KIP Fluid Control Valves - Series 6

- **2/2 and 3/2 direct acting**
- **Designed for long life and reliability**
- **Ideally suited for air, liquid, and vacuum control in a broad range of sectors**
- **Different materials available for compatibility with neutral gases and liquids**
- **Custom fitting or electrical hardware installation available upon request**

Specifications

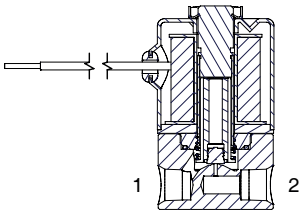
Operating Pressure:
2/2: 0 to 1000 psig, vacuum capable*
3/2: 0 to 250 psig, vacuum capable*
Orifice:
2/2: Ø3/32" to Ø1/4" (2/2)
3/2: Ø5/64" to Ø1/4" (3/2)
MOPD:
2/2: 15 - 300 psig
3/2: 5 - 100 psig

Cv Range:
2/2: 0.350 to 0.900
3/2: 0.350 to 0.650
Actuation:
Solenoid
Coil:
AC, DC, rectified coil*
Coil Class Options:
B: 266°F (130°C) standard
H: 356°F (180°C)

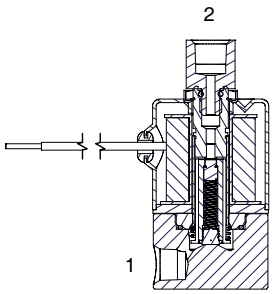
Connection:
2/2: 1/8" NPTF, 1/4" NPTF, 3/8" NPTF, manifold mount
3/2: 1/8" NPTF, 1/4" NPTF, manifold mount
Electrical Connection:
24" flying leads or 1/4" spade terminal
Switching Function:
2/2: NO, NC
3/2: NO, NC, Multi-purpose, Directional Control

Voltage Options:
12VDC, 24VDC, 24/60VAC, 120/60VAC, 240/60VAC
Wattage:
10 Watts, nominal
Duty Cycle:
Continuous
Response Time:
9ms, typical
Weight:
15oz, typical
Material:
Body: brass or stainless steel
Internal wetted parts: 430FR & 300 series CRES

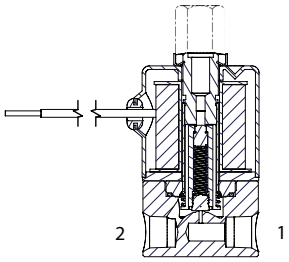
*For vacuum ratings and rectified coil options, call technical support at 860-677-0272 or email: farmingtontechnical@imi-precision.com



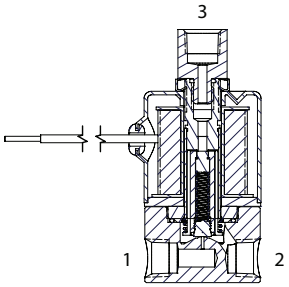
2WNC



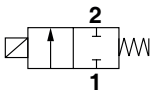
2WNO



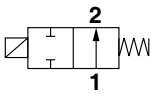
3WNCFV
3WNCLC - adapter fitting included



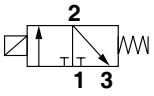
3WNO
3WMP
3WDC



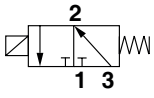
Symbol: 2/2 NC



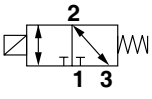
Symbol: 2/2 NO



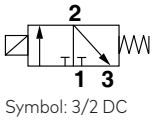
Symbol: 3/2 NC



Symbol: 3/2 NO



Symbol: 3/2 MP



Symbol: 3/2 DC

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Standard Valve Selection

Series 6 - Valve Configurator

★ 6 ★★★★★ ★★ ★★ ★★

Prefix (optional)	Substitute
NSF certified	N
UL recognized	U
Oxygen clean	Y
Port Configuration	**Substitute**
1/8" NPTF	4
1/4" NPTF	5
Manifold Mount	6
Housing	**Substitute**
Over molded	0
Grommet	1
1/2" NPT Conduit	2
Grommet w/ bracket	7
Slotted	9
Body Material	**Substitute**
Stainless Steel	0
Brass	1
Function	**Substitute**
2WNC	1
2WNO	2
3WNC free vent	3
3WNC line connect (1/8" NPT)	4
3WNO	5
3WMP	6
3WDC	7

