

HIGH PRESSURE MOTOR VALVES

PISTON BALANCED

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:

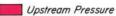
Unless otherwise specified, all HPMV's will be furnished with ductile topworks, steel topworks available for 2". Specify when ordering.

Effective diaphragm area:

2"	HPMV	PΒ	- 65	square	inches
3"	HPMV	PΒ	-100	square	inches
4"	HPMV	PΒ	-100	square	inches
6"	HPMV	PΒ	-120	square	inches
				square	

Motor Valve Diaphragm Assembly





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 - 3/4" nominal
3" HPMV PB - 1 ³ / ₈ " nominal
4" HPMV PB - 13/4" nominal
6" HPMV PB - 2 ¹ / ₂ " nominal
8" HPMV PB - 2 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 8" HPMV PB - 1500 psig

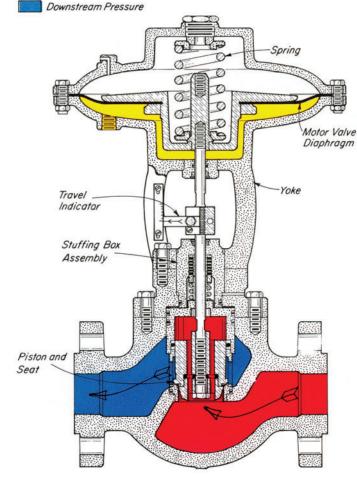
INNER VALVE SIZES:

2" HPMV PB - 11/2" & 2" Equal Percentage

- 3" HPMV PB 2" & 3" Equal Percentage
- 4" HPMV PB 43/8" Equal Percentage
- 6" HPMV PB $6^{3}/4$ " Equal Percentage 8" HPMV PB $8^{1}/2$ " Equal Percentage

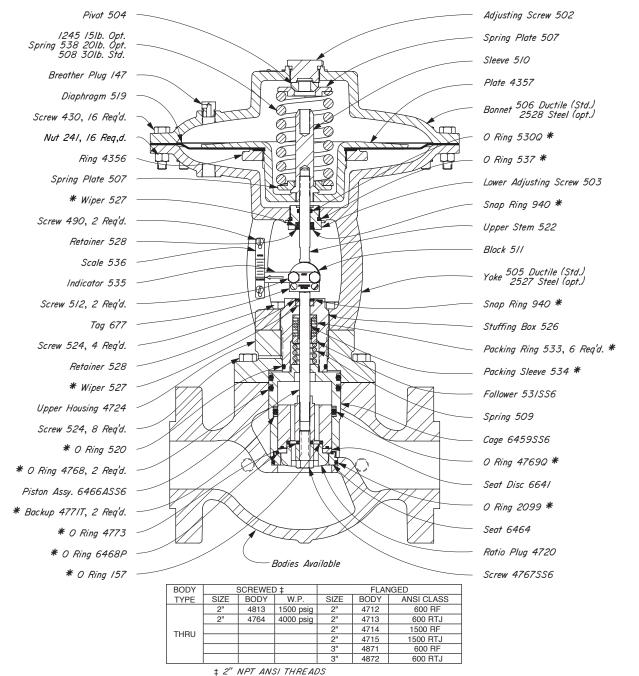
STANDARD TRIM SPECIFICATIONS:

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)





PISTON BALANCED 2" STEEL BODY DUCTILE TOPWORKS



THRU VALVES AVAILABLE:

CAT. NO.	SIZE TYPE	VALVE	MAX W.P.	KIT
EFG	2" SCRD.	2150 SMT PB 2 IV	1500	RUR
EFH	2" SCRD.	2400 SMT PB 2 IV	4000	RUR
EFI	2" FLGD.	2150 FMT PB 600 RF ^a 2 IV	1480	RUR
EFJ	2" FLGD.	2150 FMT PB 600 RTJ ^a 2 IV	1480	RUR
EFK	2" FLGD.	2150 FMT PB 1500 RF ^a 2 IV	3705	RUR
EFL	2" FLGD.	2150 FMT PB 1500 RTJ ^a 2 IV	3705	RUR
EFM	3" FLGD.	3150 FMT PB 600 RTJ ^a 2 IV	1480	RUR
EFO	3" FLGD.	3150 FMT PB 600 RTJ ^a 2 IV	1480	RUR

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

NOTES

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.

