

Description

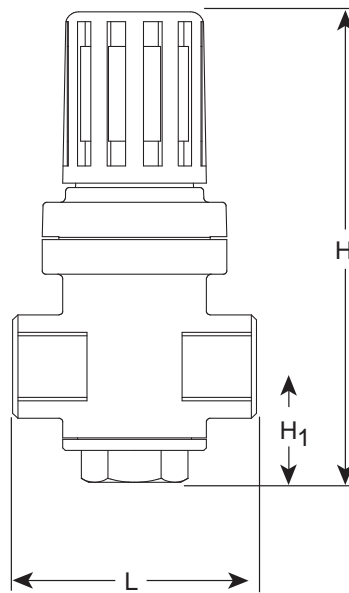
1. A simple compact design, rugged construction.
2. Built-in filter.
3. Can be balanced bellows safety valve on the pressure balance of the primary.
4. The downstream pressure sensing hole to make more stable valve action and self-cleaning.
5. All stainless steel internal structure.

Selection of possible applications

Economical to buy and use, it's ideal for those low to moderate flow applications where accuracy of +/-10% is acceptable. The DRV is well suited for laundry and dry cleaning equipment, hospital equipment, tire molds, humidifiers small heaters and applications in food processing. It provides tight shutoff for dead-end service on steam. Turndown ratio is 10:1 and ANSI Class IV Shutoff.

Selection of possible flow media

Steam, gases, hot water (other flow media on request)

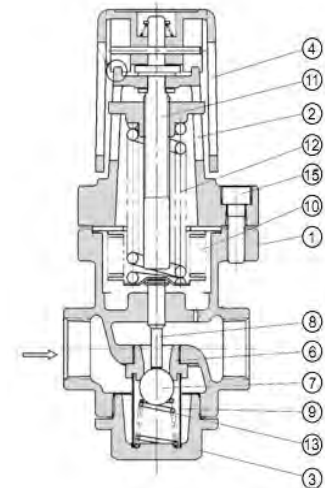


Dimensions/weights

| Symbol | Connection Size | | | | | | | | | |
|----------------|-----------------|-----|-------------|-----|-------------|-----|--------------|-----|---------|-----|
| | in | mm | in | mm | in | mm | in | mm | in | mm |
| | 1/2 | 15 | 3/4 | 20 | 1 | 25 | 1-1/2* | 40 | 2* | 50 |
| L | 3-1/8 | 80 | 3-3/8 | 85 | 3-3/4 | 95 | 5-1/2 | 140 | 5-7/8 | 150 |
| H ₁ | 2 | 47 | 2 | 47 | 2 | 47 | 3 | 77 | 3 | 77 |
| H | 7-1/2 | 191 | 7-1/2 | 191 | 7-1/2 | 191 | 12-1/8 | 307 | 2-1/8 | 307 |
| Weight lb (kg) | 4-1/4 (1.9) | | 4-1/4 (1.9) | | 4-1/2 (2.0) | | 21-3/8 (9.7) | | 22 (10) | |
| C _v | 1.3 | | 1.5 | | 2.5 | | 5.6 | | 8.5 | |

Parts

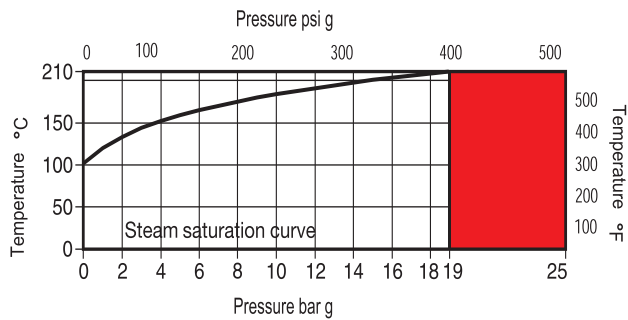
| NO. | Part name | NO. | Part name |
|-----|----------------|-----|-------------------|
| 1 | Body | 9 | Screen |
| 2 | Spring housing | 10 | Bellow |
| 3 | Cover | 11 | Regulating Screw |
| 4 | Handle | 12 | Regulating Spring |
| 6 | Seat | 13 | Sping |
| 7 | Valve | 15 | Bolt |
| 8 | Valve rot | | |



Specifications

| | | | |
|------------------------|----------------|-------------------------------|----------------|
| Application | Steam Air | | |
| Connection | Thread | | |
| Inlet pressure | ≤0.7Mpa | | |
| Reduced pressure range | Type | Spring color | Pressure range |
| | A Spring | Yellow | 0.02-0.1Mpa |
| | B Spring | Blue | 0.05-0.4Mpa |
| | C Spring | Green | 0.35-1.0Mpa |
| Min differential | 0.05Mpa | | |
| Max p ratio | 10:1 | | |
| Max Temp. | ≤1 | | |
| Seat leakage rate | 210 | | |
| | Body | Ductile iron /Stainless steel | |
| | Cover | Ductile iron/Stainless steel | |
| | Bellows | 316L | |
| | Spring housing | Aluminum | |
| | Seat | Stainless Steel | |
| | Valve | Stainless steel | |

