3
06	1	PS4035CP	Station 3
07	1	PS401165MCP	Station 3

NOTE: When using the Enclosure / Lead Length "J" or "M" option:
12VDC - maximum number of coils is 13.
24VDC - maximum number of coils is 20.
120VAC - Coils limited by the number of pins available in the connector.
(25-Pin D-Sub = 24 coils, 19-Pin Brad Harrison = 16,| 12-Pin M23 = 8).
240VAC - Must use "A" or "C" option, lead wires or terminal blocks.

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.

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How To Order Add-A-Fold Assemblies

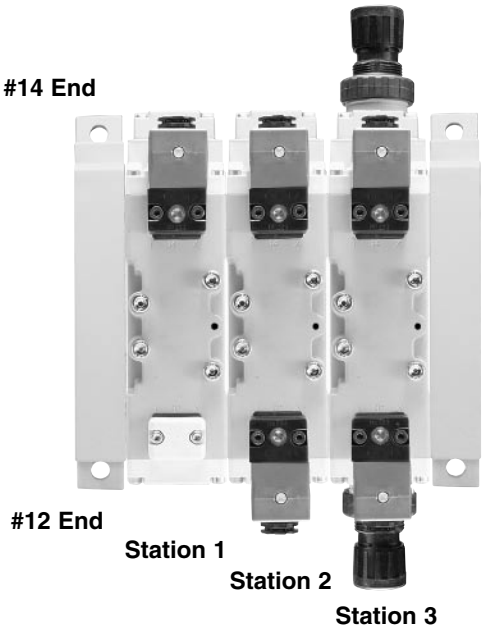
1. List Add-A-Fold Assembly call out. This automatically includes the end plate kit assembly.
2. List complete Valve, Regulator, Flow Control and Base model number. List left to right, LOOKING AT THE CYLINDER PORTS on the #12 end of the manifold. The left most station is station 1.

   (If a blank station is needed, list the blanking plate part number and the individual manifold number in the station specified.)

Maximum Solenoids Energized Simultaneously (Interconnect Circuit Boards)

H2 / H3	Voltage Code	25-Pin D-Sub	19-Pin Round	Single 12-Pin M23	isysnet	SAM 3.0
12VDC	45	13	13	8	N/A	N/A
24VAC*	42	24	16	8	N/A	N/A
24VDC	B9	20	16	8	21	4
120VAC*	23	24	16	8	N/A	N/A

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



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

L

Add-A-Fold Assembly Model Number

	Valve Series	End Plate Type	Port Type	Number of Stations	Transition Plate
AA	H2	D	0	03	—

Valve Series
- H2 Right & Left End Plate
- H3 Right & Left End Plate

End Plate Type
- D† 25-Pin
- E† 19-Pin
- G† M23, 12-Pin
- S Standard - Non-collective Wiring
- Y* isysnet
- V VDMA

* Valve Driver Module included. Must order communication modules separately.
† Collective Wiring Module Included.

Port Type
- 0 NPT
- 1 BSPP "G"

Number of Stations
- 01
- 02
- 03
- 04
- •
- •
- 21

Transition Plate
- Blank No Transition Plate
- E* H2 to H3

* Use largest size (H3) number. Not available with Type V.

Example

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

Item	Qty.	Part No.	
01	1	AAH2E003	
02	2	H22VXBG0B9C	Station 1 & 2
03	2	PS411157MCP	Station 1 & 2
04	1	H21VXXG0B9C	Station 3
05	1	PS4138166CP	Station 3
06	1	PS4135CP	Station 3
07	1	PS411157MCP	Station 3

NOTE: When using the Enclosure / Lead Length "J" or "M" option:
12VDC - maximum number of coils is 13.
24VDC - maximum number of coils is 20.
120VAC - Coils limited by the number of pins available in the connector.
(25-Pin D-Sub = 24 coils, 19-Pin Brad Harrison = 16,| 12-Pin M23 = 8).
240VAC - Must use "A" or "C" option, lead wires or terminal blocks.

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.

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End Plate Kits

HB HA

Basic Series	End Plate Kit Type	Option	Thread Type	Factory Designator
PS56	20	01	0	P

End Plate Kit Type

20	End Plate - Collective Wiring
31	End Plate - Non-Collective Wiring

Thread Type

0	NPT or No Ports
1	G (BSPP)

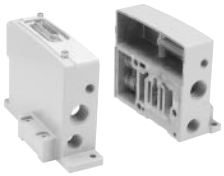
Basic Series

PS56	ISO 15407, Size HB, 18mm & HA, 26mm

Option

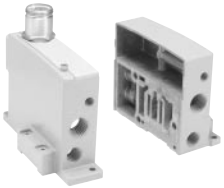
01*	Non-Collective Wiring
L2†§#	25-Pin, D-Sub
L3†#	19-Pin, Round, Brad Harrison
L4†#	12-Pin, M23
L5†#	16-Point Terminal Strip
L6†‡#	isysnet

* Only Available with End Plate Kit Type "31" & HA Valves.
† Only Available with End Plate Kit Type "20".
§ 120VAC is not CSA rated.
‡ Valve Driver Module Installed. Must order communication modules separately.
# Must Order Bases with Circuit Boards.

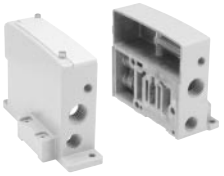


HB - HA 25-Pin

HB - HA 16-Point Terminal Strip



HB - HA 19-Pin



HB - HA Non-Collective Wiring End Plates

H1 H2 H3

Basic Series	End Plate Kit Type	Option	Thread Type	Engineering Level	Factory Designator
PS40	20	L2	0	C	P

End Plate Kit Type

20	End Plate - Collective Wiring
31	End Plate - Non-Collective Wiring

Thread Type

0	NPT or No Ports
1	G (BSPP)

Engineering Level

C	Current

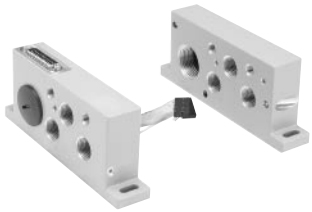
Basic Series

PS40	ISO 5599, Size 1
PS41	ISO 5599, Size 2
PS42	ISO 5599, Size 3

Option

01*	Non-Collective Wiring
L1†¤**	Collective Wiring End Plate, Top Ported
L2†#+	25-Pin, D-Sub
L3†+	19-Pin, Round, Brad Harrison
L4†+	12-Pin, M23
L6^+	isysnet

* Only Available with End Plate Kit Type "31".
** For PS41 and PS42 Kits Only.
† Only Available with End Plate Kit Type "20".
¤ Must Order Collective Wiring Module or Valve Driver Module Separately.
120VAC is Not CSA Rated.
^ Valve Driver Module Installed. Must order communication modules separately.
+ Must Order Bases with Circuit Boards.



H1 25-Pin D-Sub End Plates

H1 Non-Collective Wiring End Plates

H1 19-Pin Round End Plates

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Transition Plate Kits

H1 H2 H3

Basic Series	Transition Plate Type	Option	Thread Type	Engineering Level	Factory Designator
PS40	26	L2	0	C	P

Transition Plate Type	
25	H1 to H2 to H3
26	H1 to H3
27	H1 to H2
28	H2 to H3

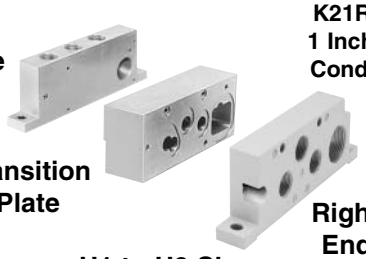
Option	
01	Non-Collective Wiring
L1*	Collective Wiring End Plate, Top Ported
L2	25-Pin, D-Sub
L3	19-Pin, Round, Brad Harrison
L4	12-Pin, M23
L6	isysnet

* Used Only with Transition Plate Type "28". Must Order Collective Wiring Modules Separately.

Thread Type	
0	NPT or No Ports
1	G (BSPP)

Engineering Level	
C	Current

K21R01100P
1 Inch Plastic Conduit Plug



H1 to H2 Shown

L

Collective Wiring Module Kits Size 2 & 3

Size	Kit Number
25-Pin, D-Sub Module*†	**SCD251MC**
M23, 12-Pin*†	**SCM231MC**
19-Pin Heavy Duty Round*†	**SCC191MC**
D-Sub Cable, Non-IP, 3 Meters	**P8LMH25M3A**
D-Sub Cable, IP65, 3-Meter	**SCD253W**

*** Kit includes:** Wiring Module with Circuit Board Connection, Gasket, Tie Rods and Bolts.

†Available with "H" Series, ISO 5599-2, Sizes 2 & 3.

25-Pin, D-Sub Collective Wiring Module

19-Pin Heavy Duty Wiring Module

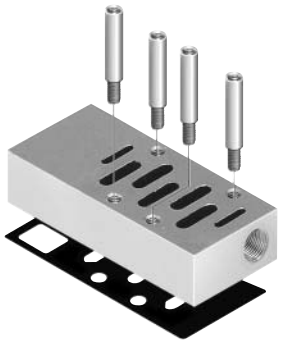
HB, HA, H1, H2, H3 25-Pin, D-Sub Cable

Remote Pilot Access Plate Kits

Size	Port Size	Kit Number	
		NPT	BSPP "G"
HA	1/8"	PS551500P	PS551501P
H1	1/8"	PS401500CP	PS401501CP
H2	1/8"	PS411500CP	PS411501CP
H3	1/8"	PS421500CP	PS421501CP

Kit includes: Pilot Port Access Plate, Gasket and Mounting Studs.

- Provides access to #12 & #14 valve pilot galleys for an HA, H1, H2 & H3 manifold.
- Required for Single or Double Remote Pilot Valve on a manifold.
- Not required with Single Subbase mounting.
- Height: H1- 18mm (.71"); H2- 22mm (.85"); H3- 24mm (.94")

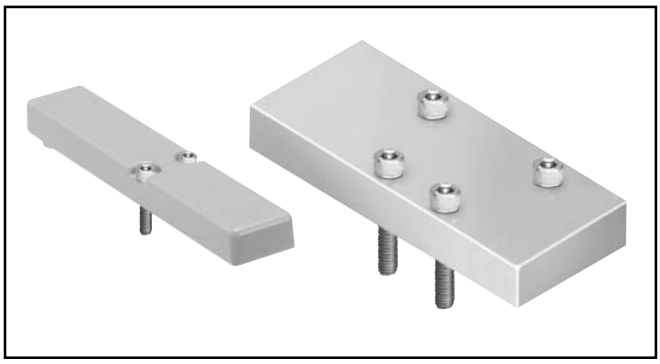


H2, H3 5599-2 Shown

Blanking Plate Kits

Size	Kit Number
HB	PS5634P
HA	PS5534P
H1	PS4034CP
H2	PS4134CP
H3	PS4234CP
H4	PS1479P

Kit includes: Blanking Plate, Gasket, and Mounting Bolts.



Manifold Port Isolation Kits

Main Galley (1, 3, 5)

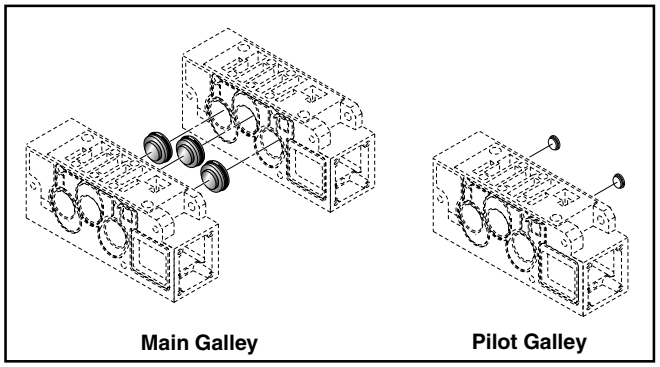
Size	Kit Number
H1	PS4032CP
H2	PS4132CP
H3	PS4232CP

Kit includes: Plugs with O-rings.

Pilot Galley

Size			Kit Number
H1	H2	H3	PS4033CP

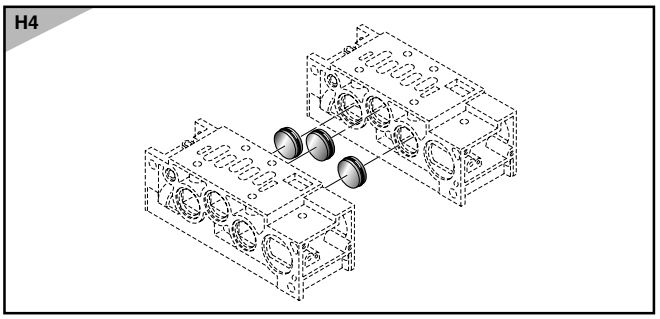
Kit includes: Plugs with O-rings.



Main Galley (1, 3, 5)

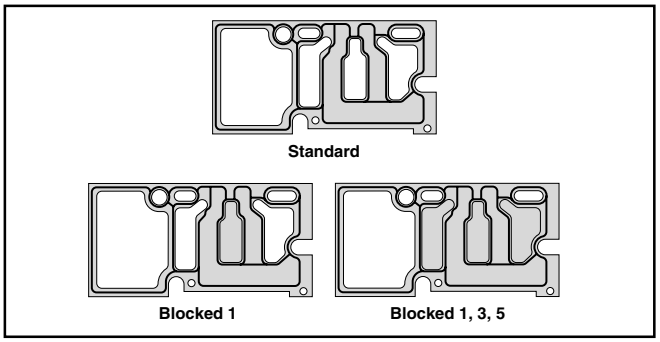
Size	Kit Number
H4	PS1419BP

Kit includes: Plugs with O-rings.



Manifold to Manifold Gasket Kits

Size	Standard	Blocked #1 Port	Blocked #1, 3, 5 Ports
HB HA	PS561AP	PS561BP	PS561CP



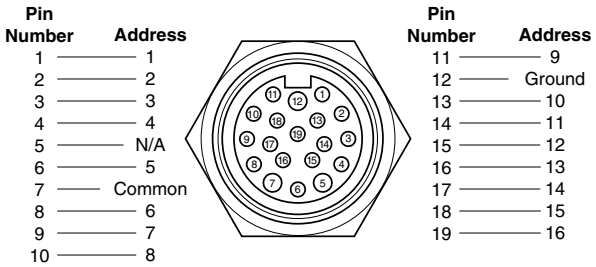
Maximum Solenoids Energized Simultaneously (Interconnect Citcuit Boards)

HA / HB	Voltage Code	25-Pin D-Sub	19-Pin Round	Single 12-Pin M23	isysnet
24VDC	B9 / G9	24	16	8	32
120VAC*	23	24	16	8	32

H1 / H2 / H3	Voltage Code	25-Pin D-Sub	19-Pin Round	Single 12-Pin M23	isysnet	SAM 3.0
12VDC	45	13	13	8	N/A	N/A
24VAC*	42	24	16	8	N/A	N/A
24VDC	B9	20	16	8	21	4
120VAC*	23	24	16	8	N/A	N/A

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

19-Pin Round Brad Harrison



Face View - Male 19-Pin Connector

19-Pin Round Cable Specifications

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

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

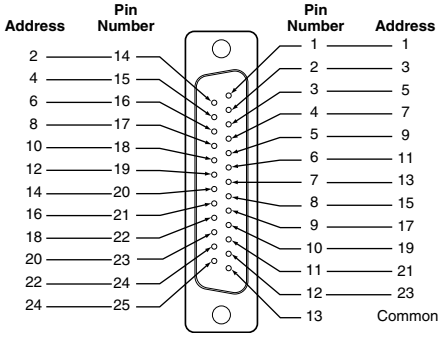
NEMA 4 rated with properly assembled NEMA 4 rated cable.

Female Cable Assemblies:

Refer to www.connector.com

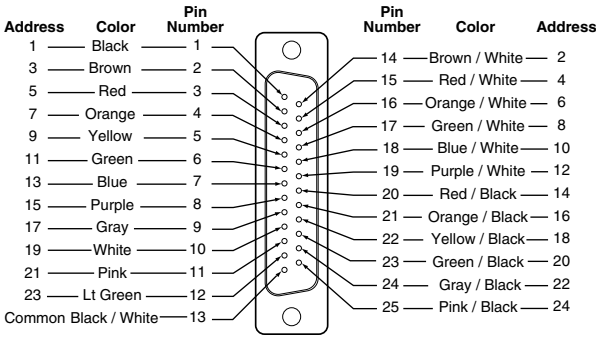
Brad Harrison #333030P80M050	16.40 ft. (Female to Male Cable)
Brad Harrison #333030P80M0100	32.80 ft. (Female to Male Cable)

25-Pin, D-Sub Connector (Male)



Face View - Male D-Sub, 25-Pin Connector

25-Pin, D-Sub Cable (Female)

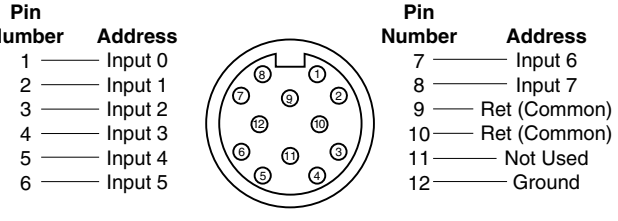


25-Pin, D-Sub Cable Specifications

Common Pin “13” is rated for 3 amps. Common wire rating must be greater than total amperage of all solenoids on a Add-A-Fold assembly.

