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BALANCED MOTOR VALVES

DIAPHRAGM BALANCED PRESSURE OPEN

APPLICATIONS:

As oil or water valve for separators, meters, water knockouts where a reduced signal pressure is available.

FEATURES:

- Diaphragm balanced single seat.
- 10 psig minimum diaphragm pressure.
- Reinforced oil resistant synthetic rubber diaphragms and seats.
- Easy to service and repair.
- Available for pressure opening or pressure closing service.

CERTIFICATIONS:

Canadian Registration Number (CRN):
0C15804.24567890NTY (Ductile)
0C15621.24567890NTY (Steel)

SUPPLY PRESSURE:

10 to 35 psig.

OPERATION TEMPERATURE:

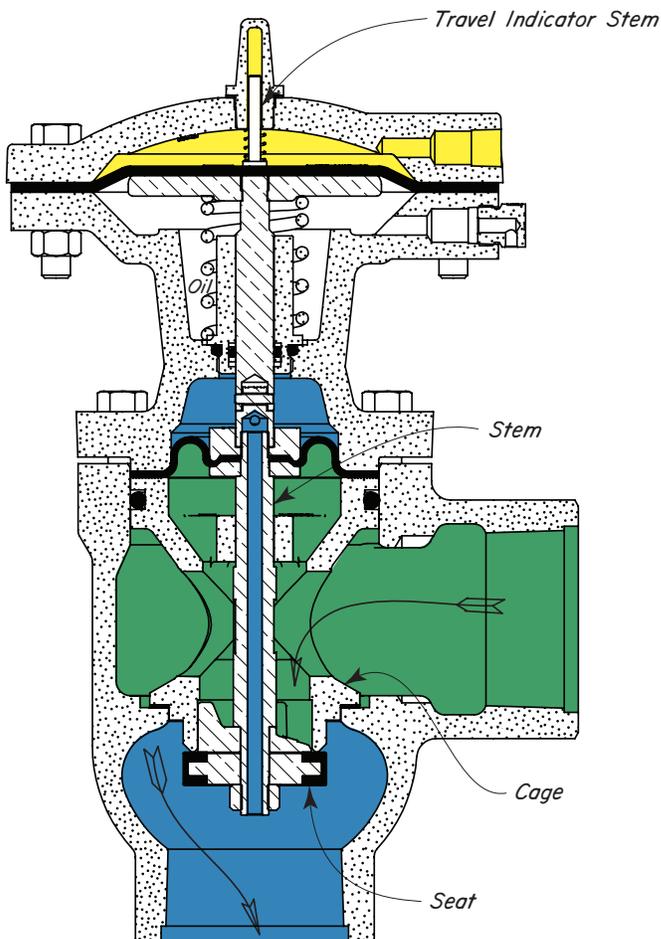
Standard - 180°F. Max.
Heat Modified - 350°F. Max.
Delrin Cages should only be used up to 180°F (82°C) max

CAPACITY:

Refer to Table of Contents.

Cf & Cv VALUES			
Line Size	Trim Size	Cf	Cv
2"	1.50"	0.79	23.3
3"	2.25"	0.79	43.8
4"	3.00"	0.79	70.1
6"	4.88"	0.79	277.0

-  Stem and Seat Assembly
-  Motor Valve Diaphragm Pressure
-  Upstream Pressure
-  Downstream Pressure



