



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

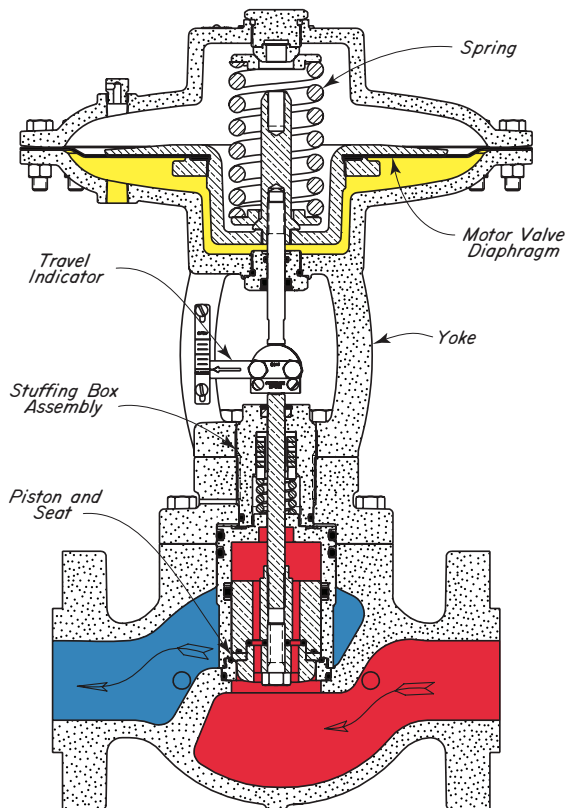
TOPWORKS:

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 PB - 65 square inches
- 3" HPMV PB - 100 square inches
- 4" HPMV PB - 100 square inches
- 6" HPMV PB - 120 square inches
- 8" HPMV PB - 120 square inches
- 10" 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 - 3/4" nominal
- 3" HPMV PB - 1 3/8" nominal
- 4" HPMV PB - 1 3/4" nominal
- 6" HPMV PB - 2 1/2" nominal
- 8" HPMV PB - 2 1/2" nominal
- 10" 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
- 10" HPMV PB - 1500 psig

INNER VALVE SIZES:

- 2" HPMV PB - 1 1/2" & 2" Equal Percentage 57 Cv
- 3" HPMV PB - 2" & 3" Equal Percentage 107 Cv
- 4" HPMV PB - 4 3/8" Equal Percentage 222 Cv
- 6" HPMV PB - 6 3/4" Equal Percentage 450 Cv
- 8" HPMV PB - 8 1/2" Equal Percentage 453-810 Cv
- 10" HPMV PB - 8 1/2" Equal Percentage 655-1091 Cv

STANDARD TRIM SPECIFICATIONS:

