



PRESSURE REDUCING VALVE WITH DIAPHRAGM PN 25
WITH COMPENSATION CHAMBER AND STAINLESS STEEL SEAT
CONNECTIONS: FEMALE-FEMALE



HYDRAULIC FEATURES

The Rio Export model 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 apparatus and equipment that function exclusively at lower levels of pressure are connectable. The enhanced mechanical strength of the shell and its internal components renders this valve particularly suitable for sanitary installations for water distribution outside buildings (EN 805), where the water pressure in the water mains may reach values as high as 40 bar. Further, the compensated seat offsets the influence that variations in upstream pressure may have on the downstream pressure. The flexible diaphragm in EPDM rubber is reinforced with high mechanical strength polyamide textile and in conjunction with the antistick-slip O-ring made of Perox EPDM rubber, they allow a precise and long-lasting pressure regulation. The internal finish of the valve's body and the absence of moving parts guarantee an elevated flow capacity, even when the water draw is minimal. The Rio Export 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, sanitary installations for water supply within buildings, according to EN 806-2; and for fire suppression piping. (It should nevertheless be borne in mind that local government standards for fire protection must always be observed). 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
Regulation range (Ps)	from 1 to 7 bar
Ps value set during testing	3 bar
Outlet Ps set tolerance on varying inlet pressure	± 5 %
Temperature:	
maximum working temperature (TS)	0°C (excluding ice) 80°C
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 dimensions 1/2"-1" EN12165-CW617N
Cast brass body dimensions 1"1/4-2" EN1982-CB753S
Brass bonnets EN 12165 - CW617N
Other forged components in brass EN 12165 - CW617N
Other components in turned brass EN 12164 - CW614N
EPDM rubber diaphragm, nylon reinforced to 70 Sh
Seat gaskets in NBR RUBBER
Static and dynamic O-ring washers in EPDM RUBBER (peroxide-cured)
SM GALVANIZED STEEL calibration spring - EN 10270-1
STAINLESS STEEL insert seat EN 10088-1.4305 (AISI 303)

PRODUCT CODES

0224.015	female/female	1/2"	0224.033	female/female	1"1/4
0224.020	female/female	3/4"	0224.042	female/female	1"1/2
0224.025	female/female	1"	0224.050	female/female	2"

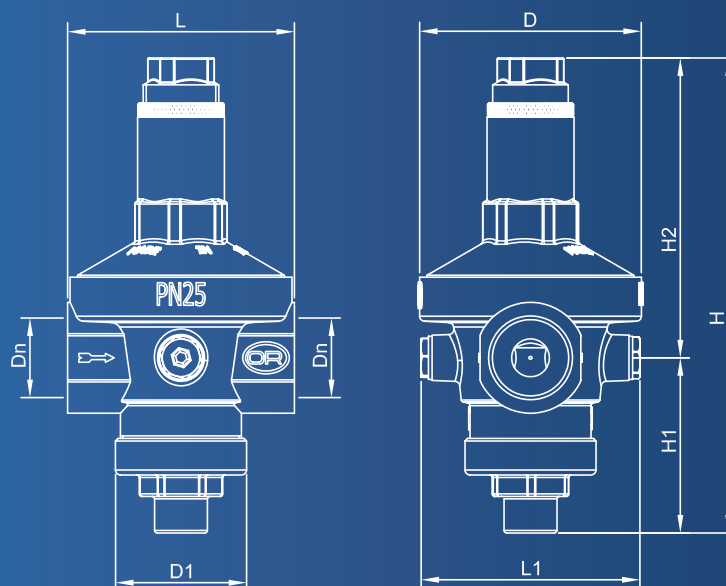


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0224 • 1/2" - 2"

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FEATURES

Dn	D	D1	L	L1	H	H1	H2
1/2"	Ø59	Ø40,5	67,5	74	127,5	52,5	75
3/4"	Ø72	Ø44	77	73	157	65,5	85,5
1"	Ø88	Ø52	90	87	188,5	69,5	119
1"1/4	Ø100	Ø65	106	99	201,5	76,5	125
1"1/2	Ø123	Ø72	137	104	235	81	154
2"	Ø153	Ø80	170	117	266	87	179

PRESSURE REDUCING VALVE 0224 1/2" - 2"

