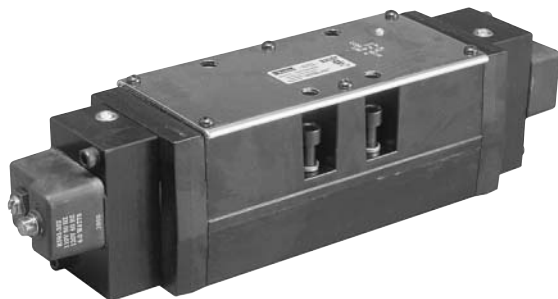




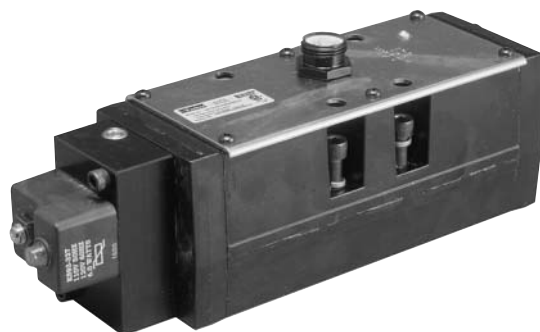
"H4" 5599-2 Valve



Single Solenoid, 2-Position		
	H41VXBGA53A	120VAC
	H41VXBGAB9A	24VDC
Double Solenoid, 2-Position		
	H42VXBGA53A	120VAC
	H42VXBGAB9A	24VDC
Double Solenoid, 3-Position APB		
	H45VXBGA53A	120VAC
	H45VXBGAB9A	24VDC

NLMOR, Lighted, Valve Less Base

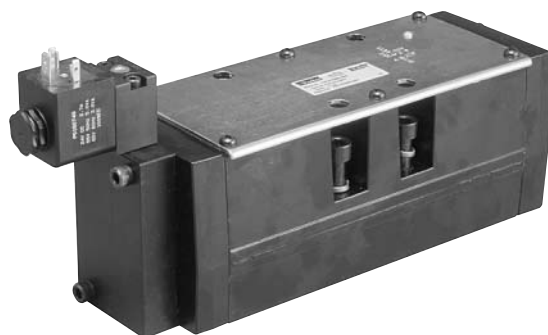
"H4" 5599-1 AUTO Valve



Single Solenoid, 2-Position		
	H41WXBG383000*A	120VAC
	H41WXBG2B9000*A	24VDC
Double Solenoid, 2-Position		
	H42WXBG383000*A	120VAC
	H42WXBG2B9000*A	24VDC
Double Solenoid, 3-Position APB		
	H45WXBG383000*A	120VAC
	H45WXBG2B9000*A	24VDC

NLMOR, Lighted, with Surge Suppression, Valve Less Base
120VAC – 5-Pin Mini; 24VDC – 4-Pin M12 Micro
*Specify C, F, or G Wiring Code

"H4" 5599-1 CNOMO Valve



Single Solenoid, 2-Position		
	H41WXBBL53A	120VAC
	H41WXBBL49A	24VDC
Double Solenoid, 2-Position		
	H42WXBBL53A	120VAC
	H42WXBBL49A	24VDC
Double Solenoid, 3-Position APB		
	H45WXBBL53A	120VAC
	H45WXBBL49A	24VDC