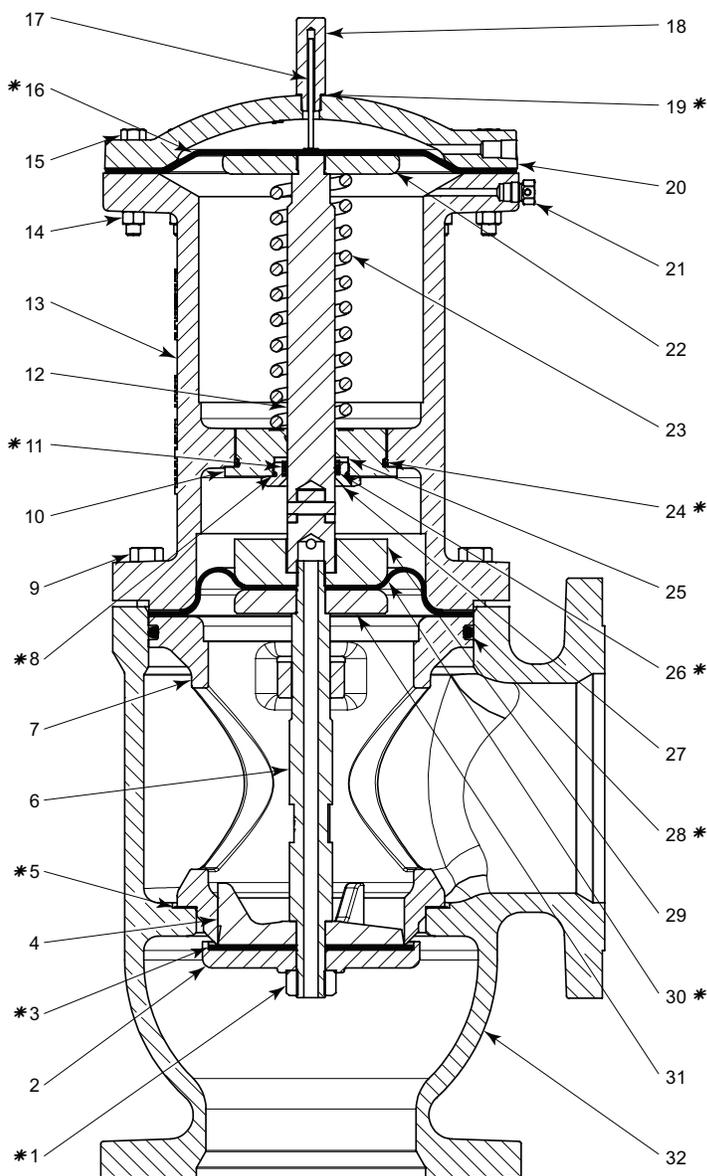
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BALANCED MOTOR VALVES

DIAPHRAGM BALANCED PRESSURE OPEN DUCTILE IRON, STEEL



ITEM	QTY.	DESCRIPTION	PART NO.	
			DUCTILE	STEEL
1	1	LOCK NUT *	175	
2		SEAT DISC	2349	3077
3		SEAT *	2356HSN	
4	1	RATIO PLUG	2348	3072SS6
5	1	GASKET *	2354	
6	1	STEM	2350SS6	
7	1	CAGE	2345	3071SS6
8	1	O RING *	4086	
9	8	BOLT	81	
10	1	STEM GUIDE	4372	
11	1	O RING *	157	
12	1	STEM ASSEMBLY	2452PH	
13	1	HOUSING	4370	2451
14	12	NUT	241	
15	12	BOLT	192	
16	1	DIAPHRAGM *	6812	
17	1	TRAVEL INDICATOR STEM	2456	
18	1	TRAVEL INDICATOR HOUSING	5159	
19	1	GASKET *	1784	
20	1	BONNET	2588	6645
21	1	BREATHER PLUG	147	
22	1	DIAPHRAGM PLATE	2450	
23	1	SPRING	2415	
24	1	O RING *	4371	
25	1	SPACER	4571DS6	
26	2	BACK UP *	2455	
27	1	STEM SEAL RETAINER	4571ES6	
28	1	O RING *	2353	
29	1	DIAPHRAGM NUT	2453	
30	1	DIAPHRAGM *	4315	
31	1	PLATE	2454	
32	1	BODY		
		FLANGED ANGLE	2344	3073
		FLANGED THRU	3091	3096

DUCTILE IRON VALVES AVAILABLE:

CAT. NO.	SIZE TYPE	MOTOR VALVE	OPER. PRES.	MAX W.P.	KIT
EKX	6" FLGD.	612 FMA DB PO-D w/TI	125	250	RGB
EXX	6" FLGD.	612 FMT DB PO-D w/TI	125	250	RGB

STEEL VALVES AVAILABLE

CAT. NO.	SIZE TYPE	MOTOR VALVE	OPER. PRES.	MAX W.P.	KIT
EKY	6" FLGD.	612 FMA DB PO-S w/TI	125	250	RGB
EXY	6" FLGD.	612 FMT DB PO-S w/TI	125	250	RGB

†To remove Diaphragm Nut 2453, use Seat Wrench 706HTSW.

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

For dimensions refer to Table of Contents.

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CAPACITY-Bbls. Water/Day, Steady Flow

