

APPLICATIONS:

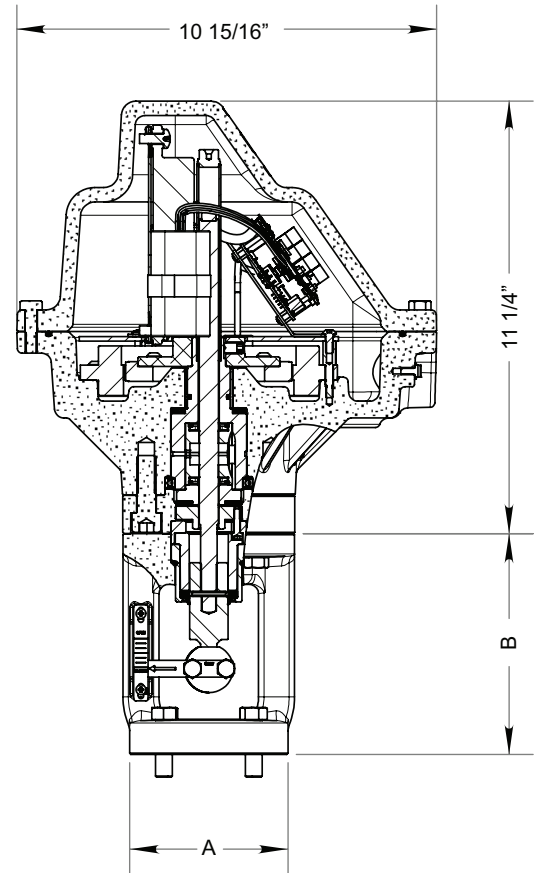
Used for actuating HPCV Control Valves

FEATURES:

- Compact Design
- Easy commissioning
- Valve travel indicator
- Zero-emissions
- Analog input/output
- Discrete input/output
- Adjustable speed
- 1500 LBF Continuous, 3200 LBF peak
- Battery backup for failsafe condition.

CERTIFICATIONS:

CSA - Kimray is an ISO 9001 - certified manufacturer
Class I, Div1 , Groups C, D; T6
Type 4 enclosure, IP66 protection



ELECTRICAL RATINGS			
	Min	Max	Units
Input Voltage (VIN)	21	26	VDC
Input Current	0.2	10.0	ADC
Ambient Temperature	-40	60	°C
	-40	140	°F
Discrete input	5	26	VDC
Analog input From Sensor	4-20 mA (Loop power Required)		
Analog Output to Actuator	4-20 mA (Loop power Required)		
Communications	RS-485 (MODBUS RTU)		
Discrete Output	0 VDC or VIN, up to 1A		

Line Size	A	B
1"	Ø 2 15/16"	4 1/2"
2"	Ø 4 1/8"	5 3/4"
3"-4"	Ø 5 1/8"	9 3/16"
6"-10"	Ø 10 5/8"	7"



Order Code †	Body Size	Stem Travel	Travel Time Range † (Seconds)	Travel Time † (250 RPM)
ZAA	1"	1/2"	0.7-5.2	4 s
ZAB	2"	3/4"	1.0-7.6	6 s
ZAC	3"-4"	1 3/8"	1.5-13.8	11 s
	4"	1 3/4"	1.9-17.4	14 s
ZAD	6"-10"	2 1/2"	2.6-25	20 s

