

MODEL CODE BREAKDOWN

RM_03G1A-A^C@\$##D

- Material Code () A Aluminum Body
D Ductile Iron Body
- Adjustment Code (^) L Standard Screw
- Seal Material Code (@) N Buna
V Viton
- Rest Condition Code (\$) C Normally Closed (Slow)
H Normally Open (Fast)
- Voltage Code (##) 11 110 Vac
24 24 Vdc

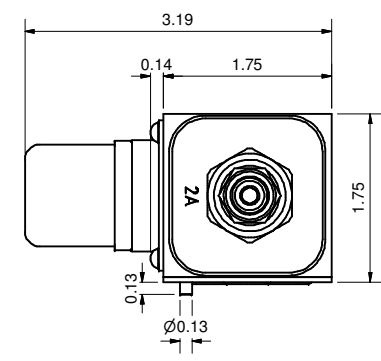
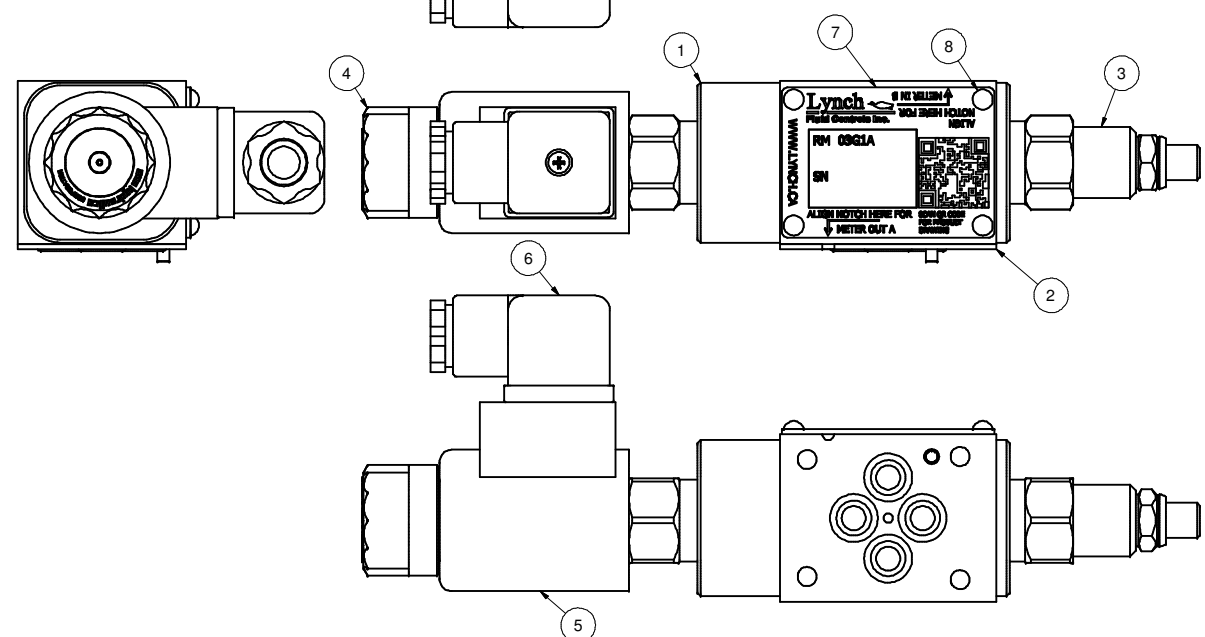
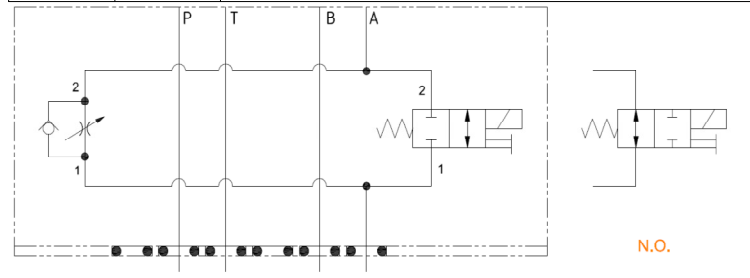
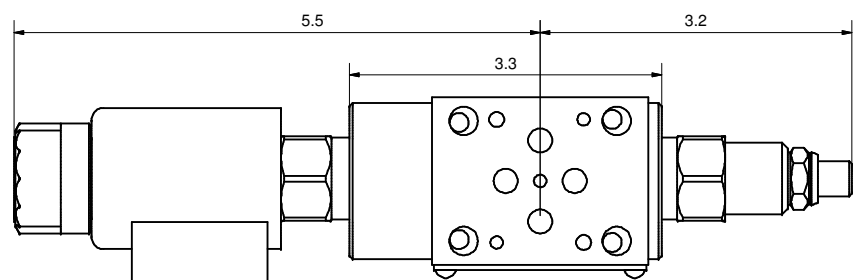


