



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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