NLMOR, Unlighted, 30mm 3-Pin DIN with CNOMO,
Valve Less Base



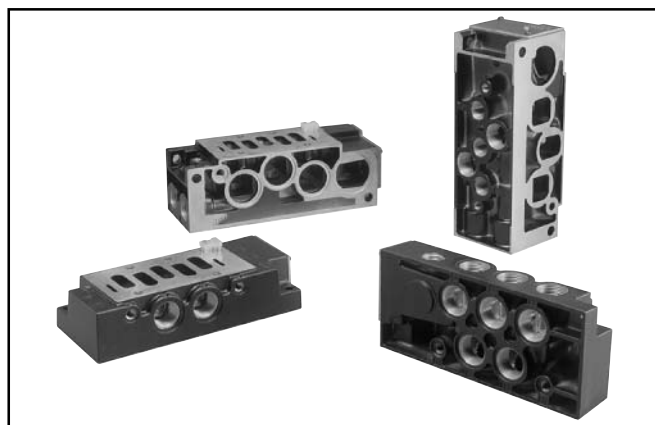
BOLD OPTIONS ARE STANDARD

Basic Series	Operator/ Function	Mounting/ Base Style	Port Size/ Thread Type	Pilot Source/ Pilot Exhaust	Overrides/ Lights	Enclosure/ Lead Length	Voltage & Frequency	Options	Automotive Connector Wiring Options	Engineering Level	
H4	1	1	9	B	G	A	53	---	-	A	
Basic Series H4 ISO Size 4		Mounting / Base Style 1 Subbase, Side Ports 2 Subbase, Bottom / Side Ports 6 Manifold, Bottom / End Ports V Valve Less Base: 5599-2 W Valve Less Base: 5599-1	Port Size / Thread Type 9 3/4" NPT 0* 3/4" BSPP "G" X Valve Less Base * BSPP ISO 1179 Specifications.	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".	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".			Options Blank None 000 None, Automotive Wiring These characters are to be left blank unless an Automotive Connector Option is specified.	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".	Engineering Level A Current	
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 A 6" Leads 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				Voltage & Frequency CoilAC60Hz50HzDCOverride/Light 5599-2 / 5599-1 AUTO B9*24G, H 4924G, H 53120110G, H XXRemote Pilot Valve 5599-1 CNOMO 19†24G, H 4224B, C 4512B, C 4924B, C 53120110B, C 57240B, C XXRemote Pilot Valve or CNOMO Mounting - No 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".	
						* LED / Surge Suppression / Low Watt / Blue Coil. † LED / Surge Suppression / Low Watt					



Manifold and Subbase Kit Ordering Code

Basic Series	Mounting / Base Style	Port Size / Thread Type	Enclosures / Lead Length	Factory Designator
PS43	H4	1	9	A
	1 Subbase, Side Port 2 Subbase, Bottom / Side Port 6 Manifold, Bottom / End Port	9 3/4" NPT 0 3/4" BSPP "G"	0 None, No Electrical Plug A 6" Leads	P



End Plate

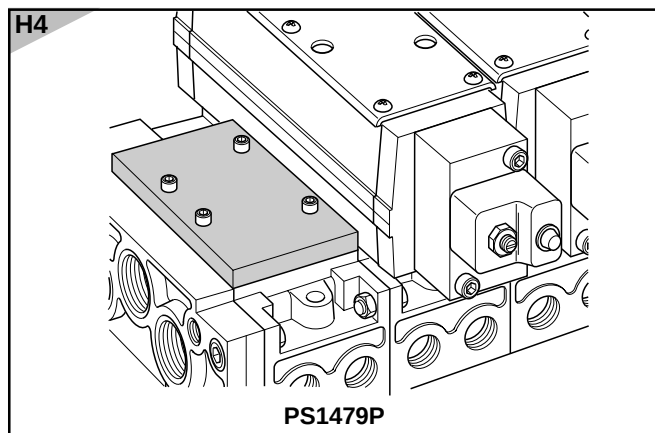
Size	Port Size	Kit Number	
		NPT	BSPP "G"
H3	1"	PS1437P	PS1480P