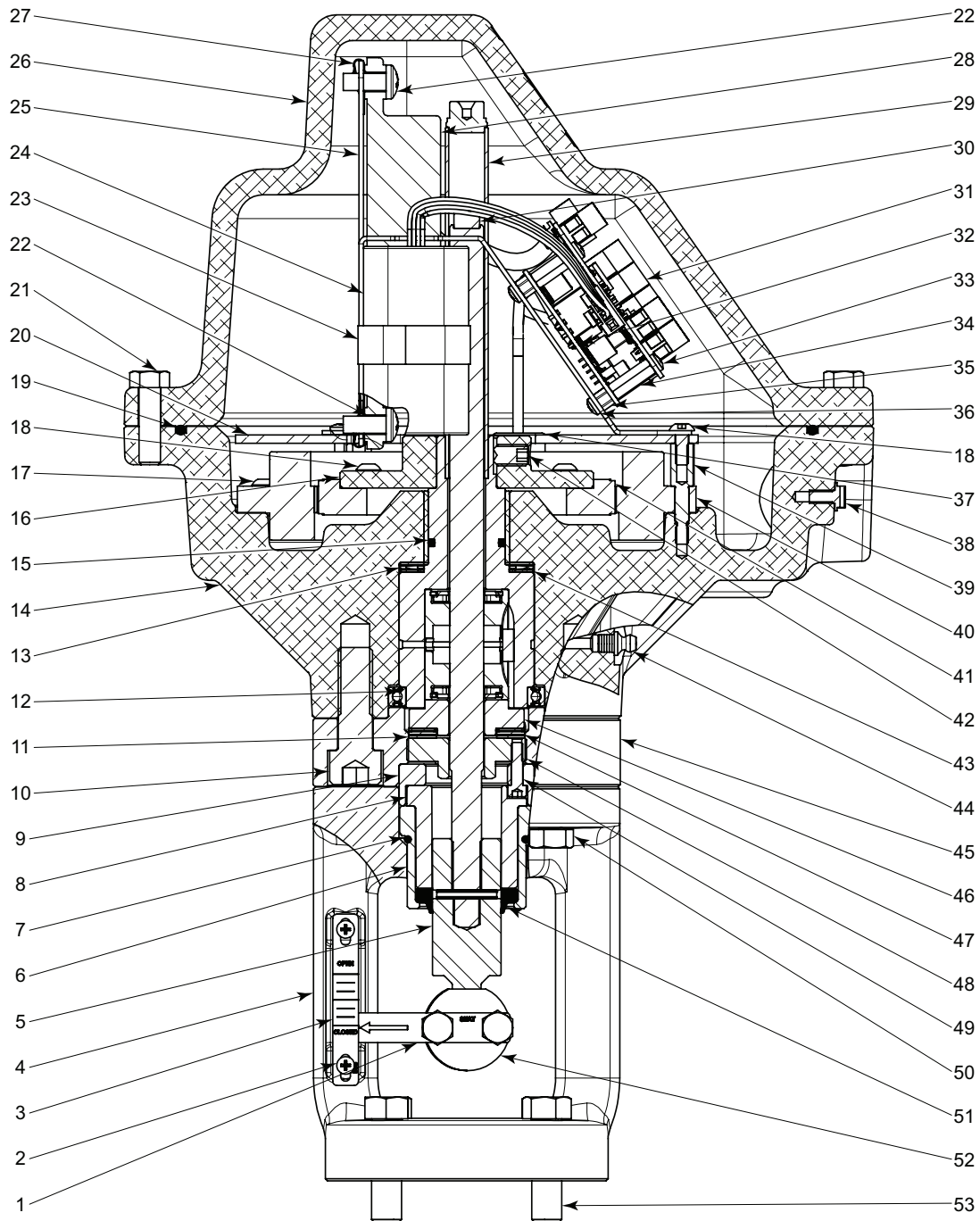
NOTES:

† Times are approximate and may vary with voltage, temperature, and loading

HIGH PRESSURE CONTROL VALVES



ELECTRIC ACTUATOR PARTS DRAWING



All Pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.
‡ Configuration of High Pressure Control Valve is a trademark of Kimray, Inc.
www.kimray.com

ITEM	QTY.	DESCRIPTION	STANDARD PART NO.			
			1 INCH	2 INCH	3 & 4 INCH	6, 8 & 10 INCH
1	1	Travel Indicator	1659A	535	4974	5317
2	2	Screw	7534			
3	1	Indicator Scale	488	536	7946	5316
4	1	Yoke	7816	7815	7814	7813
5	1	Roller Screw Assy	7798KR1	7798KR2	7798KR3	7798KR6
6	1	Anti-Rotate Housing	7802		7898	
7	1	O-Ring	7770			
8	1	Anti-Rotate Bushing	7848		7884	
9	1	Bearing Preload Lock	7807			
10	4	Screw	7791			
11	2	Thrust Bearing Race	7796			
12	1	Radial Bearing	7776			
13	1	Thrust Needle Bearing	7793			
14	1	Lower Housing	7818			
15	1	O-Ring	7771			
16	1	Rotor Hub	7801			
17	6	Screw	7782			
18	9	Screw	7866			
19	1	O-Ring	7840			
20	1	Mounting Plate	7772			
21	9	Bolt	7780			
22	2	Screw	7865			
23	1	Hook & Loop Strap	7868			
24	1	Back Up Battery	7715			
25	1	Pcb Bracket	7862			
26	1	Enclosure Cover	7817			
27	2	Clip-On Nut	7864			
28	1	Linear Sensor	7797			
29	1	Roller Nut Housing Assy	7810AS			
30	1	Magnet	7784			
31	1	Pbc	KA7510			
32	1	Motor Drive	7777			
33	6	Screw	7774			
34	4	Standoff	7891			
35	4	Spacer	7923			
36	4	Screw	7924			
37		Split Grommet	7922			
38	2	Ground Screw	7788			
39	3	Stator Alignment Screw	7890			
40	1	Motor Stator	7779			
41	1	Motor	7778			
42	2	Set Screw	7849			
43	2	Thrust Bearing Race	7794			
44	1	Grease Fitting	7897			
45	1	Bering Retainer	7811			
46	1	Roller Nut Retainer	7809			
47	1	Thrust Needle Bearing	7795			
48	1	Bearing Preload Nut	7808			
49	3	Screw	7790			
50	4	Hex Bolt 3/8-24	1672		833	
51	1	Hex Shaft Wiper	7785			
52	1	Coupling Block	1659	511	4972	5345
53	4	Bolt 7/16-20	694	524	4991	5406
		Repair Kits				

* These parts are recommended spare parts and are stocked as repair kits.