

Hy-Lok P Series

Plug Valves



Catalog No. H-P100
Nov. 2013

Rugged Body

- is machined from barstock.

Variety of end connections

- including Hy-Lok tube fittings, male / female ISO, male / female NPT

PTFE Coated Viton Seal

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

PTFE Coated Plug

- is replaceable,
- has throttling function.

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).

Stainless Steel Retaining Ring

- installed in both top & bottom,
- prevents plug blow out.

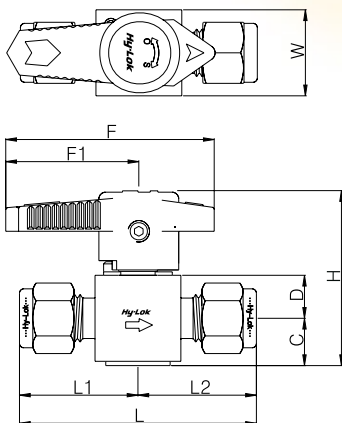
Orifice for Cv 1.4 to 7.0

- is maximized for minimum pressure drop.

Features

- Pressure rating up to 3000 psig (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		Dimensions								
					Inlet / Outlet	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			0.9	1/4 Male NPT	48.4	24.2	24.2							
	F - 4N		1.4	0.9	1/4 Female NPT	53.0	26.5	26.5							
	F - 4R			1.4	1/4 Female ISO Tapered	56.0	28.0	28.0							
	MF - 4N			1.4	1/4 Male / 1/4 Female NPT	50.7	24.2	26.5							
	H - 6M			1.4	6mm Hy-Lok	55.4	27.7	27.7							
P2V	F - 4N		0.281 (7.2)	3.6	1/4 Female NPT	60.4	30.2	30.2	17.5	15	57.5	64	39	30	
	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	4.0	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

© 2000, 2001, 2003, 2013 HY-LOK CORPORATION All rights reserved

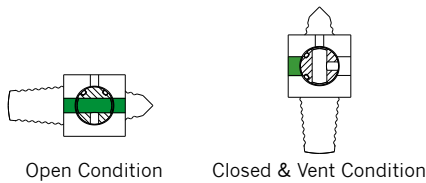
Material of Construction

Description	Material/ASTM Specification	
	316 Stainless Steel	Brass
Handle	Black Nylon Standard	
Pin	Stainless Steel	
Retaining Ring		
Plug	TP316/A479	Brass
	with PTFE Coated	
O-ring	FKM Standard	
Body	TP316/A479	Brass

Pressure/Temperature Rating

Series	Materials	Pressure Rating @70 °F(21 °C)	Temperature Rating
P1V	SS316 & Brass	3000 psig (206 bar)	-10 °F to 40 °F (-23°C to 204°C) with PTFE coated Viton Seal.
P2V	SS316	3000 psig (206 bar)	
	Brass	2000 psig (137 bar)	

Downstream Vent



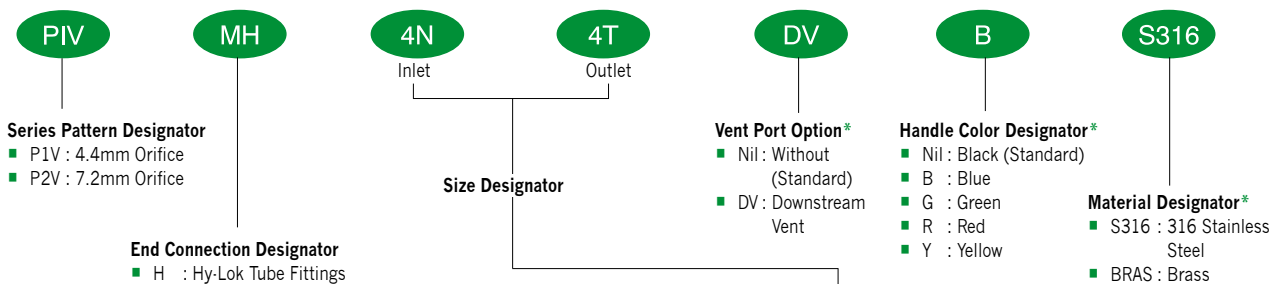
Testing

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

Flow Rate

Ordering Number		Cv	Pressure drop Atmosphere (Δp) psi						Ordering Number		Cv	Pressure drop Atmosphere (Δp) psi					
Series	Part. No.		Air std ft³/min. @70 °F (21 °C)			Water U.S. gal/min. @70 °F (21 °C)			Series	Part. No.		Air std ft³/min. @70 °F (21 °C)			Water U.S. gal/min. @70 °F (21 °C)		
			10	50	100	10	50	100				10	50	100	10	50	100
P1V	H - 2T	0.2	2.26	6.00	10.64	0.63	1.41	2.00	P2V	F - 4N	3.6	40.68	108.03	191.51	11.38	25.46	36.00
	M - 2N	1.0	11.30	30.01	53.20	3.16	7.07	10.00		H - 6T	7.0	79.09	210.6	372.39	22.14	49.50	70.00
	F - 2N		11.30	30.01	53.20	3.16	7.07	10.00		H - 8T	4.0	45.20	120.03	212.79	12.65	28.28	40.00
	H - 4T	1.4	15.82	42.01	74.48	4.43	9.90	14.00		M - 8N	2.3	25.99	69.02	122.36	7.27	16.26	23.00
	MH - 4N4T		15.82	42.01	74.48	4.43	9.90	14.00		F - 8N		25.99	69.02	122.36	7.27	16.26	23.00
	M - 4N	0.9	10.17	27.01	47.88	2.85	6.36	9.00		F - 8R	2.3	25.99	69.02	122.36	7.27	16.26	23.00
	F - 4N		10.17	27.01	47.88	2.85	6.36	9.00		H - 10M		5.7	64.40	171.06	303.23	18.02	40.31
	F - 4R		10.17	27.01	47.88	2.85	6.36	9.00		H - 12M	4.3	48.59	129.03	228.75	13.60	30.41	43.00
	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							

Ordering Information



Pipe Thread Designation NPT (ISO/BSP)

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

Tube O.D. Designation

Fractional Tube	Tube O.D	1/4	3/8	1/2
	Designation		4	6
Metric Tube	Tube O.D	6mm	10mm	12mm
	Designation		6M	10M

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