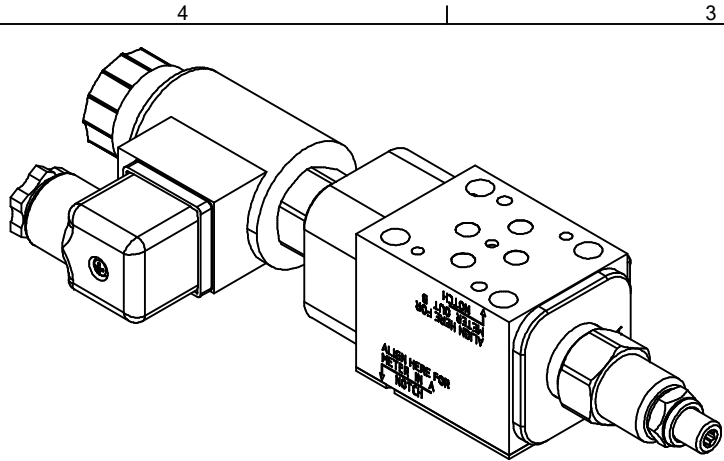
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DATA UNIT: INCH
3RD ANGLE PROJECTION

DWG NO	RM_03G1A-A^C@\$##D	REV	-
MODEL CODE	RM_03G1A-A^C@\$##D		
TITLE	2 Speed D03 Sandwich Module M/O A Direct Acting Spool Needle w/ FF Check		

Bill of Material		
ITEM	QTY	DESCRIPTION
1	1	Manifold Body
2	1	Seal Plate
3	1	[Flow Control] Fully adjustable needle valve with reverse flow check
4	1	[Solenoid] 2-way, solenoid-operated directional spool valve
5	1	Coil
6	1	Connector
7	1	Nameplate
8	4	Screws