Mounting / Base Style **H4**

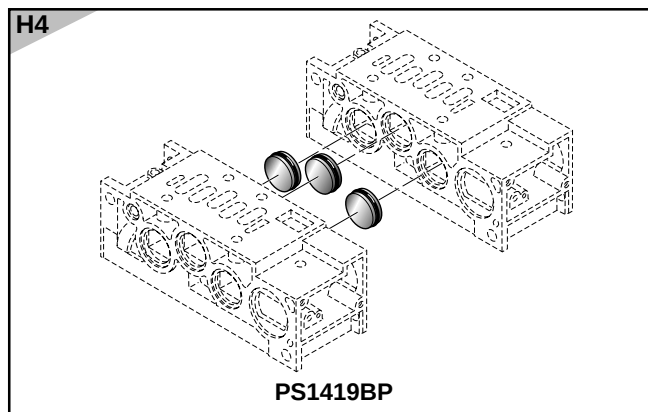
- #1, #2, #3, #4, and #5 Side Ports Tapped 3/4";
#12 & #14 Side Pilot Ports Tapped 1/8"
- #1, #2, #3, #4, and #5 Bottom Ports Tapped 3/4";
#1, #2, #3, #4, and #5 Side Ports Tapped 1/2";
#12 & #14 Bottom Pilot Ports Tapped 1/8"
- #2 and #4 End Ports Tapped 3/4";
#2 and #4 Bottom Ports Tapped 3/4";
#1,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

Blanking Plate



Manifold Port Isolation

- Main Galley (1, 3, 5)





Flow Rating (C_v)

Size	Port Size	Mounting Style	2-Position	3-Position
H4	3/4"	Subbase	7.4	5.2
	3/4"	Manifold	7.4	5.2

CSA / NRTL-C

5599-2 / 5599-1 AUTO

H4 – Standard 150 PSI

5599-1 CNOMO

H4 – Maximum Pressure 115 PSI

Insert an 'L' at the end of the valve part number.

Temperature Rating

-15°C to 50°C (5°F to 120°F) ambient

Operating Pressure

275 to 1035 kPa (40 to 150 PSI)

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.

Field Conversion of Pilot Supplies

CAUTION: Turn air and electrical supplies off before servicing unit.

H1 H2 H3 (Engineering Level 'A')

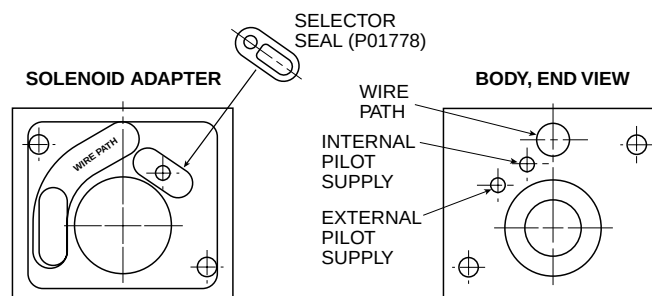
1. Remove solenoid coil so that you can access and remove the adapter block at the #14 end (and/or #12 end).
2. Remove air return end cap at the #12 end.

Note: Valve body has two pilot holes (internal & external). The internal pilot hole is the one located closest to the wire path hole.

3. Position the selector seal into its groove to connect the supply air (from the valve body) to either internal or external pilot supply. The figure shows the external pilot supply being selected.

Note: The same selection of seal positioning needs to be made at both the 12 & 14 ends.

4. Reassemble unit using the reverse order that it was taken apart.
5. External pilot supply can now be accessed from the 12 or 14 end of the base.



Note: "H3" selector seal recess is in the valve body.



Spool and Body Service Kits (Engineering Level 'A')

Size	2-Position	3-Position			Kit Includes:
		APB	CE	PC	
H1	PS4001P	PS4002P	PS4003P	PS4004P	Spool with seals, piston seals, return spring and lubricant.
H2	PS4101P	PS4102P	PS4103P	PS4104P	
H3	K232024 * K343094 †	K232021	K323023	K232022	Spool Kit
	K352419 * K352420 †	K352420	K352420	K352420	Valve body o-rings, piston seals and lubricant.
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.

