



PRESSURE REDUCING VALVES WITH PISTON PN 25 NICKEL-PLATED WITH COMPENSATION CHAMBER AND STAINLESS STEEL SEAT

CONNECTIONS: FEMALE-FEMALE



DESCRIPTION

The piston-type pressure reducing valve **PN 25** is an automatic valve that reduces and stabilizes the pressure of a fluid in a water distribution conduit according to a preset value. The use of this hydraulic device is necessary if the maximum possible pressure at any point in the water distribution system can reach or exceed the relative maximum allowable working pressure, or if the installation is equipped with devices that can be operated exclusively at pressure levels lower than the one available in the system. The piston-type pressure reducing valve is designed for use in either internal or external water distribution systems, where the water main pressure values do not surpass 25 bar. The structure and material of the internal piston guarantee rigidity, strength and an enhanced regulation precision thanks to the compensated seat. The o-rings, in antistick-slip perox EPDM elastomer with a low coefficient of friction, are durable and require only limited maintenance interventions. The internal finish of the body and the broader dimensions of the passage allow high performances even with a minimal water draw. The piston-type pressure reducing valve **PN 25** is used in air conditioning plants, sanitary installations for water supply, irrigation systems, compressed air (not oil mist) distribution systems, fire suppression piping (it should be borne in mind that local government standards for fire protection must always be observed), and sanitary installations for water supply in buildings (according to EN 806-2 and EN 805). This product adheres to the standards set forth by the European health authorities for the transport of alimentary fluids and potable water.

ATTENTION: THE PRESSURE GAUGE CONNECTABLE TO THE PRESSURE REDUCING VALVE INDICATES THE ALREADY-REDUCED PRESSURE (Ps).

TECHNICAL FEATURES

| | |
|--|---|
| Pressure: | |
| maximum allowable working pressure (PN) | 25 bar |
| outlet settings (Ps) | from 1 to 5,5 bar |
| Ps value set during testing | 3 bar |
| outlet Ps set tolerance on varying inlet pressure | ± 10 % |
| Temperature: | |
| working temperature (TS) | 0°C (excluding ice) ÷ 130°C |
| Compatible fluids: | |
| water | |
| glycolate solutions | glycol 50% |
| compressed air | no oil mist |
| Threading: | |
| pipeline connection | threads according to ISO 228/1 |
| gauge connection | threads according to EN 10226 - Rp1/4" (ex ISO 7/1) |
| Tests: | |
| Kitemark license n° KM 618292 in compliance with the limits defined by EN 1567 | |

DESIGN

| | |
|---|--|
| Body dimensions 1/2" ÷ 2" | forged brass EN 12165 - CW617N |
| Body dimensions 2"1/2 ÷ 4" | cast brass EN 1982 - CC753S |
| Bonnets | forged brass EN 12165 - CW617N |
| Piston 1/2" ÷ 2"1/2 and light models | PA66 - GF50 polyamide (Nylon 66) reinforced with glass |
| Piston 3" - 4" | fiber forged brass EN12165 - CW617N |
| Other forged components | brass EN 12165 - CW617N |
| Other turned components | brass EN 12164 - CW614N |
| Seat gaskets | perox EPDM rubber |
| Dynamic o-ring washers | perox EPDM rubber |
| Static o-ring washers and sealing gaskets | perox EPDM rubber, NBR and asbestost free fiber |
| Calibration spring | SM galvanized steel EN 10270 - 1 |
| Nickel plating | electrodeposited coating EN 12540 - Cu/Ni5s |
| Insert seat | stainless steel EN10088 - 1.4305 (AISI 303) |

PRODUCT CODES

| | | | | | |
|----------|-------|-------------------------------|----------|-------|-------------------------------|
| 0233.115 | 1/2" | f/f nickel plated | 0233.150 | 2" | f/f nickel plated |
| 0233.120 | 3/4" | f/f nickel plated | 0233.166 | 2"1/2 | f/f nickel plated |
| 0233.125 | 1" | f/f nickel plated | 0233.178 | 3" | f/f nickel plated light model |
| 0233.133 | 1"1/4 | f/f nickel plated | 0233.179 | 3" | f/f nickel plated |
| 0233.140 | 1"1/2 | f/f nickel plated light model | 0233.180 | 3" | f/f yellow |
| 0233.142 | 1"1/2 | f/f nickel plated | 0233.199 | 4" | f/f nickel plated |
| 0233.148 | 2" | f/f nickel plated light model | 0233.200 | 4" | f/f yellow |