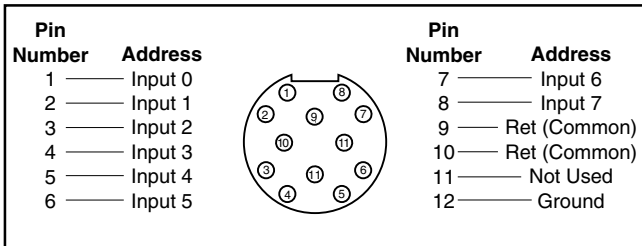
IP65 rated with properly assembled IP65 rated cable.

M23, 12-Pin Round Connector (Male)



Face View - Male M23, 12-Pin Connector

M23, 12-Pin Round Connector (Female)



Face View - Female M23, 12-Pin Connector

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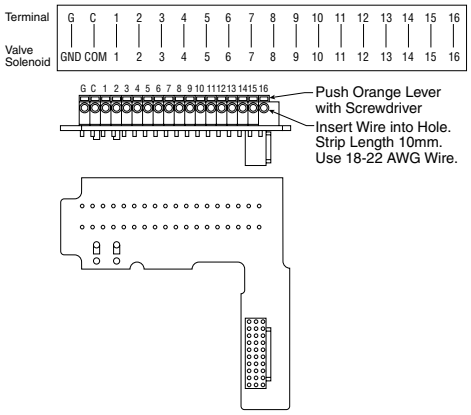
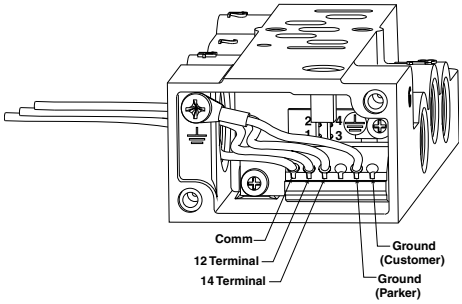
16-Point Terminal Strip



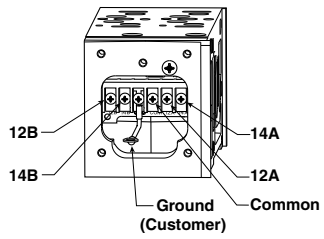
Subbase Wiring



Connections

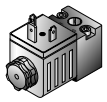
	14 Solenoid	12 Solenoid
Valves with Wires	Black Wires	Red Wires
Valves with Terminal Block (Will accept 18 to 24 Gauge Wires)	14 and Com Terminals	12 and Com Terminals

Manifold Wiring

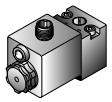


Electrical Connectors – Size 1, 2 & 3

5599-1 CNOMO

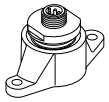


30mm 3-Pin ISO 4400 (DIN 43650A)



2-Pin M12 Euro

5599-1 AUTO

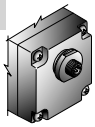


4-Pin Micro

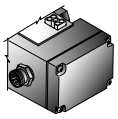
3-Pin Mini

5-Pin Mini

5599-2



Manifold Auto Connector



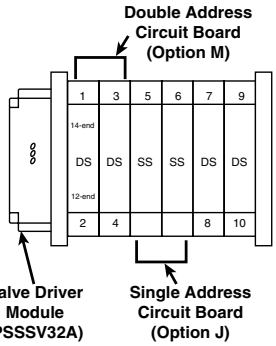
Subbase Auto Connector

90° Cord Sets:

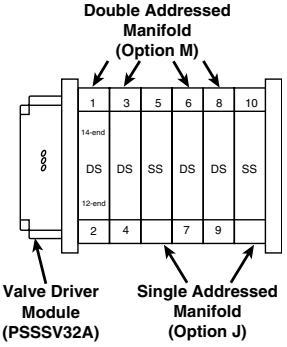
Refer to www.connector.com

4-Pin (Micro): Brad Harrison 884031A09M030 (3 Meter)
5-Pin (Mini): Brad Harrison 115021A01F010 (1 Foot)

I/O Addressing Examples



HB & HA Example:
Two Station Manifold Bases



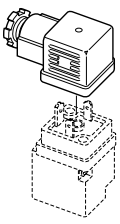
H1, H2 & H3 Example:
Single Station Manifold Bases

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

Female Electrical Connectors (IP65 Rated)

30mm 3-Pin ISO 4400 (DIN 43650A)

Connector	Connector with 6' (2m) Cord	Description
PS2028CP	PS2028JCP	Unlighted
PS203279CP	PS2032J79CP*	Light – 6-48V, 50/60Hz; 6-48VDC
PS203283CP	PS2032J83CP*	Light – 120V/60Hz
PS203283CP	N/A	Light – 240V/60Hz



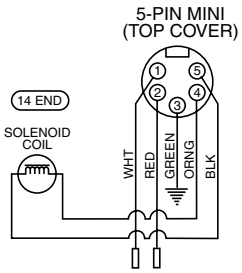
* With surge suppression.

Engineering Data:
Conductors: 2 Poles Plus Ground; Cable Range (Connector Only): 8 to 10mm (0.31 to 0.39 Inch); Contact Spacing: 18mm

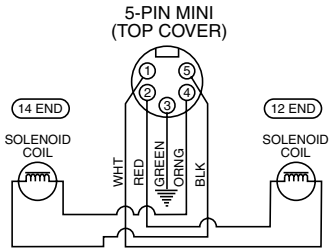
Automotive Connection – Wiring Options

'C' Chrysler Connection

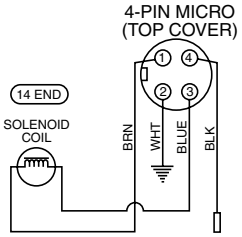
5-Pin Male / Single Solenoid
(Encl. Option 3, Auto Option C)



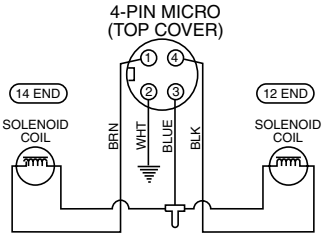
5-Pin Male / Double Solenoid
(Encl. Option 3, Auto Option C)



4-Pin Male / Single Solenoid
(Encl. Option 2, Auto Option C)

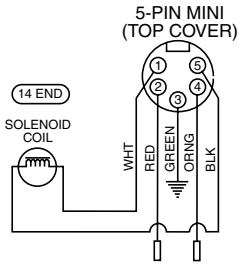


4-Pin Male / Double Solenoid
(Encl. Option 2, Auto Option C)

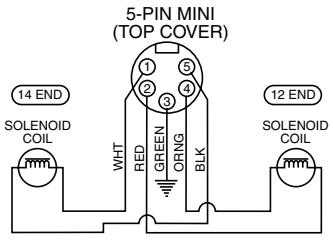


'F' SAE / Ford Wiring

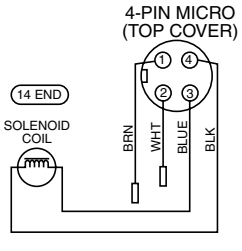
5-Pin Male / Single Solenoid
(Encl. Option 3, Auto Option F)



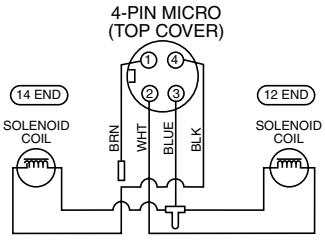
5-Pin Male / Double Solenoid
(Encl. Option 3, Auto Option F)



4-Pin Male / Single Solenoid
(Encl. Option 2, Auto Option F)

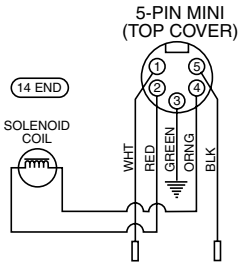


4-Pin Male / Double Solenoid
(Encl. Option 2, Auto Option F)

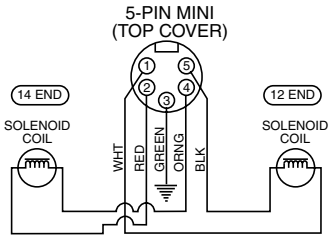


'G' GM Wiring

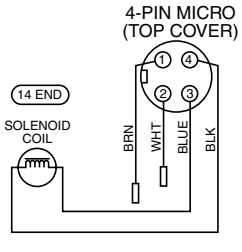
5-Pin Male / Single Solenoid
(Encl. Option 3, Auto Option G)



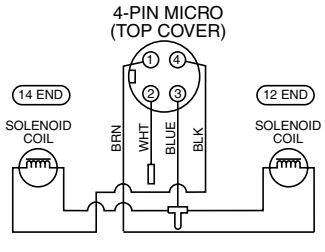
5-Pin Male / Double Solenoid
(Encl. Option 3, Auto Option G)



4-Pin Male / Single Solenoid
(Encl. Option 2, Auto Option G)

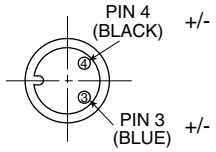


4-Pin Male / Double Solenoid
(Encl. Option 2, Auto Option G)

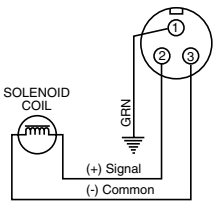


CNOMO Connection - Wiring Options

2-Pin Male / Single Solenoid
(Encl. Option 6, Auto Option F)



3-Pin Male / Single Solenoid
(Encl. Option 1, Auto Options C, F & G)



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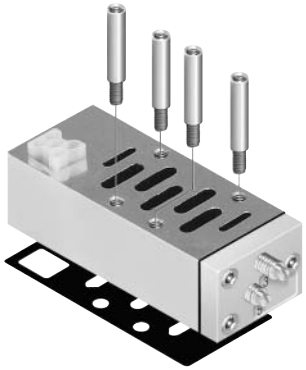
Sandwich Flow Controls Features

- Both adjustment screws are located on the 12 end of the unit.
- Sandwich Flow Control mounts with its own studs, which means the valve uses standard bolts for mounting.
- Sandwich Flow Control is not to be used as a shut off device and is not bubble tight when needles are fully turned down.

Plug-In
15407-2
18mm Shown

Size	Plug-In 15407-2	Non Plug-In 15407-1
HB	PS5635P	PS5642P
HA	PS5535P	PS5542P
Size	**Plug-In 5599-2**	**Non Plug-In 5599-1**
H1	PS4035CP	PS4042CP
H2	PS4135CP	PS4142CP
H3	PS4235CP	PS4242CP



Plug-In
5599-2
Size 2 Shown

Non Plug-In
5599-1
Size 2 Shown

A Sandwich Flow Control and Common Port Sandwich Regulator may be sandwiched together on a manifold or subbase. The Sandwich Flow Control MUST be located between the manifold / subbase and the Common Port Sandwich Regulator.

Features

- Remote Air Pilot Operated for hard-to-reach pressure control.
- Unregulated Pilot Pressure to valve for consistent valve shifting regardless of pressure adjustment.

Gauge Adapter Kit

Included with all HB Regulators. Both Kits are required on all HA & HB Regulators when the Regulator is on the last Station on the Right (14) End.

Description	Part Number
Gauge Kit	PS5651160P
1/8" Female to 1/8" Female Coupling	207P-2*
1/8" Male to 1/8" Male Long Nipple	VS215PNL-2-15*

* Included in Gauge Kit PS5651160P.

L

H1
(Independent Dual Port Regulator Shown)

H2
(Independent Dual Port Regulator Shown)

HB
(Independent Dual Port Regulator Shown)

HA
(Common Port Regulator Shown)

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Sandwich Regulator Kit Ordering Code

Series	Regulator Function	#4 Port Regulator / Gauge	#2 Port Regulator / Gauge	Factory Designator
PS5637	**1**	**6**	**6**	**P**

Series		
HB		
15407-1	**18mm**	**PS5637**
15407-2	**18mm**	**PS5638**
HA		
15407-1	**26mm**	**PS5537**
15407-2	**26mm**	**PS5538**

Regulator Function
1 Common Pressure Regulator
2 Independent Pressure Regulator

#4 Port Regulator / Gauge*
2 2-60 PSIG w/o Gauge
3 5-125 PSIG w/o Gauge
5 2-60 PSIG w/Gauge
6 5-125 PSIG w/Gauge

* For Common Pressure Regulator Option, Regulator Gauge callout must be the same number for both Port #4 and Port #2. (Example: 166)

#2 Port Regulator / Gauge*
2 2-60 PSIG w/o Gauge
3 5-125 PSIG w/o Gauge
5 2-60 PSIG w/Gauge
6 5-125 PSIG w/Gauge

* For Common Pressure Regulator Option, Regulator Gauge callout must be the same number for both Port #4 and Port #2. (Example: 166)

Series	Regulator Function	#4 Port Regulator / Gauge	#2 Port Regulator / Gauge	Engineering Level	Factory Designator
PS4037	**1**	**6**	**6**	**C**	**P**

Series	
H1	
5599-1	**PS4037**
5599-2	**PS4038**
H2	
5599-1	**PS4137**
5599-2	**PS4138**
H3	
5599-1	**PS4237**
5599-2	**PS4238**

Regulator Function
1 Common Pressure Regulator
2 Independent Pressure Regulator
3 Selector Regulator

#4 Port Regulator / Gauge*
0 Line By-Pass Plate**
1 1-30 PSIG w/o Gauge
2 2-60 PSIG w/o Gauge
3 5-125 PSIG w/o Gauge
4 1-30 PSIG w/Gauge
5 2-60 PSIG w/Gauge
6 5-125 PSIG w/Gauge
C Air Pilot w/60 PSIG Gauge
D Air Pilot w/160 PSIG Gauge

* For Common Pressure Regulator Option, Regulator Gauge callout must be the same number for both Port #4 and Port #2. (Example: 166)

** Pressure Line By-Pass Option can only be used with Independent and Selector Regulators (Option 2 & 3 in Sandwich Block Function).

#2 Port Regulator / Gauge*
0 Line By-Pass Plate**
1 1-30 PSIG w/o Gauge
2 2-60 PSIG w/o Gauge
3 5-125 PSIG w/o Gauge
4 1-30 PSIG w/Gauge
5 2-60 PSIG w/Gauge
6 5-125 PSIG w/Gauge
C Air Pilot w/60 PSIG Gauge
D Air Pilot w/160 PSIG Gauge

* For Common Pressure Regulator Option, Regulator Gauge callout must be the same number for both Port #4 and Port #2. (Example: 166)

** Pressure Line By-Pass Option can only be used with Independent and Selector Regulators (Option 2 & 3 in Sandwich Block Function).

How to Configure Sandwich Regulator / Valve Combinations

Ordering Components

- *Manifold or Subbase Kit required.*
- *Sandwich Regulator Kit configured for Internal Pilot as standard.*
- *Order valve as External Pilot.*

Internal Pilot Configuration -

Pressure in Base Port 1 feeds regulator configured for Internal Pilot which feeds valve configured for External Pilot.

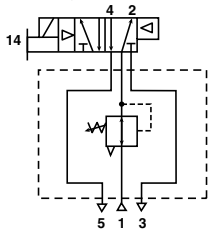
External Pilot Configuration - H1, H2, H3

An External Pilot pressure in Port 12 or 14 of the base feeds thru the Sandwich Regulator 12 or 14 galley directly to the 12/14 pilot of the valve.

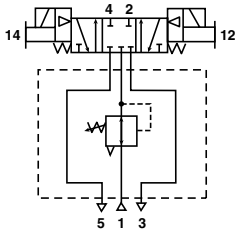
HB & HA Common Port Regulation

Provides adjustable regulated air pressure to the valve's #1 port which gives the same pressure to both the #2 and #4 port of the manifold or subbase. The regulator is always on the 14 end of the valve.