Solenoid Information (Engineering Level 'A')

Voltage Range +10% / -15% of Nominal

5599-2 5599-1 AUTO

Voltage Code	Voltage			Coil Kit Number		Power Consumption (Watts)	AC		DC
	60Hz	50Hz	DC	With Indicator Light	Unlighted		Inrush (Amps)	Hold (Amps)	Hold (Amps)
B9*	—	—	24	K252 030*	—	3.1	—	—	0.105
42**	24	—	—	—	K252 031	6.0	.60	.41	—
43	—	24	—	—	K252 032	6.0	.57	.40	—
45**	—	—	12	—	K252 032	6.0	—	—	.47
49	—	—	24	K252 033	—	6.0	—	—	.23
51	—	—	48	—	K252 035	6.0	—	—	.14
53	120	110	—	K252 036	—	6.0	.12	.10	—
				K252 040† ‡	—				
57**	240	—	—	—	K252 038	6.0	.07	.045	—
59**	—	240	—	—	K252 039	6.0	.07	.033	—
23 / 83** ‡	120	110	—	K252 040‡	—	6.0	.12	.10	—

* Low watt with surge suppression (Blue).

** Voltages available as kits only.

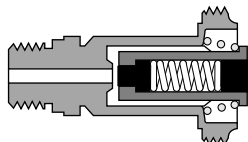
† Replacement coil when Automotive Option "C", "F", & "G" are specified in the valve model number.

‡ This coil contains an MOV as standard for surge suppression.

5599-2 5599-1 AUTO

Plunger & Guide Assembly (Engineering Level 'A')

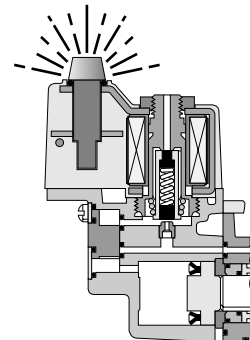
K232 025 Standard Voltages
K232 049 B9 Low Watt Voltage Code (Blue Coil)
Includes: Plunger, Plunger Guide and Spring



5599-2 5599-1 AUTO

Replacement Indicator Light (Engineering Level 'A')

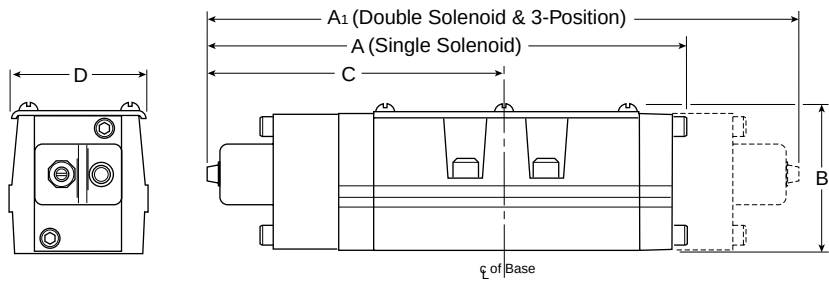
K252 008 24VDC
K252 009 120VAC
Includes: Light and O-ring





