



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

CONNECTIONS:

FEMALE-FEMALE



### HYDRAULIC FEATURES

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 connectable to apparatus and equipment that function exclusively at lower levels of pressure. 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 thermoplastic material of the internal piston structure guarantees 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 an elevated flow 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 CONNECTED TO THE PRESSURE REDUCING VALVE INDICATES THE ALREADY-REDUCED PRESSURE (Ps) OF THE OUTLET LIQUID FLOW.**

### 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:

maximum working temperature (TS)	0°C (excluding ice) 130°C
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#### Compatible fluids:

water	
glycolate solutions	glycol 50%
compressed air	

#### Threading:

Pipeline connection: Threads according to	ISO 228/1
Gauge connection: Threads according to	EN 10226- Rp1/4" (ex ISO 7/1)
Tests according to	EN 1567
Verification of the deviation from the pre-set pressure (Ps) according to	EN 1567 § 8.3.2
Verification of the setpoint range according to	EN 1567 § 8.3.1
Flow rate and outlet pressure according to	EN 1567 § 8.3.4
Acoustic group	II - Lmax (dBA) < 30

### DESIGN

Brass body EN 12165 - CW617N in 1/2" to 2" sizes

Die cast brass body EN1982-CT753S in 2"1/2 to 4" sizes

Brass bonnets EN 12165 - CW617N

Piston in PA66-GF30 POLYAMIDE (Nylon 66) reinforced with glass fiber in 1/2" to 2"1/2 sizes

Other forged components in brass EN 12165 - CW617N Brass Piston EN12165 - CW617N in 3" to 4" sizes

Other components in turned brass EN 12164 - CW614N

Static O-ring washers and seat gaskets in EPDM RUBBER (peroxide-cured)

Dynamic O-ring washers in EPDM RUBBER (peroxide-cured)

SM GALVANIZED STEEL calibration spring - EN 10270-1

Nickel plating ELECTRODEPOSITED COATING EN 12540 (Cu/Ni5s)

STAINLESS STEEL insert seat EN 10088-1.4305 (AISI 303)

### PRODUCT CODES

0233.115	f/f nickel plated	1/2"	0233.166	f/f nickel plated	2"1/2
0233.120	f/f nickel plated	3/4"	0233.179	f/f yellow	3"
0233.125	f/f nickel plated	1"	0233.180	f/f nickel plated	3"
0233.133	f/f nickel plated	1"1/4	0233.190	f/f yellow	4"
0233.142	f/f nickel plated	1"1/2	0233.200	f/f nickel plated	4"
0233.150	f/f nickel plated	2"			

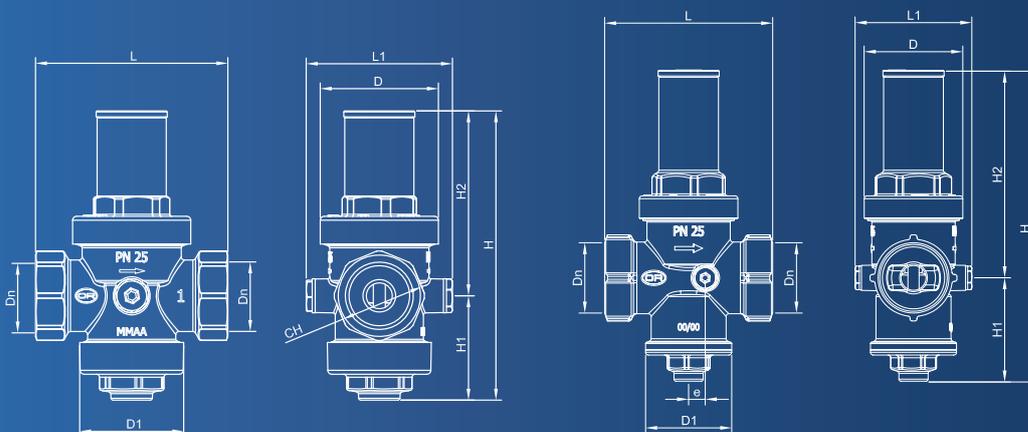
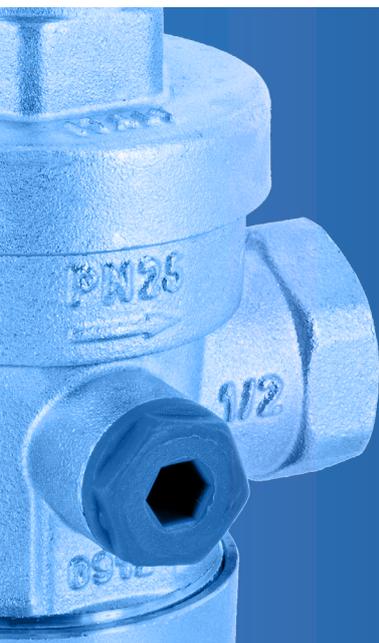


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# 0233.1 • 1/2" - 4"

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CONNECTIONS: FEMALE-FEMALE



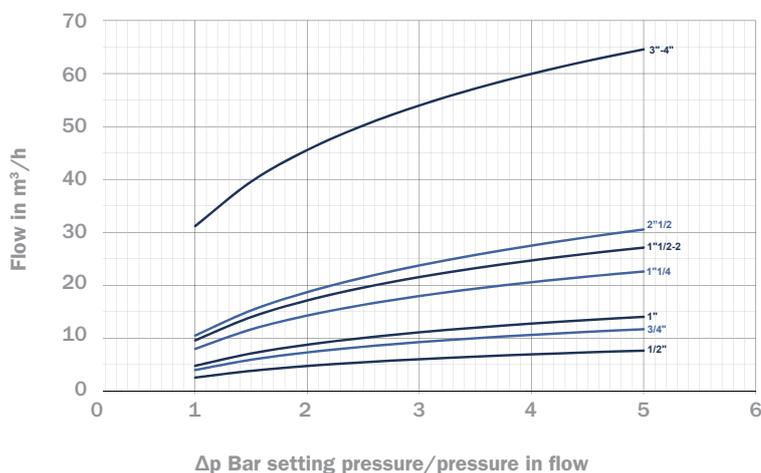
1/2" - 1"1/4

1"1/2 - 4"

## FEATURES

Dn	D	D1	L	L1	H	H1	H2	e	CH
1/2"	Ø48	Ø44	69	73	114	42	72	\	es. 26
3/4"	Ø48	Ø44	82	73	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	Ø71	Ø62	121	84	225,5	75	150,5	12	ot. 59
2"	Ø71	Ø62	121	84	225,5	75	150,5	12	ot 70.5
2"1/2	Ø71	Ø62	131	94	230	75,5	154,5	\	\
3"	Ø127	Ø85	197	127	312	91.5	220,5	\	\
4"	Ø127	Ø85	197	127	312	91.5	220,5	\	\

## PRESSURE REDUCING VALVE ART.0233 1/2" - 4"



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