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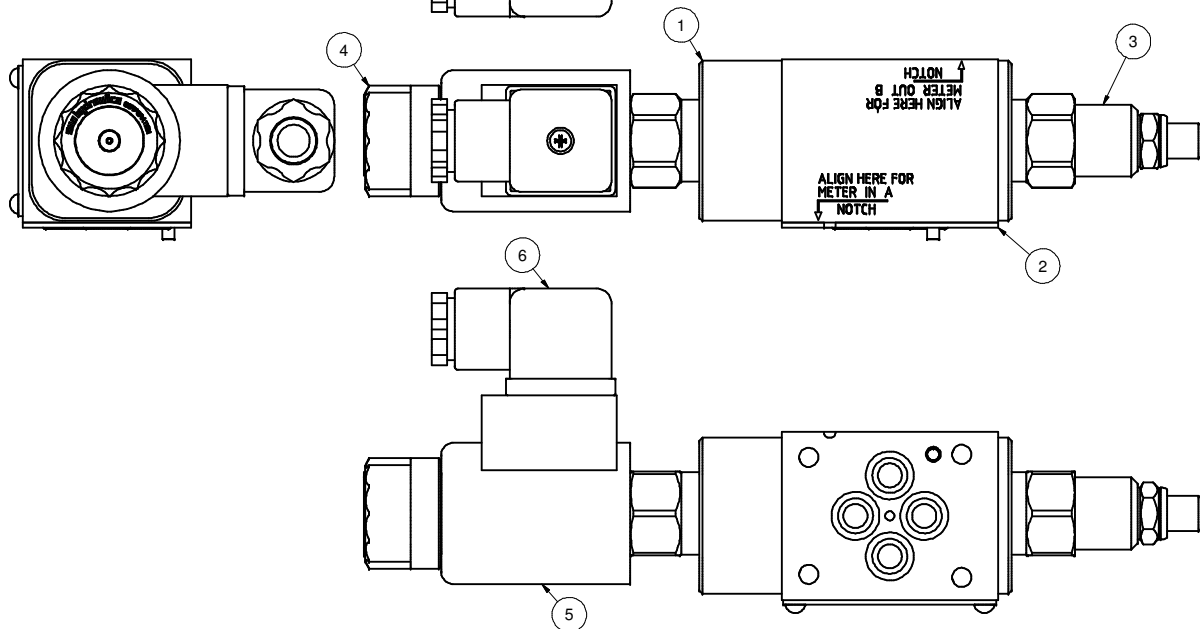
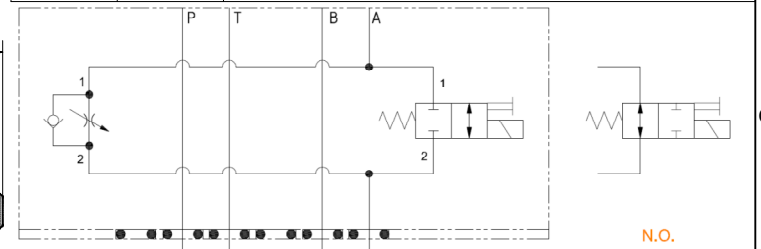
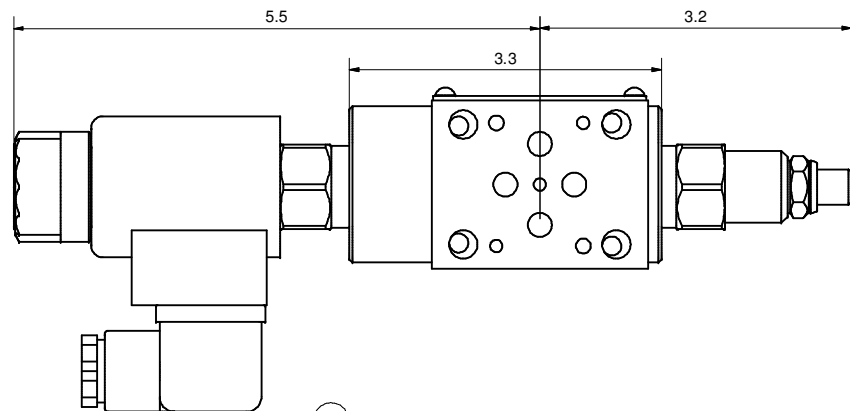
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Fluid Controls Inc.