H4

5599-2

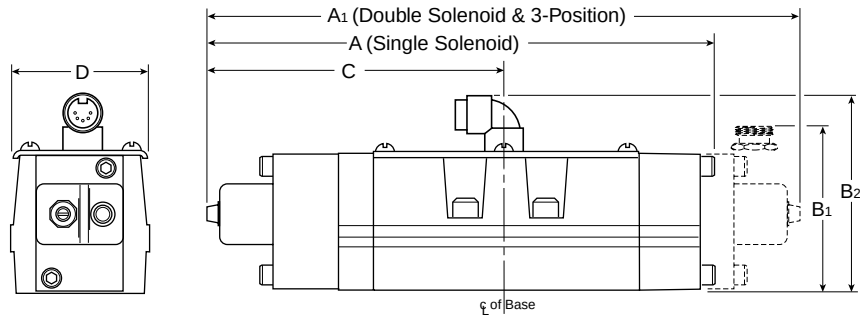


Dimensions

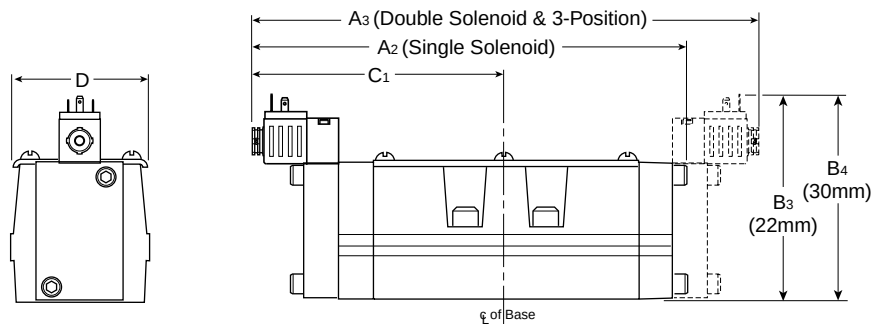
A	A ₁	A ₂	A ₃	A ₄
11.37 (289)	13.83 (351)	11.00 (279)	13.08 (332)	8.92 (267)
A ₅	B	B ₁	B ₂	B ₃
9.30 (236)	3.49 (89)	4.00 (102)	4.81 (122)	4.82 (122)
B ₄	C	C ₁	C ₂	D
5.13 (130)	6.92 (176)	6.54 (166)	4.46 (113)	3.21 (82)

Inches (mm)

