

# Solenoid Valve Reference Chart

Valve Model Number	Action	Pressure Differential				Body Material	Orifice Diameter		Pipe Size NPT	CV Flow Factor #	GPM @ 60 PSI (cv x $\sqrt{\text{psi}}$ )	Liters/M @ 4.08 bars
		Min PSI	Max PSI	Min bar	Max bar		(inches)					
							Fraction	Decimal				
401P	Direct	0	150	0	10.2	Brass	7/64	0.109	1/4	0.27	2.09	7.92
412P	Pilot-Piston	1	150	.068	10.2	Brass	9/32	.281	3/8	1.2	9.3	35.18
A413P	Pilot-Piston	3	150	.204	10.2	Brass	5/16	.313	3/8	2	15.49	58.64
A414P	Pilot-Piston	3	150	.204	10.2	Brass	7/16	.438	1/2	3.10	24.01	90.89
A416P	Pilot-Piston	3	150	.204	10.2	Brass	19/32	.593	3/4	5	38.73	146.59
A418P	Pilot-Piston	3	150	.204	10.2	Brass	3/4	.750	1"	8	61.97	234.55
424.2	Direct	0	125	0	8.5	Stl. Steel	1/8	.125	1/4	.30	2.32	8.90
<b>Mini Valves Normally Closed</b>												
442P	Diaphragm	3	125	.204	10.2	Brass	1/4	.250	1/4	1	7.75	29.32
443P	Diaphragm	3	125	.204	10.2	Brass	1/4	.250	3/8	1	7.75	29.32
P442	Diaphragm	3	125	.204	10.2	Celcon	1/4	.250	1/4	1	7.75	29.32
P443	Diaphragm	3	125	.204	10.2	Celcon	1/4	.250	3/8	1	7.75	29.32
PP442	Diaphragm	3	125	.204	10.2	PolyPro	1/4	.250	1/4	1	7.75	29.32
PP443	Diaphragm	3	125	.204	10.2	PolyPro	1/4	.250	3/8	1	7.75	29.32
P462	Diaphragm	3	125	.204	10.2	Celcon	1/4	.250	1/4	1	7.75	29.32
P463	Diaphragm	3	125	.204	10.2	Celcon	1/4	.250	3/8	1	7.75	29.32
P404J	Diaphragm	3	125	.204	10.2	GF Poly	1/4	.250	3/8	1	7.75	29.32
463PS	Diaphragm	3	125	.204	10.2	Stl. Steel	3/8	.375	3/8	2	15.49	58.64
464PS	Diaphragm	3	125	.204	10.2	Stl. Steel	1/2	.375	1/2	2	15.49	58.64
466PS	Diaphragm	3	125	.204	10.2	Stl. Steel	3/8	.375	3/4	2	15.49	58.64
<b>Mini Valves Normally Open</b>												
O442P	Diaphragm	3	125	.204	10.2	Brass	1/4	.250	1/4	1	7.75	29.32
O443P	Diaphragm	3	125	.204	10.2	Brass	1/4	.250	3/8	1	7.75	29.32
OP442	Diaphragm	3	125	.204	10.2	Celcon	1/4	.250	1/4	1	7.75	29.32
OP443	Diaphragm	3	125	.204	10.2	Celcon	1/4	.250	3/8	1	7.75	29.32
OPP442	Diaphragm	3	125	.204	10.2	PolyPro	1/4	.250	1/4	1	7.75	29.32
OPP443	Diaphragm	3	125	.204	10.2	PolyPro	1/4	.250	3/8	1	7.75	29.32
O463PS	Diaphragm	3	125	.204	10.2	Stl. Steel	3/8	.375	3/8	2	15.49	58.64
O464PS	Diaphragm	3	125	.204	10.2	Stl. Steel	1/2	.375	1/2	2	15.49	58.64
<b>Diaphragm Valves Normally Closed</b>												
473P	Diaphragm	1	150	.068	10.2	Brass	9/16	.563	3/8	3.5	27.11	102.61
474P	Diaphragm	1	150	.068	10.2	Brass	9/16	.563	1/2	4	30.98	117.34
476P	Diaphragm	1	150	.068	10.2	Brass	3/4	.750	3/4	5	38.73	146.67
476PS	Diaphragm	1	150	.068	10.2	Stl. Steel	3/4	.750	3/4	5	38.73	146.67
478PS	Diaphragm	1	150	.068	10.2	Stl. Steel	1"	1.0	1"	13	100.70	381.14
<b>Diaphragm Valves Normally Open</b>												
O473P	Diaphragm	1	150	.068	10.2	Brass	9/16	.563	3/8	3.5	27.11	102.61
O474P	Diaphragm	1	150	.068	10.2	Brass	9/16	.563	1/2	4	30.98	117.34
O476P	Diaphragm	1	150	.068	10.2	Brass	3/4	.750	3/4	5	38.73	146.67

### High Pressure Normally Closed

453P*	Pilot-Piston	10	1200	.68	81.6	Brass	7/20	.350	3/8	1.80	13.95	52.80
453S***	Pilot-Piston	10	1200	.68	81.6	Brass	7/20	.350	3/8	1.80	13.95	52.80
454P**	Pilot-Piston	10	1200	.68	81.6	Brass	1/2	.5	1/2	3.70	28.68	108.53
458P**	Pilot-Piston	10	1200	.68	81.6	Brass	15/16	.939	1"	11.10	86.03	325.60
458PS***	Pilot-Piston	10	1200	.68	81.6	Brass	15/16	.939	1"	11.10	86.03	325.60

### High Pressure Normally Open

O453P**	Pilot-Piston	10	1000	.68	68	Brass	7/20	.350	3/8	1.80	13.95	52.80
O453S***	Pilot-Piston	10	1000	.68	81.6	Brass	7/20	.350	3/8	1.80	13.95	52.80

\* - Stainless Steel Piston (No Sleeve)

\*\* - Stainless Steel Sleeve with Brass Piston

\*\*\* - Stainless Steel Sleeve and Piston

### Corrosive Liquids

481P	Direct-Diaphragm	Vacuum				PVC	5/32	.172	1/8	.27	2.09	7.92
481.2	Direct-Diaphragm Injector dual inlet	Vacuum				PVC	5/32	.172		.27	2.09	7.92
482.2	Direct-Diaphragm Adjustable	Vacuum				PVC	5/32	.172	1/4	.27	.209	7.92

### Round Body Single Station

491S	Direct	0	150	0	10.2	Brass	1/8	.125	1/8	.27	2.09	7.92
492S	Direct	0	150	0	10.2	Stl. Steel	1/8	.125	1/4	.27	2.09	7.92
482.2	Direct-Diaphragm Adjustable	Vacuum				PVC	5/32	.172	1/4	.27	.209	7.92

### Manifold Valves

464M	Diaphragm	0	150	0	10.2	Stl. Steel	3/8	.375	1/2	2	15.49	58.64
492M	Direct	0	150	0	10.2	Brass	1/8	.125	1/4	.27	2.09	7.92
492SS	Direct	0	150	0	10.2	Stl. Steel	1/8	.125	1/4	.27	2.09	7.92