Mooney[™] 2" Flowgrid[™] Slam Shut 250

and Shutoff Valve

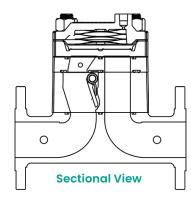
NPT CL 300 | CL 150 RF, CL 300 RF

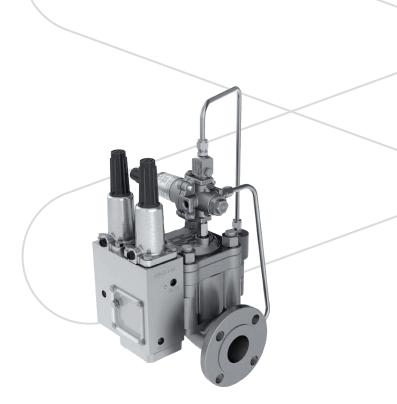
The 2" Mooney Flowgrid Slam Shut 250 is a combination of a regulator and a slam shut. In addition to pressure regulation, this pneumatically actuated device provides automatic downstream pressure protection. By separating the pneumatic controller and mechanical latching mechanism, shut off occurs only when designated set points are reached. The patent pending design prevents disruptive and costly "accidental shutoffs". Positive shutoff is achieved instantly through the snap acting mechanism, and reset can be completed with common tools.

Specifications

Size	2"		
Body Style	Flowgrid 250 with Slam Shut		
End Connections	2" NPT CL 300, 2" CL 150 RF Flange, 2" CL 300		
Temperature	Working -20°F to 150°F (-29°C to 65°C)		
Maximum Differential	250 psig (17 bar)		
Minimum Differential	Refer to graph on page 2		
Cracking Differential	Refer to graph on page 2		
Maximum Inlet Pressure	740 psig (50 bar)		
Outlet Pressure Range	Limited by SSV controller and Series 20 Pilot		
Flow Direction	Uni-Directional		
Body Taps	Four 1/4" - 18 NPT (one inlet, one center port ¹ , one loading and one downstream)		

1. Center port - between flapper valve and regulator.





Flowgrid Regulator with Integral Shutoff Valve, Series 50D Dual Function Controller.

Materials of Construction

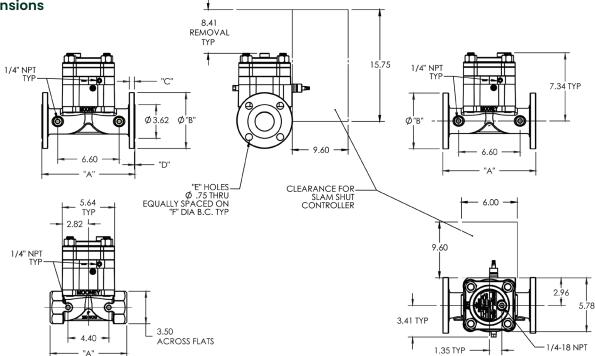
ctile Iron ASTM A 395 TM A 356-T6 Hard Anodized
TM A 356-T6 Hard Anodized
Iminum
TM A 356-T6 Hard Anodized Iminum
- 4PH Stainless Steel or A515 rbon Steel with ENC Coating
rile/Nylon™
rile
TM A 193 GR B-7 TM A 194 GR 2H or Equal
Stainless Steel TM A 313-03 17-17 SS
etal
c Plated Carbon Steel

Stock Numbers

2" Flowgrid 250 & Shutoff Valve	Stock Number	Weight
NPT CL 300	SG-82	55 lbs.
150# Flange	SG-83	65 lbs.
300# Flange	SG-84	65 lbs.



Dimensions



Flange Dimensions

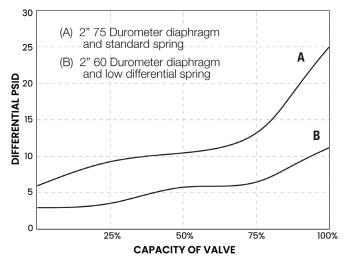
Flange Class	А	В	с	D	E	F
Class 150	10.00	6.00	.62	.06	4	4.75
Class 300	10.00	6.00	.56	-	4	4.75
NPT/SWE	8.25	-	-	-	-	-

Flow Coefficients and Constants¹

2" Flowgrid 250 & Shutoff Valve			Swage Factor		
% Capacity	C _v	C,	C _g	1.5:1	2:1
100%	40	40	1600	0.97	0.98
75%	32	38	1230	0.98	0.97
50%	23	35	820	0.99	0.98
35%	16	35	560	1.00	1.00

1. Preliminary Data

Diaphragm Selection



Compound	Temp. Range (°F)	Maximum Differential	Characteristics	Recommended Applications
75 Duro	-20 to 150	1000 psid	Best All Around Material	60 psid to Max. Differential
60 Duro	-25 to 150	300 psid	Best Shutoff at Low Differential Pressure	Low Differential (100 psid or less) or Low Temperature



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