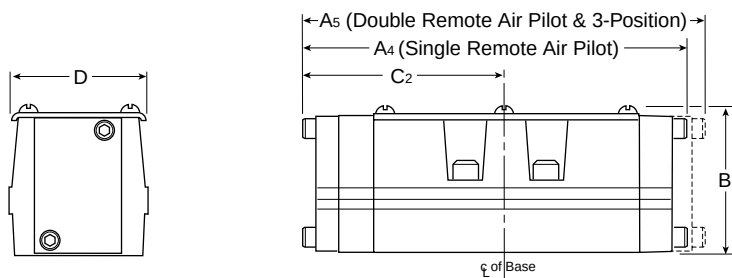
5599-1 Auto



5599-1 DIN



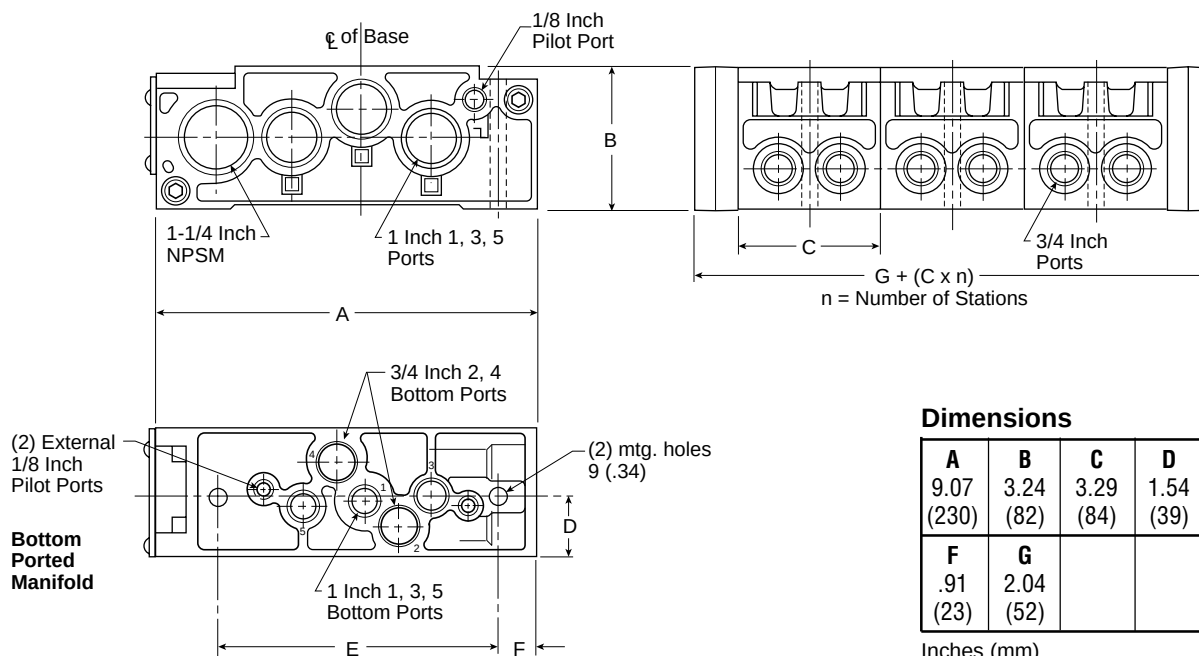
5599-2 / 5599-1 Remote Pilot



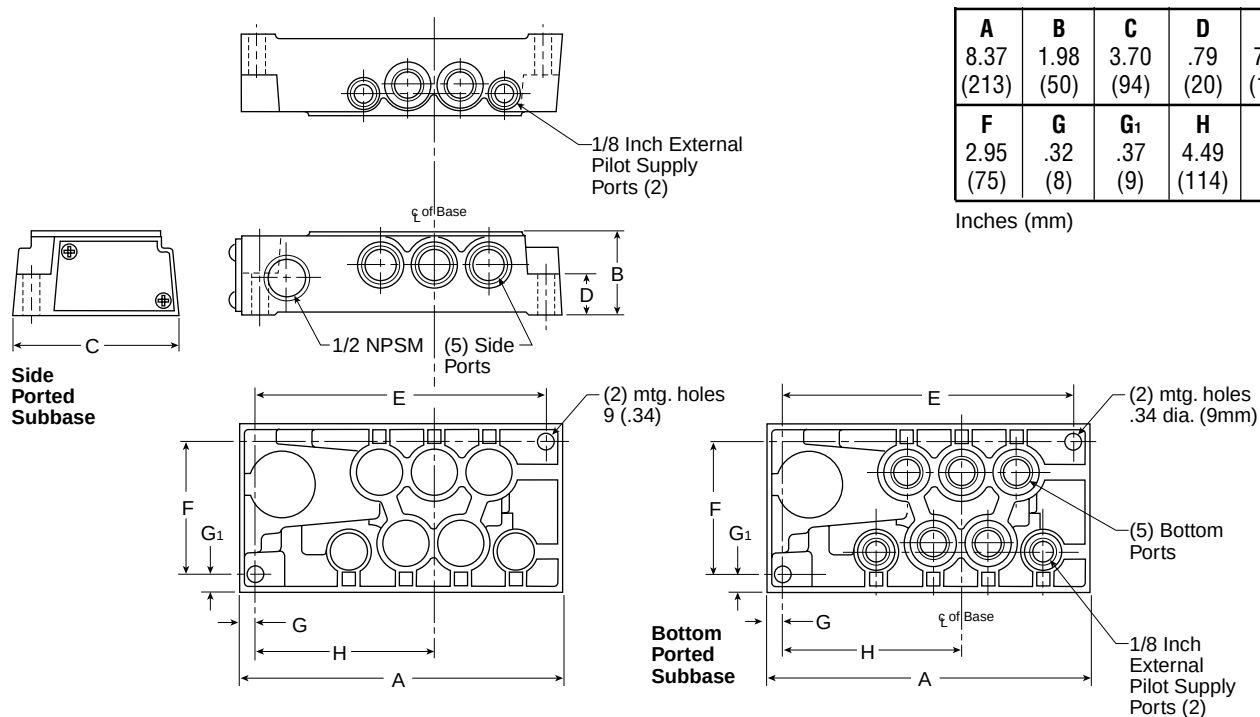


H4

H4 5599-2 / 5599-1 Manifold



H4 5599-2 / 5599-1 Subbase





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