



PRESSURE RELIEF VALVE

DUCTILE IRON HYDRAULICALLY OPERATED, PILOT CONTROLLED, PN16

Model Number: **MV80-311**

FEATURES / CHARACTERISTICS

| | |
|-------------------|---|
| Working Pressure | PN16 |
| Connection | Flanged to BS EN1092-2, PN16 (ex BS4504) |
| Working Medium | Water |
| Face to Face | EN558-1 |
| Test Standard | ISO 5208/EN12266-1 |
| Set Pressure (SP) | $\leq 13.3\text{bar}$ |
| Blowdown | $\leq 1\text{ bar (SP}<3\text{bar)}$ $\leq 0.8 \times \text{SP (SP} \geq 3\text{bar)}$ |

Full port design, low pressure lost when fully opened,
Highly sensitive and reinforced diaphragm,
Stable performance, long service life
Simple operation, convenient adjusting,
Precise pressure reducing

ON REQUEST

ANSI standards (subject to minimum order quantities).

HYDROSTATIC TEST PRESSURE

Shell- 25 bar
Seat- 17.6 bar

WORKING TEMPERATURE

16 Bar 0° C to 80° C water



MATERIAL SPECIFICATIONS

| | PARTS | MATERIAL |
|----|-----------------------|------------------------|
| 1 | Body | Ductile Iron |
| 2 | Seat | Stainless Steel |
| 3 | O-Ring | NBR/EPDM |
| 4 | Bonnet | Ductile Iron |
| 5 | Guide Bush | Bronze |
| 6 | Spring | Stainless Steel |
| 7 | Stem Nut | Steel |
| 8 | Diaphragm Washer | Ductile Iron |
| 9 | Diaphragm | EPDM/NBR+Nylon Fabric |
| 10 | Disc Retainer | Ductile Iron |
| 11 | Seal Ring | EPDM |
| 12 | Disc Guide | Stainless steel |
| 13 | Stem | Stainless steel |
| 14 | Restriction | Stainless steel |
| 15 | Needle Valve | Bronze/Stainless Steel |
| 16 | Pressure Relief Pilot | Stainless steel |
| 17 | Ball Valve | Bronze/Stainless Steel |
| 18 | Strainer | Stainless steel |
| 19 | Tube | Bronze/Stainles Steel |



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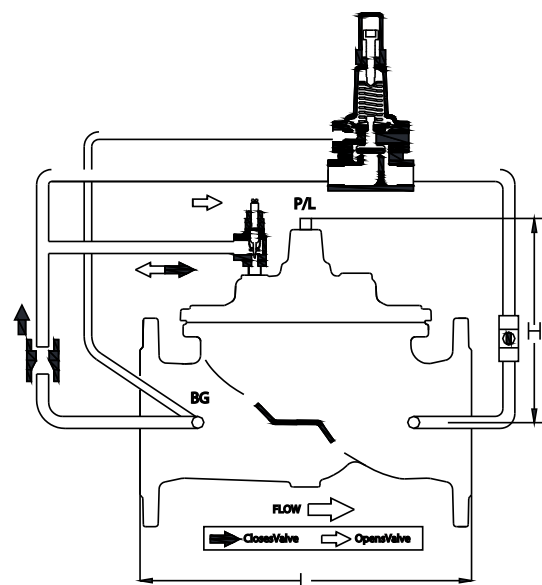
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DIMENSIONS (mm)

| Sizes | | L | H |
|-------|------|------|-----|
| DN | inch | | |
| 50 | 2" | 230 | 139 |
| 65 | 2 ½" | 290 | 159 |
| 80 | 3" | 310 | 179 |
| 100 | 4" | 350 | 214 |
| 125 | 5" | 400 | 275 |
| 150 | 6" | 480 | 333 |
| 200 | 8" | 600 | 407 |
| 250 | 10" | 730 | 476 |
| 300 | 12" | 850 | 526 |
| 350 | 14" | 980 | 580 |
| 400 | 16" | 1100 | 624 |
| 450 | 18" | 1200 | 624 |
| 500 | 20" | 1250 | 720 |
| 600 | 24" | 1450 | 835 |

*Note: Dimensions above are just for reference and subject to the final products. Changes are made without prior notice, please confirm with us if needed.



Flow Chart of Fully opened Main Valve