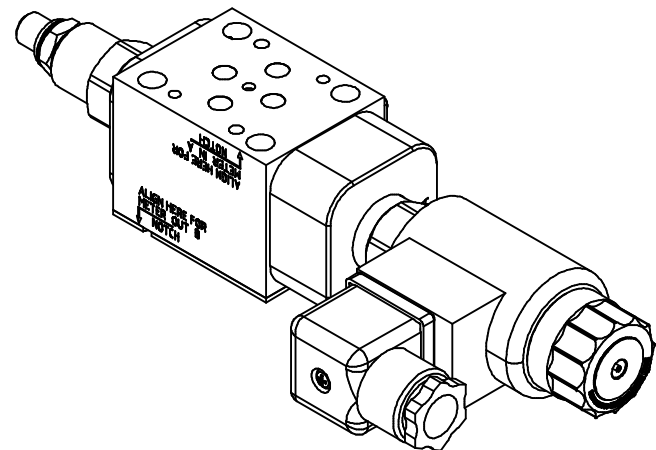
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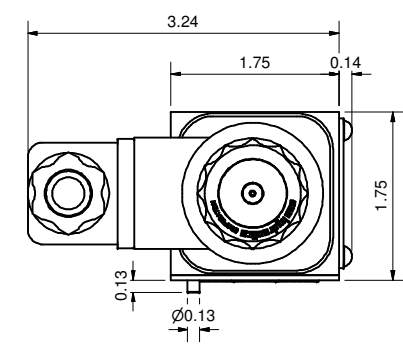
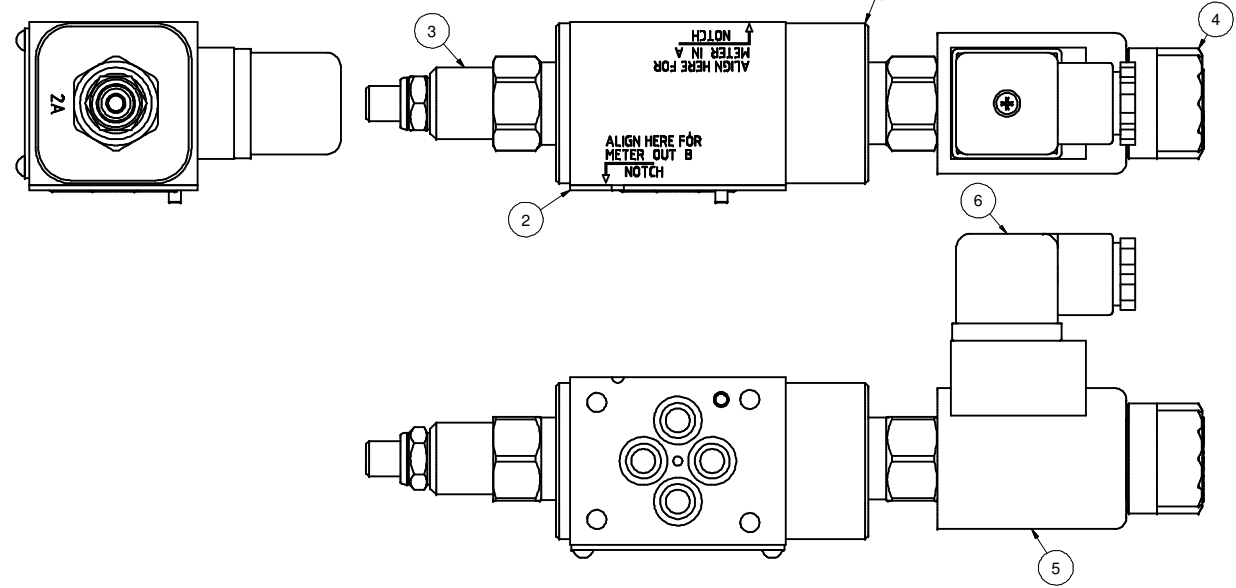
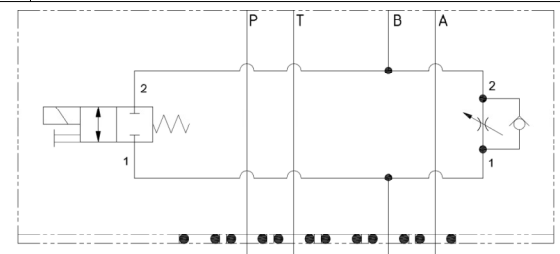
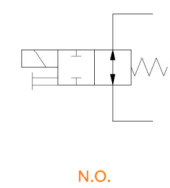
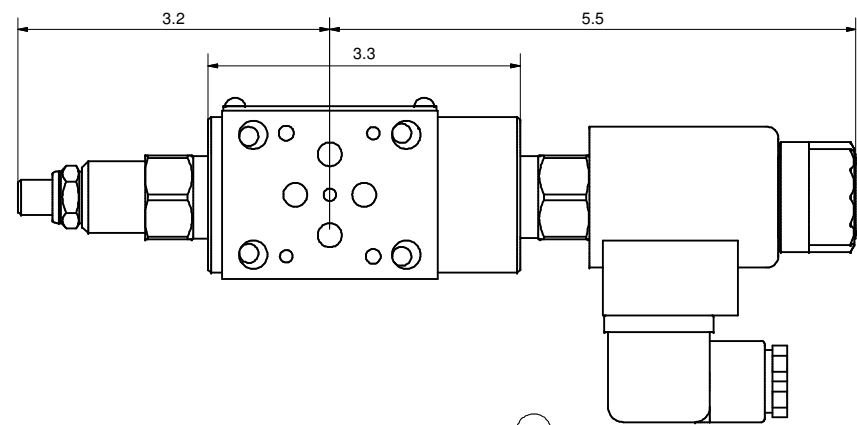
