

## 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: CLASS1, GROUP D FOR GASOLINE, DIESEL FUEL, #1 AND #2 FUEL OIL
- ★ PRESSURES: 5 PSI DIFFERENTIAL MINIMUM TO 150 PSI MAXIMUM
- ★ TEMPERATURE: 77°F. MAX. AMBIENT TEMP. CLASS F, 220°F MAX FLUID
- ★ 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 500 ST. Valves will be furnished for 5-150 PSI and 120 VAC Unless Otherwise Specified.

NORMALLY CLOSED--		--NORMALLY OPEN
<b>TYPE K-230</b>	5-150 PSI; 220°F. Max. Fluid, Class F 120, 240, 480 VAC 60 Hz, 14 Watts Std. Other Voltages Available.	<b>TYPE KR-230</b>
<b>ADD -81, -84</b>	-81 SLOW CLOSE (REDUCES WATER HAMMER) -84 QUICK CLOSE (BOTH FACTORY SETUPS)	<b>ADD -81, 84</b>
<b>ADD -SW, -FL</b>	PIPE CONNECTION: -SW SOCKET WELD, -FL FLANGE	<b>ADD -SW, -FL</b>

- ★ **CONSTRUCTION:**  
 CLASS F & N 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 or 316 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.  
 PILOT ASSEMBLIES are 416 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" (Back Cover)

## 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 ( $\Delta P$ ) 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.)

	1b	1c	2	3	4	5	6	7b	7c	8	9	10	11	12	13	14	17	19	20	21
Valve Size	N. C. Bonn. Assembly	N. O. Bonn. Assembly	Bonn. Bolts	Bonn. Ring	Piston Spring	Seat Screw	Piston Assembly	N.C. Pilot Assembly	N. O. Pilot Assembly	Piston Only	Piston Ring & Expander	Seat Disc	GuideNut/DiskScrew	Body	Coil Screw	Nameplate	Coil	O-Ring	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	3612V	851	850	9	4434	Consult	N/A	113	37-2
1/4	190XP	190RXP	N/A	192	37-14	415-32V	TBD	25-1	P32R6K	402-2	57	3612V	851	850-1	9	4434	Factory or Page 10 of the List Price Sched.	N/A	113	37-2
3/8	190XP	190RXP	N/A	192	37-14	415-32V	TBD	25-1	P32R6K	402-2	57	3612V	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	3612V	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	3634V	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	361V	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	36112V	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	36112V	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	362V	221	219	9	4434	2-154	113	37-2	

22		23		24	Valve Size	Normally Closed			Ship Weight (lbs)
N.C. XP Cover	N.O. XP Cover	Bolts	Washers	XP Base		A	B	C	
K230	KR230	ALL	ALL	ALL					
42NC	42NO	9-4	46-3	41A	1/8	6.56	2.63	5.88	
42NC	42NO	9-4	46-3	41A	1/4	6.56	2.63	5.88	
42NC	42NO	9-4	46-3	41A	3/8	6.56	2.63	5.88	
42NC	42NO	9-4	46-3	41A	1/2	7.30	3.13	6.44	
42NC	42NO	9-4	46-3	41A	3/4	7.56	3.75	6.44	
42NC	42NO	9-4	46-3	41A	1	8.00	4.16	6.75	
42NC	42NO	9-4	46-3	41A	1-1/4	9.10	6.13	7.50	
42NC	42NO	9-4	46-3	41A	1-1/2	9.10	6.13	7.50	
42NC	42NO	9-4	46-3	41A	2	9.92	6.45	7.94	

The Explosionproof housing is constructed of two (2) machined, sand-cast gray iron parts bolted together, threaded onto the bonnet assembly and rigidly cemented in place. Once assembled the housing will **not** rotate. NEMA 4, NEMA 5, or NEMA 7 ratings are available with this housing.

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

