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

and Shutoff Valve

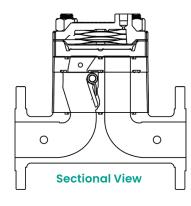
NPT CL 300 | CL 150 RF, CL 300 RF

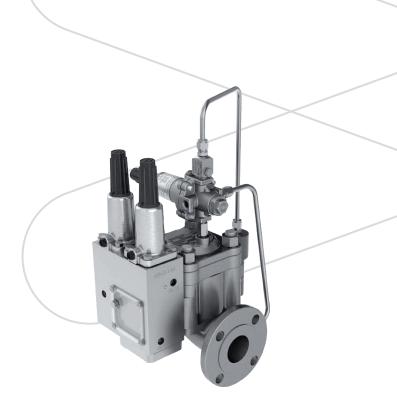
The 2" Mooney Flowgrid Slam Shut 250 is a combination of a regulator and a slam shut. In addition to pressure regulation, this pneumatically actuated device provides automatic downstream pressure protection. By separating the pneumatic controller and mechanical latching mechanism, shut off occurs only 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

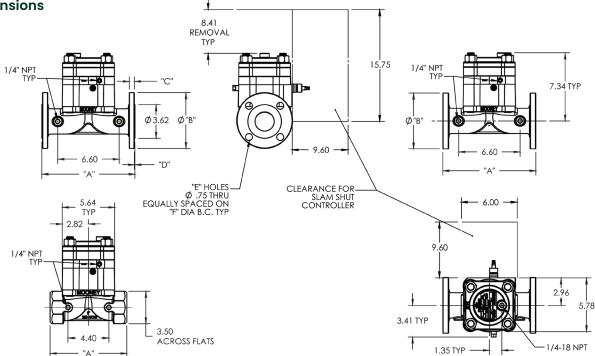
| ctile Iron ASTM A 395 TM A 356-T6 Hard Anodized |
|--|
| TM A 356-T6 Hard Anodized |
| Iminum |
| TM A 356-T6 Hard Anodized Iminum |
| - 4PH Stainless Steel or A515 rbon Steel with ENC Coating |
| rile/Nylon™ |
| rile |
| TM A 193 GR B-7 TM A 194 GR 2H or Equal |
| Stainless Steel TM A 313-03 17-17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

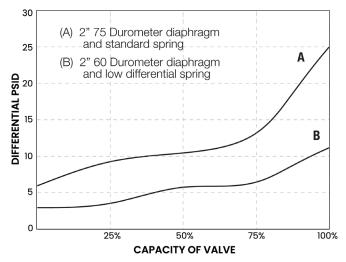
| Flange Class | А | В | с | D | E | F |
|--------------|-------|------|-----|-----|---|------|
| Class 150 | 10.00 | 6.00 | .62 | .06 | 4 | 4.75 |
| Class 300 | 10.00 | 6.00 | .56 | - | 4 | 4.75 |
| NPT/SWE | 8.25 | - | - | - | - | - |

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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