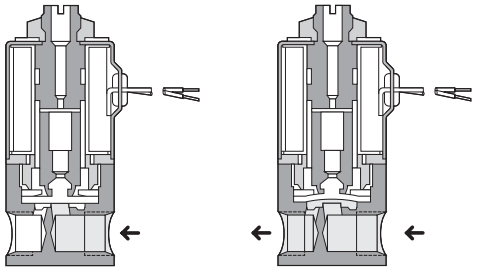
KIP Fluid Control Valve - G Series Media Isolated

- 2/2 direct acting
- Ideal for control of corrosive and aggressive media
- Integration available for standard and custom manifold
- NSF and cURus (UL and CSA) Certified
- Optional valve block for 3/2 operation

Specifications

Feature	Series 1	Series 2	Series 6	Series 9
Size - (Diameter)	1"	1"	1-5/8"	0.80"
MOPD (psi)	95	120	130	30
Vacuum Service	✔	✔	✔	✔
Max. Cv - Body	0.250	0.250	0.545	0.06
Power Rating	6 watts	7 watts	10 watts	.65 watts
Lead Wire Gauge	20 AWG/18 AWG	20 AWG/18 AWG	18 AWG	24 AWG
Optional Low Wattage Coils	✔	✔		✔
1/8" NPTF Ports	✔	✔	✔	
#10 - 32 UNF Ports	✔	✔	✔	✔
1/4 - 28 UNF	✔	✔	✔	
Grommet Style Housing	✔	✔	✔	✔
Conduit Style Housing	✔	✔	✔	
Spade Coil	✔	✔	✔	
Manifolds	✔	✔	✔	✔

De-Energized **Energized**



*For vacuum ratings and rectified coil options, call technical support at 860-677-0272 or email: farmingtontechnical@imi-precision.com

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Series 1, 2 & 6*

G 2 7 9 6 1 5 – 0 2 5 1 – 24 VDC

Prefixes (Optional)	Substitute
Isolated	G
Series	**Substitute**
Series 1	1
Series 2	2
Series 3	3
Series 6	6
Port	**Substitute**
1/8" NPTF	4
1/4" NPTF (6 series only)	5
#10-32 UNF	7
1/4-28 UNF	8
Housing	**Substitute**
Grommet	1
1/2" NPT Conduit	2
Yoke	3
Grommet w/bracket	7
Slotted	9
Housing	**Substitute**
Operator	3
Acetal	4
PVC	5
PVDF	6

Voltage	
Coil Options	
Seal	**Substitute**
Fluorocarbon*	02
Food Grade EPR	13
Orifice	**Substitute**
1/32"	0
3/64"	1
1/16"	2
5/64"	3
3/32"	4
1/8"	5
5/32"	6
3/16" (6 series only)	7
1/4" (6 series only)	8
Function	**Substitute**
2WNC	1
2WNO	2
3WNC	3
3WNO	5
3WMP	6

*Series 6 is avaialble with Fluorocarbon diaphragm only
Note: Not all combinations are compatible

Coil Options

Number	Housing	Series	Type	Class
01	1 - Grommet	1, 2, 3, 6	Standard - dry tape wrapped with leads	B
01	2 - Conduit	1, 2, 3, 6	Standard - dry tape wrapped with leads	B
41	9 - Slotted	1	Free-standing, molded with leads	B
61	9 - Slotted	2, 3	Free-standing, molded with leads	B
61	3 - Yoke	2, 3	Free-standing, molded with leads	B
41	2 - Conduit	1, 2, 3	Potted with leads	B
31	9 - Slotted	2, 3	3/16" Vertical Spade	B
51	9 - Slotted	2, 3	1/4" Vertical Spade	B
51	3 - Yoke	2, 3	1/4" Top Spade (Available with FWR option***)	B
41	1 - Grommet	6	Free-standing molded with leads	B
41	2 - Conduit	6	Free-standing molded with leads	B
51	9 - Slotted	6	1/4" Vertical Spade	B

Series 9

G 9 7 1 8 1 2 – 13 – 12 VDC

Prefix (optional)	Substitute
Isolated	G
Porting	**Substitute**
#10-32 UNF	7
1/4 - 28 UNF	8
Body	**Substitute**
Brass	1
Halar	8
Acrlyic	9

Voltage	Substitute
5 VDC	
12 VDC	
15 VDC	
24 VDC	
Seal	**Substitute**
EPR	13
Function	**Substitute**
2 WNC	1

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G Series - CV and MOPD Values

	Orifice Diameter	Cv Value	MOPD	Standard Valve Body		
				PVDF	Acetal	PVC
Series 1	1/32"	0.025	95	G141610	G141410	G141510
	3/64"	0.045	75	G141611	G141411	G141511
	1/16"	0.075	55	G141612	G141412	G141512
	5/64"	0.115	35	G141613	G141413	G141513
	3/32"	0.155	25	G141614	G141414	G141514
	1/8"	0.210	15	G141615	G141415	G141515
	5/32"	0.250	10	G141616	G141416	G141516
Series 2	1/32"	0.025	120	G241610	G241410	G241510
	3/64"	0.045	100	G241611	G241411	G241511
	1/16"	0.075	75	G241612	G241412	G241512
	5/64"	0.115	55	G241613	G241413	G241513
	3/32"	0.155	45	G241614	G241414	G241514
	1/8"	0.210	30	G241615	G241415	G241515
	5/32"	0.250	20	G241616	G241416	G241516
Series 6	1/32"	0.031	130	G641610	G641410	G641510
	3/64"	0.058	110	G641611	G641411	G641511
	1/16"	0.078	95	G641612	G641412	G641512
	5/64"	0.117	70	G641613	G641413	G641513
	3/32"	0.167	60	G641614	G641414	G641514
	1/8"	0.241	50	G641615	G641415	G641515
	5/32"	0.316	40	G641616	G641416	G641516
	3/16"	0.398	30	G641617	G641417	G641517
	1/4"	0.545	20	G641618	G641418	G141518
				Standard Valve Body		
	Orifice Diameter	Cv Value	MOPD	ECTFE	Acrylic	
Series 9	1/16"	0.06	30	G971812-13	G971912-13	

