

APPLICATIONS:

For discharge of liquid or gas from vessels, separators, treaters, knockouts and other similar liquid accumulators.

For back pressure or pressure reducing applications with pressure pilots.

FEATURES:

- Compact design
- Soft seat with metal to metal backup
- Valve travel indicator
- Field reversible topworks
- Teflon packed stuffing box
- Bubble tight shut-off
- Piston balanced seat assembly

TOPWORKS:

Unless otherwise specified, all HPMV's will be furnished with ductile topworks, steel topworks available for 2". Specify when ordering.

Effective diaphragm area:

2" HPMV PB - 65 square inches

3" HPMV PB - 100 square inches

4" HPMV PB - 100 square inches

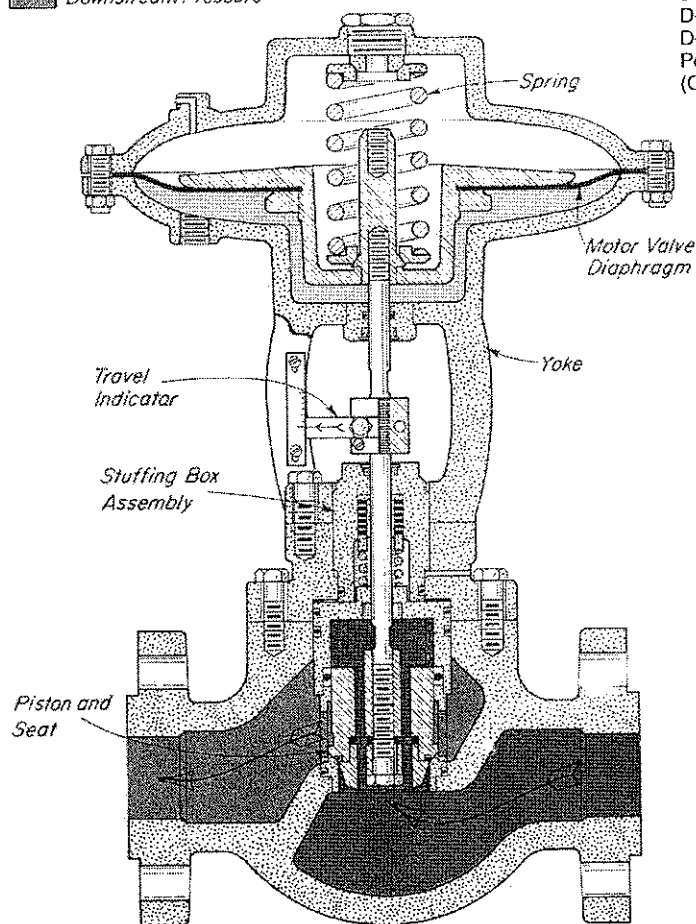
6" HPMV PB - 120 square inches

 Motor Valve Diaphragm Assembly

 Motor Valve Diaphragm Pressure

 Upstream Pressure

 Downstream Pressure

**SPRINGS:**

HPMV springs are available for diaphragm pressures of 15, 20, and 30 psig. in the 2" valve and 30 psig. in the 3" and 4" valve.

Unless otherwise specified, all PISTON BALANCED HPMV's will be furnished with 30 lb. springs.

Top Adjusting Screw may be adjusted to vary the spring tension slightly; this affects pressure required to actuate valve.

STEM TRAVEL:

2" HPMV PB - $\frac{3}{8}$ " nominal

3" HPMV PB - $\frac{13}{16}$ " nominal

4" HPMV PB - $\frac{13}{4}$ " nominal

6" HPMV PB - $2\frac{1}{2}$ " nominal

ACTUATOR WORKING PRESSURE:

15-30 psig normal (see spring ranges)

45 psig maximum

WORKING PRESSURE:

2" HPMV PB - 1500, 4000 psig.

3" HPMV PB - 1500 psig.

4" HPMV PB - 1500 psig.

6" HPMV PB - 1500 psig.

INNER VALVE SIZES:

2" HPMV PB - $1\frac{1}{2}$ " & 2" Equal Percentage

3" HPMV PB - 2" & 3" Equal Percentage

4" HPMV PB - $4\frac{3}{8}$ " Equal Percentage

6" HPMV PB - $6\frac{3}{4}$ " Equal Percentage

STANDARD TRIM SPECIFICATIONS:

