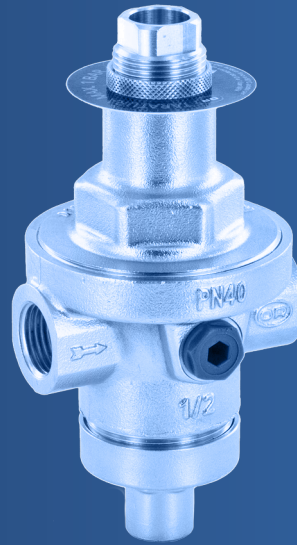




PRESSURE REDUCING VALVES WITH DIAPHRAGM LOW PRESSURE PN10
WITH COMPENSATION CHAMBER AND STAINLESS STEEL SEAT
CONNECTIONS: FEMALE-FEMALE



HYDRAULIC FEATURES

The pressure reducing valve with diaphragm and with compensation chamber (PN 10) 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. This type of reducer is used when the preset outlet pressure needs to be highly accurate, such as in the case of systems that work at pressures less than or equal to 1 bar.

The enhanced mechanical strength of the shell (which can support pressures up to 40 Bar) and its internal components renders this valve particularly suitable for sanitary installations for water distribution outside buildings (EN 805), where the water main pressure may reach values as high as 10 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 diaphragm-type pressure reducing valve with compensation chamber (PN 10) 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)	10 bar
Outlet settings (Ps)	from 0 to 1 bar
PS value set during testing	0.5 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	I - Lmax (dBA) < 20

DESIGN

Brass Body EN 12165 - CW617N
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 10088-14310 (AISI 303)

PRODUCT CODES

0204.014 female/female 1/2" 0204.019 female/female 3/4"

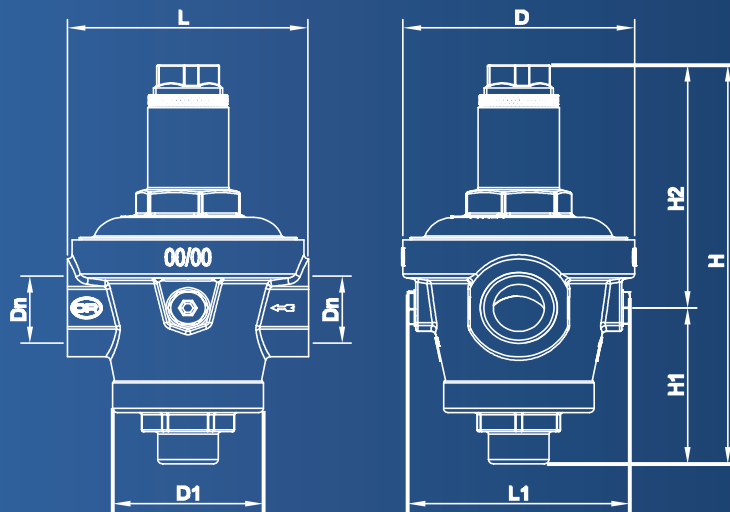


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0204 • 1/2" - 3/4"

PRESSURE REDUCING VALVES WITH DIAPHRAGM LOW PRESSURE PN10
WITH COMPENSATION CHAMBER AND STAINLESS STEEL SEAT

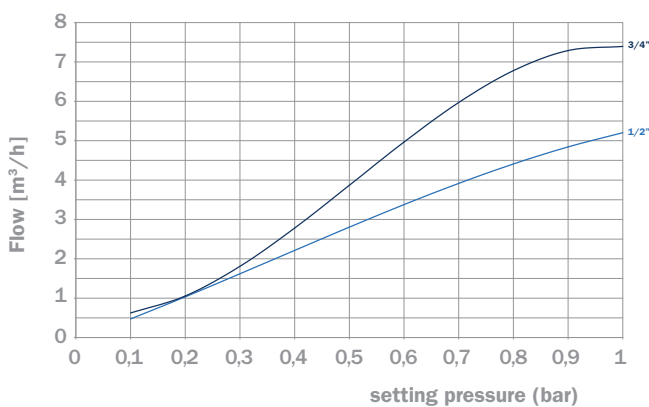
CONNECTIONS: FEMALE-FEMALE



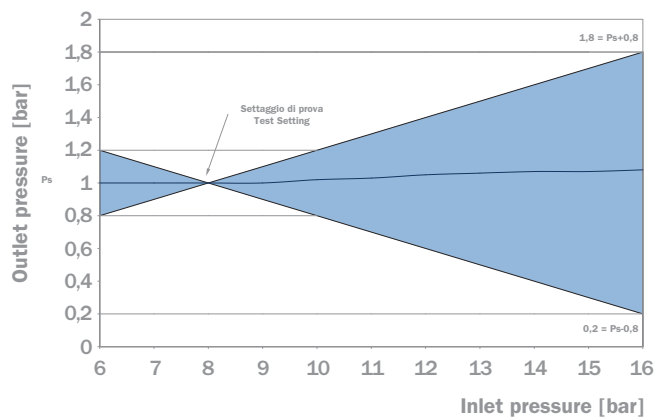
FEATURES

Dn	D	D1	L	L1	H	H1	H2
1/2"	Ø72,5	Ø44	76	67	152,5	65	87,5
3/4"	Ø89	Ø52	91	85	191,5	70,5	121

PRESSURE REDUCING VALVE 0204.014-019 1/2" - 3/4



OUTLET PS SET TOLERANCE ON VARYING INLET PRESSURE



Tolerance
 Pressure reducing valve "Low pressure"