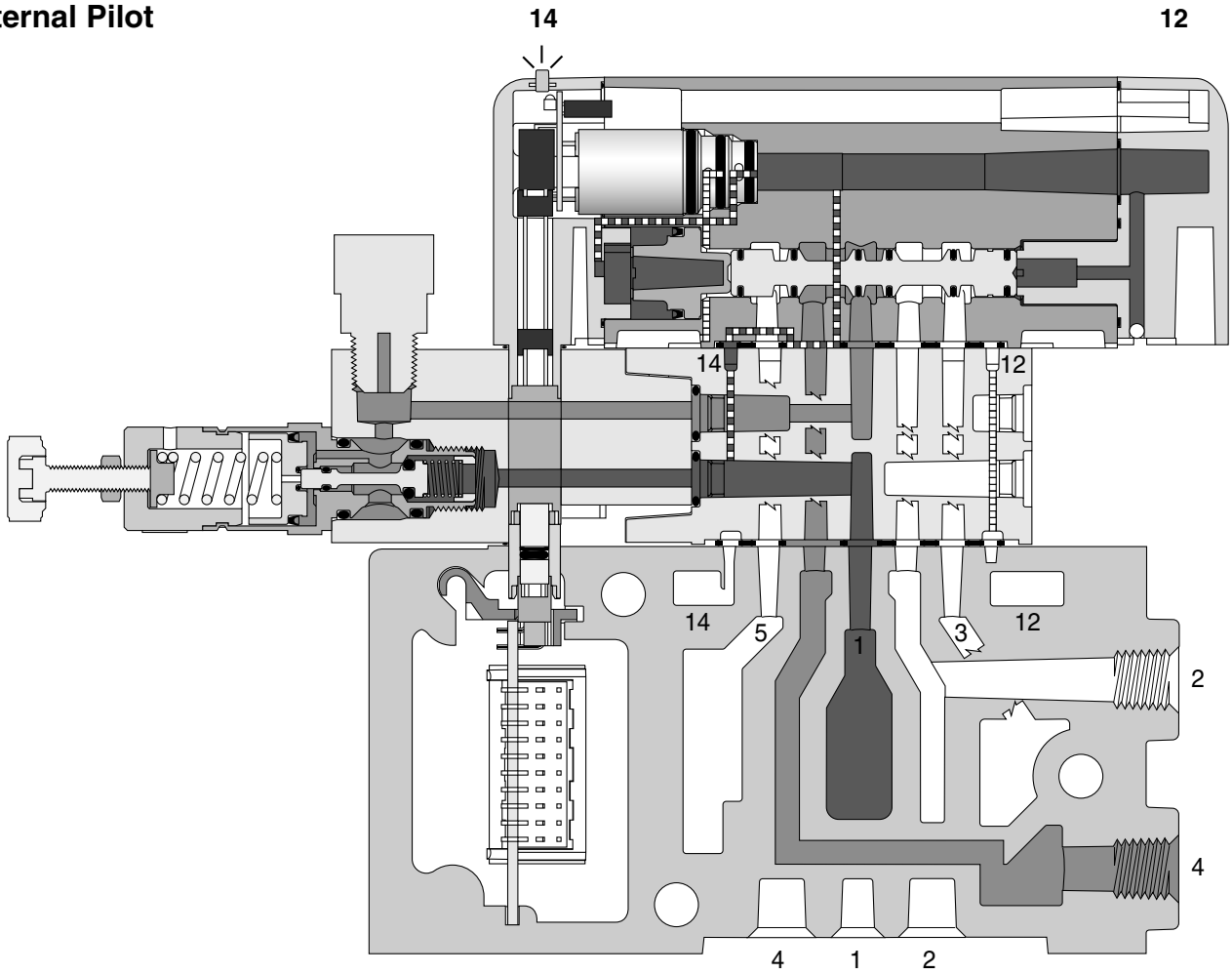
Common Port Regulator with 4-Way, 2-Position Single Solenoid Valve



Common Port Regulator with 4-Way, 3-Position APB Valve



HB Common Port Regulator Shown - Single Solenoid, 14 Energized, Internal Pilot



L

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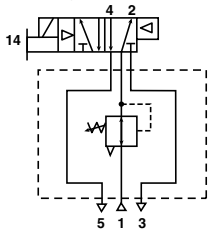
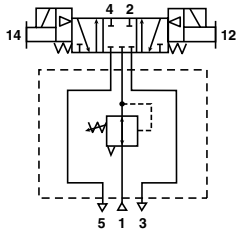
H1, H2, H3 Common Port Regulation

Provides adjustable regulated air pressure to the valve's #1 port which gives the same regulated pressure to both the #2 and #4 port of the manifold or subbase. The regulator is always on the 14 end of the valve.

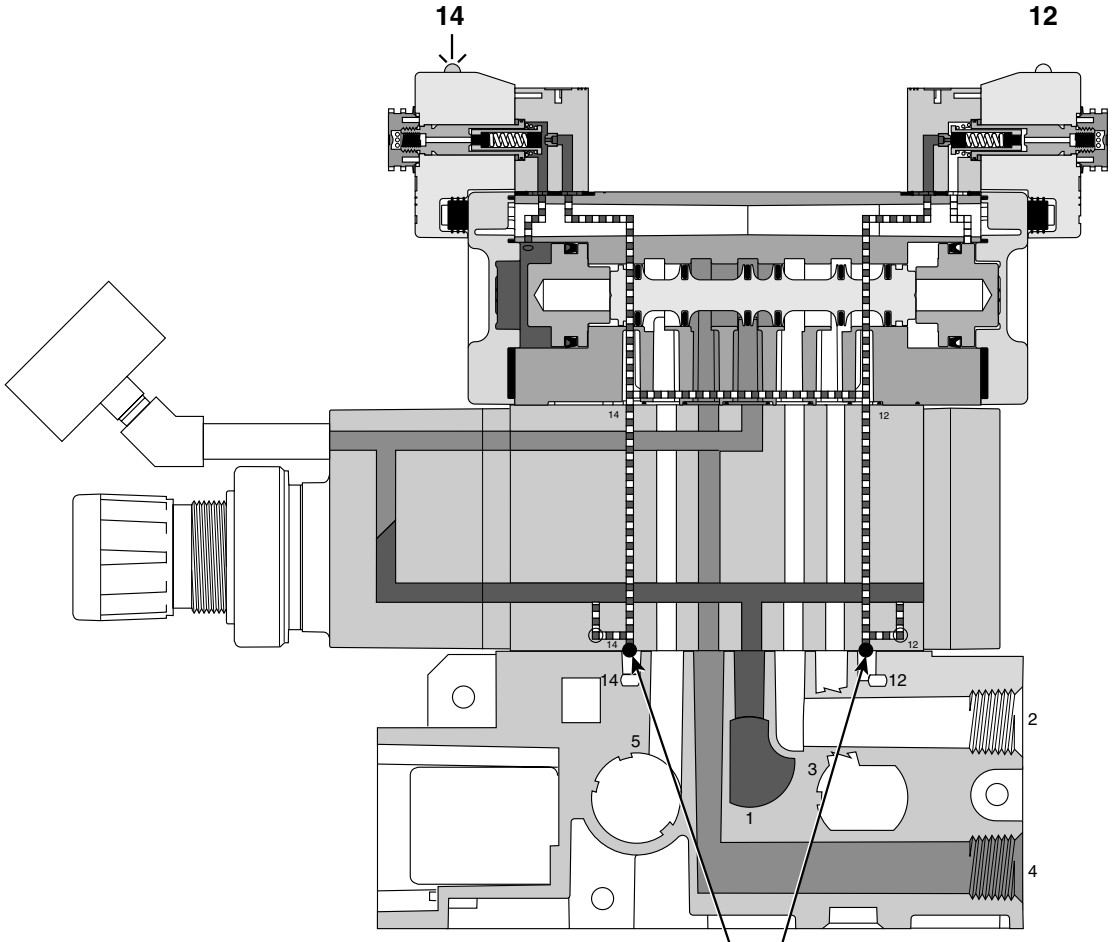
Common Port Regulator with 4-Way, 2-Position Single Solenoid Valve



Common Port Regulator with 4-Way, 3-Position APB Valve



H2 Common Port Regulator Shown - Double Solenoid, 14 Energized, Internal Pilot



Sandwich Regulator has standard configuration of Internal Pilot with the Pilot Plug in the bottom of the I & E Pilot Holes which prevents line pressure from escaping through the manifold.

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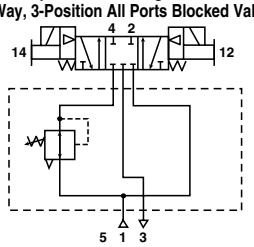
H1, H2, H3 Independent Port Regulation

Single Port Regulator

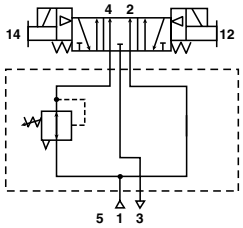
Provides regulated pressure to one of the ports and full line pressure to the other by use of the Line Pressure By-Pass Plate. Pressure regulation can occur out of the #4 port of the valve.

When using an Independent Pressure Sandwich Regulator, the cylinder outlet ports are reversed. The 12 end energizes the #4 port and the 14 end energizes the #2 port. The 3-Position CE and PC functions are also reversed. (See schematics on right.)

Independent Port Regulator with 4-Way, 3-Position All Ports Blocked Valve

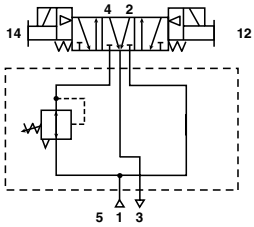


Independent Port Regulator with 4-Way, 3-Position, Inlet to Cylinder Function



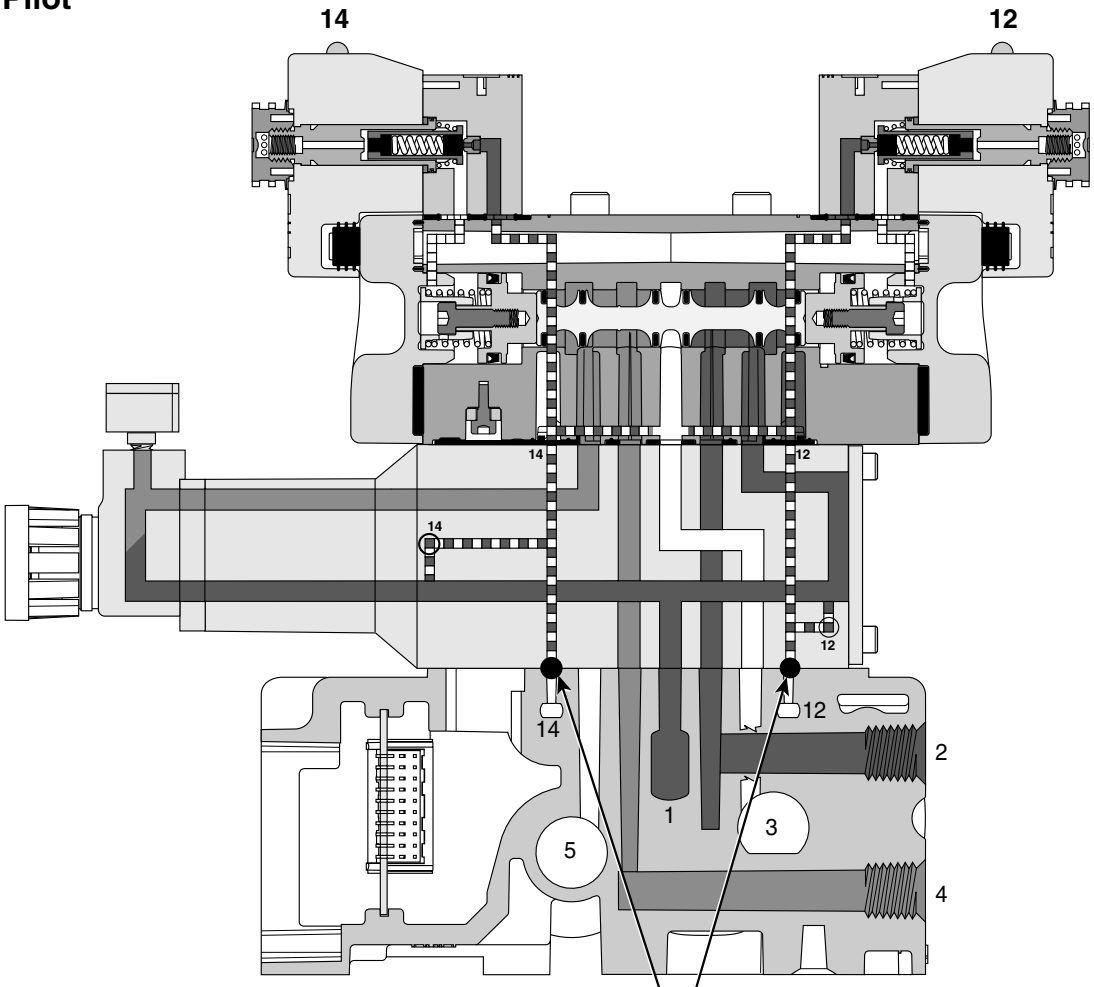
⚠ **CAUTION: Requires 4-Way, 3-Position, Cylinder to Exhaust Valve**

Independent Port Regulator with 4-Way, 3-Position, Cylinder to Exhaust Function



⚠ **CAUTION: Requires 4-Way, 3-Position, Inlet to Cylinder Valve**

H1 Independent Port Regulator Shown - Double Solenoid, De-energized, Internal Pilot



Sandwich Regulator has standard configuration of Internal Pilot with the Pilot Plug in the bottom #12 and #14 Pilot Hole which prevents line pressure from escaping through the manifold.

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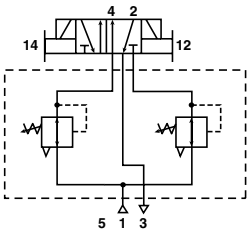
HB & HA Independent Port Regulation

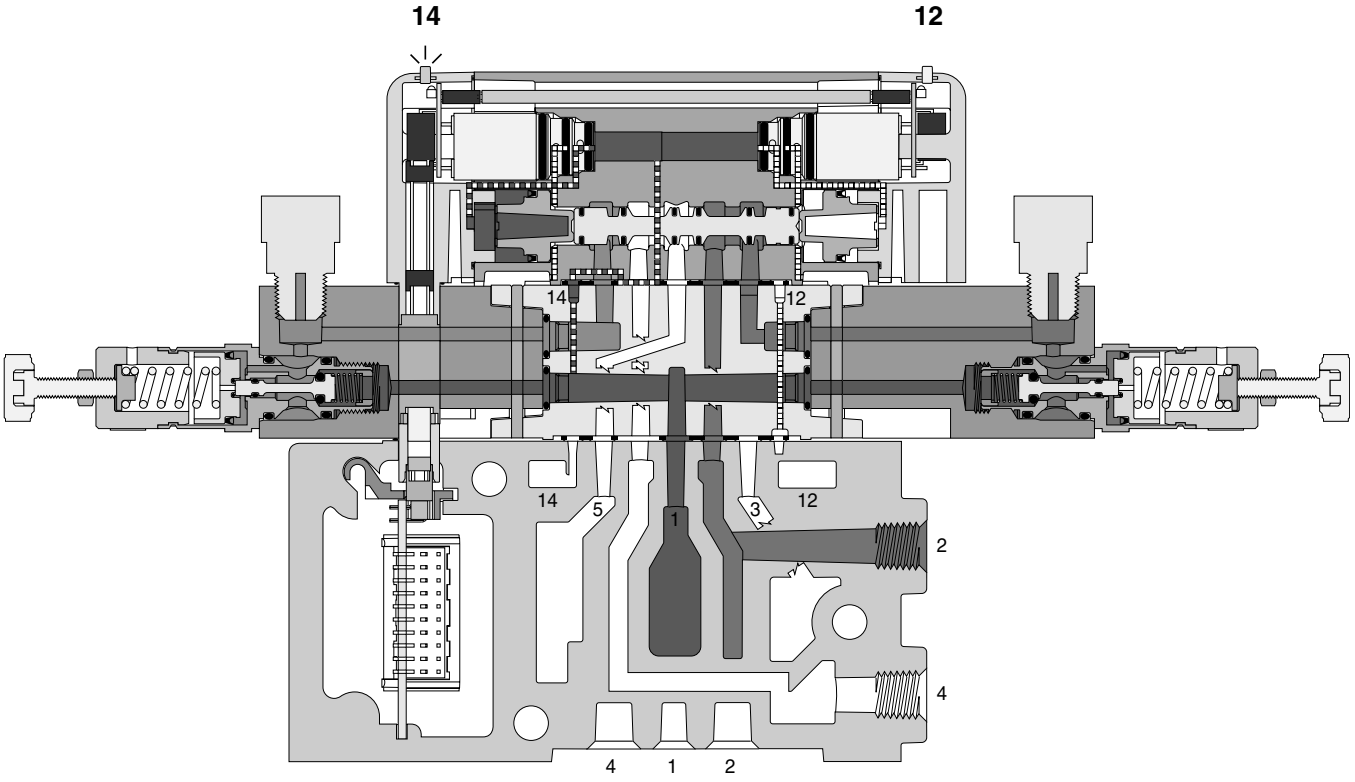
Dual Port Regulator

Provides regulated pressure to both ports. Pressure regulation can occur out of the #2 or #4 port of the valve.