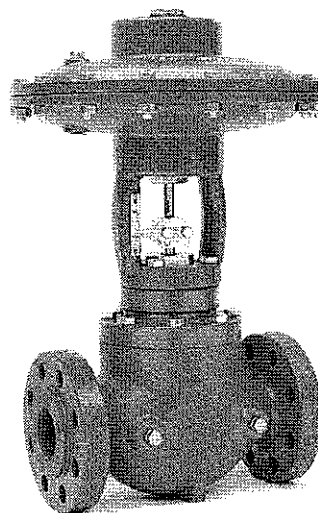
316 stainless steel cage

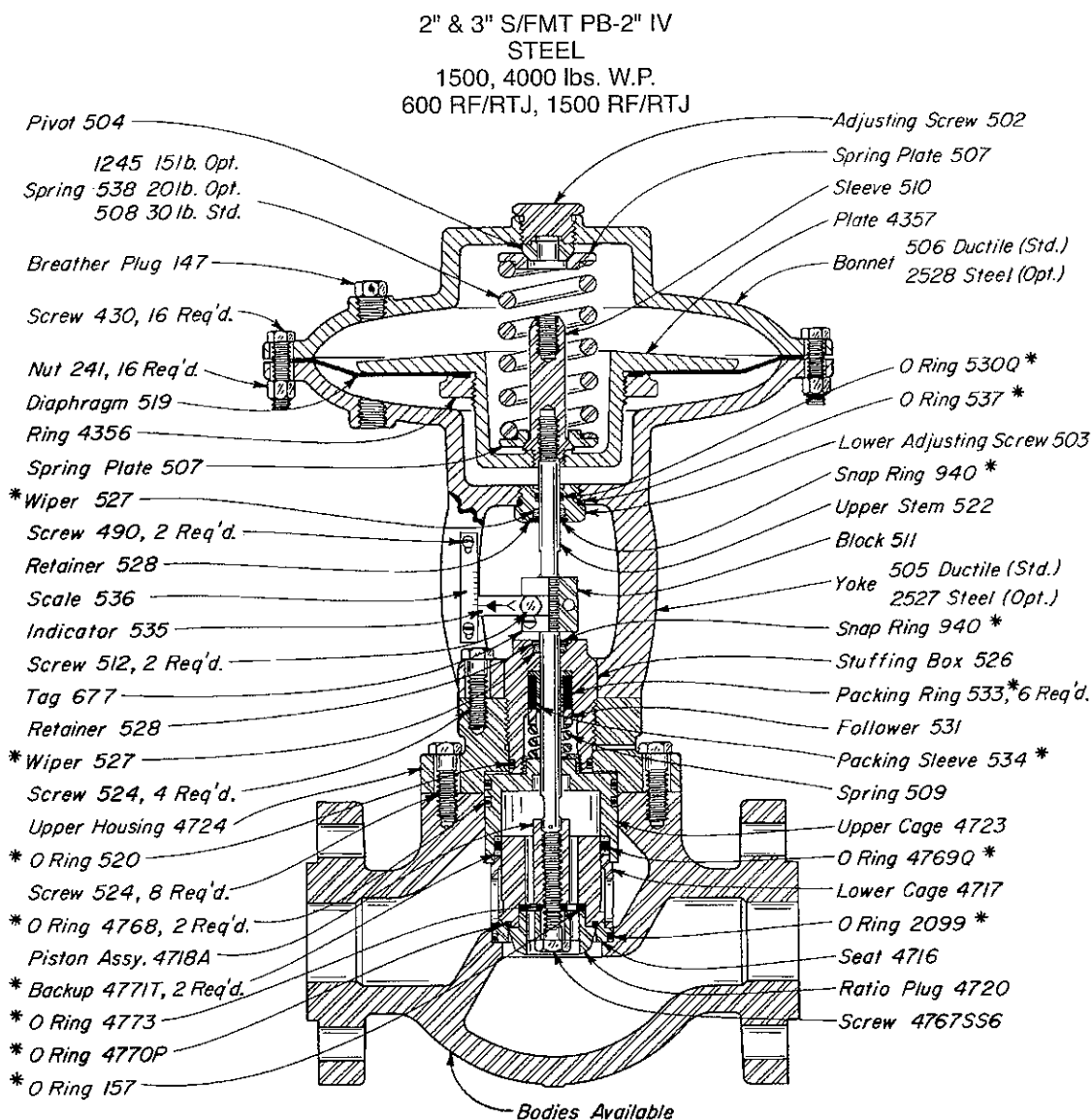
D-2 tool steel valve plug assembly

D-2 tool steel seat

Polyurethane seal with Metal-to-Metal back-up

(Other material available on request)





BODY TYPE	SCREWED ‡			FLANGED		
	SIZE	BODY	W.P.	SIZE	BODY	ANSI CLASS
THRU	2"	4813	1500 lbs.	2"	4712	600 RF
	2"	4764	4000 lbs.	2"	4713	600 RTJ
				2"	4714	1500 RF
				2"	4715	1500 RF
	3"			3"	4871	600 RF
	3"			3"	4872	600 RTJ

