

Long lasting spool design

High flow compact valves

Wide range of operators and voltages available

Three functional types: available in 3/2, 5/2, and 5/3 configurations

Easily repairable



Technical data

Medium:

40 µm Filtered and lubricated or non-lubricated compressed air or vacuum.

Operation:

Spool valve solenoid pilot actuated

Mounting:

Inline – through holes in valve body

Port Size:

NPT – 1/4", 3/8", 1/2"

ISO G – 1/4", 3/8"

Operating Pressure:

Maximum 150 psig (10.3 bar)

Operating Temperature:

-20° to 120°F (-29° to 50°C)

Consult Technical Service for use below 35°F (2°C)

Materials:

Body: Aluminum

Spool: Anodized aluminum

Solenoid Operator Base: plastic

Plunger and spring: Stainless steel

Elastomers: Nitrile and special

nitrile-based low-friction elastomers.

Minimum Pilot Pressures

Operator	Return psig (bar)	Nondetent psig (bar)	Detented psig (bar)	Spring Centered
Solenoid	Solenoid	15 (1.0)	25 (1.7)	45 (3.1)
Solenoid	Spring	35 (2.4)	–	–

Average Flow Factors in Cv‡ (l/min)

Valve	Port Size	Flow Path	
		Port 1 to 2 1 to 4	Port 2 to 3 4 to 5
3-Port, Inline	1/4"	1.6 (1600)	1.7 (1700)
	3/8"	1.6 (1600)	1.7 (1700)
5-Port, Inline	1/4"	1.6 (1600)	1.7 (1700)
	3/8"	1.6 (1600)	1.7 (1700)
	1/2"	1.6 (1600)	1.7 (1700)

‡ Flow Rating determined in accordance with NFPA/T3.21.3, Pneumatic fluid power – Flow test procedure and reporting method – For fixed orifice components.

Low watt solenoid for 3-position valve, externally piloted

Non-locking NPT Thread	Locking NPT Thread	Voltage	Replacement Coil	Connector	Replacement Connector
K09	K03	24 VDC	54469-02	No Connector	None
K091WF	K031WF	12 VDC	54469-01	No Connector	None
KU9	KU3	24 VDC	54469-02	Cable Grip	54934-01
KU91WF	KU31WF	12 VDC	54469-01	Cable Grip	54934-01

Hazardous solenoid for 2-position valve, internally piloted

Non-locking NPT Thread	Locking NPT Thread	Voltage	Replacement Coil	Connector	Replacement Connector
KX1	KX2	120 V, 60 Hz	None	1/2" Conduit connector	None
KX11ND	KX21ND	24 VDC	None	1/2" Conduit connector	None

Low watt solenoid for 3-position valve, internally piloted

Non-locking NPT Thread	Voltage	Replacement Coil	Connector	Replacement Connector
KX8	120 V, 60 Hz	None	1/2" Conduit connector	None
KX81ND	24 VDC	None	1/2" Conduit connector	None

Replacement Valve Body

NPT Thread	ISOG Thread	Function	Port Size	Replacement Spool
K41DA00	K41DG00	3-ported / 2 position	1/4"	54237-59
K41ED00	K41ED00	3-ported / 2 position	3/8"	54237-59
K71DA00	K71DG00	5-ported / 2 position	1/4"	54237-56
K71EA00	K71EG00	5-ported / 2 position	3/8"	54237-56
K71FA00	K71FG00	5-ported / 2 position	1/2"	54237-56
K81DA00	K81DG00	5-ported / 3 position APB	1/4"	54237-56
K81EA00	K81EG00	5-ported / 3 position APB	3/8"	54237-56
K81FA00	K81FG00	5-ported / 3 position APB	1/2"	54237-56
K81DA06	K81DG06	5-ported / 3 position COE	1/4"	54237-58
K81EA06	K81EG06	5-ported / 3 position COE	3/8"	54237-58
K81FA06	K81FG06	5-ported / 3 position COE	1/2"	54237-58
K81DA05	K81DG05	5-ported / 3 position COP	1/4"	54237-57
K81EA05	K81EG05	5-ported / 3 position COP	3/8"	54237-57
K81FA05	K81FG05	5-ported / 3 position COP	1/2"	54237-57

Optional Connectors

Non-locking NPT Thread	Voltage
54934-01	Cable Grip, 0 - 240VAC/VDC
54934-21	6 ft molded cable, 0 - 204VAC/VDC
54934-08	Cable Grip, w/indicator light 24VDC
54934-02	Cable Grip, w/indicator light 120VAC
54934-05	1/2" Conduit 0 - 240 VAC/VDC
54934-30	6 ft molded cable, w/indicator light & surge suppression 24VAC/VDC
54934-35	6 ft molded cable, w/indicator light & surge suppression 120VAC/VDC