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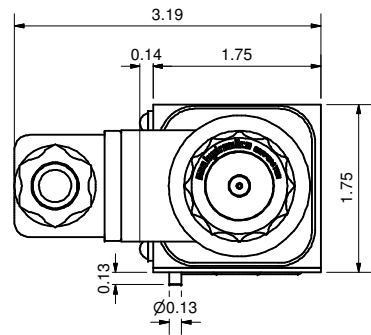
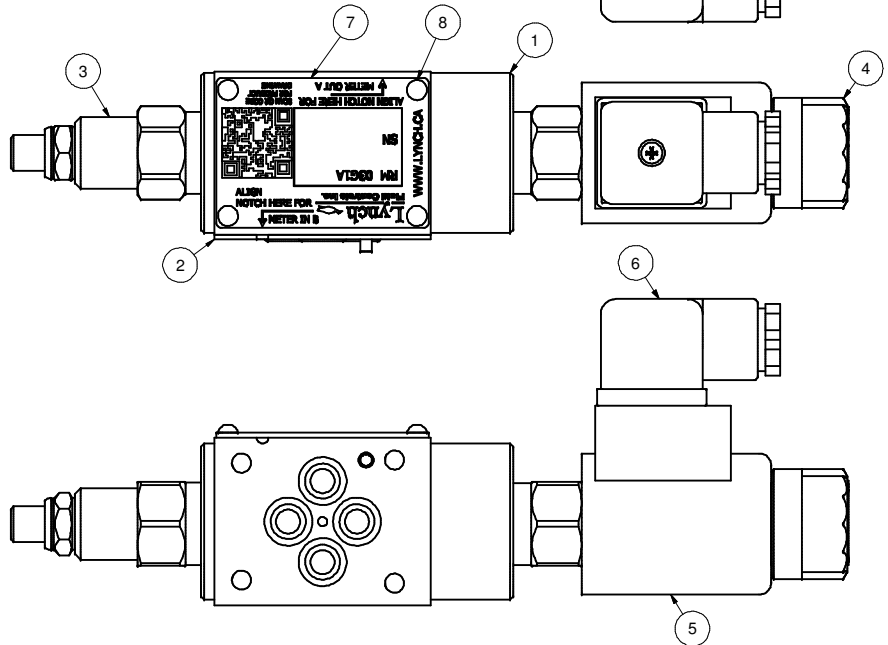
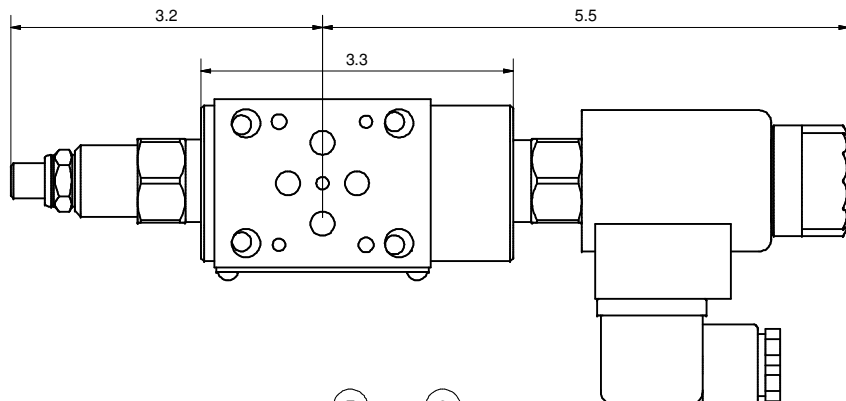
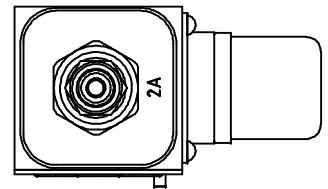
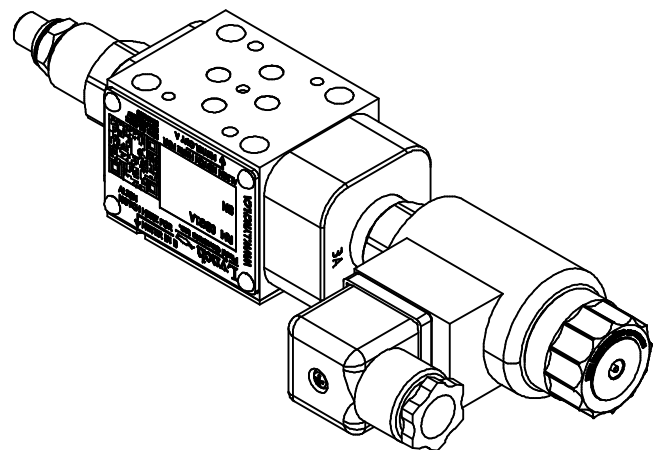
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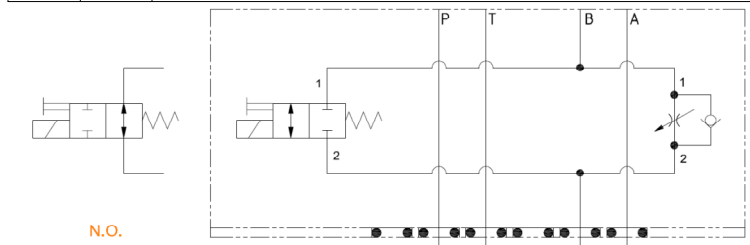