‡ 2" NPT ANSI THREADS

THRU HIGH PRESSURE MOTOR VALVES AVAILABLE: DUCTILE TOPWORKS & STEEL BODY

CAT. NO.	LINE SIZE	TYPE	VALVE	DES. PRESS.	OPER. PRESS.
EFG	2"	SCRD.	2150 SMT PB 2 IV	1500	1500
EFH	2"	SCRD.	2400 SMT PB 2 IV	4000	4000
EFI	2"	FLGD.	2150 FMT PB 600 RF 2 IV	1500	600 RF ^a
EFJ	2"	FLGD.	2150 FMT PB 600 RTJ 2 IV	1500	600 RTJ ^a
EFK	2"	FLGD.	2400 FMT PB 1500 RF 2 IV	4000	1500 RF ^a
EFL	2"	FLGD.	2400 FMT PB 1500 RTJ 2 IV	4000	1500 RTJ ^a
EFM	3"	FLGD.	3150 FMT PB 600 RF 2 IV	1500	600 RF ^a
EFO	3"	FLGD.	3150 FMT PB 600 RTJ 2 IV	1500	600 RTJ ^a

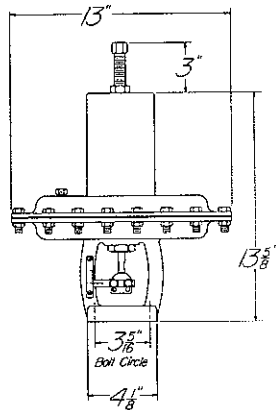
^aFor working pressure vs. working temperature of these flanges see ANSI B16.5.

NOTE: All standard HPMV's have a Cat. No. Seats, stems, cages, stuffing boxes and valve bodies are available in 316 stainless steel. Inner valves can be made from a wide selection of materials. Specify when ordering.

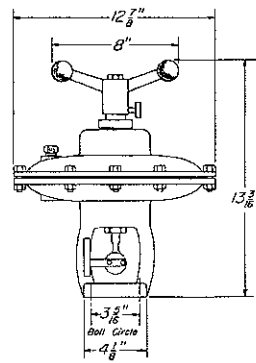
Dimensions refer to E1:100.3

*These are recommended spare parts and are stocked as repair kits. To order repair kit, specify "2" HPMV PB Repair Kit, RUR."

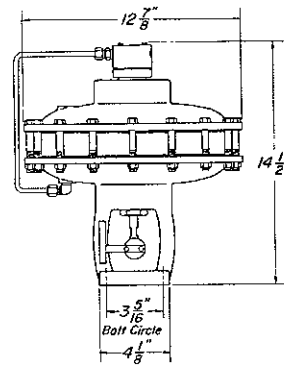
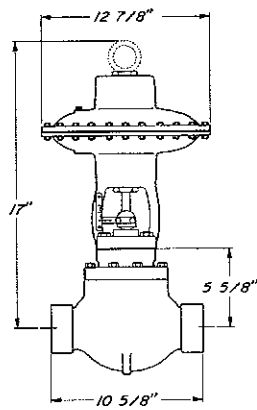
2" 65 TOPWRKS



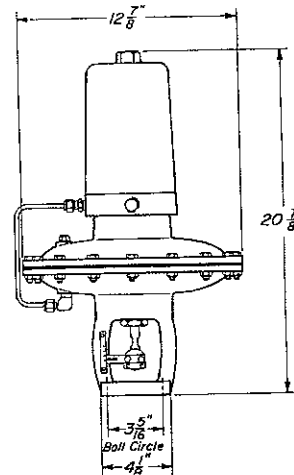
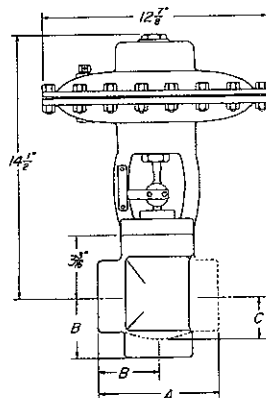
2" MVP TOPWORKS



