

Hy-Lok P Series

Plug Valves



Catalog No. H - P100
Jan. 2003

Rugged Body

- is machined from bar stock

Handle with Arrow

- Indicates flow direction.
- allows quick operation with 1/4 turn.
- requires minimum torque.
- is available in Black (standard) and colored nylon (option).

Variety of End Connections

- include Hy-Lok tube fittings, Male & Female ISO threads, Male & Female NPT.

Stainless Steel Retaining Ring

- Installed in both top & bottom.
- prevents plug blow out.

PTFE Coated Viton Seal

- is used for maximum service life.
- is replaceable.

PTFE Coated Plug

- is replaceable.
- has throttling function.

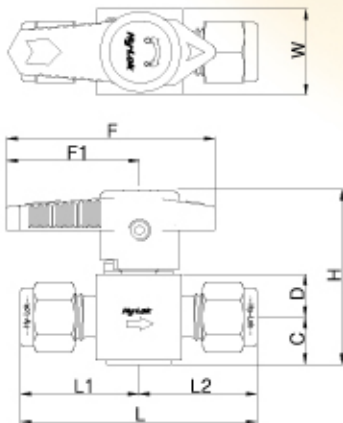
Orifice for Cv 1.4 to 7.0

- is maximized for minimum pressure drop.

Features

- **Pressure rating** up to 3000psig (206 bar) @70°F (21°C)
- **Temperature rating** from -10°F to 400°F (-23°C to 204°C) with PTFE coated Viton Seal
- **Small and compact design**
- **Easy maintenance and cleaning**
- **Sizes** available up to 1/2" tube and pipe
- **Body materials** available in 316 stainless steel and brass
- **100% factory tested**

Table of Dimensions



Series	Basic Part No. Part No.	Plug Orifice in (mm)	Cv	End Connection Inlet / Outlet	Dimensions										
					L	L ₁	L ₂	C	D	H	F	F ₁	W		
P1V	H - 2T	0.172 (4.4)	0.2	1/8 Hy-Lok	50.6	25.3	25.3	12.5	10	41.5	47	30	20		
	M - 2N		1.0	1/8 Male NPT	39.4	19.7	19.7								
	F - 2N		1.0	1/8 Female NPT	45.2	22.6	22.6								
	H - 4T	0.9	1.4	1/4 Hy-Lok	55.2	27.6	27.6								
	MH- 4N4T		1.4	1/4 Male NPT / 1/4 Hy-Lok	51.8	24.2	27.6								
	M - 4N		1.4	1/4 Male NPT	48.4	24.2	24.2								
	F - 4N	0.9	0.9	1/4 Female NPT	53.0	26.5	26.5								
	F - 4R		0.9	1/4 Female ISO Tapered	56.0	28.0	28.0								
	MF- 4N		0.9	1/4 Male / 1/4 Female NPT	50.7	24.2	26.5								
	P2V	H - 6M	0.281 (7.2)	1.4	6mm Hy-Lok	55.4	27.7								27.7
F - 4N		3.6		1/4 Female NPT	60.4	30.2	30.2								
H - 6T		7.0		3/8 Hy-Lok	68.4	34.2	34.2								
H - 8T		4.0		1/2 Hy-Lok	74.0	37.0	37.0								
M - 8N		2.3		1/2 Male NPT	68.2	34.1	34.1								
F - 8N		2.3		1/2 Female NPT	73.2	36.6	36.6								
F - 8R		2.3		1/2 Female ISO Tapered	79.8	39.9	39.9								
H - 10M		5.7		10mm Hy-Lok	68.6	34.3	34.3								
H - 12M	4.3	12mm Hy-Lok	74.2	37.1	37.1										

All dimensions in millimeters. Dimensions shown with Hy-Lok nuts in finger-tight position, where applicable.