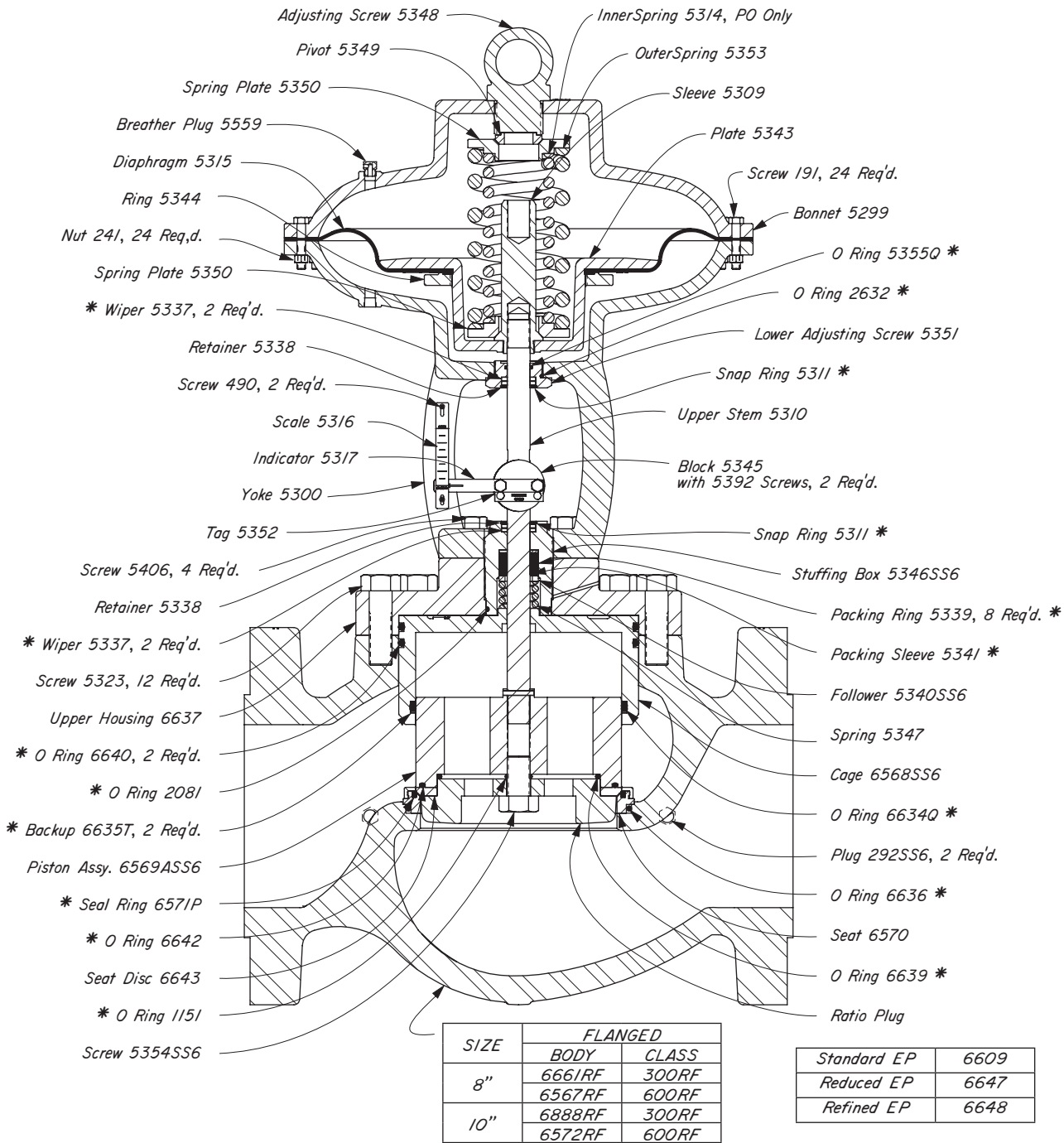
- 316 stainless steel cage
- D-2 tool steel valve plug assembly
- D-2 tool steel seat
- Polyurethane seal with Metal-to-Metal back-up
- (Other material available on request)



HIGH PRESSURE MOTOR VALVES



PISTON BALANCED 8" & 10" STEEL BODY DUCTILE TOPWORKS



THRU VALVES AVAILABLE:

CAT. NO.	SIZE TYPE	VALVE	MAX W.P.	KIT
EIM	8" FLGD.	8150 FMT PB 600 RF* 8 IV	1480	RWF
EIN	8" FLGD.	8150 FMT PB 300 RF* 8 IV	740	RWF
EIT	10" FLGD.	10150 FMT PB 600 RF* 8 IV	1480	RWF
EIX	10" FLGD.	10150 FMT PB 300 RF* 8 IV	740	RWF

NOTES:

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

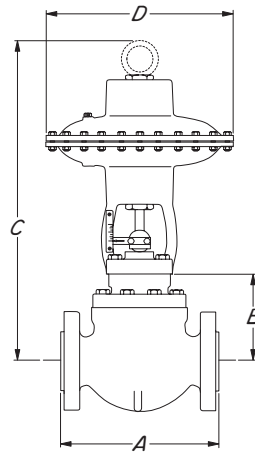
*These are recommended spare parts and are stocked as repair kits. To order repair kit, specify "8" HPMV PB Repair Kit, RWF"

*For working pressure vs. working temperature see ASME B16.34;
For flanges & flanged fittings see ASME B16.5.



HIGH PRESSURE MOTOR VALVES

FLANGED BODY DIMENSIONS



	SIZE	BODY STYLE	A	B	C	D
STANDARD	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"
	2"	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"
		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"
PISTON BALANCED	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"
		600RF	13 1/4"	7 1/4"	27"	15 3/4"
		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"	300RF	22 3/8"	11 5/16"	34 1/2"	20 1/2"
		600RF	24"	11 5/16"	34 1/2"	20 1/2"
	10"	300RF	27 7/8"	11 5/16"	34 1/2"	20 1/2"
600RF		29 9/16"	11 5/16"	34 1/2"	20 1/2"	