Independent Dual Port Regulator with 4-Way, 2-Position Double Solenoid Valve



HB Independent Dual Port Regulator Shown - Double Solenoid, 14 Energized, Internal Pilot



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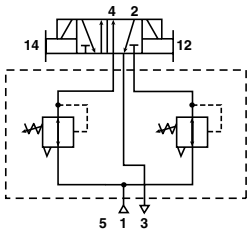
H1, H2, H3 Independent Port Regulation

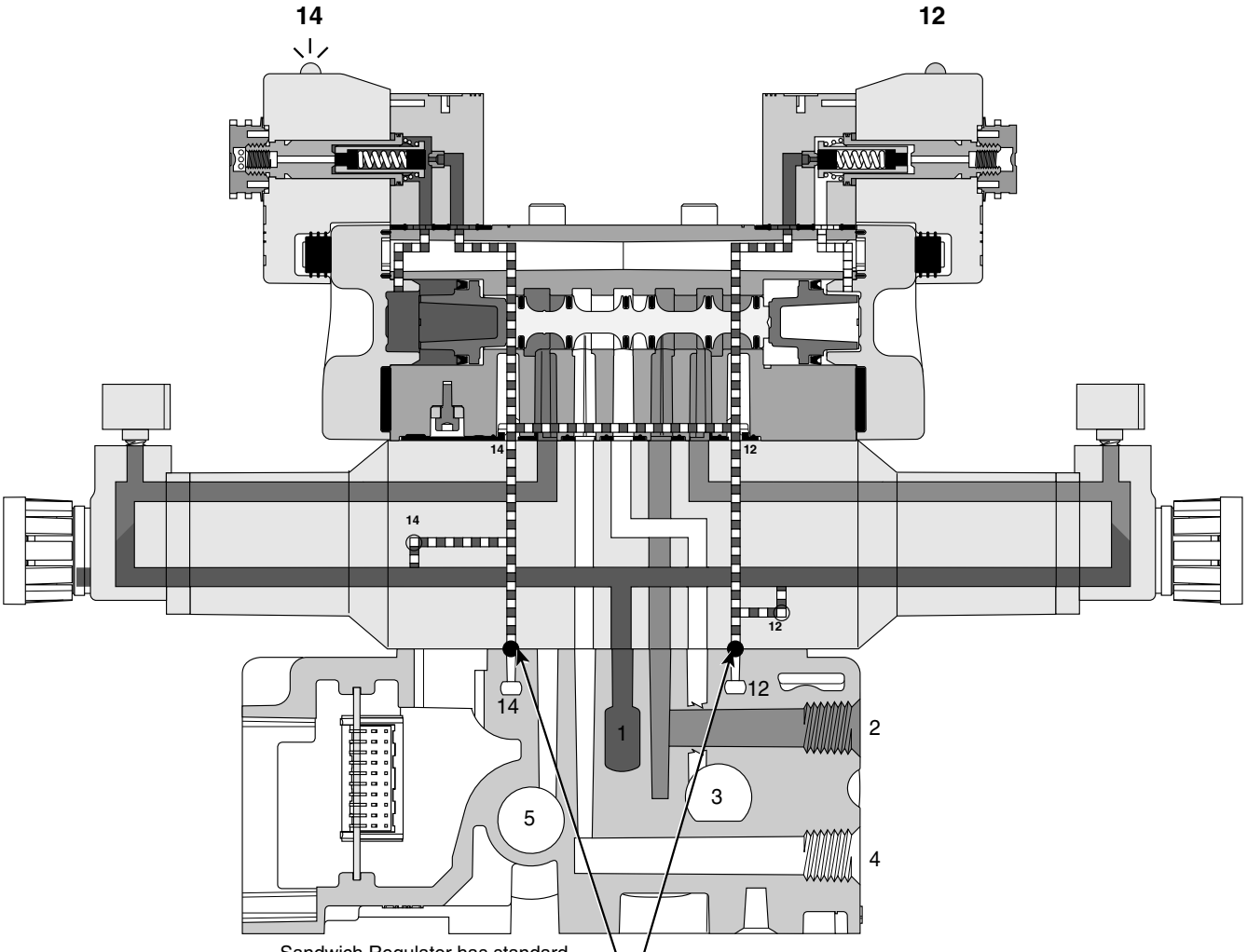
Dual Port Regulator

Provides regulated pressure to both ports. Pressure regulation can occur out of the #2 or #4 port of the valve.

Independent Dual Port Regulator with 4-Way, 2-Position Double Solenoid Valve



H1 Independent Dual Port Regulator Shown - Double Solenoid, 14 Energized, Internal Pilot



Sandwich Regulator has standard configuration of Internal Pilot with the Pilot Plug in the bottom #12 and #14 Pilot Hole which prevents line pressure from escaping through the manifold.

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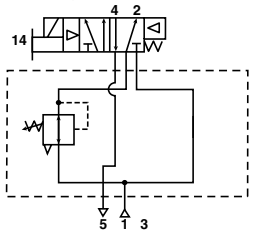
H1, H2, H3 Selector Regulator

Supplies two different pressures to the valve's #1 and #3 flow paths. Shifting the valve "selects" one or the other of these two pressures to flow out port #2. A Selector Regulator can: 1) Provide regulated pressure to one flow path and full line pressure to the other by use of the Line Pressure By-Pass Plate or 2) Provide regulated pressure to each of the flow paths. (Note: Port #4 is pressurized with air from #1 flow path when 14 end is energized. In many applications, port #4 in the manifold or subbase needs to be plugged.)

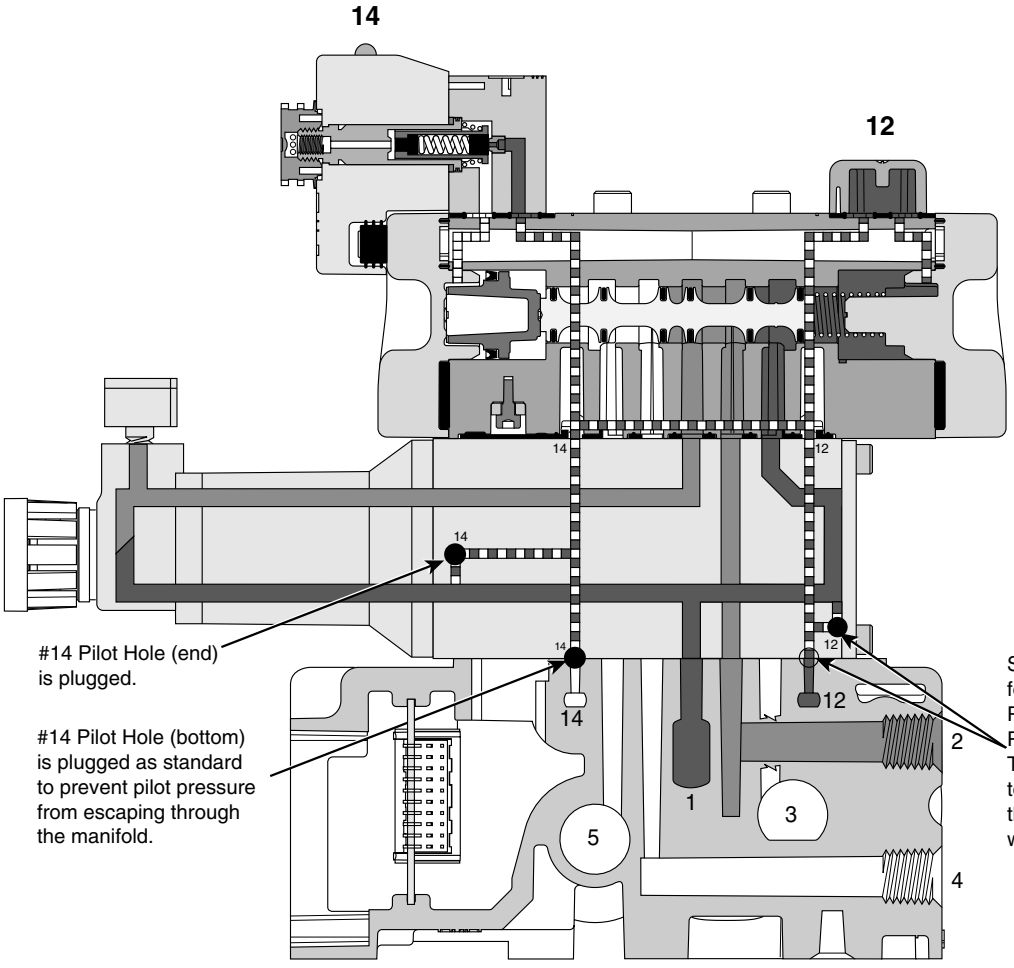
Selector Regulator with 4-Way, 2-Position Single Solenoid Valve



H1 H2 H3

H1, H2 & H3 with Selector Regulator utilizes Bottom / End Port Manifolds and requires external plumbing to accomplish the same function as the H1.

H1 Selector Regulator Shown - Single Solenoid, 14 De-energized, External Pilot



#14 Pilot Hole (end) is plugged.

#14 Pilot Hole (bottom) is plugged as standard to prevent pilot pressure from escaping through the manifold.

Sandwich Regulator configured for External Pilot with the Pilot Plug moved from the bottom #12 Pilot Hole to end #12 Pilot Hole. This allows External Pilot pressure to feed through the regulator to the valve without communicating with Main Line Pressure.

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Flow Rating (C_V)

Size	Port Size	2-Position	3-Position
HB	1/8"	0.55	0.50
HA	1/4"	1.1	1.0
H1	3/8"	1.5	1.2
H2	1/2"	3.0	2.8
H3	3/4"	6.0	5.0
H4	3/4"	7.4	5.2

Cv tested per ANSI / (NFPA) T3.21.3

Sandwich Regulator Cv Flow Chart*

	Common Pressure Code 166				Single Pressure 2 Code 266				Single Pressure 4 Code 260				Dual Pressure Code 266			
	1-2	1-4	2-3	4-5	1-2	1-4	2-3	4-5*	1-2	1-4	2-3	4-5*	1-2	1-4	2-3	4-5*
HB	0.20	0.20	0.41	0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.23	0.19	0.28	0.27
HA	0.41	0.43	0.87	0.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.42	0.45	0.68	0.66
H1	0.62	0.61	1.28	1.18	0.73	0.96	0.96	0.93	0.34	0.70	0.94	0.98	0.52	0.48	0.86	0.88
H2	1.47	1.60	2.41	2.33	1.71	1.90	1.52	1.75	1.74	1.67	1.73	1.79	1.61	1.62	1.50	1.67
H3	2.37	2.39	4.30	4.47	2.37	2.81	2.75	3.01	2.65	2.59	2.68	2.74	2.43	2.41	3.16	3.04

* Regulator Port exhaust through Base Port 3.
Note: All Cv's calculated with regulator adjust ed full open.

L

Operating Pressure

HB HA H1 H2 H3

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-Pos	25 (173)	25 (173)	25 (173)	25 (173)	35 (241)
2	Double Solenoid- 2-Pos					
3	Single Remote Pilot - 2-Pos **	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum
4	Double Remote Pilot - 2-Pos**	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum
5, 6, 7	Double Solenoid - 3-Pos APB, CE, PC	35 (241)	35 (241)	35 (241)	50 (345)	50 (345)
8, 9, 0	Double Remote Pilot - 3-Pos** APB, CE, PC	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum
E	Single Solenoid Pilot - 2-Pos Air Return / Spring Assist	30 (207)	30 (207)	35 (241)	45 (310)	45 (310)
F	Single Remote Pilot - 2-Pos** Air Return / Spring Assist					
	External Pilot *	*	*	*	*	*
All	isys	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum

* External Pilot Pressure / Remote Pilot Supply - 45-145 PSIG (310-1000 kPa).
** Must be equal to or greater than operating pressure.

Temperature Rating

HB HA H1 H2 H3 H4

-15°C to 49°C (5°F to 120°F) Ambient.

Response Time**

HB HA H1 H2 H3

Valve Size	Port Size	0 Cu. In. Chamber		## Cu. In. Chamber	
		Fill	Exhaust	Fill	Exhaust
Single Solenoid 2-Position - Air Return / Spring Assist					
HB	1/8"	28	30	141	154
HA	1/4"	24	26	77	124
H1	3/8"	39	41	159	210
H2	1/2"	78	81	219	310
H3	3/4"	90	93	244	320

HB (12), HA (25), H1 (50), H2 (100), H3 (200)

** With 100 PSIG supply, time required to fill from 0 to 90 PSIG and Exhaust from 100 PSIG to 10 PSIG measured from the instant of energizing or de-energizing 24VDC solenoid.

Tested per ANSI / (NFPA) T3.21.8

CSA / C-US

H1	H1 Valve - Standard at - 1000kPa (145 PSIG)
H2	H2 Valve - Standard at - 1000kPa (145 PSIG)
H3	H3 Valve - Standard at - 1000kPa (145 PSIG)
H4	H4 Valve - Standard at - 1000kPa (145 PSIG)
H4	H4 Valve - Maximum at - 793kPa (115 PSIG) - Insert an "L" at the end of the valve part number.

Minimum Operating Voltage

	HB	HA	H1	H2	H3
MOV (24VDC)	20.4	20.4	20.4	20.4	20.4
MOV (120VAC)	102	102	102	102	102

5599-2 & 5599-1 AUTO Solenoid Information

H1 H2 H3

Code	Voltage AC 60Hz	Voltage AC 50Hz	Voltage DC	Power (VA 60Hz/W)	Holding (mA)
42	24	24	—	4.0VA	165
45	—	—	12	2.4W	197
B9*	—	—	24	3.2W	136
23*	120	110	—	4.6VA	40
57	240	230	—	5.0VA	21

* Data tested with LED and Surge Suppression.
Voltage rated +10 / -15%.

5599-1 CNOMO Solenoid Information

H1 H2 H3

Code	Voltage AC 60Hz	Voltage AC 50Hz	Voltage DC	3-Pin 30mm "L" Power (VA 60Hz/W)	3-Pin 30mm "L" Holding Amp (mA)
19	—	—	24	2.8 W	117
42	24	24	—	3.8 VA	157
45	—	—	12	2.4 W	211
49	—	—	24	2.7 W	111
53	120	120	—	3.7 VA	32
57	230	230	—	3.6 VA	15

* Enclosure '6' - 2-Pin M12 Euro with LED & Surge Suppression

Solenoid Information

Voltage Range +10% / -15% of Nominal

H4

Code	Voltage 60Hz	Voltage 50Hz	Voltage DC	Power Consumption (Watts)	AC Inrush (Amps)	AC Hold (Amps)	DC Hold (Amps)
B9*	—	—	**24**	3.1	—	—	0.105
42**	24	—	—	6.0	.60	.41	—
43	—	24	—	6.0	.57	.40	—
45**	—	—	12	6.0	—	—	.47
49	—	—	**24**	6.0	—	—	.23
51	—	—	48	6.0	—	—	.14
53	**120**	**110**	—	6.0	.12	.10	—
57**	240	—	—	6.0	.07	.045	—
59**	—	240	—	6.0	.07	.033	—
23/83†**	**120**	**110**	—	6.0	.12	.10	—

* Low watt with surge suppression (Blue).
**Voltages available as kits only.
† This coil contains an MOV as standard for surge suppression.

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Plug-In Solenoid Kits

Voltage Range +10% / -15% of Nominal

H4

Voltage Code	Coil Kit Number	
	With Indicator Light	Unlighted
42**	—	K252 031
43	—	K252 032
45**	—	K252 032
49	**K252 033**	—
51	—	K252 035
53	**K252 040† ‡**	—
57**	—	K252 038
59**	—	K252 039
23 / 83 ‡**	**K252 040‡**	—

* Low watt with surge suppression (Blue).
** Voltages available as kits only.
† Replacement coil when Automotive Option "C", "F", & "G" are specified in the valve model number.
‡ This coil contains an MOV as standard for surge suppression.

5599-2 & 5599-1 AUTO Solenoid Kits

H1 H2 H3

Voltage Code	Override 'G' & 'M' Non-Locking
42 (24VAC)	PS404142P
45 (12VDC)	PS404145P
B9 (24VDC)	PS4041B9P
23 (120VAC)	PS404123P
57 (240VAC)	PS404157P

5599-1 CNOMO Solenoid Kits

H1 H2 H3

Voltage Code	3-Pin 30mm 'L' Coil Kit	2-Pin M12 Euro '6' Coil Kit
19	—	PS2828619P*
42	PS2828A42P	—
45	PS2828A45P	—
49	PS2828A49P	—
53	PS2828A53P	—
57	PS2828A57P	—

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Body Service Kits

Size	2-Position	3-Position			Kit Includes:
		APB	CE	PC	
HB	PS5601P	PS5602P	PS5603P	PS5604P	Spool assembly with seals, all piston seals, return & operator Adapter seals, solenoid seals, valve to base gasket, grease packet.
HA	PS5501P	PS5502P	PS5503P	PS5504P	
H1	PS4001CP	PS4002CP	PS4003CP	PS4004CP	
H2	PS4101CP	PS4102CP	PS4103CP	PS4104CP	
H3	PS4201CP	PS4202CP	PS4203CP	PS4204CP	
H4	P00186	P00187	P00249	P00359	Spool Kit
	PS1401 * PS1402 †	PS1438	PS1438	PS1438	Valve body o-rings, piston seals and lubricant.

* Used with Single Solenoid or Single Remote Pilot Valve. †Used with Double Solenoid or Double Remote Pilot Valve.

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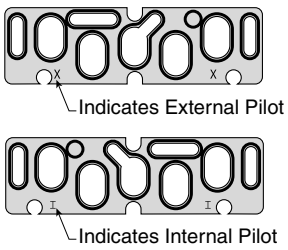
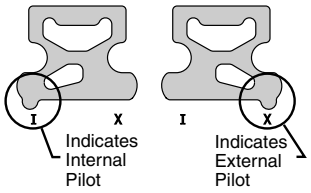
Pilot Select Gasket

Size	Kit Number
HB	PS5605P
HA	PS5505P
H1	PS4007P
H2	PS4007P
H3	PS4007P

Quantity 10



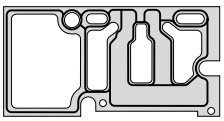
HB, HA



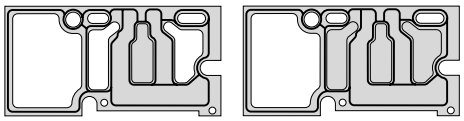
H1, H2, H3

Manifold to Manifold Gasket Kits

Size	Std	Blocked 1	Blocked 1, 3, 5
HB HA	PS561AP	PS561BP	PS561CP
H1	PS4013P	—	—
H2	PS4113P	—	—
H3	PS4213P	—	—



Standard



Blocked 1 **Blocked 1, 3, 5**

HB, HA

Valve to Base Gasket Kits

Series	Standard	Remote Pilot	Dual Pressure #3	Dual Pressure #5
HB	PS5605P	—	—	—
HA	PS5505P	—	—	—
H1	PS4005CP	PS4006CP	PS40D3CP	PS40D5CP
H2	PS4105CP	PS4106CP	PS41D3CP	PS41D5CP
H3	PS4205CP	PS4206CP	PS42D3CP	PS42D5CP

Quantity 12

Valve to Base Gaskets

H4

1. Remove valve from base.
2. Remove existing gasket and replace with appropriate gasket shown to fit application.
3. When ordering an “H4” Valve, correct gasket is included with corresponding valve callouts.