PRESSURE DROP ACROSS VALVE PSIG	VALVE SIZE - INCHES			
	2	3	4	6
1	800	1,500	2,400	9,500
2	1,150	2,100	3,400	13,450
3	1,400	2,600	4,150	16,450
4	1,600	3,000	4,800	19,000
5	1,800	3,350	5,350	21,250
10	2,550	4,750	7,600	30,050
15	3,100	5,800	9,300	36,800
20	3,600	6,700	10,750	42,500
30	4,400	8,200	13,150	52,000
40	5,100	9,500	15,200	60,050
50	5,700	10,600	16,950	67,150
60	6,250	11,600	18,600	73,550
70	6,750	12,550	20,100	79,450
80	7,200	13,400	21,450	84,950
90	7,650	14,200	22,750	90,100
100	8,050	15,000	24,000	94,950
120	8,850	16,400	26,300	104,050
140	9,550	17,750	28,400	112,350
160	10,200	18,950	30,350	120,150
180	10,800	20,100	32,200	127,400
200	11,400	21,200	33,950	134,300
220	11,950	22,200	35,600	140,850
240	12,500	23,200	37,200	147,150
260	13,000	24,150	38,700	153,150
280	13,500	25,050	40,150	158,900
300	13,950	25,950	41,550	164,500
325	14,500	27,000	43,250	171,200
350	15,050	28,050	44,900	177,700
375	15,600	29,000	46,500	183,900
400	16,100	29,950	48,000	189,950

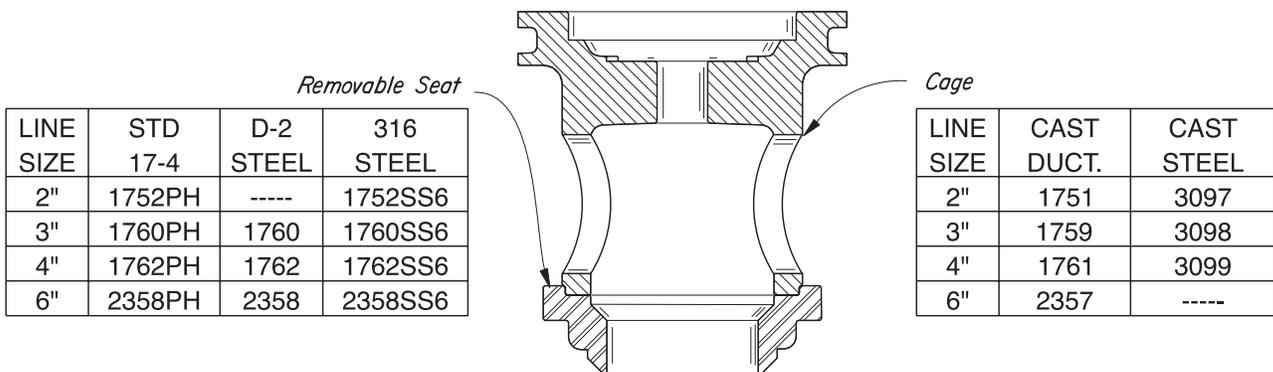
For gravity correction, multiply the above figures by $\sqrt{\frac{1}{G}}$
Where "G" is the specific gravity of the flowing liquid.
NOTE: Flow rates are for steady flow conditions
over a 24 hour period. Corrections should be made
to deal with intermittent flow conditions.

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BALANCED MOTOR VALVES

CAGE & HARD SEAT



LINE SIZE	STD 17-4	D-2 STEEL	316 STEEL
2"	1752PH	-----	1752SS6
3"	1760PH	1760	1760SS6
4"	1762PH	1762	1762SS6
6"	2358PH	2358	2358SS6

LINE SIZE	CAST DUCT.	CAST STEEL
2"	1751	3097
3"	1759	3098
4"	1761	3099
6"	2357	-----

NOTES:

Removable seat and cage is standard in Piston Balanced Motor Valves. But is optional in Diaphragm Balanced Motor Valve. To order specify valve model, then add "with removable seat."

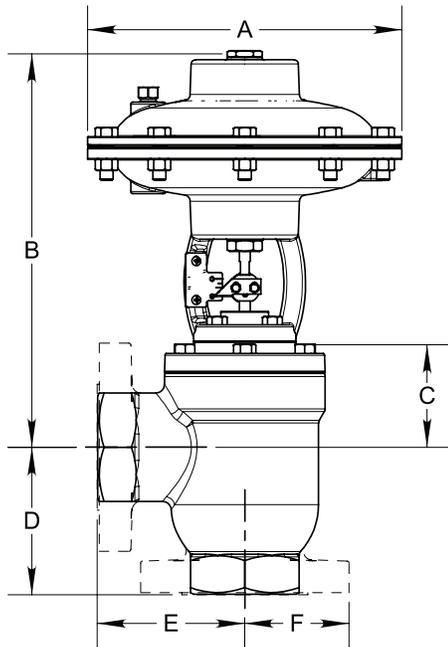
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BALANCED MOTOR VALVES