HY-LOK CORPORATION

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Plug Valves

P Series

Material of Construction

Description	Material/ASTM Specification	
		SS316
Handle	Black Nylon Standard	
Pin	Stainless Steel	
Retaining Ring	Stainless Steel	
Plug	SS316 / A479	Brass / B16
	with PTFE Coated	
O-ring	PTFE Coated Viton Standard	
Body	SS316 / A479	Brass / B16

Pressure / Temperature Rating

Series	Materials	Pressure Rating @70°F(21°C)	Temperature Rating
P1V	SS316 & Brass	3000 psig (206 bar)	-10°F to 400°F (-23°C to 204°C) with PTFE coated Viton Secl.
P2V	SS316	3000 psig (206 bar)	
	Brass	2000 psig (137 bar)	

Downstream Vent



Open Condition

Closed & Vent Condition

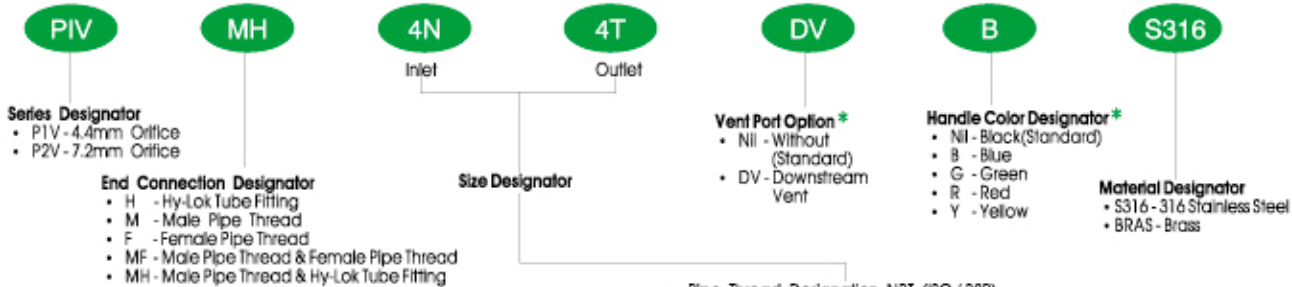
Testing

Every Valve is factory tested for shut off at 600psig(41 bar)

Flow Rate

Series	Part. No.	Cv	Pressure drop Atmosphere(Δp)psl					
			Air std ft ³ /min. 70°F(21°C)			Water U.S. gal/min. @70°F(21°C)		
			10	50	100	10	50	100
P1V	H - 2T	0.2	2.26	6.00	10.64	0.63	1.41	2.00
	M - 2N	1.0	11.30	30.01	53.20	3.16	7.07	10.00
	F - 2N		11.30	30.01	53.20	3.16	7.07	10.00
	H - 4T	1.4	15.82	42.01	74.48	4.43	9.90	14.00
	MH- 4N4T		15.82	42.01	74.48	4.43	9.90	14.00
	M - 4N	0.9	10.17	27.01	47.88	2.85	6.36	9.00
	F - 4N		10.17	27.01	47.88	2.85	6.36	9.00
	F - 4R		10.17	27.01	47.88	2.85	6.36	9.00
	MF - 4N		10.17	27.01	47.88	2.85	6.36	9.00
	H - 6M	1.4	25.99	69.02	122.36	7.27	16.26	23.00
P2V	F - 4N	3.6	40.68	108.03	191.51	11.38	25.46	36.00
	H - 6T	7.0	79.09	210.6	372.39	22.14	49.50	70.00
	H - 8T	4.0	45.20	120.03	212.79	12.65	28.28	40.00
	M - 8N	2.3	25.99	69.02	122.36	7.27	16.26	23.00
	F - 8N		25.99	69.02	122.36	7.27	16.26	23.00
	F - 8R	2.3	25.99	69.02	122.36	7.27	16.26	23.00
	H - 10M		5.7	64.40	171.06	303.23	18.02	40.31
	H - 12M	4.3	48.59	129.03	228.75	13.60	30.41	43.00

Ordering Information



QUALITY SYSTEM CERTIFICATES



TYPE APPROVALS (For Hy-Lok Tube Fittings)



• Pipe Thread Designation NPT (ISO / 8SP)

Nom. Size	1/4	3/8	1/2
Designation	4N(R)	6N(R)	8N(R)

• Tube O.D. Designation

Inch Tube	Tube O.D.	1/4	3/8	1/2
Designation	Tube	4	6	8
	Designation	6M	10M	12M

NOTE * : No designator is required for standard. e.g. P1V - 4T - S316



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