Internal Pilot Port #1

P00148

Single Remote Air Pilot

P00150

External Pilot

P00149

Double Remote Air Pilot

P00151

Note: For single remote pilot valve with common external pilot, use P00151.

Valve Bolt Kits

Size	Kit Number
HB	PS5687P
HA	PS5587P
H1	PS4087CP
H2	PS4187CP
H3	PS4287CP

Quantity 12

Manifold Hardware Kits

Size	Kit Number
HA	PS5512P
HB	PS5612P
H1	PS4012P
H2	PS4112P
H3	PS4212P

Quantity 12

Sandwich Supply & Exhaust Modules

Series		NPT	BSPP
HB	Supply	PS561600P	PS561601P
	Exhaust	PS561700P	PS561701P
HA	Supply	PS551600P	PS551601P
	Exhaust	PS551700P	PS551701P

Quantity 1

Pilot Operator CNOMO - LMOR

Series			Kit Number
H1	H2	H3	PS4052CP

Pilot Operator CNOMO - NLMOR

Series			Kit Number
H1	H2	H3	PS4053CP

Pilot By-Pass Plate

Series			Kit Number
H1	H2	H3	PS4051CP

Quantity 10

Regulator Spring Range Kits

Spring Range	H1	H2 H3
0 to 30 PSIG	PS4050030P	PS4150030BP
2 to 60 PSIG	PS4050060P	PS4150060BP
5 to 125 PSIG	PS4050125P	PS4150125BP

Quantity 1

Regulator & Flow Control Mounting Studs

Type	HA	HB
Flow Control	PS5636P	PS5536P
Regulator	PS5636P	PS5536P

Type	H1	H2	H3
Flow Control	PS4036P	PS4136P	PS4236P
Regulator	PS4040P	PS4140P	PS4240P

Quantity 12

Regulator Gauge Kits, Size 1, 2, 3

Gauge Type	Kit Number
3/4" Face Air - Standard	
0-60 PSIG	PS4051060BP
0-160 PSIG	**PS4051160BP**
1-1/2" Face Air - Large*	
0-60 PSIG	PS4053060BP
0-160 PSIG	PS4053160BP
1-1/2" Face Liquid*	
0-160 PSIG	PS4052160BP

* Includes brass pipe fitting extensions

Quantity 1

Regulator Conversion Kits

Size	Manual Bonnet Assembly (w/o Spring)	Air Pilot Bonnet Assembly	Independent By-Pass Plate
H1	PS4045BP	PS4047BP	PS4048BP
H2	PS4145BP	PS4147BP	PS4148BP
H3			

Quantity 1

Regulator Kits

Size		Kit Number
H1		PS4039P
H2	H3	PS4139P

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Subbases

Size	Port Numbers	Port Size	Acceptable Fittings	Note
H1	#1 to #3 or #5	1/4" BSPP	EO Fittings; Prestolok; P6M Mufflers; EO Plugs	
		3/8" BSPP	Prestolok; EO Plugs	
	#2 to #4	1/4" BSPP	EO Fittings; Prestolok; EO Plugs	
		3/8" BSPP	Prestolok; EO Plugs; EO Fittings	6
	#12 to #2 and #14 to #4	1/8" & 1/4" BSPP	EO Fittings; EO Plugs; Prestolok	
		1/8" & 3/8" BSPP	Prestolok; EO Plugs	5
	#1 to #2 to #3 to #4 to #5 All Inclusive Bottom Ports	1/4" BSPP	EO Fittings; EO Plugs; Prestolok; P6M Mufflers	
H2	#1 to #3 or #5	3/8" BSPP	EO Fittings; Prestolok; ES, ASN, P6M Mufflers	
		1/2" BSPP	EO Fittings; Prestolok; EO Plugs; ASN, P6M Mufflers	
	#2 to #4	3/8" BSPP	EO Fittings; Prestolok; EO Plugs	
		1/2" BSPP	EO Fittings; Prestolok; EO Plugs	
	#12 to #2 and #14 to #4	1/8" & 3/8" BSPP	EO Fittings; EO Plugs; Prestolok	
		1/8" & 1/2" BSPP	EO Fittings; EO Plugs; Prestolok	
	#1 to #2 to #3 to #4 to #5 All Inclusive Bottom Ports Also Includes #12 & #14	3/8" & 1/2" BSPP	EO Fittings; Prestolok; EO Plugs	
H3	#1 to #3 or #5	1/2" BSPP	EO Fittings; EO Plugs; Prestolok; ES, ASN, P6M Mufflers	
		3/4" BSPP	EO Fittings; EO Plugs; ES & P6M Mufflers	
	#2 to #4	1/2" BSPP	EO Fittings; EO Plugs; Prestolok	
		3/4" BSPP	EO Fittings; EO Plugs	
	#12 to #2 and #14 to #4	1/8" & 1/2" BSPP	EO Fittings; EO Plugs; Prestolok	
		1/8" & 3/4" BSPP	EO Fittings; EO Plugs	
	#1 to #2 to #3 to #4 to #5 All Inclusive Bottom Ports Also Includes #12 & #14	1/2" & 3/4" BSPP	EO Fittings; EO Plugs; P6M Mufflers; Prestolok	7

Manifold Bases

Size	Port Numbers	Port Size	Acceptable Fittings	Note
H1	End Ports #2 & #4	1/4" BSPP	EO Fittings; Prestolok	
	Bottom Ports #2 & #4	1/4" BSPP	EO Fittings; Prestolok	
	End Ports #2 & #4	3/8" BSPP	EO Fittings; Prestolok	
	Bottom Ports #2 & #4	3/8" BSPP	EO Fittings; Prestolok	
H2	End Ports #2 & #4	3/8" BSPP	EO Fittings; Prestolok	
	Bottom Ports #1, #2, & #4	3/8" BSPP	EO Fittings; Prestolok	
	End Ports #2 & #4	1/2" BSPP	EO Fittings; Prestolok	
	Bottom Ports #1, #2, & #4	1/2" BSPP	EO Fittings; Prestolok	
H3	End Ports #2 & #4	1/2" BSPP	EO Fittings; Prestolok	
	Bottom Ports #2 & #4	1/2" BSPP	EO Fittings; Prestolok	
	End Ports #2 & #4	3/4" BSPP	EO Fittings	
	Bottom Ports #2 & #4	3/4" BSPP	EO Fittings	

End Plates

Size	Port Numbers	Port Size	Acceptable Fittings	Note
H1	#1 to #3 & #5	1/2" BSPP	EO Fittings; Prestolok	
	#12 to #3	1/8" to 1/2" BSPP	EO Fittings; Prestolok; P6M Muffler	
	#14 to #5	1/8" to 1/2" BSPP	EO Fittings; Prestolok; P6M Muffler	
H2	#1 to #3 & #5	3/4" BSPP	EO Fittings	
	#12 to #3	1/8" to 3/4" BSPP	EO Fittings; EO Plugs; P6M Muffler	
	#14 to #5	1/8" to 3/4" BSPP	EO Fittings; EO Plugs; P6M Muffler	
H3	#1 to #3 & #5	1" BSPP	EO Fittings	
	#12 to #3	1/8" to 1" BSPP	EO Fittings; EO Plugs; P6M & ES Muffler	
	#14 to #5	1/8" to 1" BSPP	EO Fittings; EO Plugs; P6M & ES Muffler	

Collective Wiring Interface Plates

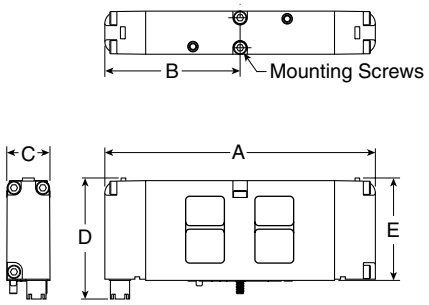
Size	Port Numbers	Port Size	Acceptable Fittings	Note
H1	TOP #1 to #3 & #5	1/2" BSPP	Prestolok; P6M Muffler; EO Fittings	5
H2	TOP #1 to #3 & #5	3/4" BSPP	EO Fittings; P6M & ES Mufflers	
H3	TOP #1 to #3 & #5	1" BSPP	EO Fittings; P6M & ES Mufflers	

General Notes Applicable to Applications

1) **EO and EO2 Fittings** are metric tube ends and male BSPP threads to valve components – Light Duty Series – spot faces for B & E and G & H types of flat face sealing. Straights are the **BE-R-ED** Series and elbows are **WEE-R** Adjustable Lock Nut Series.
2) **Prestolok Fittings** are metric push-in fittings with tube ends and BSPP threads to valve components. Straights are the **F4PB** Series and elbows are **C64PB** Adjustable Series.
3) In most applications, there is not enough swing clearance to install elbows in adjacent ports.
4) In a few applications, it may be necessary to remove the tube nut during installation.
5) In specifically identified installations, assembly with specific fittings is made provided that the hex points are not aligned along the port center to center line.
6) 3/8" EO fittings with 12 mm tubing only.
7) Prestolok available in 1/2" size only.

HB

15407-2



18mm Dimensions

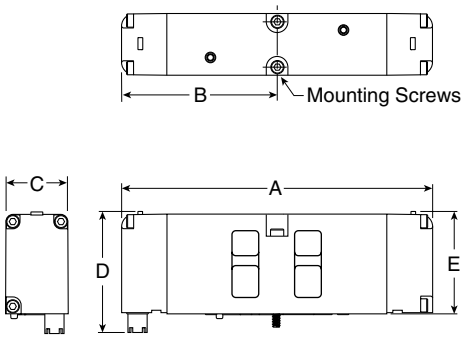
A	B	C	D
4.43 (113)	2.22 (56)	.72 (18)	1.98 (50)
E			
1.68 (43)			

Inches (mm)

L

HA

15407-2



26mm Dimensions

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

Inches (mm)

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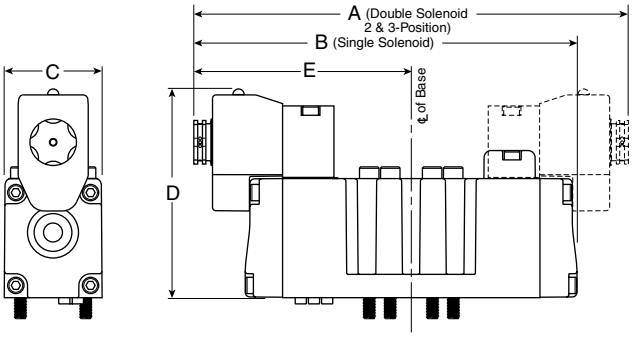
H1

H2

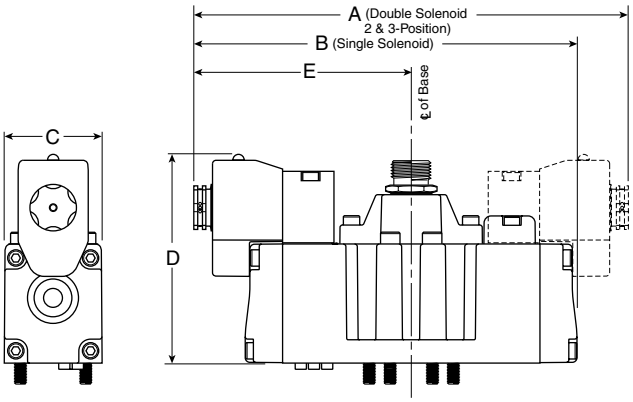
H3

H1 Valve Dimensions Shown

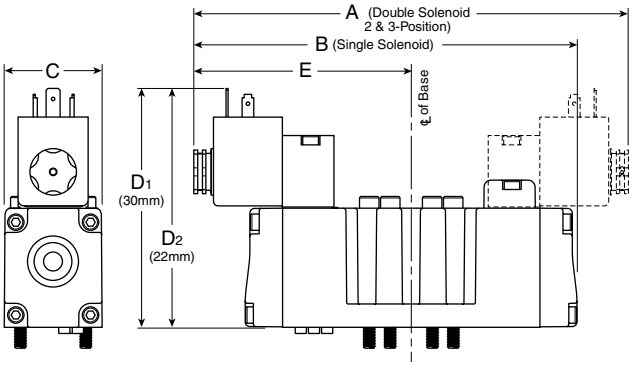
5599-2



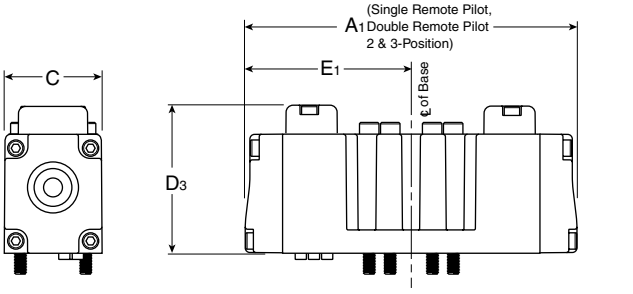
5599-1 Auto



5599-1 CNOMO



5599-2 / 5599-1 Remote Pilot



H1 Dimensions

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

Inches (mm)

H2 Dimensions

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

Inches (mm)

H3 Dimensions

A	A1	B	C
9.49 (241)	6.98 (177)	8.23 (209)	2.17 (55)
D	**D1**	**D2**	**D3**
4.05 (103)	4.80 (122)	4.57 (116)	2.99 (76)
E	**E1**		
4.74 (121)	3.49 (89)		

Inches (mm)

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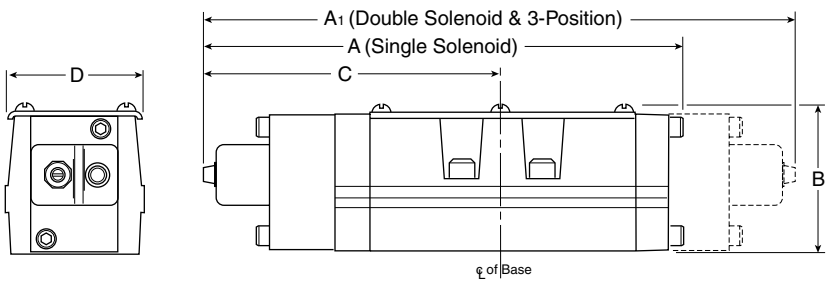
H4

5599-2

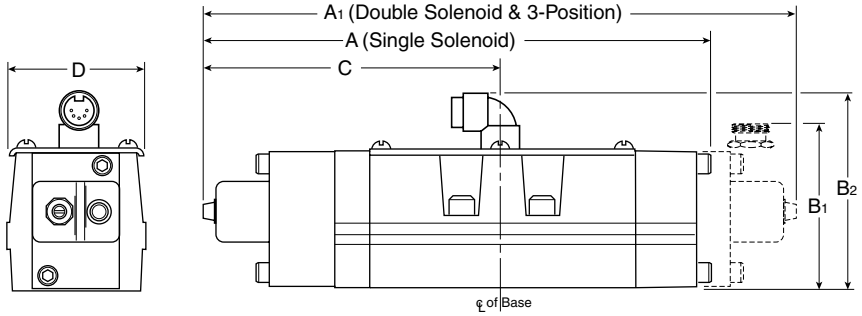


Dimensions

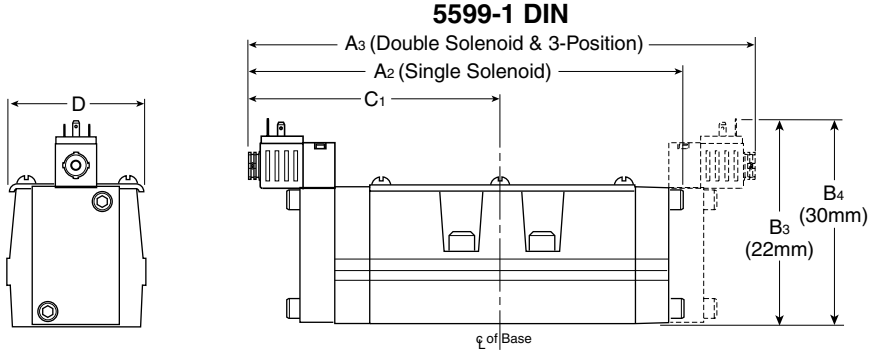
A	A1	A2	A3	A4
11.37 (289)	13.83 (351)	11.00 (279)	13.08 (332)	8.92 (267)
A5	**B**	**B1**	**B2**	**B3**
9.30 (236)	3.49 (89)	4.00 (102)	4.81 (122)	4.82 (122)
B4	**C**	**C1**	**C2**	**D**
5.13 (130)	6.92 (176)	6.54 (166)	4.46 (113)	3.21 (82)

Inches (mm)