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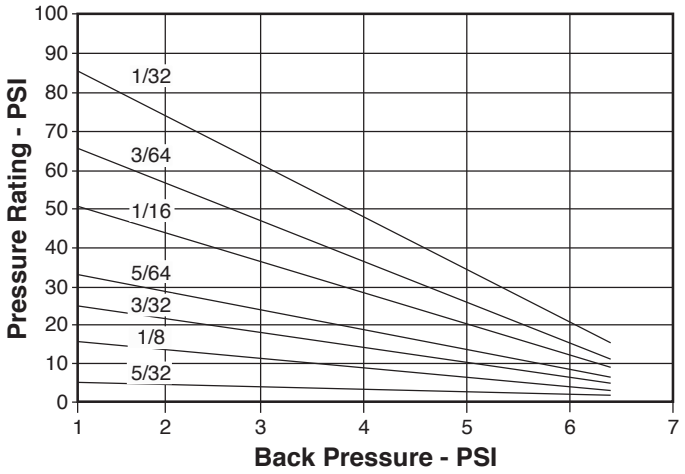
Isolation Valve Back Pressure De-rating Curves

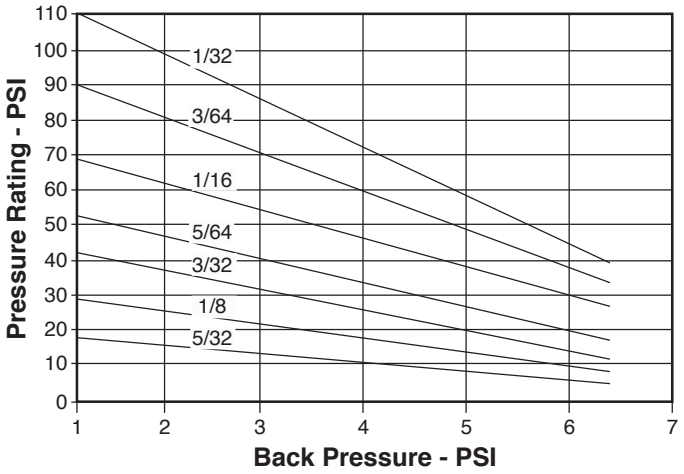
Diaphragm Isolation Valves have a large difference in pressure area between open and closed, creating a sensitivity to back pressure. Excessive back pressure can hinder the closing of the valve. Please use the back pressure charts below to deetermine the maximum operating pressure of the valve based on the maximum potential back pressure in the application. Choose the orifice size which meets a worst case condition.

Unless a preference for diaphragm body shape is specifically requested, valves may be shipped with either square or round bodies, at IMI's discretion, and depending on availability or size of order.

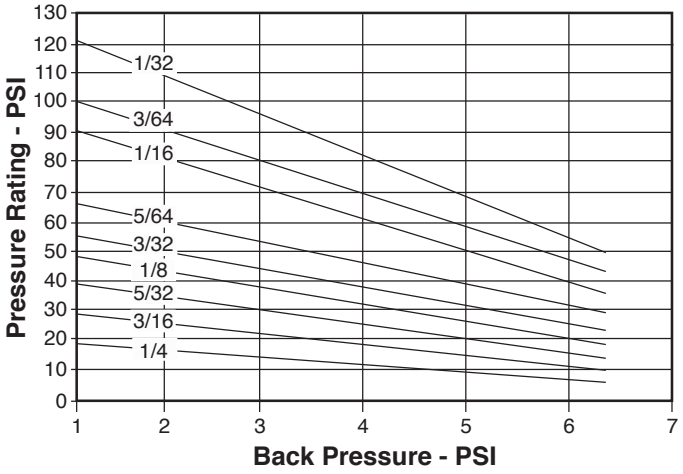
Series 1 Isolation Valves



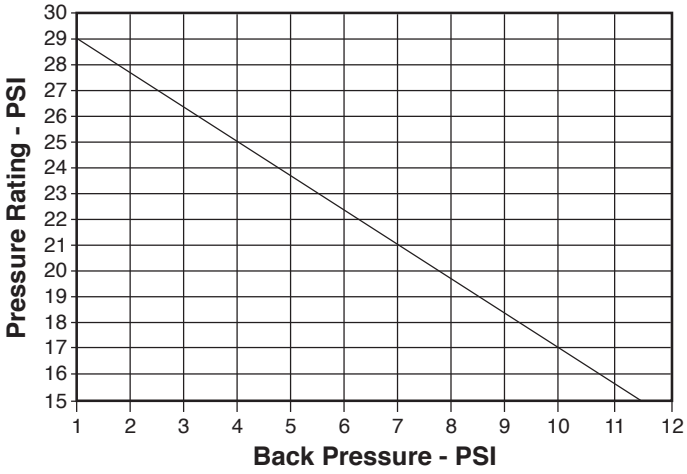
Series 2 Isolation Valves



Series 6 Isolation Valves



Series 9 Isolation Valves



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