

KIP Fluid Control Valves - Series 3

Features & Benefits

- 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. Minimum order quantity (MOQ) applies.



Technical Data

Operating Pressure:

2/2: 0 to 1000 psig, vacuum capable*

3/2: 0 to 275 psig, vacuum capable*

Orifice

Ø1/32" to Ø5/32"

MOPD:

2/2: 15 - 1000 psig

3/2: 5 - 275 psig

Cv Range:

2/2: 0.035 to 0.450

3/2: 0.035 to 0.415

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 1/4" NPTF

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:

7 Watts, nominal

Duty Cycle:

Continuous

Weight:

9oz, typical

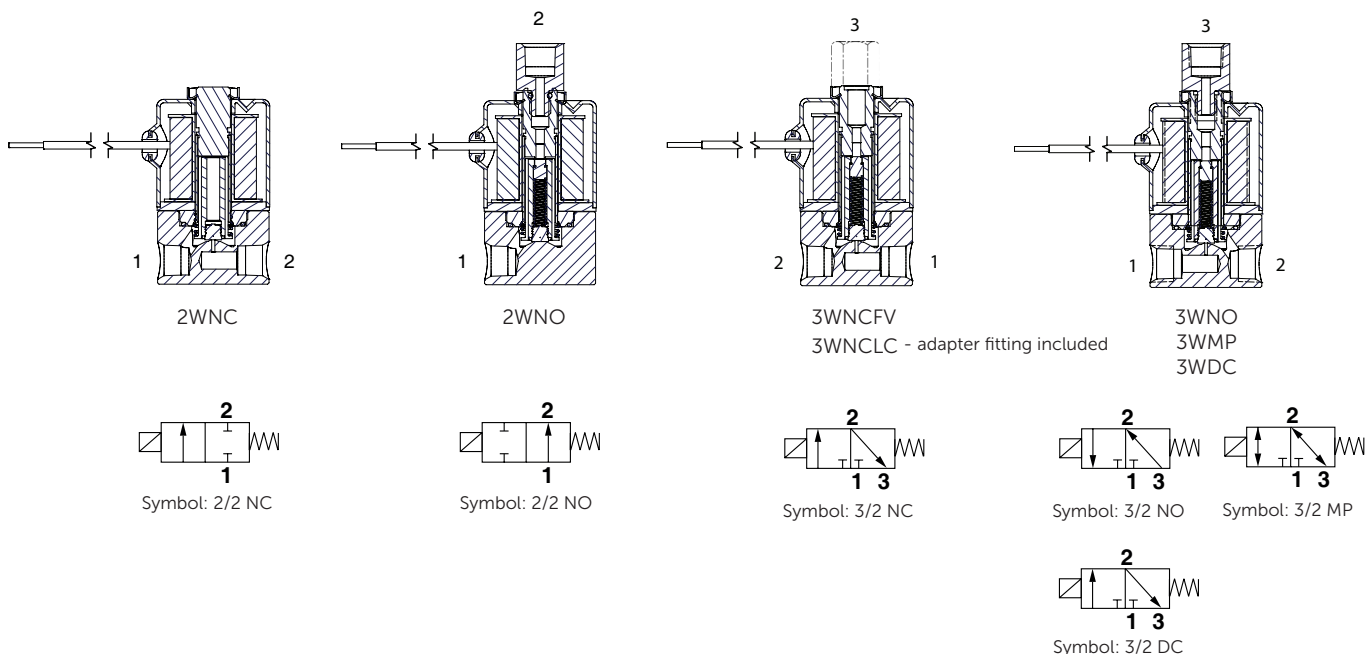
Material:

