

KIP Fluid Control Valves - Series 2



- > 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

Ø1/32" to Ø5/32"

MOPD:

2/2: 100 - 1000 psig

3/2: 15 - 250 psig

Cv Range:

2/2: 0.035 to 0.290

3/2: 0.035 to 0.285

Actuation:

Solenoid

Coil:

AC, DC, rectified coil*

Coil Class Options:

B: 266°F (130°C) standard

H: 356°F (180°C)

Connection:

1/8" NPTF or manifold mount

Electrical Connection

24" flying leads and 3/16" 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:

7 Watts, nominal

Duty Cycle:

Continuous

Response Time:

9ms, typical

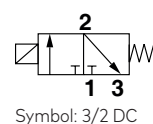
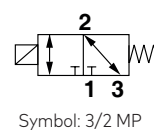
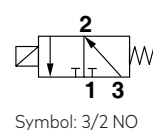
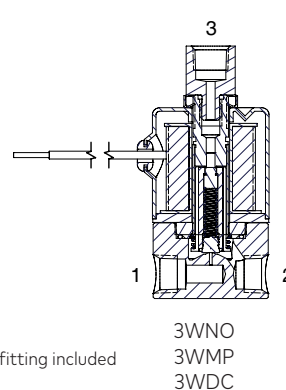
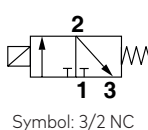
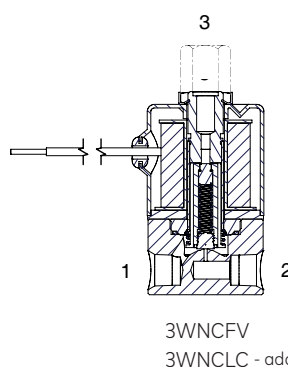
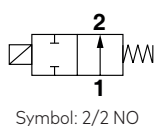
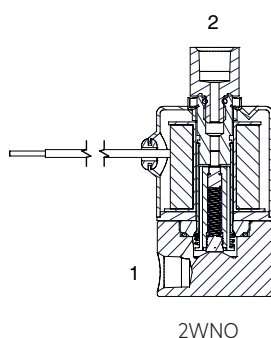
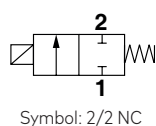
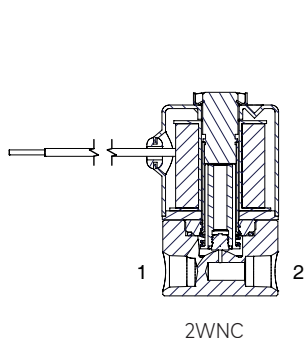
Weight:

7oz, 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



Series 2 - 2/2 NC Cv and MOPD Values

Orifice Diameter		MOPD (psi)	Cv Value	Part Numbering	Cv Value Body	Low Watt Specifications (MOPD (psi))		
Body	Stop					2.0 Watt	2.5 Watt	3.0 Watt
1/32	-	1000	0.035	2***10	0.030	140	225	405
3/64	-	600	0.050	2***11	0.050	105	190	315
1/16	-	400	0.095	2***12	0.085	55	85	155
5/64	-	300	0.135	2***13	0.125	40	60	105
3/32	-	250	0.175	2***14	0.170	25	35	70
1/8	-	150	0.245	2***15	0.225	25	35	50
5/32	-	100	0.290	2***16	0.280	13	20	35

For low watt valves, please use the prefix; B for 2.0 watt; C for 2.5 watt; and D for 3.0 watt as shown

Series 2 - 2/2 NO Cv and MOPD Values

Orifice Diameter Body	Stop	MOPD (psi)	Cv Value	Part Numbering
-	1/32	400	0.035	2***20
-	3/64	300	0.050	2***21
-	1/16	180	0.095	2***22
-	5/64	140	0.135	2***23