2" HPMV PB



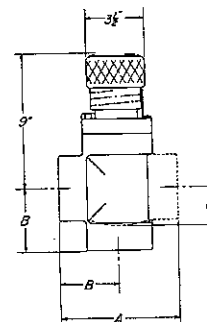
2" HPMV

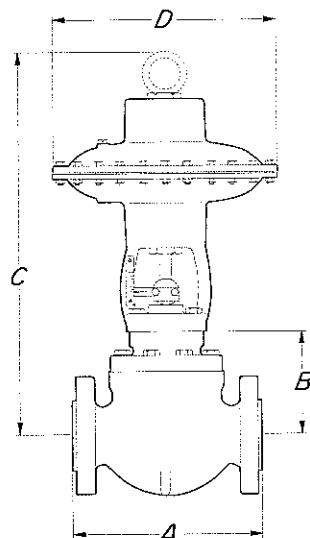


VALVE MODEL No.	TYPE OF CONNECTION SCREWED		
	A	B	C
2100	6 ⁵ / ₁₆ "	3 ¹ / ₄ "	2"
2200	6 ⁹ / ₁₆ "	3 ³ / ₈ "	2 ¹ / ₈ "
2400	6 ⁷ / ₈ "	3 ¹ / ₂ "	2 ¹ / ₄ "

All dimensions
Flanged body

E1:100.2
Issued 10/04





	SIZE	BODY STYLE	A	B	C	D
STANDARD	1 "	150RF	8 ³ / ₁₆ "	1 ¹⁵ / ₁₆ "	10 ¹ / ₂ "	9 ¹ / ₈ "
		150RTJ	8 ³ / ₁₆ "	1 ¹⁵ / ₁₆ "	10 ¹ / ₂ "	9 ¹ / ₈ "
		300RF	8 ³ / ₄ "	1 ¹⁵ / ₁₆ "	10 ¹ / ₂ "	9 ¹ / ₈ "
		300RTJ	8 ³ / ₄ "	1 ¹⁵ / ₁₆ "	10 ¹ / ₂ "	9 ¹ / ₈ "
		600RF	9 ⁵ / ₈ "	1 ¹⁵ / ₁₆ "	10 ¹ / ₂ "	9 ¹ / ₈ "
		600RTJ	9 ⁵ / ₈ "	1 ¹⁵ / ₁₆ "	10 ¹ / ₂ "	9 ¹ / ₈ "
		1500RF	9 ²⁹ / ₃₂ "	1 ¹⁵ / ₁₆ "	10 ¹ / ₂ "	9 ¹ / ₈ "
		1500RTJ	9 ²⁹ / ₃₂ "	1 ¹⁵ / ₁₆ "	10 ¹ / ₂ "	9 ¹ / ₈ "
	2 "	150RF	10 ¹ / ₄ "	3 ³ / ₁₆ "	14 ¹ / ₂ "	12 ⁷ / ₈ "
		150RTJ	10 ³ / ₄ "	3 ³ / ₁₆ "	14 ¹ / ₂ "	12 ⁷ / ₈ "
		300RF	10 ¹ / ₂ "	3 ³ / ₁₆ "	14 ¹ / ₂ "	12 ⁷ / ₈ "
		300RTJ	11 ¹ / ₈ "	3 ³ / ₁₆ "	14 ¹ / ₂ "	12 ⁷ / ₈ "
		600RF	11 ¹ / ₄ "	3 ³ / ₁₆ "	14 ¹ / ₂ "	12 ⁷ / ₈ "
		600RTJ	11 ³ / ₈ "	3 ³ / ₁₆ "	14 ¹ / ₂ "	12 ⁷ / ₈ "
		1500RF	12 ¹ / ₄ "	3 ³ / ₁₆ "	14 ¹ / ₂ "	12 ⁷ / ₈ "
		1500RTJ	12 ³ / ₈ "	3 ³ / ₁₆ "	14 ¹ / ₂ "	12 ⁷ / ₈ "
PISTON BALANCED	2 "	300RF	10 ¹ / ₂ "	5 ⁵ / ₈ "	17"	12 ⁷ / ₈ "
		600RF	11 ¹ / ₄ "	5 ⁵ / ₈ "	17"	12 ⁷ / ₈ "
		1500RF	12 ¹ / ₄ "	5 ⁵ / ₈ "	17"	12 ⁷ / ₈ "
		1500RTJ	12 ³ / ₈ "	5 ⁵ / ₈ "	17"	12 ⁷ / ₈ "
	3 "	300RF	12 ¹ / ₂ "	7 ¹ / ₄ "	27"	15 ³ / ₄ "
		600RF	13 ¹ / ₄ "	7 ¹ / ₄ "	27"	15 ³ / ₄ "
		600RTJ	13 ³ / ₈ "	7 ¹ / ₄ "	27"	15 ³ / ₄ "
	4 "	300RF	14 ¹ / ₂ "	11"	30"	15 ³ / ₄ "
		600RF	15 ¹ / ₂ "	11"	30"	15 ³ / ₄ "
	6 "	300RF	18 ⁵ / ₈ "	11 ³ / ₁₆ "	34 ¹ / ₂ "	20 ⁷ / ₁₆ "
		600RF	20"	11 ³ / ₁₆ "	34 ¹ / ₂ "	20 ⁷ / ₁₆ "