Diagram of the Lynch 6861A flowmeter assembly. The assembly includes a flowmeter body with a label that reads: "Lynch", "Flow Controls Inc.", "RM 6861A", "SN", "ALARM SWITCH HERE FOR", "PISTON OIL A". The label also features a QR code and the text "90° NO VOLUME", "90° NO FLOW", "90° NO FLOW", "90° NO FLOW". The assembly is shown with a dimension line indicating a length of 9.6. A callout "3B" points to a specific feature on the right side of the assembly.



DWG NO	RM_03G1A-A^C@\$##D	REV	-
MODEL CODE	RM_03G1A-A^C@\$##D		
TITLE	Technical Data & Non-Standard Options		

Bill of Material		
ITEM	QTY	DESCRIPTION
3	1	[Flow Control] Fully adjustable needle valve with reverse flow check
3A	1	[Flow Control] Fully adjustable needle valve with reverse flow check [Hand-Knob]
3B	1	[Flow Control] Fully adjustable needle valve with reverse flow check [Calibrated Hand-Knob]

The figure contains two side-by-side graphs. The left graph is titled "Reverse Flow Pressure Drop with Needle Closed". The y-axis is labeled "P = psi" and ranges from 0 to 300. The x-axis is labeled "Q = GPM" and ranges from 0 to 15. A red curve shows pressure drop increasing with flow rate, starting near 0 at 0 GPM and reaching approximately 280 psi at 15 GPM. The right graph is titled "Adjustment Sensitivity at 100 psi Differential". The y-axis is labeled "Q = GPM" and ranges from 0 to 6. The x-axis is labeled "Number of Turns" and ranges from 0 to 5. A red curve shows flow rate increasing with the number of turns, starting near 0 at 0 turns and reaching approximately 5.5 GPM at 5 turns.

Valve Performance Limits
@ 10% Undervoltage & Stabilized Coil Temp.

This graph shows the pressure differential (psi) on the y-axis (0 to 5000) versus flow (gpm) on the x-axis (0 to 12). The curves represent the performance limits for different valve configurations: C (2 to 1), H (2 to 1), C (1 to 2), and H (1 to 2). The C (2 to 1) and H (2 to 1) curves are solid lines, while the C (1 to 2) and H (1 to 2) curves are dashed lines. The C (2 to 1) curve starts at approximately 4500 psi at 5 gpm and decreases to about 2000 psi at 12 gpm. The H (2 to 1) curve starts at approximately 4500 psi at 5 gpm and decreases to about 1000 psi at 12 gpm. The C (1 to 2) curve starts at approximately 3000 psi at 5 gpm and decreases to about 1500 psi at 12 gpm. The H (1 to 2) curve starts at approximately 3000 psi at 5 gpm and decreases to about 500 psi at 12 gpm.

psi

5000
4000
3000
2000
1000
0

0 2 4 6 8 10 12 gpm

C (2 to 1)
H (2 to 1)
C (1 to 2)
H (1 to 2)

Typical Performance
Pressure Differential vs. Flow

This graph shows the pressure differential (psi) on the y-axis (0 to 200) versus flow (gpm) on the x-axis (0 to 12). The curves represent the typical performance for different valve configurations: C (1 to 2), C (2 to 1), H (1 to 2), and H (2 to 1). All curves are solid lines and show an increasing trend. The C (1 to 2) curve starts at 0 psi at 0 gpm and increases to about 175 psi at 12 gpm. The C (2 to 1) curve starts at 0 psi at 0 gpm and increases to about 150 psi at 12 gpm. The H (1 to 2) curve starts at 0 psi at 0 gpm and increases to about 100 psi at 12 gpm. The H (2 to 1) curve starts at 0 psi at 0 gpm and increases to about 75 psi at 12 gpm.

psi

200
175
150
125
100
75
50
25
0

0 2 4 6 8 10 12 gpm

C (1 to 2)
C (2 to 1)
H (1 to 2)
H (2 to 1)