

GP SERIES

GP SERIES GPKP REDUCING VALVE

SIZES 1/2" – 4"

PRESSURES to 250 PSIG at 450°F

- Steam Service
- 95% Accuracy of Regulation
- 100:1 Rangeability*
- Packless Construction
- Exclusive Spiroflex® Diaphragm for Smooth Operation
- 3 Year Warranty*
- GPKP Internal Pilot
 - Operates on As Little As 10 PSI Pressure Drop
 - Large Pilot Clearances and Non-Continuous Bleed Minimize Fouling

APPLICATION DATA

- HVAC Systems
- Process Control Systems for Food, Molding, Textile, Pulp, etc.
- Packaged OEM Systems for Heat Exchangers, Metal Cleaning, Vaporizers, etc.

VALVE RATINGS

Valve Ends ASME/ANSI	Pressure PSIG (bar)	Temperature °F (°C)
CAST IRON		
B16.1 Class 250 NPT	250 (17.2)	@ 450 (232)
B16.1 Class 125 Flanged	125 (8.6)	@ 450 (232)
B16.1 Class 250 Flanged	250 (17.2)	@ 450 (232)

SPRING PRESSURE RANGES (PSIG)

GPKP	5-20	15-75	50-150
-------------	------	-------	--------

MODELS

- GPKP-Internal Pilot, Cast Iron, ANSI 250, Steam Svc.

OPTIONS

- SS Trim with Stellite®

*For Sizing Capacity Tables
see Pages 35, 36 & 41*

RATED FLOW COEFFICIENTS (Cv)

		REGULATOR SIZE								
		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
STEAM	Std ¹	3.65	6.08	10.9	15.0	21.3	25.1	35.8	55.8	74.3
	Ext ²	5.67	10.0	15.7	21.9	29.1	29.1	65.7	84.6	103.0

1. 95% accuracy (2 psi min. droop)

2. 90% accuracy (3 1/2 psi min. droop)

GP SERIES GPKP REDUCING VALVE

SPECIFICATIONS

Valve shall be single stage, internal pilot operated with 100:1 rangeability. Valve body shall be cast iron and shall be renewable without removal from line. Seat ring shall be hardened stainless steel with fluorocarbon insert (1½"-2") or stellite (2½"-4"). Diaphragm shall be multiple leaf stainless steel rated for full travel. Valve shall have no stuffing box. Valve shall be warranted for three years.

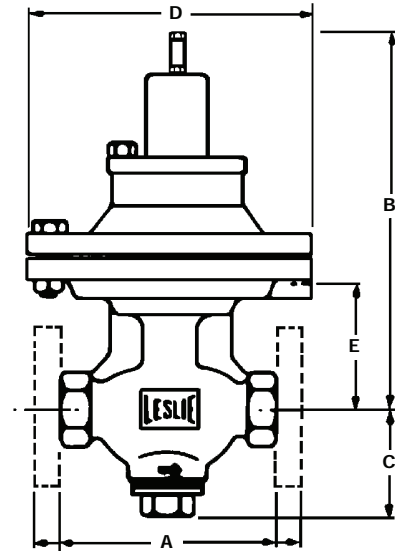
MATERIALS OF CONSTRUCTION

Body, Cast Iron.....ASTM A126 Cl. B
Trim, std. Steam.....

1½"-2" Stainless Steel w/Resilient Insert
Buna-N

Stainless Steel w/Stellite®

Diaphragm, std.Spiroflex®



VALVE DIMENSIONS inches (mm)

Size	125# THD.	A 250# Flange	All Flange	B All Bodies	C All Bodies	D All Bodies	E All Bodies
1/2	6 1/8	—	—	13 5/8	2 1/4	8 5/8	3 5/8
3/4	6 1/2	—	—	13 5/8	2 1/4	8 5/8	3 5/8
1	7 1/4	—	—	13 3/4	2 1/4	8 5/8	4
1 1/4	7 5/8	—	—	14	2 11/16	10 1/4	4
1 1/2	8 1/2	—	10 1/2	14 1/4	—	10 1/4	4 1/4
2	8 1/2	—	10 1/2	14 15/16	3 1/4*	10 1/4	4 3/8
2 1/2	—	10 7/8	11 1/2	15 3/4	5 1/2	16	5 3/8
3	—	11 3/4	12 1/2	16 1/2	6 1/4	16	6 3/16
4	—	13 7/8	14 1/2	17 7/8	7 15/16	16	7 1/2

STANDARD SEAT VALVE WEIGHTS* pounds (kg)

SIZE	CI, Brz BODY*				CS, SS BODY*		
	NPT	125	250	300	NPT/SWE	150	300
1/2 (15)	46 (21)	—	—	52 (18)	50 (23)	—	—
3/4 (20)	47 (21)	—	—	53 (19)	51 (23)	—	—
1 (25)	48 (22)	—	—	55 (20)	52 (24)	60 (27)	60 (27)
1 1/4 (32)	54 (24)	—	—	62 (23)	—	—	—
1 1/2 (40)	78 (35)	—	86 (39)	87 (39)	82 (37)	92 (42)	92 (42)
2 (50)	90 (41)	99 (45)	99 (45)	99 (45)	95 (43)	107 (49)	107 (49)
2 1/2 (65)	—	207 (94)	207 (94)	207 (94)	—	—	—
3 (80)	—	264 (120)	264 (120)	264 (120)	—	279 (127)	279 (127)
4 (100)	—	307 (139)	307 (139)	307 (139)	—	347 (157)	347 (157)

* Add 12 pounds to body weight for Internal or External Pilot Models. All weights are approximate.