

SOLENOID VALVES

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**1/8"-2" NPT
 TYPES K-230
 & KR-230**

2-WAY – INVESTMENT CAST CF8M BODIES - PACKLESS
 VELVETROL® INTERNAL PISTON PILOT OPERATED
 SAFETY SOLENOID VALVES FOR HAZARDOUS LOCATIONS
 NORMALLY CLOSED OR NORMALLY OPEN - FULL PORT

- ☆ FOR GASOLINE, DIESEL FUEL, #1 AND #2 FUEL OIL: CLASS I GROUP D, CLASS II GROUP E,F, & G. NEMA 7. ALSO MEETS NEMA 4 WATERTIGHT AND NEMA 5 DUSTTIGHT
- ☆ PRESSURES: 5 PSI DIFFERENTIAL MINIMUM TO 150 PSI MAXIMUM
- ☆ TEMPERATURE: -40° TO 300° CLASS F COIL
- ☆ MOUNTING: INSTALL IN HORIZONTAL LINE WITH COIL UPRIGHT AND ON TOP



SIZES 1/8" - 2" NPT FULL PORT		
☆ SERVICE RATINGS	Complete Pricing, Service & Electrical Ratings shown in Price Schedule. Valves will be furnished for 5-150 PSI and 120 VAC Unless Otherwise Specified.	
NORMALLY CLOSED--		--NORMALLY OPEN
TYPE K-230	5-150 PSI; 300°F. Max. Fluid, Class F 12, 24, 120, 240, 480 VAC 60 Hz, 20 Watts Max. 12, 24, 32, 48, 115, 230 VDC, 32 Watts Max	TYPE KR-230
ADD -81, -84	-81 SLOW CLOSE (REDUCES WATER HAMMER) -84 QUICK CLOSE (BOTH FACTORY SETUPS)	ADD -81, - 84
ADD -SW	PIPE CONNECTION: -SW SOCKET WELD	ADD -SW

☆ **CONSTRUCTION:**

CLASS F & H COILS are Waterproof, Fungusproof, Molded of Filled Polyester with 18" Leads.
 BODIES are rated to 2500 psi, Investment Cast in CF8M Stainless Steel. PISTON SPRINGS are 316 or 302 SS.
 BONNET ASSEMBLIES are 304 SS TUBES welded into a 303 SS or CF8M SS BONNET with a 303 SS TUBE PLUG.
 PISTON ASSEMBLIES are 303 SS, 316 SS, or CF8M with Filled PTFE PISTON RINGS and 316 SS EXPANDERS.
 SEAT DISCS are Fluorocarbon (® Viton).
 PILOT ASSEMBLIES are 430FR SS ARMATURE with a 316 SS PILOT POINT and 316 SS PINS.
 1/8"-1" GLOBE STYLE BODY WITH UNION BONNET
 1-1/4"-2" GLOBE STYLE BODY WITH BOLT-DOWN BONNET

See List Price Schedule for "Terms and Conditions of Sale"

PERFORMANCE, ORDERING AND INSTALLATION GUIDE

ORDERING DATA--SPECIFY PIPE SIZE, TYPE, FLUID, OPERATING PRESSURE, TEMPERATURE RANGE, ELECTRICAL SPECIFICATIONS, BACK PRESSURE (IF ANY).

FLOW CHARACTERISTICS--SEE FLOW CURVES IN BULLETIN 5-FL, OR Cv FACTORS LISTED BELOW AND IN BULLETIN CP-1.

OPERATION--PISTON PILOT OPERATED. MINIMUM PRESSURE DROP OF 5 PSI (ΔP) IS REQUIRED ACROSS VALVE FOR OPERATION.

MOUNTING--MOUNT IN HORIZONTAL LINE WITH COIL VERTICAL AND ON TOP. INSTALL 40 MESH STRAINER (NOT LARGER) AHEAD OF VALVE. CHECK FOR PROPER COIL VOLTAGE. MAKE SURE THAT THE FLOW ARROW ON VALVE BODY IS POINTING IN THE DIRECTION OF FLOW.

SERVICING--SOLENOID VALVES SHOULD BE FREQUENTLY CHECKED FOR OPERATION, CLEANLINESS, & INTERNAL WEAR - REPAIR KITS ARE FACTORY AVAILABLE --GIVE SIZE, TYPE, SERIAL NUMBER OR OPERATING DATA (VOLTAGE, PRESSURE, ETC.)