Temperature and Pressure limits



Capacities-steam

| Kg/hr | | | | | | | Kg/hr | | | | | | |
|-------|--------|-----------------|-----|-----|-----|-----|-------|--------|-----------------|-----|-----|------|------|
| Inlet | Outlet | Connection size | | | | | Inlet | Outlet | Connection size | | | | |
| | | mm | | | | | | | mm | | | | |
| | | 15 | 20 | 25 | 40 | 50 | | | 15 | 20 | 25 | 40 | 50 |
| | | 1.3 | 1.5 | 2.5 | 5.6 | 8.5 | | | 1.3 | 1.5 | 2.5 | 5.6 | 8.5 |
| 1.0 | 0.5 | 22 | 25 | 42 | 90 | 135 | 1.0 | 0.5 | 22 | 25 | 42 | 90 | 135 |
| 1.4 | 0.9 | 24 | 28 | 48 | 98 | 150 | 10.3 | 8.3 | 130 | 151 | 250 | 550 | 845 |
| | 0.5 | 19 | 25 | 35 | 82 | 120 | | 5.9 | 165 | 191 | 320 | 695 | 1075 |
| 2.0 | 1.6 | 28 | 32 | 51 | 110 | 185 | | 3.8 | 135 | 160 | 270 | 580 | 910 |
| | 1.0 | 24 | 27 | 46 | 95 | 140 | | 1.0 | 60 | 75 | 115 | 255 | 385 |
| 2.8 | 0.2 | 15 | 18 | 27 | 63 | 98 | 12.4 | 9.7 | 185 | 220 | 360 | 780 | 1215 |
| | 2.2 | 45 | 55 | 85 | 185 | 280 | | 8.0 | 195 | 230 | 390 | 830 | 1285 |
| 3.4 | 1.4 | 36 | 44 | 72 | 150 | 235 | 13.8 | 4.8 | 175 | 195 | 335 | 735 | 1135 |
| | 0.3 | 18 | 25 | 35 | 72 | 120 | | 1.2 | 75 | 85 | 140 | 310 | 470 |
| 4.0 | 2.8 | 59 | 65 | 110 | 245 | 380 | 15.5 | 9.7 | 209 | 209 | 395 | 900 | 1390 |
| | 1.4 | 45 | 52 | 85 | 185 | 285 | | 8.0 | 215 | 215 | 410 | 910 | 1400 |
| 5.5 | 0.3 | 22 | 28 | 40 | 88 | 135 | 17.2 | 4.8 | 195 | 195 | 375 | 825 | 1275 |
| | 2.8 | 62 | 70 | 120 | 265 | 408 | | 1.2 | 95 | 95 | 175 | 385 | 590 |
| 6.9 | 1.2 | 41 | 47 | 77 | 170 | 265 | 18.9 | 9.7 | 220 | 260 | 430 | 935 | 1450 |
| | 0.4 | 25 | 33 | 45 | 100 | 150 | | 8.0 | 225 | 265 | 436 | 940 | 1455 |
| 8.3 | 4.4 | 80 | 93 | 155 | 335 | 530 | 20.0 | 5.9 | 210 | 245 | 410 | 900 | 1390 |
| | 3.7 | 85 | 102 | 160 | 355 | 545 | | 1.6 | 115 | 135 | 225 | 490 | 760 |
| 8.3 | 1.6 | 55 | 62 | 100 | 222 | 340 | 17.2 | 1450 | 238 | 275 | 460 | 1010 | 1560 |
| | 0.5 | 27 | 35 | 49 | 105 | 165 | | 1455 | 250 | 265 | 471 | 1020 | 1575 |
| 8.3 | 5.5 | 92 | 110 | 180 | 392 | 615 | 18.9 | 1390 | 210 | 240 | 405 | 880 | 1360 |
| | 4.5 | 102 | 119 | 198 | 435 | 665 | | 760 | 115 | 145 | 240 | 520 | 815 |
| 8.3 | 2.8 | 90 | 105 | 170 | 380 | 580 | 20.0 | 9.7 | 240 | 278 | 464 | | |
| | 0.7 | 37 | 36 | 60 | 135 | 215 | | 8.3 | 240 | 278 | 464 | | |
| 8.3 | 5.5 | 105 | 125 | 205 | 450 | 690 | 20.0 | 4.8 | 213 | 246 | 409 | | |
| | 4.5 | 125 | 141 | 235 | 530 | 825 | | 1.9 | 134 | 156 | 255 | | |
| 8.3 | 2.8 | 109 | 121 | 204 | 445 | 685 | 20.0 | 9.7 | 240 | 278 | 464 | | |
| | 0.7 | 50 | 55 | 90 | 210 | 320 | | 6.9 | 240 | 278 | 464 | | |
| 8.3 | 5.5 | 105 | 125 | 205 | 450 | 690 | 20.0 | 4.8 | 217 | 250 | 420 | | |
| | 4.5 | 125 | 141 | 235 | 530 | 825 | | 2.7 | 240 | 163 | 270 | | |