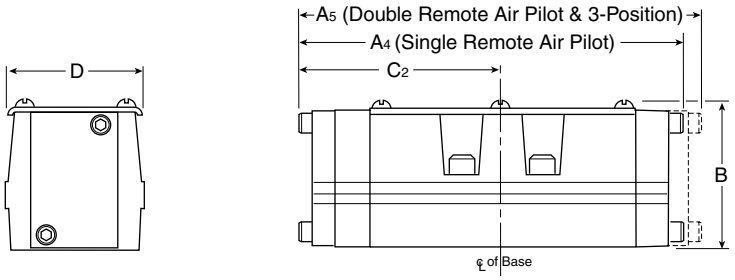
5599-1 Auto



5599-1 DIN



5599-2 / 5599-1 Remote Pilot



L

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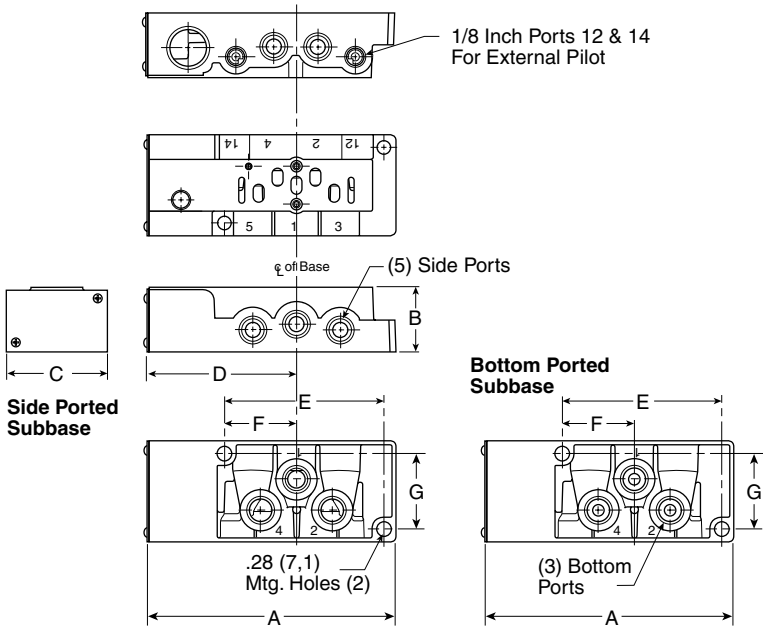
HA

HA 15407-2 Subbase



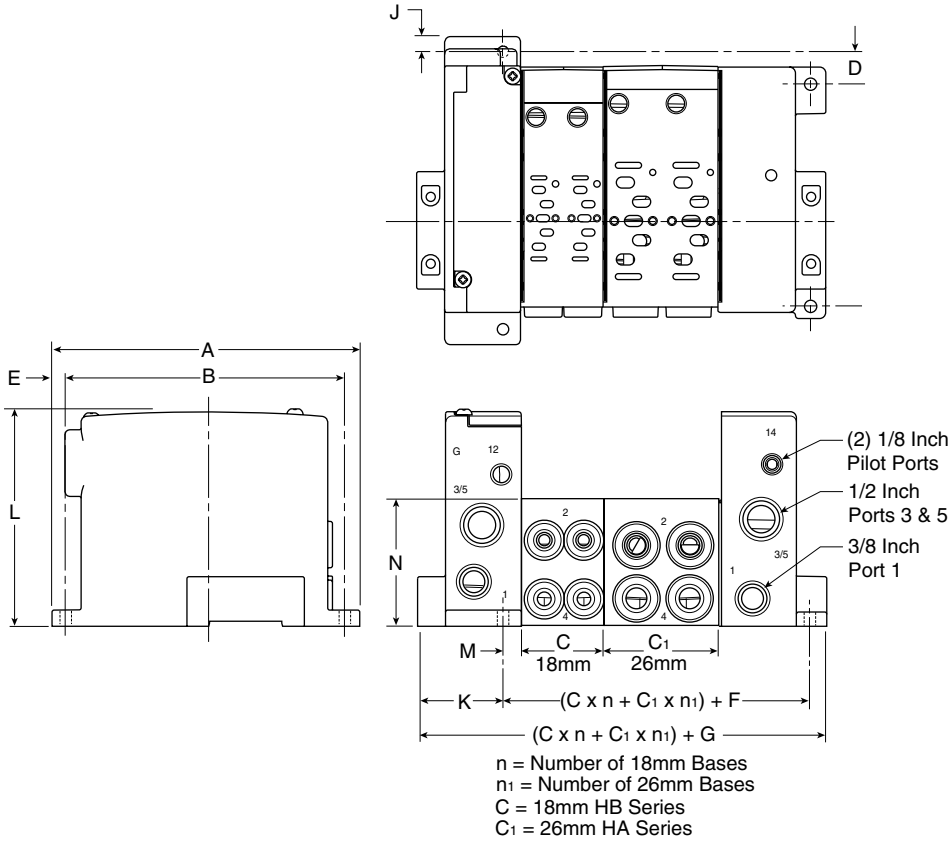
26mm Dimensions

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)

HB HA

HB & HA 15407-2 Manifolds



n = Number of 18mm Bases
n_1 = Number of 26mm Bases
C = 18mm HB Series
C_1 = 26mm HA Series

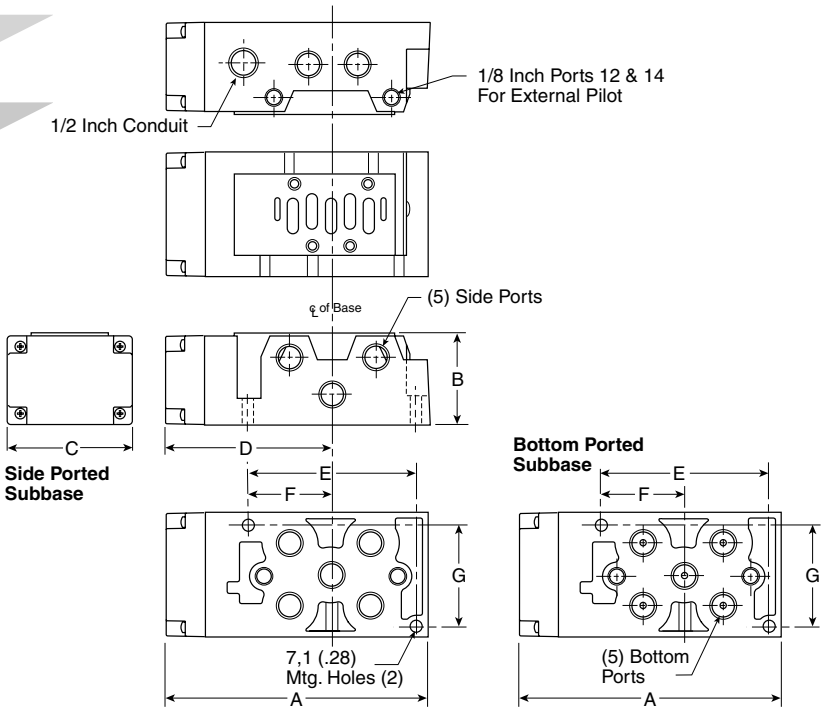
18mm & 26mm Dimensions

A	B	C	C_1
5.98 (152)	5.39 (137)	1.61 (40.8)	2.24 (56.8)
D	**E**	**F**	**G**
.63 (16)	.30 (7.5)	2.14 (54.4)	4.12 (104.6)
H	**J**	**K**	**L**
4.32 (109.8)	.15 (4)	1.68 (42.7)	4.17 (106)
M	**N**		
.33 (8.4)	2.48 (63)		

Inches (mm)

H1
H2
H3

H1, H2 & H3 5599-2 / 5599-1 Subbases



H1 Dimensions

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

H2 Dimensions

A	B	C	D	E
6.69 (170)	2.33 (59)	3.15 (80)	4.25 (108)	4.21 (107)
F	**G**			
2.07 (53)	2.56 (65)			

H3 Dimensions

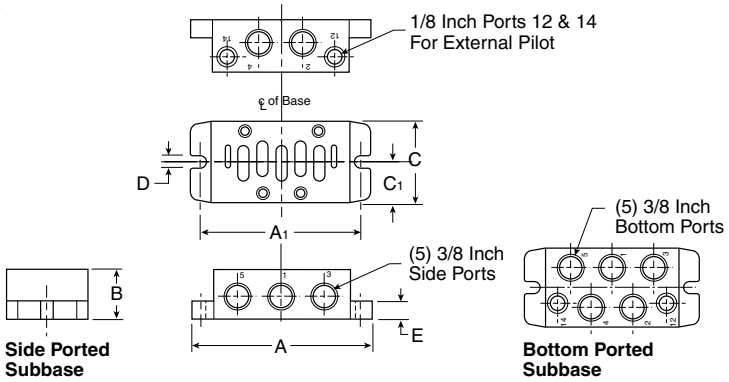
A	B	C	D	E
7.90 (201)	2.96 (75)	3.90 (99)	4.92 (125)	5.14 (131)
F	**G**			
2.50 (64)	3.24 (82)			

Inches (mm)

L

H1
H2

H1 & H2 5599-1 Side & Bottom Ported Subbases



H1 Dimensions

A	A1	B	C	C1
3.94 (100)	3.54 (90)	1.14 (29)	1.58 (40)	.79 (20)
D	**E**			
.21 (5,4)	.39 (10)			

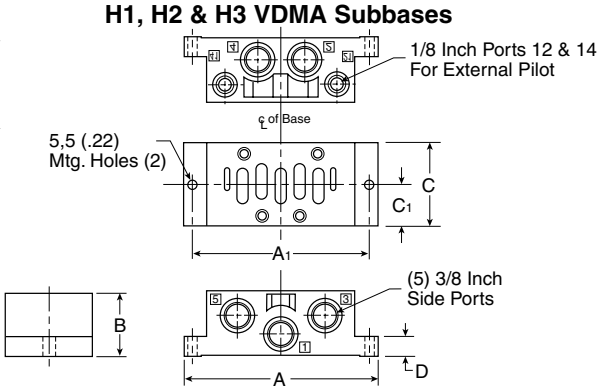
H2 Dimensions

A	A1	B	C	C1
4.57 (116)	4.09 (104)	1.26 (32)	1.97 (50)	.98 (25)
D	**E**			
.25 (6,4)	.39 (10)			

Inches (mm)

H1
H2
H3

H1, H2 & H3 VDMA Subbases



H1 Dimensions

A	A1	B	C	C1	D
4.33 (110)	3.86 (98)	1.26 (32)	1.89 (48)	.94 (24)	.39 (10)

H2 Dimensions

A	A1	B	C	C1	D
4.88 (124)	4.41 (112)	1.57 (40)	2.20 (56)	1.10 (28)	.51 (130)

H3 Dimensions

A	A1	B	C	C1	D
5.87 (149)	5.35 (136)	1.26 (32)	2.80 (71)	1.40 (36)	.71 (18)

Inches (mm)

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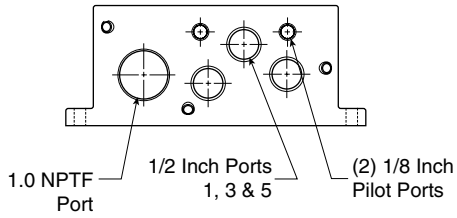
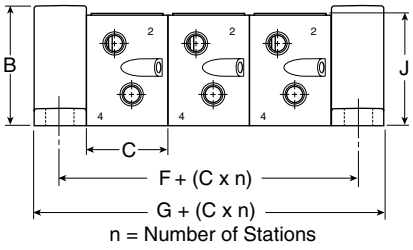
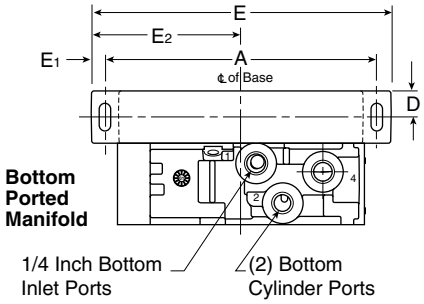
H1

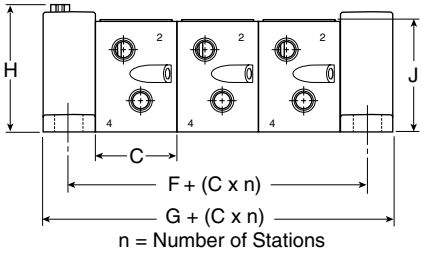
H1 5599-2 / 5599-1 Manifold







Manifold with Optional Collective Wiring System



Dimensions

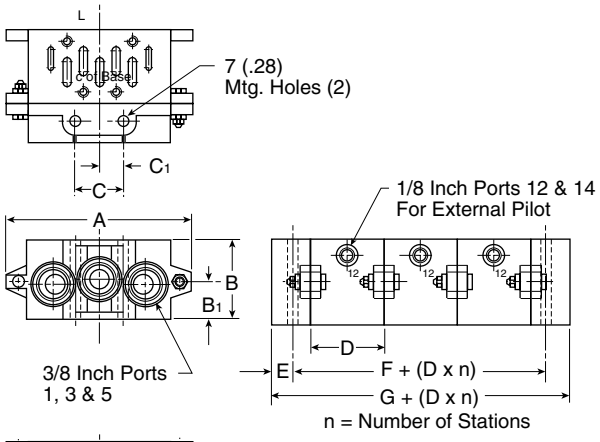
A	B	C	D
6.50 (165)	2.87 (73)	1.93 (49)	.63 (15.9)
E	**E_1**	**E_2**	**F**
7.17 (182)	.33 (.84)	3.58 (91)	1.25 (31.8)
G*	**H**	**J**	
2.50 (63.5)	2.99 (76)	2.65 (67,4)	

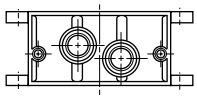
Inches (mm)

* For 19-Pin Round Connector Module, add 1.08" (27.5mm) to the G dimensions.

H1

H1 VDMA Manifold





Dimensions

A	B	B_1	C
4.33 (110)	1.81 (46)	.94 (24)	1.10 (28)
C_1	**D**	**E**	**F**
.55 (14)	1.69 (.44)	.43 (11)	.87 (22)
G			
1.74 (44)			

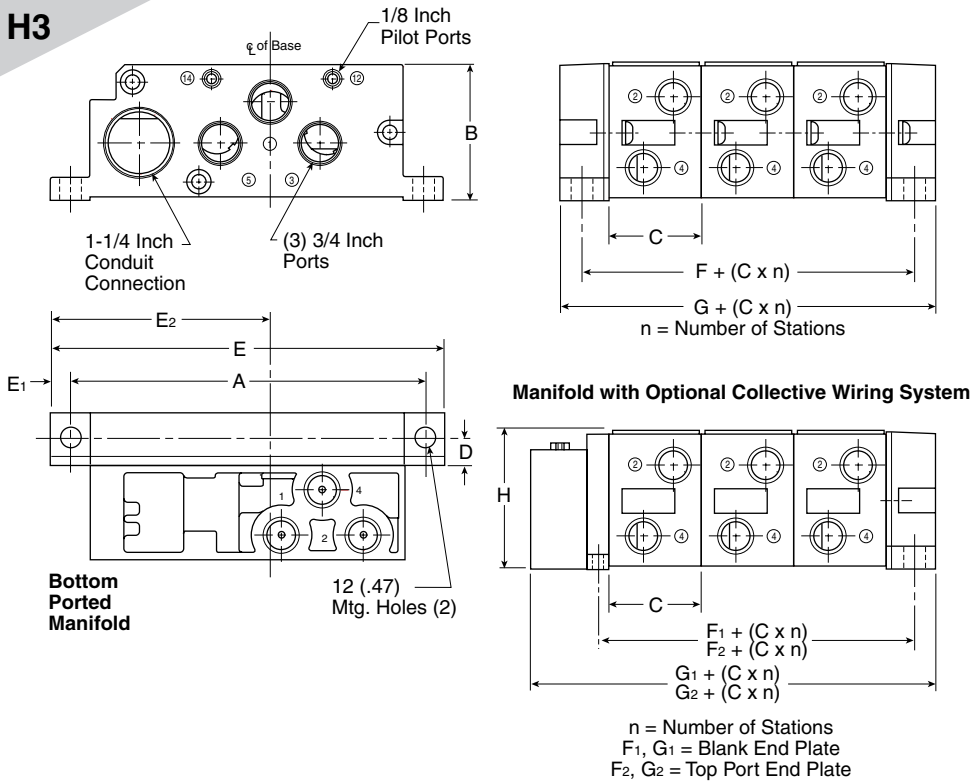
Inches (mm)

H

H2

H2 & H3 5599-2 / 5599-1 Manifold

H3



H2 Dimensions

A	B	C	D	E
8.46 (215)	3.35 (85)	2.20 (56)	.59 (15)	9.41 (239)
E1	**E2**	**F**	**F1**	**F2**
.47 (12)	5.28 (134)	1.18 (30)	1.06 (27)	1.30 (33)
G	**G1***	**G2***	**H**	
2.36 (60)	3.41 (87)	3.88 (99)	3.27 (83.1)	

H3 Dimensions

A	B	C	D	E
10.43 (265)	4.13 (105)	2.80 (71)	.65 (17)	11.61 (295)
E1	**E2**	**F**	**F1**	**F2**
.59 (.15)	6.26 (159)	1.30 (33)	1.12 (29)	1.59 (41)
G	**G1***	**G2***	**H**	
2.60 (63)	3.54 (90)	4.49 (114)	4.05 (102.9)	

Inches (mm)

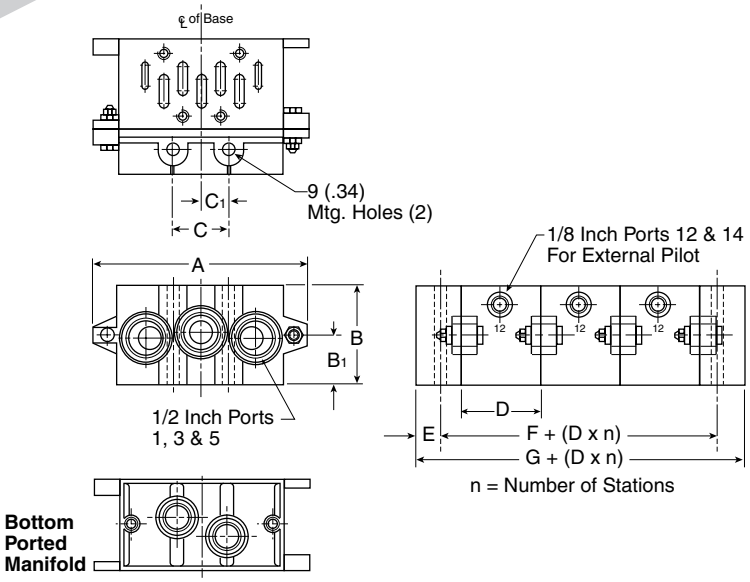
* For 19-Pin Round Connector Module, add 1.08" (27.5mm) to the G & G2 dimensions.