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Valve Size	1b	1c	2	3	4	5	6	7b	7c	8	9	10	11	12	13	14	17	19	20	21
	N. C. Bonnet Assembly	N. O. Bonnet Assembly	Bonnet Bolts	Bonnet Ring	Piston Spring	Seat Screw	Piston Assembly	N.C. Pilot Assembly	N. O. Pilot Assembly	Piston Only	Piston Ring & Expander	Seat Disc	Guide Nut/Disk Screw	Body	Coil Screw	Nameplate	Coil	Bonnet Seal	Coil Endplates	Coil Spring
	K230	KR230	ALL	ALL	ALL	ALL	ALL	K230	KR230	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	K230	KR230
1/8	190XP	190RXP	N/A	192	37-14	415-32V	TBD	25-1	P32R6K	402-2	57	36-12V	851	850	9	4434	Consult Factory, Bulletin CP-1, Or Price List	N/A	113	37-2
1/4	190XP	190RXP	N/A	192	37-14	415-32V	TBD	25-1	P32R6K	402-2	57	36-12V	851	850-1	9	4434		N/A	113	37-2
3/8	190XP	190RXP	N/A	192	37-14	415-32V	TBD	25-1	P32R6K	402-2	57	36-12V	851	850-2	9	4434		N/A	113	37-2
1/2	190XP	190RXP	N/A	192	37-14	31-3-V303	187230	25-1	P32R6K	187	189	36-12V	188	186	9	4434		N/A	113	37-2
3/4	197XP	197RXP	N/A	199	37-14	31-3-V303	194230	25-1	P32R6K	194	196	36-34V	195	193	9	4434		N/A	113	37-2
1	204XP	204RXP	N/A	206	37-14	31-3-V303	201230	25-1	P32R6K	201	203	36-1V	202	200	9	4434		N/A	113	37-2
1-1/4	218XP	218RXP	9-18	N/A	37-2	31-3-V303	214230	22-1	P32R6K	214	216	36-112V	215	213	9	4434		2-151	113	37-2
1-1/2	218XP	218RXP	9-18	N/A	37-2	31-3-V303	214230	22-1	P32R6K	214	216	36-112V	215	261	9	4434		2-151	113	37-2
2	224XP	224RXP	9-19	N/A	37-2	31-3-V303	220230	22-1	P32R6K	220	222	36-2V	221	219	9	4434	2-154	113	37-2	

N.C. XP Cover		N.O. XP Cover		Bolts	Washers	XP Base	CV Factor	Valve Size	Normally Closed			Ship Weight (lbs)
A	B	C	A						B	C		
K230	KR230	ALL	ALL	ALL				(in)	(in)	(in)		
42NC	42NO	9-4	46-3	41A	1.1	1/8	6.56	2.63	5.88	7		
42NC	42NO	9-4	46-3	41A	2.1	1/4	6.56	2.63	5.88	7		
42NC	42NO	9-4	46-3	41A	3.2	3/8	6.56	2.63	5.88	7		
42NC	42NO	9-4	46-3	41A	3.9	1/2	7.30	3.13	6.44	7		
42NC	42NO	9-4	46-3	41A	7.5	3/4	7.56	3.75	6.44	8		
42NC	42NO	9-4	46-3	41A	9.9	1	8.00	4.16	6.75	9		
42NC	42NO	9-4	46-3	41A	23.0	1-1/4	9.10	6.13	7.50	11		
42NC	42NO	9-4	46-3	41A	25.0	1-1/2	9.10	6.13	7.50	13		
42NC	42NO	9-4	46-3	41A	45.0	2	9.92	6.45	7.94	21		

Physical Dimensions

The Explosionproof housing is constructed of two (2) machined, enamel painted sand-cast gray iron parts bolted together, threaded onto the bonnet assembly and rigidly cemented in place. Once assembled the housing will *not* rotate. Also meets NEMA 4 Watertight and NEMA 5 Dusttight.

Valve Size	Normally Open			Ship Weight (lbs)	Physical Dimensions
	A	B	C		
	(in)	(in)	(in)	(lbs)	
1/8	7.69	2.63	7.00	8	
1/4	7.69	2.63	7.00	8	
3/8	7.69	2.63	7.00	8	
1/2	8.41	3.13	7.54	8	
3/4	8.68	3.75	7.54	10	
1	9.10	4.16	7.85	11	
1-1/4	10.22	6.13	8.60	14	
1-1/2	10.22	6.13	8.60	16	
2	11.04	6.45	9.05	23	