Voltage	
12 VDC	
24 VDC	
24 - 60 VAC	
120 - 60 VAC	
240 - 60 VAC	
Coil Options	**Substitute**
See Coil Options Chart Below	
Seal Options	**Substitute**
Buna	01
Fluorocarbon	02
Low Temp Buna (NBR)	05
Low Temp Fluorocarbon	07
Ethylene Propylene (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	7
1/4	8
3/8 (2/2 NC Only)	9

Coil Options

Number	Housing	Type	Class
01	1 - Grommet	Standard - dry tape wrapped with leads	B
01	2 - Conduit	Standard - dry tape wrapped with leads	B
41	1 - Grommet	Free-standing molded with leads	B
41	2 - Conduit	Free-standing molded with leads	B
51	9 - Slotted	1/4" Vertical Spade	B
68	0 - Over molded	1/2" NPT integrated conduit over molded with leads	H
69	0 - Over molded	Integrated over molded DIN coil	H

*For class H coils replace second digit with 3.
Example: 43 = Class H Free-standing molded with leads

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Series 6 - 2/2 NC Cv and MOPD Values

Orifice Diameter		MOPD	Cv Value	Part
Body	Stop	(psi)		Numbering
1/32	-	1200	0.035	6***10
3/64	-	1000	0.050	6***11
1/16	-	500	0.095	6***12
5/64	-	300	0.140	6***13
3/32	-	200	0.200	6***14
1/8	-	150	0.295	6***15
5/32	-	110	0.370	6***16
3/16	-	60	0.435	6***17
1/4	-	30	0.610	6***18
3/8	-	5	0.900	6***19

Series 6 - 2/2 NO Cv and MOPD Values

Orifice Diameter		MOPD	Cv Value	Part
Body	Stop	(psi)		Numbering
-	1/32	1000	0.035	6***20
-	3/64	600	0.050	6***21
-	1/16	350	0.095	6***22
-	5/64	250	0.140	6***23
-	3/32	175	0.200	6***24
-	1/8	100	0.295	6***25

Series 6 - 3/2 NC Cv and MOPD Values

Orifice Diameter		MOPD	Cv Value	Cv Value	Part
Body	Stop	(psi)	Body	Endstop	Numbering
1/32	1/32	300	0.035	0.025	6***40
3/64	3/64	250	0.050	0.065	6***41
1/16	1/16	200	0.090	0.115	6***42
5/64	5/64	175	0.135	0.180	6***43
3/32	3/32	125	0.180	0.210	6***44
1/8	1/8	85	0.275	0.240	6***45
5/32	1/8	50	0.370	0.240	6***46
3/16	1/8	30	0.455	0.240	6***47
1/4	1/8	15	0.650	0.240	6***48

For free vent, change fifth digit from 4 to 3

Series 6 - 3/2 NO Cv and MOPD Values

Orifice Diameter		MOPD	Cv Value	Cv Value	Part
Body	Stop	(psi)	Body	Endstop	Numbering
1/32	1/32	400	0.035	0.025	6***50
3/64	3/64	250	0.050	0.065	6***51
1/16	1/16	200	0.090	0.115	6***52
5/64	5/64	175	0.135	0.180	6***53
3/32	3/32	125	0.180	0.210	6***54
1/8	1/8	85	0.275	0.240	6***55
5/32	1/8	50	0.370	0.240	6***56
3/16	1/8	35	0.455	0.240	6***57
1/4	1/8	15	0.650	0.240	6***58