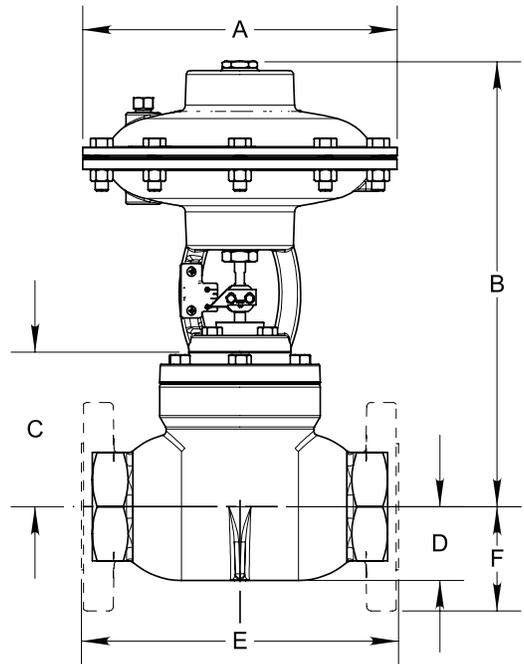
DIMENSIONS

LPHV ANGLE DIMENSIONS



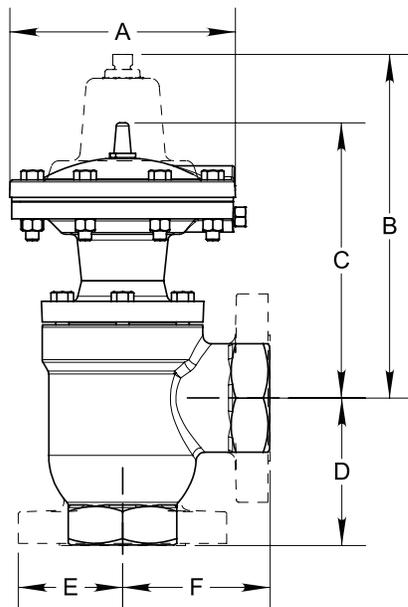
VALVE	A	B	C	D	E	F
2" S/FMA	9 1/16	11 9/32	2 29/32	4 1/4	4 1/4	3
3" S/FMA	12 7/8	15 9/32	4 1/32	5 1/2	5 1/2	3 3/4

LPHV THRU DIMENSIONS



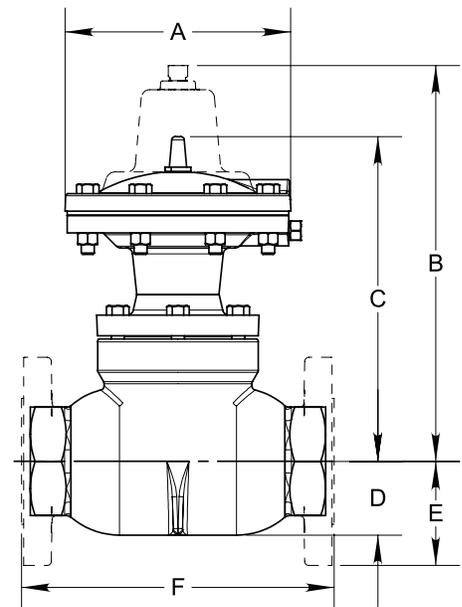
VALVE	A	B	C	D	E	F
2" SMT	9 1/16	12 13/16	4 7/16	2 1/8	8 1/2	3
2" FMT	9 1/16	12 13/16	4 7/16	2 1/8	9 1/8	3
3" SMT	12 7/8	17 5/32	5 29/32	2 7/8	12	3 3/4
3" FMT	12 7/8	17 5/32	5 29/32	2 7/8	12 3/16	3 3/4

PB, DB, PBT ANGLE DIMENSIONS



VALVE	A	B	C	D	E	F
2" S/FMA	6 1/2	9	8 1/2	4 1/4	3	4 1/4
3" S/FMA	8 1/2	11 3/4	10 1/4	5 1/2	3 3/4	5 1/2
4" FMA	8 1/2	12 1/2	11	6 1/2	4 1/2	6 1/2
6" FMA	10 3/4	—	19 3/4	10 1/4	5 1/2	7 11/16

PB, DB, PBT THRU DIMENSIONS



VALVE	A	B	C	D	E	F
2" SMT	6 1/2	10 3/8	9 7/8	2 1/8	—	8 1/2
2" FMT	6 1/2	10 3/8	9 7/8	—	3	9
3" SMT	8 1/2	13 5/16	11 9/16	2 7/8	—	12
3" FMT	8 1/2	13 5/16	11 9/16	—	3 3/4	12 3/16
4" FMT	8 1/2	14 7/8	13 3/8	—	4 1/2	15 1/8
6" FMT	10 3/4	—	19 3/4	—	5 1/2	22