L

H2

H2 VDMA Manifold

H3



H2 Dimensions

A	B	B1	C
5.31 (135)	1.85 (47)	.94 (24)	1.38 (35)
C1	**D**	**E**	**F**
.69 (18)	2.20 (56)	.51 (13)	1.02 (26)
G			
2.05 (52)			

H2 Dimensions

A	B	B1	C
7.48 (190)	2.20 (56)	1.34 (34)	2.05 (52)
C1	**D**	**E**	**F**
1.02 (26)	2.80 (71)	1.18 (30)	1.18 (30)
G			
2.36 (60)			

Inches (mm)

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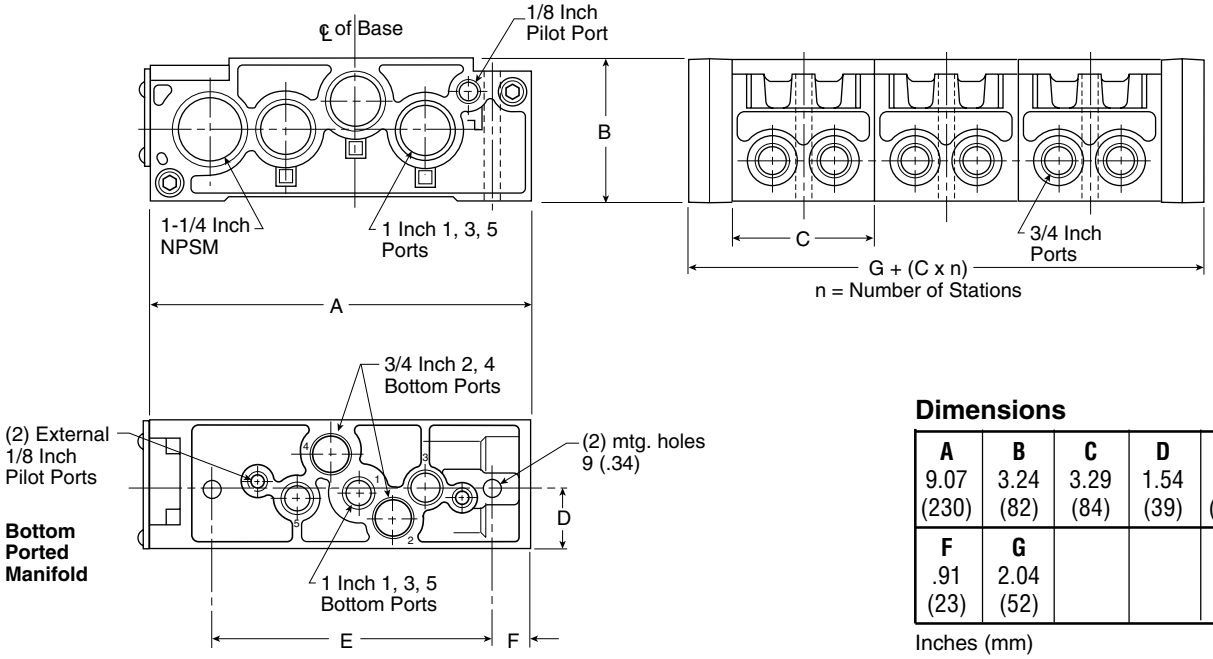
H4

H4 5599-2 / 5599-1 Manifold

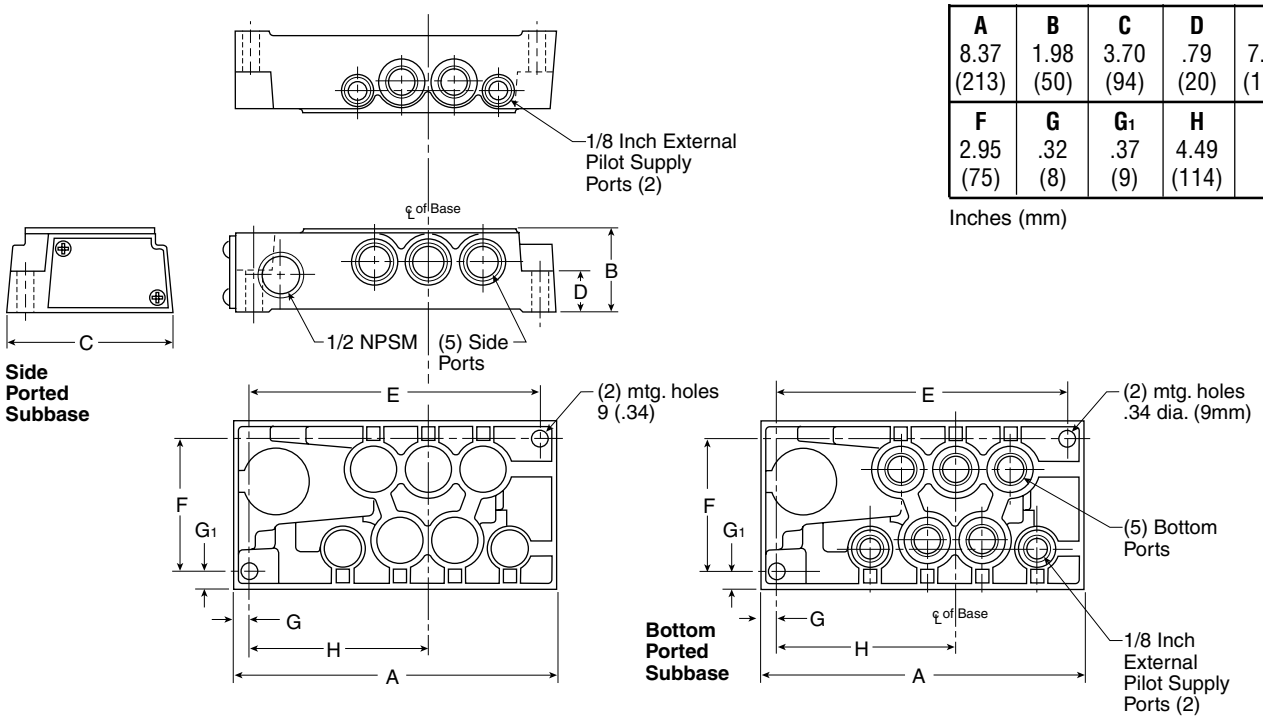


Dimensions

A	B	C	D	E
9.07 (230)	3.24 (82)	3.29 (84)	1.54 (39)	6.89 (175)
F	**G**			
.91 (23)	2.04 (52)			

Inches (mm)

H4 5599-2 / 5599-1 Subbase

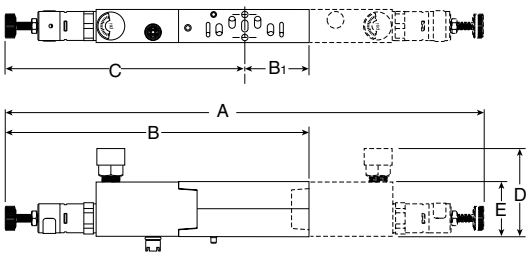


Dimensions

A	B	C	D	E
8.37 (213)	1.98 (50)	3.70 (94)	.79 (20)	7.69 (195)
F	**G**	**G1**	**H**	
2.95 (75)	.32 (8)	.37 (9)	4.49 (114)	

Inches (mm)

HB
HA



HB Dimensions

A	B	B1	C
10.28 (261)	6.14 (156)	1.02 (26)	5.13 (130)
D	**E**		
2.60 (66)	1.18 (30)		

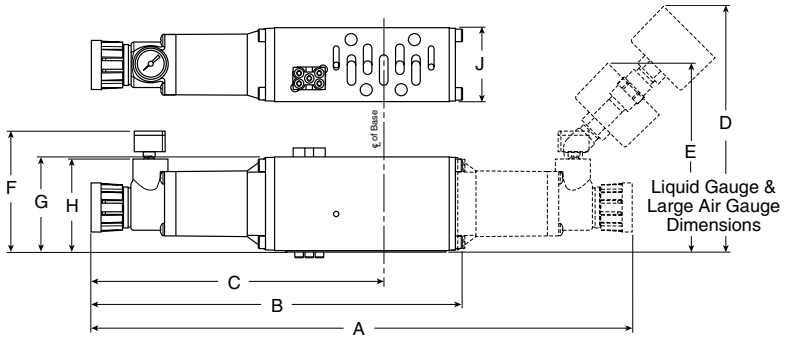
Inches (mm)

HA Dimensions

A	B	B1	C
10.02 (255)	6.43 (163)	1.41 (36)	5.01 (127)
D	**E**		
2.00 (51)	1.18 (30)		

Inches (mm)

H1

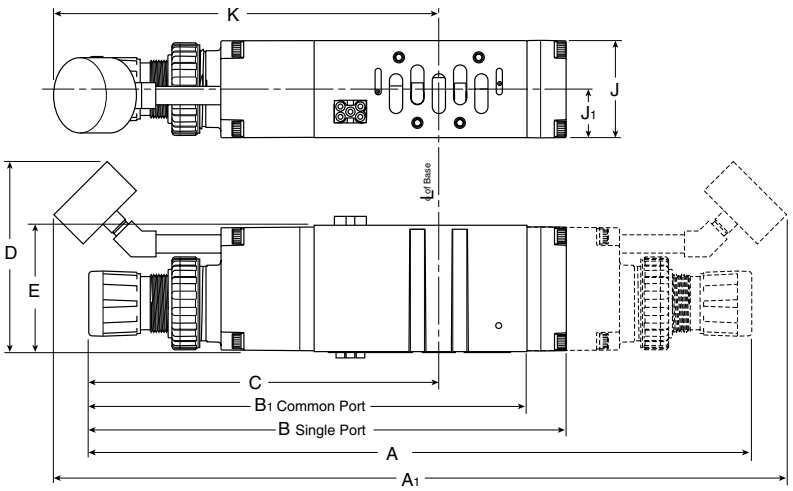


H1 Dimensions

A	B	C	D
11.84 (301)	8.13 (207)	6.40 (163)	5.45 (138)
E	**F**	**G**	**H**
4.25 (108)	2.85 (107)	2.09 (53)	2.05 (52)
J			
1.63 (41)			

Inches (mm)

H2

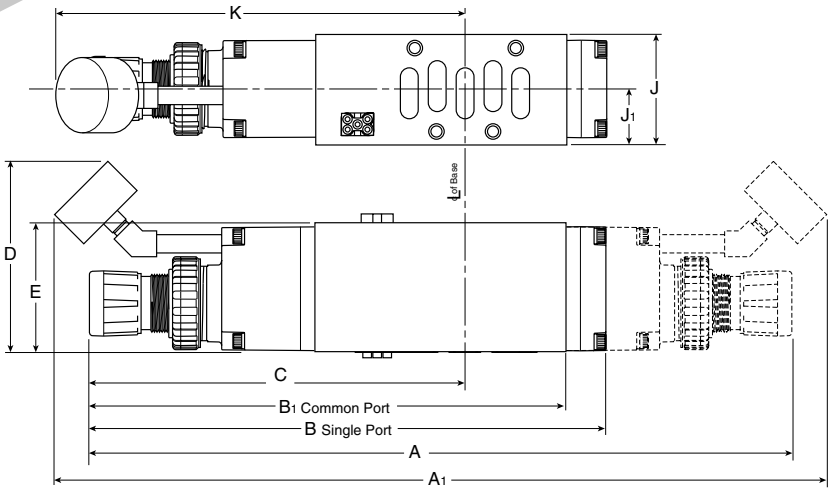


H2 Dimensions

A	A1	B	B1
14.65 (372)	16.18 (411)	10.56 (268)	9.84 (250)
C	**D**	**E**	**J**
7.71 (196)	4.20 (107)	2.80 (71)	2.15 (55)
J1	**K**		
1.07 (27)	8.50 (216)		

Inches (mm)

H3



H3 Dimensions

A	A1	B	B1
15.67 (398)	17.15 (436)	11.53 (293)	10.67 (271)
C	**D**	**E**	**J**
8.37 (213)	4.20 (107)	2.93 (75)	2.50 (64)
J1	**K**		
1.25 (32)	9.10 (231)		

Inches (mm)

L

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(Revised 10/14/05)