Series 2 - 3/2 NC Cv and MOPD Values

Orifice Diameter Body	Stop	MOPD (psi)	Cv Value Body	Cv Value Endstop	Part Numbering
1/32	1/32	250	0.035	0.025	2***40
3/64	3/64	175	0.050	0.065	2***41
1/16	1/16	125	0.085	0.115	2***42
5/64	5/64	100	0.125	0.140	2***43
3/32	5/64	75	0.165	0.140	2***44
1/8	5/64	45	0.240	0.140	2***45
5/32	5/64	20	0.285	0.140	2***46

For free vent, change fifth digit from 4 to 3

Consult Technical Support for low watt options for 3/2 NC valves

Series 2 - 3/2 MP Cv and MOPD Values

Orifice Diameter Body	Stop	MOPD (psi)	Cv Value Body	Cv Value Endstop	Part Numbering
1/32	1/32	175	0.035	0.025	2***60
3/64	3/64	125	0.050	0.065	2***61
1/16	1/16	100	0.085	0.115	2***62
5/64	5/64	75	0.125	0.140	2***63
3/32	5/64	50	0.165	0.140	2***64
1/8	5/64	25	0.240	0.140	2***65
5/32	5/64	15	0.285	0.140	2***66

Consult Technical Support for low watt options for 3/2 MP valves

Series 2 - 3/2 NO Cv and MOPD Values

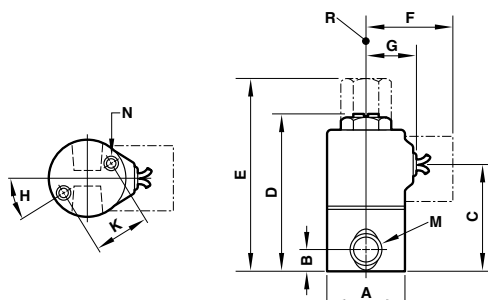
Orifice Diameter Body	End	MOPD (psi)	Cv Value Body	Cv Value Endstop	Part Numbering
1/32	1/32	200	0.035	0.025	2***50
3/64	3/64	150	0.050	0.065	2***51
1/16	1/16	125	0.085	0.115	2***52
5/64	5/64	100	0.125	0.140	2***53
3/32	5/64	75	0.165	0.140	2***54
1/8	5/64	60	0.240	0.140	2***55
5/32	5/64	25	0.285	0.140	2***56

Series 2 - 3/2 Directional Control

Orifice Diameter Body	Stop	MOPD (psi)	Cv Value Body	Cv Value Endstop	Part Numbering
1/32	1/32	250	0.035	0.025	2***70
3/64	3/64	160	0.050	0.065	2***71
1/16	1/16	120	0.085	0.115	2***72
5/64	5/64	80	0.125	0.140	2***73
3/32	5/64	60	0.165	0.140	2***74
1/8	5/64	35	0.240	0.140	2***75
5/32	5/64	20	0.285	0.140	2***76

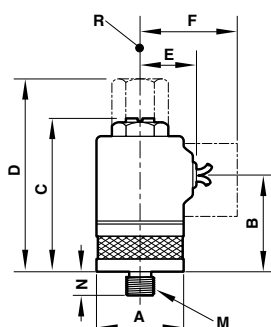
Series 2 Dimensions

Dimensions in mm
Projection/Third angle



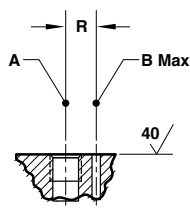
Standard Valve

A	B	C	D	E	F	G	H	K	M	N	R
.99 (25)	.28 (7)	1.51 (38)	2.32 (59)	2.66 (68)	1.12 (29)	.64 (16)	32- 1/2°	.73 (19)	1/8-27 NPTF	#8-32 UNC x 1/4 MFT	1/8-27 NPTF



Manifold Mount Valve

A	B	C	D	E	F	M	N	R
.99 (25)	1.26 (32)	1.98 (50)	2.41 (61)	.64 (16)	1.12 (29)	5/16 24 UNF	.25 (6)	1/8-27 NP



Manifold Mount Interface

A	B	R
5/16 - 24 UNF-2B x .26 MFT	.09 (2)	.31 (8)

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