Body: brass or stainless steel

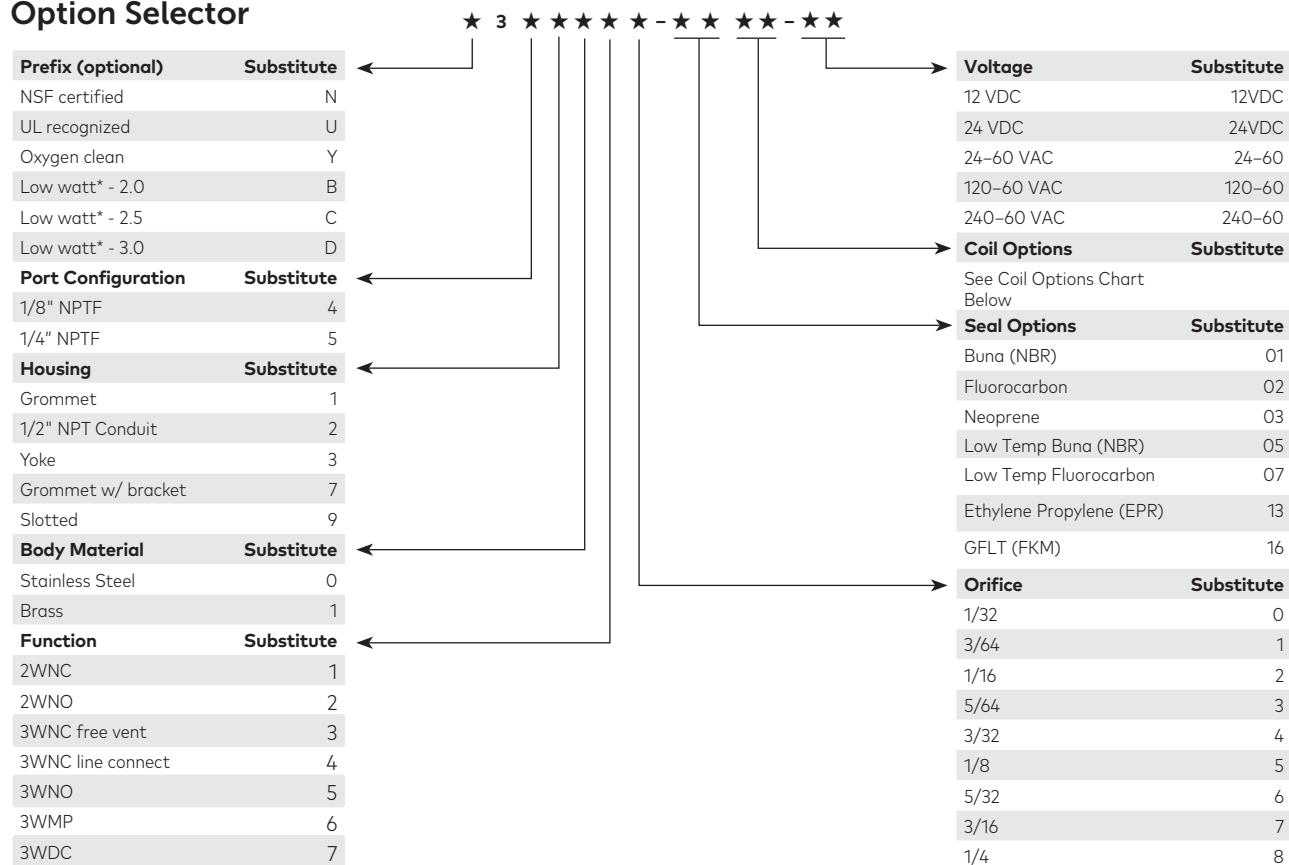
Internal wetted parts: 430FR

& 300 series CRES

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



Option Selector



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
61	9 - Slotted	Free-standing, molded with leads	B
61	3 - Yoke	Free-standing, molded with leads	B
41	1 - Grommet	Potted with Leads	B
41	2 - Conduit	Potted with leads	B
31	9 - Slotted	3/16" Vertical Spade	B
51	9 - Slotted	1/4" Vertical Spade	B
51	3 - Yoke	1/4" Top Spade (Available with FWR option***)	B

*For class H coils replace second digit with 3.

Example: 43= Class H Potted with leads

Series 3 - 2/2 NC Cv and MOPD Values

Orifice Diameter		Low Watt Specifications						
Body	Stop	MOPD (psi)	Cv Value	Part Numbering	Low Watt Cv Value	2.0 Watt B	2.5 Watt C	3.0 Watt D
1/32	-	1000	0.035	3***10	0.030	540	275	1000
3/64	-	600	0.050	3***11	0.050	125	200	340
1/16	-	400	0.095	3***12	0.085	60	150	160
5/64	-	300	0.140	3***13	0.125	30	100	95
3/32	-	250	0.185	3***14	0.180	20	75	55
1/8	-	150	0.265	3***15	0.225	12	50	35
5/32	-	100	0.330	3***16	0.280	7	25	20
3/16	--	40	0.385	3***17	-	-	-	-
1/4		15	0.450	3***18	-	-	-	-