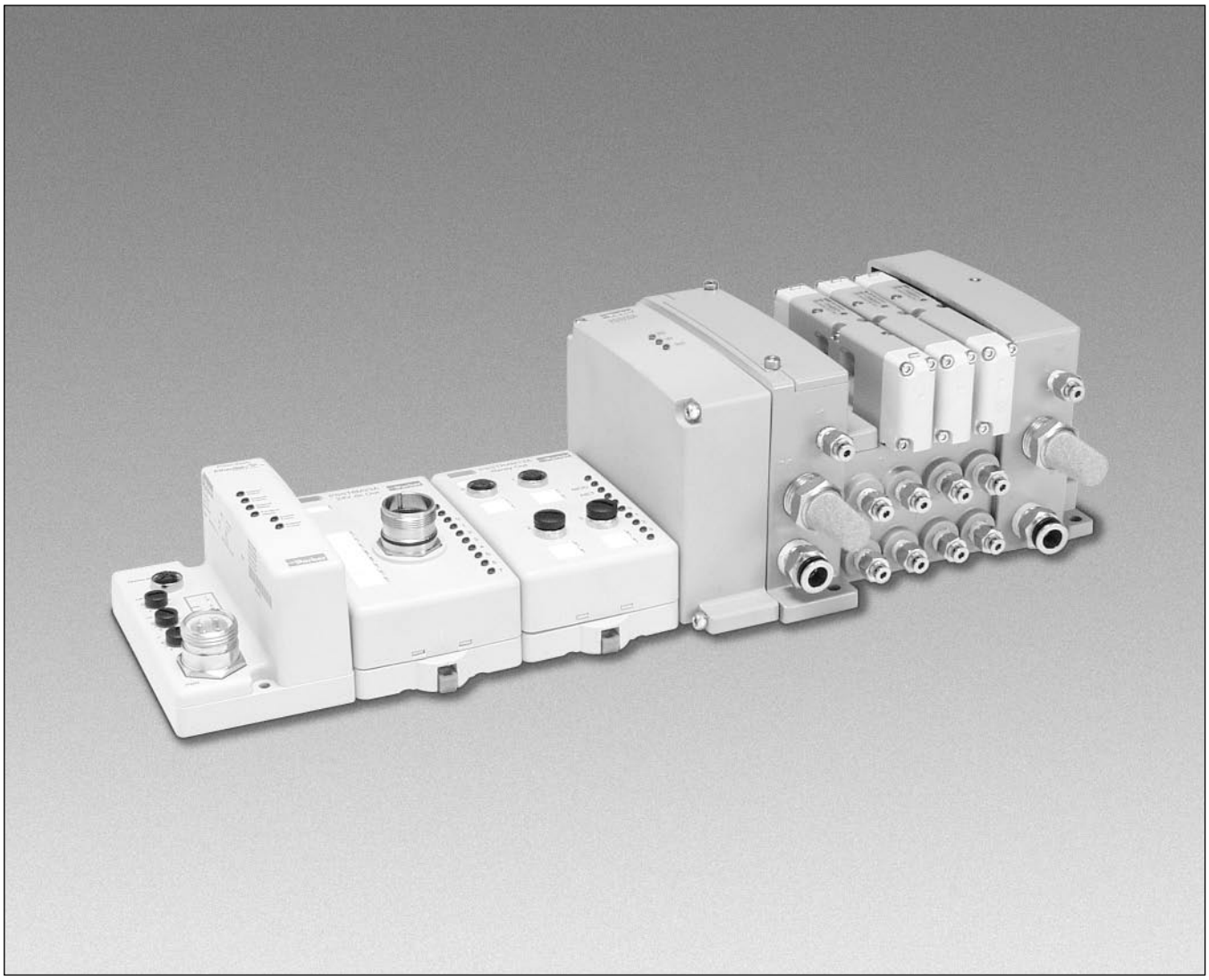
Parker Pneumatic

isysnet

Field Bus System

Section M

www.parker.com/pneu/isysnet



M

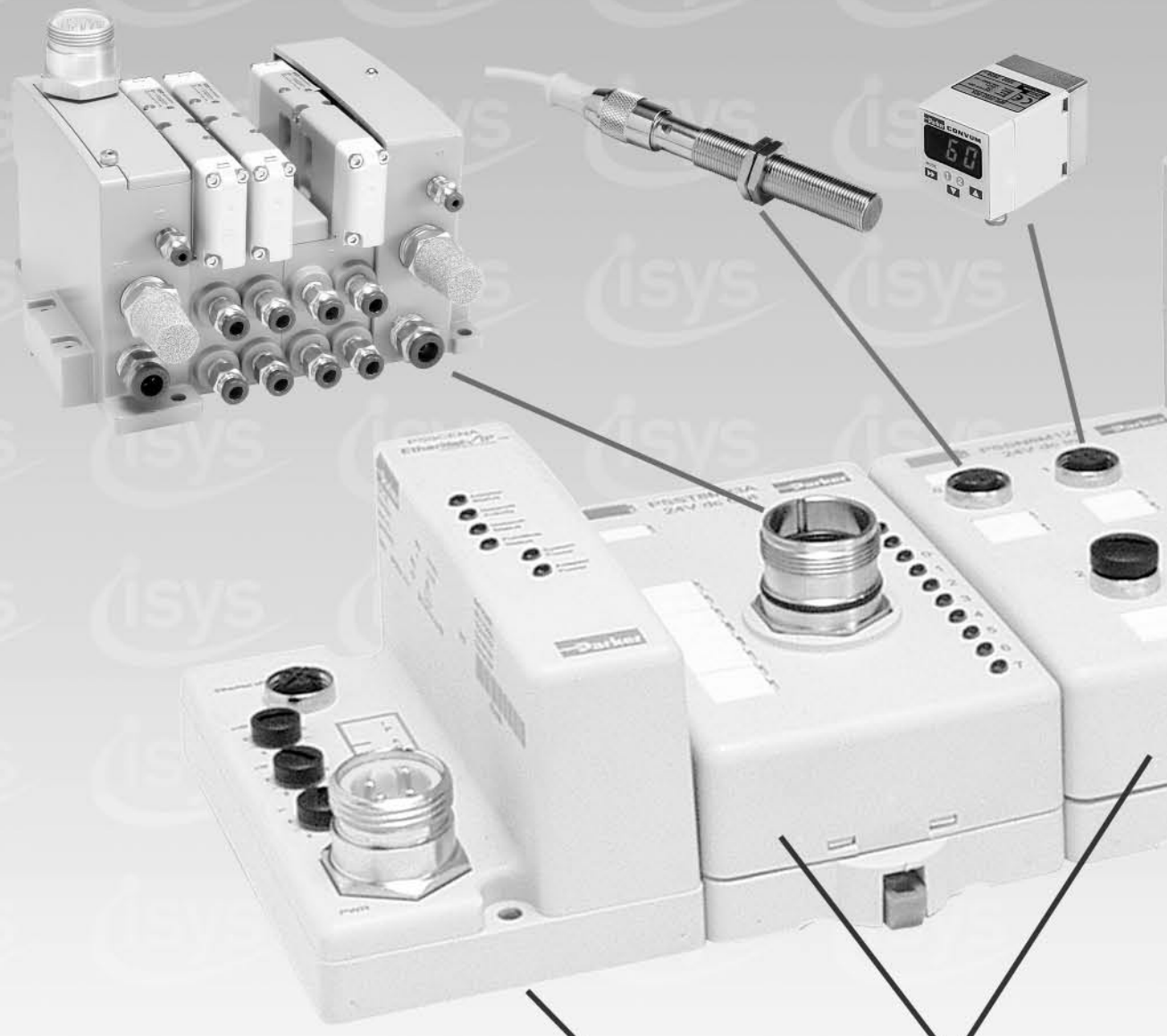
DeviceNet™ EtherNet/IP™ ControlNet™ PROFIBUS PROCESS FIELD BUS

Parker Pneumatic

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

Integrated Solution

- A complete field bus communication offering for all ISO valves.
- Extremely fast I/O backplane uses change-of-state (COS) connections to maximize performance.
- UL, C-UL and CE certifications (as marked).



Communication Modules

- A Communication Module supports up to a maximum of 62 I/O modules and up to 264 Inputs and 264 Outputs.

I/O Modules

ControlNet™ EtherNet/IP™ DeviceNet™ PROFIBUS

Parker Pneumatic

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

I/O Modules

- Accepts signals from sensors, photo eyes, limits and other field input devices.
- Provides signals to remotely operating solenoid valves and other field operating output devices.
- Choice of digital, analog, high watt I/O Modules.
- Choose from a broad range of color coded I/O types with connector choices of 8mm, 12mm or M23.
- Built-in miswiring, short circuit, open circuit detection with electronic feedback.

Modularity

- Ease of module replacement with unique latching mechanisms eliminating the need for screws.
- Auto Device Replacement allows OEMs to add I/O modules without making changes to the control software.
- Built-in panel grounding.
- Electronic and mechanical keying prevents users from placing I/O modules in the wrong sequence.

PSSCENA

PSSCCNA

Communications Module*

Protocol	Kit Number
Device**Net™**	**PSSCDM18PA** (M8) **or** **PSSCDM12A** (M12)
Control**Net**™	**PSSCCNA**
EtherNet I/P™	**PSSCENA**
Profibus-DP®	**PSSCPBA**

* IP67 Certified
Reference the following Documents for Installation Instructions.
DeviceNet - E101P, PSS-UM001A
Control Net - E103P
Ethernet I/P - E104P
Profibus-DP - E102P
See www.parker.com/pneu/isysnet

PSSN8M8A

PSSP8M23A

Digital Input Module*

Input Module	Kit Number
8 Digital Inputs M12 (NPN)	**PSSN8M12A**
8 Digital Inputs M12 (PNP)	**PSSP8M12A**
8 Digital Inputs M8 (NPN)	**PSSN8M8A**
8 Digital Inputs M8 (PNP)	**PSSP8M8A**
8 Digital Inputs M23 12-Pin (PNP)	**PSSP8M23A**
8 Digital Inputs M23 12-Pin (NPN)	**PSSN8M23A**

* IP67 Certified
Reference E106P for Installation Instructions.
See www.parker.com/pneu/isysnet

PSST8M12A

Digital Output Module*

Output Module	Kit Number
† 8 Digital Outputs M12 (PNP)	**PSST8M12A**
† 8 Digital Outputs M8 (PNP)	**PSST8M8A**
§ 4 Digital Output, High Watt Relay M12 (PNP) (2 Amp)	**PSSTR4M12A**
†‡ 8 Digital Outputs M23 (PNP)	**PSST8M23A**

* IP67 Certified
Reference the following Documents for Installation Instructions.
† E107P
§ E109P
‡ Can be used with PSSTERM (See Photo on Page 1)
See www.parker.com/pneu/isysnet

PSSNACM12A

Analog Input Module*

Input Module	Kit Number
2 Analog Inputs Voltage (M12) 0 to 10V ± 10V	**PSSNAVM12A**
2 Analog Inputs Current (M12) 4 to 20mA or 0 to 20mA	**PSSNACM12A**

* IP67 Certified
Reference E110P for Installation Instructions.
See www.parker.com/pneu/isysnet

PSSTACM12A

Analog Input Module*

Output Module	Kit Number
2 Analog Outputs Voltage (M12) 0 to 10V ± 10V	**PSSTAVM12A**
2 Analog Outputs Current (M12) 4 to 20mA or 0 to 20mA* IP67 Certified	**PSSTACM12A**

* IP67 Certified
Reference E111P for Installation Instructions.
See www.parker.com/pneu/isysnet

PSSTERM

Terminating Base Module

Extender Module	Kit Number
Termination Base for Stand Alone Units	**PSSTERM**

Used as the last Terminating Module for a Stand Alone isysnet Assembly.
Must use with PSST8M23A. (See photo on page 1)

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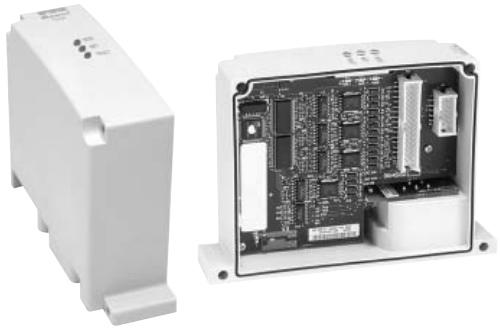

PSSV32A

Valve Driver Module*

Driver Module	Kit Number
32 Point Module – HB, HA, H1, H2, H3	**PSSV32A†**
24 Output Cable – HB, HA	**PS5624P**
25 - 32 Output Cable – HB, HA	**PS5632P**
24 Output Cable – H1, H2, H3	**PS4024P**

* Included in the Add-A-Fold Assembly part number for factory assembled valve manifolds.
† Reference Document E100P for Installation Instructions. See www.parker.com/pneu/isysnet

Power Extender Module

Extender Module	Kit Number
24VDC Field Power Module	**PSSSE24A**

A Power Extender Module must be used on every 12th Module in an isysnet Assembly. See www.parker.com/pneu/isysnet

Communication Modules Recommended Cables

isysnet Module Part Number	Module Function / Description	Module Connector Quantity & Style	Recommended Cable*†	Auxiliary Power Connector	Recommended Standard Allen Bradley Auxiliary Power Cable*†
PSSCDM12A	DeviceNet Communication Module	1 Macro (M12) 5-Pin Male (DNet In) & 1 Micro (M12) Female (DNet Out)	KwikLink Flat Media System Standard Drop Cable: 1485K-PzF5-R5 Thick Round System Standard Drop Cable: 1485R-PzM5-R5 Thin Round System Standard Drop or Trunk: 1485R-PzM5-N5	4-Pin Mini	Standard Allen Bradley Cordset (Single Ended) 889N-F4AFC-xF Standard Allen Bradley Patchcord (Double Ended) 889N-F4AFNM-y
PSSCDM18PA	DeviceNet Communication Module	1 Mini 5-Pin Male (DNet In) & 1 Mini 5-Pin Female (DNet Out)	KwikLink Flat Media System Standard Drop Cable: 1485K-PzF5-N5 Thick Round System Standard Drop Cable: 1485R-PzM5-N5 Thin Round System Standard Drop or Trunk: 1485R-PzN5-M5		
PSSCPBA	Profibus Communication Module	1 Profibus M12 Male (Pbus In) & 1 Profibus M12 Female (Pbus Out)	—	5-Pin Mini	Standard Allen Bradley Cordset (Single Ended) 889N-F5AFC-xF
PSSCENA	EtherNet I/P Communication Module	1 4-Pin D-Keyed M12 EtherNet Male Connector	—	4-Pin Mini	Standard Allen Bradley Patchcord (Double Ended) 889N-F4AFNM-y

x = Length in feet (6, 12, and 20 standard)

y = Length in meters (1, 2, 3, 4, 5, 6, and 10 standard)

z = Length in meters (1, 2, 3, 4, 5, 6 standard)

* Reference www.connector.com (Brad Harrison 804 Series) for Cordset Listings

† Rockwell Automation (Allen Bradley) Cordsets are available at www.rockwellautomation.com or through your local Rockwell Automation Distributor.

Digital Inputs

isysnet Module Part Number	Module Function / Description	Module Connector Quantity & Style	Recommended Standard Allen Bradley Patchcord or Y-Cable (Double Ended)*†	Recommended Standard Allen Bradley Auxiliary Power Cable*†
PSSN8M12A or PSSP8M12A	24VDC 8-Sinking / Sourcing Inputs	4 Female DC Micro (M12) Single Keyway, 4-Pin	For Using Both Inputs On Each Connector: 879D-F4ACDM-x For Using One Input Per Connector: 889D-F4ACDM-x	For Using Both Inputs On Each Connector 879-C3AEDM4-5 For Using One Input Per Connector: 889D-M4AC-x
PSSN8M8A or PSSP8M8A	24VDC 8-Sinking / Sourcing Inputs	8 Female Pico (M8) 3-Pin	For 3-Pin Pico Product 889P-F3ABPM-x	889P-M3AB-y
PSSN8M23A or PSSP8M23A	24VDC 8-Sinking / Sourcing Inputs	1 M23 Connector	—	889M-M12AH-T

x = Length in meters (1, 2, 3, 4, 5 and 10 standard)

y = Length in meters (2, 5 and 10 standard)

* Reference www.connector.com (Brad Harrison 804 Series) for Cordset Listings

† Rockwell Automation (Allen Bradley) Cordsets are available at www.rockwellautomation.com or through your local Rockwell Automation Distributor.

Digital Outputs

isysnet Module Part Number	Module Function / Description	Module Connector Quantity & Style	Recommended Standard Allen Bradley Patchcord or Y-Cable (Double Ended)*†	Recommended Standard Standard Allen Bradley Auxiliary Power Cable*†
PSST8M12A	24VDC 8-Sourcing Outputs	4 Female DC Micro (M12) Single Keyway, 4-Pin	For Using Both Inputs On Each Connector: 879D-F4ACDM-x For Using One Input Per Connector: 889D-F4ACDM-x	For Using Both Inputs On Each Connector: 879-C3AEDM4-5 For Using One Input Per Connector: 889D-M4AC-x
PSSP8M8A	24VDC 8-Sourcing Inputs	8 Female Pico (M8) 3-Pin	For 3-Pin Pico Product 889P-F3ABPM-x	889P-M3AB-y
PSSTR4M12A	24VDC Coil N.O. DPST Relay	4 Female DC Micro (M12) Single Keyway, 4-Pin	889D-F4ACDM-x	889D-M4AC-y

x = Length in meters (1, 2, 3, 4, 5 and 10 standard)

y = Length in meters (2, 5 and 10 standard)

* Reference www.connector.com (Brad Harrison 804 Series) for Cordset Listings

† Rockwell Automation (Allen Bradley) Cordsets are available at www.rockwellautomation.com or through your local Rockwell Automation Distributor.

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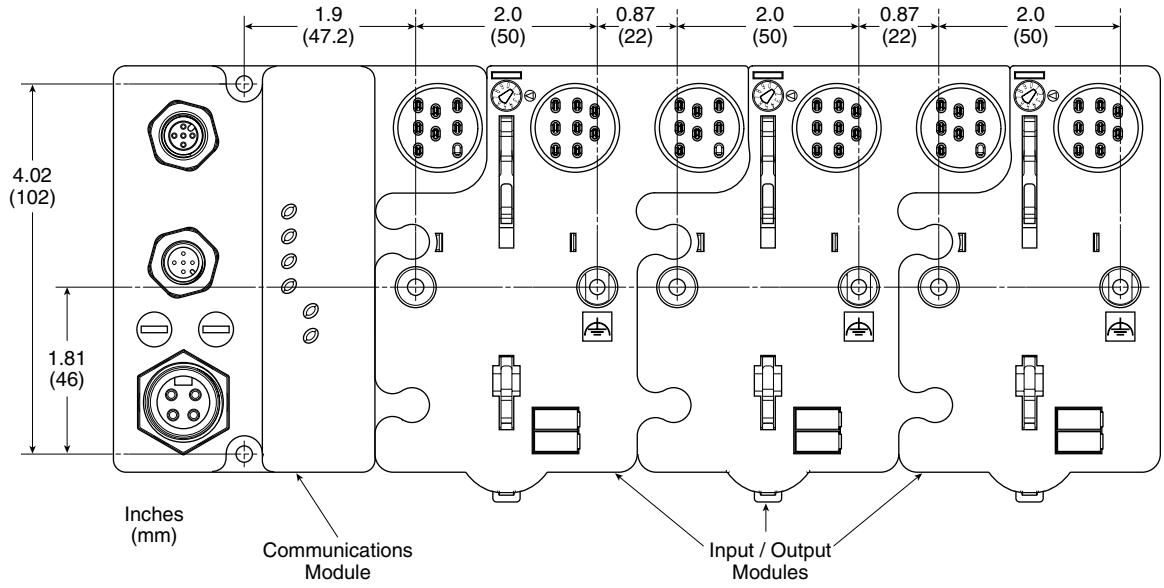
Analog

isysnet Module Part Number	Module Function / Description	Module Connector Quantity & Style	Recommended Standard Allen Bradley Patchcord or Y-Cable (Double Ended)*†	Recommended Standard Allen Bradley Auxiliary Power Cable*†
PSSNACM12A	24VDC 2-Analog Current Input	2 Female DC Micro (M12) Single Keyway, 4-Pin	Analog Modules have earth grounded metal rings. Consideration should be given when choosing shielded cabled and grounding techniques.	
PSSNAVM12A	24VDC 2-Analog Voltage Input	2 Female DC Micro (M12) Single Keyway, 4-Pin		
PSSTACM12A	24VDC 2-Analo Current Input	2 Female DC Micro (M12) Single Keyway, 4-Pin		
PSSTAVM12A	24VDC 2-Analog Voltage Input	2 Female DC Micro (M12) Single Keyway, 4-Pin		

* Reference www.connector.com (Brad Harrison 804 Series) for Cordset Listings

† Rockwell Automation (Allen Bradley) Cordsets are available at www.rockwellautomation.com or through your local Rockwell Automation Distributor.



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