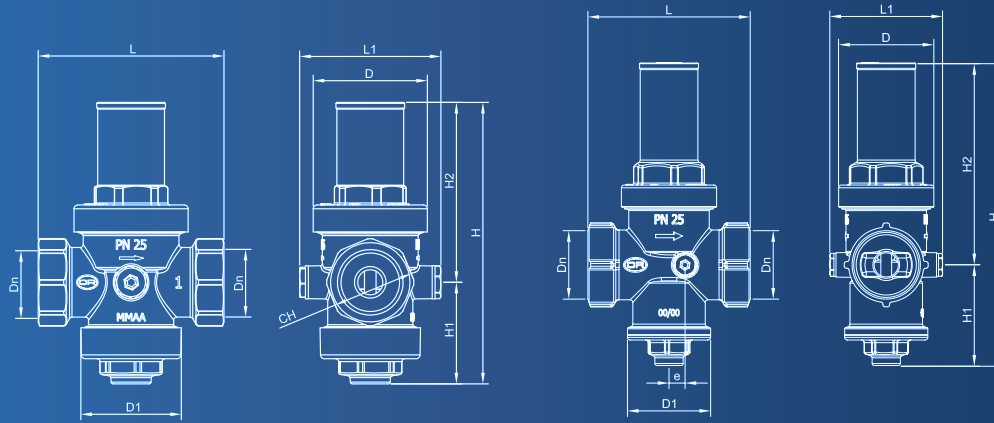


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0233.1 • 1/2" ÷ 4"

PRESSURE REDUCING VALVES WITH PISTON PN 25 NICKEL-PLATED WITH COMPENSATION CHAMBER AND STAINLESS STEEL SEAT

CONNECTIONS: FEMALE-FEMALE



1/2" ÷ 1"1/4

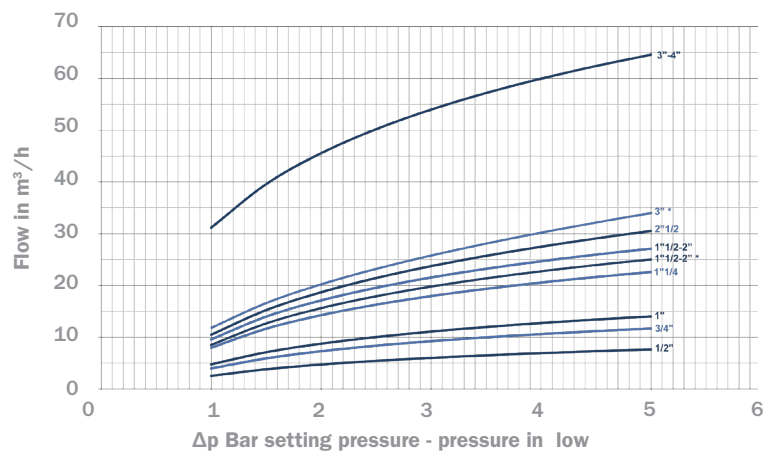
1"1/2 ÷ 4"

FEATURES

| Dn | D | D1 | L | L1 | H | H1 | H2 | e | CH | Kitemark |
|---------|------|-----|-----|-----|-------|------|-------|----|----------|----------|
| 1/2" | Ø48 | Ø44 | 69 | 63 | 114 | 42 | 72 | \ | es. 26 | ☐ |
| 3/4" | Ø48 | Ø44 | 82 | 63 | 114 | 42 | 72 | \ | es. 31 | ☐ |
| 1" | Ø59 | Ø52 | 96 | 73 | 145,5 | 52,5 | 93 | \ | ot. 42.5 | ☐ |
| 1"1/4 | Ø59 | Ø52 | 100 | 73 | 151,5 | 56,5 | 95 | \ | ot. 52.5 | |
| * 1"1/2 | Ø59 | Ø48 | 91 | 77 | 148 | 48 | 100 | 8 | ot. 56 | |
| 1"1/2 | Ø71 | Ø62 | 121 | 84 | 218 | 67,5 | 150,5 | 12 | ot. 59 | |
| * 2" | Ø59 | Ø48 | 97 | 81 | 150 | 48 | 102 | 8 | ot. 68 | |
| 2" | Ø71 | Ø62 | 121 | 84 | 218 | 67,5 | 150,5 | 12 | ot. 70.5 | |
| 2"1/2 | Ø71 | Ø62 | 131 | 94 | 230 | 75,5 | 154,5 | \ | \ | |
| * 3" | Ø71 | Ø62 | 133 | 84 | 224,5 | 71,5 | 153 | \ | \ | |
| 3" | Ø110 | Ø85 | 197 | 127 | 312 | 91,5 | 220,5 | \ | \ | |
| 4" | Ø110 | Ø85 | 197 | 127 | 312 | 91,5 | 220,5 | \ | \ | |

* LIGHT MODEL

PRESSURE REDUCING VALVE ART.0233 1/2"÷4"



* Light model