Series 6 - 3/2 MP Cv and MOPD Values

Orifice Diameter		MOPD	Cv Value	Cv Value	Part
Body	Stop	(psi)	Body	Endstop	Numbering
1/32	1/32	275	0.035	0.025	6***60
3/64	3/64	200	0.050	0.065	6***61
1/16	1/16	175	0.090	0.115	6***62
5/64	5/64	125	0.135	0.180	6***63
3/32	3/32	100	0.180	0.210	6***64
1/8	1/8	60	0.275	0.240	6***65
5/32	1/8	40	0.370	0.240	6***66
3/16	1/8	25	0.455	0.240	6***67
1/4	1/8	15	0.650	0.240	6***68

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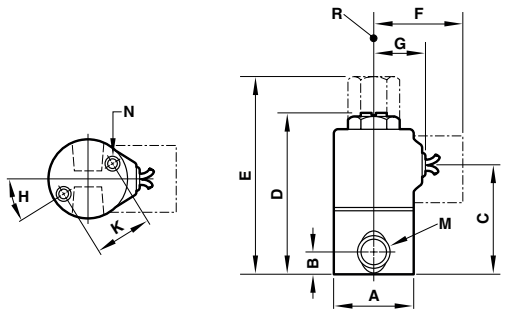
Series 6 Dimensions

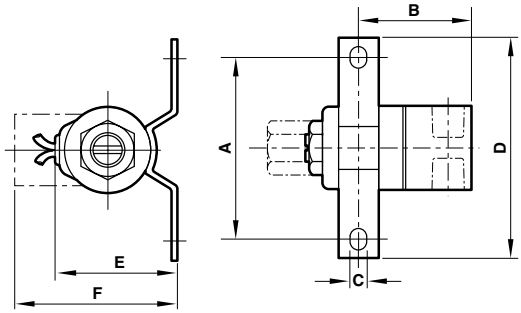
Dimensions in mm
Projection/Third angle



Standard Valve

A	B	C	D	E	F	G	H	K	M	N	R
1.62 (41)	.344 (9)	G-2.04 (52) C-1.87 (48)	2.86 (73)	3.54 (90)	1.58 (40)	1.03 (26)	45°	1.24 (31)	1/8-27 NPTF or 1/4-18 NPTF	#10-32 UNF x 5/16 MFT	1/8-2 NPTF or 1/4-18 NPTF

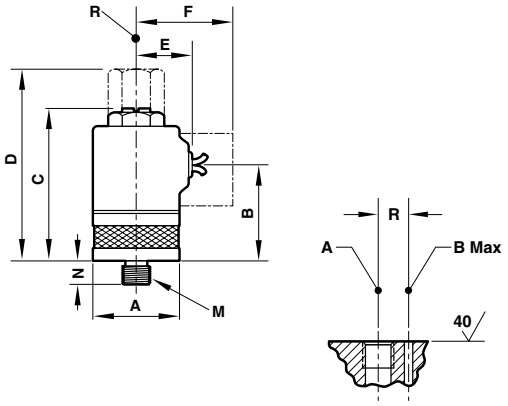
Mounting Brackets



Bracket Dimensions

A	B	C	D	E	F
2.13 (54)	1.97 (50)	.20 (5)	2.63 (67)	2.15 (55)	2.68 (68)

Mounting Brackets



Manifold Mount Valve

A	B	C	D	E	F	M	N	R
1.62 (41)	G-1.73 (44) C-1.56 (40)	2.55 (65)	3.23 (82)	1.03 (26)	1.58 (40)	1/2 20 UNF	.31 (8)	1/8-27 NPTF or 1/4-18 NPTF

Manifold Mount Interface

A	B	R
1/2 - 20 UNF-2B x .32 MFT	.27 (7)	.51 (13)

NOTE: A is underseat connection** B is overseat connection***

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