



international polymer solutions

# Precision Plug Valve

The **IPS Precision Plug Valve (PPV)** is a precision machined manual valve manufactured from 100% virgin PTFE (all wetted surfaces) and PVDF Stem Nut. The PTFE body and stem perform equally well with harsh chemicals and ultra clean DI water.

The basic construction is a single through orifice with a tapered body that matches the tapered plug for positive shut-off.

Various orifice and port sizes are available as standard items. Other sizes and configurations are available on request.



Our Precision Plug Valve are supplied in two configurations:

- Straight Flow Pattern (“A” = standard)
- Angled Flow Pattern (“B” = special)

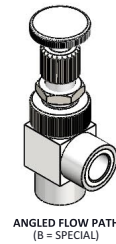
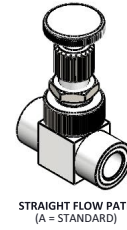
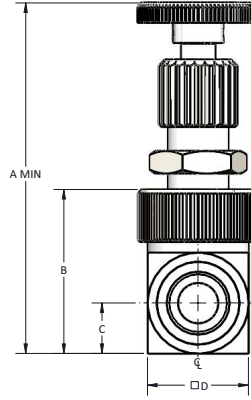
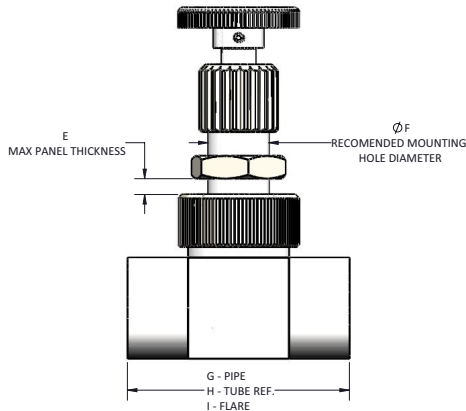
## Specification:

<b>Operating Pressure</b>	0 – 60 psi	
<b>Temperature Range</b>	Line Media:	-55°C to + 100°C (-67°F to + 212°F)
	Ambient:	-55°C to + 71°C (-67°F to + 160°F)
<b>Leak Rating</b>	Bubble Tight	



# PPV DIMENSIONS

Size	A	B	C	D	E	F	G	H	I
1/8" - 1/4"	2.96	1.45	0.41	0.75	0.15	0.51	1.87	1.75	2.75
3/8" - 1/2"	4.40	2.03	0.63	1.25	0.45	0.76	2.75	2.37	3.45



## Precision Plug Valve: ORDERING FORMAT

PPV - X X X - X

### Porting w/ Max Orifice

PIPE	
22	1/8" FNPT & 0.125" Orifice
44	1/4" FNPT & 0.250" Orifice
66	3/8" FNPT & 0.375" Orifice
88	1/2" FNPT & 0.500" Orifice
TUBE	
21	1/8" TUBE & 0.063" Orifice
43	1/4" TUBE & 0.188" Orifice
65	3/8" TUBE & 0.313" Orifice
87	1/2" TUBE & 0.436" Orifice
FLARE	
42	1/4" FLARE & 0.125" Orifice
64	3/8" FLARE & 0.250" Orifice
86	1/2" FLARE & 0.375" Orifice

### Model Designation

A - Straight Pattern Valve  
B - Angle Body Valve

### End Connections

P = FNPT  
T = Tube  
FF = Fractional Flared

Orifice (in)	Max GPM H2O at 22°C	Max Air CFM at 20 psi
0.063	1.0	4.2
0.125	1.6	7.1
0.188	2.1	9.2
0.250	2.6	9.3
0.313	3.0	11.1
0.375	3.4	12.8
0.500	4.0	16.0

PPV valves have a 6 (+/-1) Manual Turn Range

### IPS Product Notes:

1. Please email Customer Service at info@ipolymer.com
2. Call us for special applications. We can manufacture our Valves with special mounting and interface dimensions.
3. Upon request, alternate material selection from those listed will allow for expanding temperature ratings or other performance characteristics.
4. Unauthorized disassembly of this product will void the original factory one-year product warranty. For further details please contact your local Distributor or our factory directly.