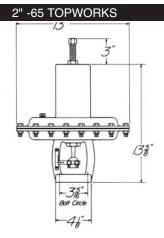
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Dimensions refer to E1:100.3

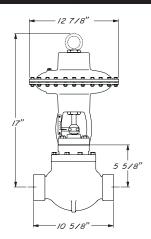
For BOTTOM WORKS only refer to Bulletin No. E105357 For TOP WORKS only refer to Bulletin No. E106025

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

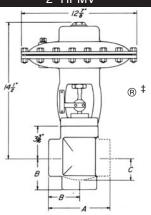
2" HPMV DIMENSIONS



2" HPMV PB



2" HPMV



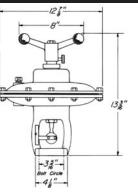
VALVE MODEL	TYPE OF CONNECTION SCREWED				
No.	А	В	С		
2100	6 ⁵ /16"	3 ¹ /4"	2"		
2200	6 ⁹ /16"	3 ³ /8"	2 ¹ /8"		
2400	6 ⁷ /8"	3 ¹ /2"	2 ¹ /4"		

All dimensions are in inches. Flanged body dimensions available on request.

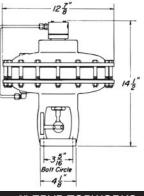
*Configuration of High Pressure Motor Valve ia a trademark of Kimray, Inc. www.kimray.com



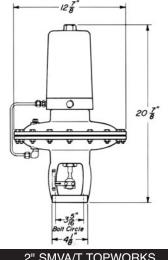
2" MVP TOPWORKS



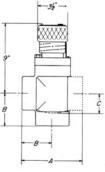
PVP TOPWORKS 2"



2" EPVP TOPWORKS



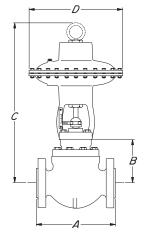
2" SMVA/T TOPWORKS





HIGH PRESSURE MOTOR VALVES

FLANGED BODY DIMENSIONS



	SIZE	BODY STYLE	А	В	С	D
	1"	150RF	7 1/4"	1 15/16"	10 1/2"	9 1/8"
		150RTJ	7 5/8"	1 15/16"	10 1/2"	9 1/8"
		300RF	7 3/4"	1 15/16"	10 1/2"	9 1/8"
		300RTJ	8 1/8"	1 15/16"	10 1/2"	9 1/8"
		600RF	8 1/4"	1 15/16"	10 1/2"	9 1/8"
		600RTJ	8 1/4"	1 15/16"	10 1/2"	9 1/8"
		1500RF	10 3/4"	1 15/16"	10 1/2"	9 1/8"
STANDARD		1500RTJ	10 3/4"	1 15/16"	10 1/2"	9 1/8"
		150RF	10 1/4"	3 3/16"	14 1/2"	12 7/8"
		150RTJ	12 3/8"	3 3/16"	14 1/2"	12 7/8"
		300RF	10 1/2"	3 3/16"	14 1/2"	12 7/8"
	0"	300RTJ	11 1/8"	3 3/16"	14 1/2"	12 7/8"
	2"	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"
	2"	150RF	10 1/4"	5 5/8"	17"	12 7/8"
		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"	150RF	12 5/16"	7 1/4"	27"	15 3/4"
		300RF	12 1/2"	7 1/4"	27"	15 3/4"
PISTON		600RF	13 1/4"	7 1/4"	27"	15 3/4"
BALANCED		600RTJ	13 3/8"	7 1/4"	27"	15 3/4"
	4"	150RF	13 7/8"	11"	30"	15 3/4"
		300RF	14 1/2"	11"	30"	15 3/4"
		600RF	15 1/2"	11"	30"	15 3/4"
	6"	150RF	17 3/4"	11 3/16"	34 1/2"	20 7/16"
		300RF	18 5/8"	11 3/16"	34 1/2"	20 7/16"
		600RF	20"	11 3/16"	34 1/2"	20 7/16"
	8"	600RF	24"	11 9/32"	34 1/2"	20 7/16"