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		MOPD (psi)	Cv Value	Part Numbering
Body	Stop			
-	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 3 - 3/2 NC Cv and MOPD Values

Orifice Diameter		MOPD (psi)	Cv Value Body	Cv Value Endstop	Part Numbering
Body	Stop				
1/32	1/32	250	0.035	0.025	3***40
3/64	3/64	175	0.050	0.065	3***41
1/16	1/16	125	0.085	0.115	3***42
5/64	5/64	100	0.125	0.145	3***43
3/32	5/64	75	0.165	0.145	3***44
1/8	5/64	45	0.240	0.145	3***45
5/32	5/64	20	0.290	0.145	3***46
3/16	5/64	10	0.345	0.145	3***47
1/4	5/64	5	0.415	0.145	3***48

For free vent, change fifth digit from 4 to 3
Consult Technical Support for low watt options for 3/2 NC valves

Series 3 - 3/2 NO Cv and MOPD Values

Orifice Diameter		MOPD (psi)	Cv Value Body	Cv Value Endstop	Part Numbering
Body	Stop				
1/32	1/32	200	0.035	0.025	3***50
3/64	3/64	150	0.050	0.065	3***51
1/16	1/16	125	0.085	0.115	3***52
5/64	5/64	100	0.125	0.145	3***53
3/32	5/64	75	0.165	0.145	3***54
1/8	5/64	60	0.240	0.145	3***55
5/32	5/64	45	0.290	0.145	3***56
3/16	5/64	10	0.345	0.145	3***57
1/4	5/64	5	0.415	0.145	3***58

Series 3 - 3/2 MP Cv and MOPD Values

Orifice Diameter		MOPD (psi)	Cv Value Body	Cv Value Endstop	Part Numbering
Body	Stop				
1/32	1/32	175	0.035	0.025	3***60
3/64	3/64	125	0.050	0.065	3***61
1/16	1/16	100	0.085	0.115	3***62
5/64	5/64	75	0.125	0.145	3***63
3/32	5/64	50	0.165	0.145	3***64
1/8	5/64	25	0.240	0.145	3***65
5/32	5/64	15	0.290	0.145	3***66
3/16	5/64	10	0.345	0.145	3***67
1/4	5/64	5	0.415	0.145	3***68

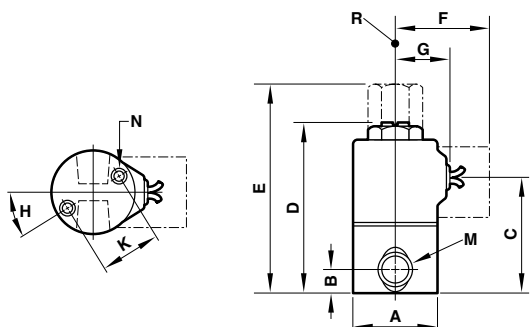
Consult Technical Support for low watt options for 3/2 MP valves

Series 3 - 3/2 Directional Control

Orifice Body	Diameter Stop	MOPD (psi)	Cv Value Body	Cv Value Endstop	Part Numbering
1/32	1/32	250	0.035	0.025	3***70
3/64	3/64	160	0.050	0.065	3***71
1/16	1/16	120	0.085	0.115	3***72
5/64	5/64	80	0.125	0.145	3***73
3/32	5/64	60	0.165	0.145	3***74
1/8	5/64	35	0.240	0.145	3***75
5/32	5/64	20	0.285	0.145	3***76
3/16	5/64	10	0.345	0.145	3***77
1/4	5/64	5	0.415	0.145	3***78

Series 3 Dimensions

Dimensions in mm
Projection/Third angle



Standard Valve

	A	B	C	D	E	F	G	H	K	M	N	R
Series 3	1.18 (30)	.355 (9)	1.65 (42)	2.46 (62)	2.80 (71)	1.19 (30)	.78 (20)	41° 0°	.91 (23)	1/4-18 NPTF	#8-32 UNC x 1/4 MFT	1/4-18 NPTF

Warning

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

Proposition 65: These products may contain chemicals known to the state of California to cause cancer, or birth defects, or other reproductive harm.