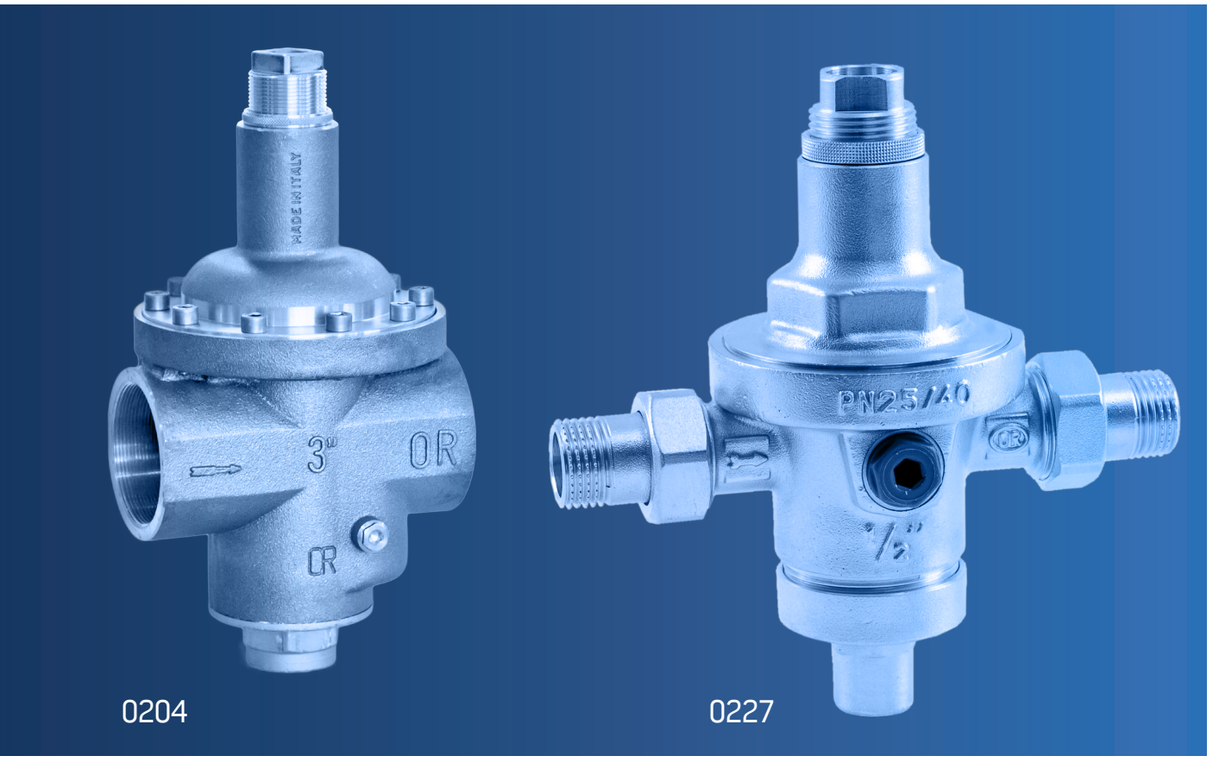
0204 • 1/2”- 4”

0227 • 1/2”- 2”

PRESSURE REDUCING VALVES WITH DIAPHRAGM PN 40
WITH COMPENSATION CHAMBER AND STAINLESS STEEL SEAT

CONNECTIONS: FEMALE-FEMALE
DISMANTLING FITTINGS MALE



0204 0227

HYDRAULIC FEATURES

The pressure reducing valve with diaphragm PN 40 with compensation chamber 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 diaphragm-type pressure reducing valve with compensation chamber (PN 40) 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)	40 bar
Outlet settings (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”-2” EN12165-CW617N
Cast bronze body dimensions 2”1/2-4” EN1982-CB491K
Brass bonnet dimensions 1/2”-2” EN12165-CW617N
Cast bronze bonnet dimensions 2”1/2-4” EN1982-CB491K
Other forged brass components dimensions 1/2”-4” EN12165-CW617N
Other cast bronze components dimensions 2”1/2-4” EN1982-CB491K
Other components in turned brass dimensions 1/2”-4” EN12164 - CW614N
EPDM rubber diaphragm, nylon reinforced to 70 Sh
Static O-ring washers and seat gaskets in NBR RUBBER
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

0204.015	female/female	1/2”	0227.015	dismantling fittings male	1/2”
0204.020	female/female	3/4”	0227.020	dismantling fittings male	3/4”
0204.025	female/female	1”	0227.025	dismantling fittings male	1”
0204.033	female/female	1”1/4	0227.033	dismantling fittings male	1”1/4
0204.042	female/female	1”1/2	0227.042	dismantling fittings male	1”1/2
0204.050	female/female	2”	0227.050	dismantling fittings male	2”
0204.066	female/female	2”1/2			
0204.080	female/female	3”			
0204.100	female/female	4”			

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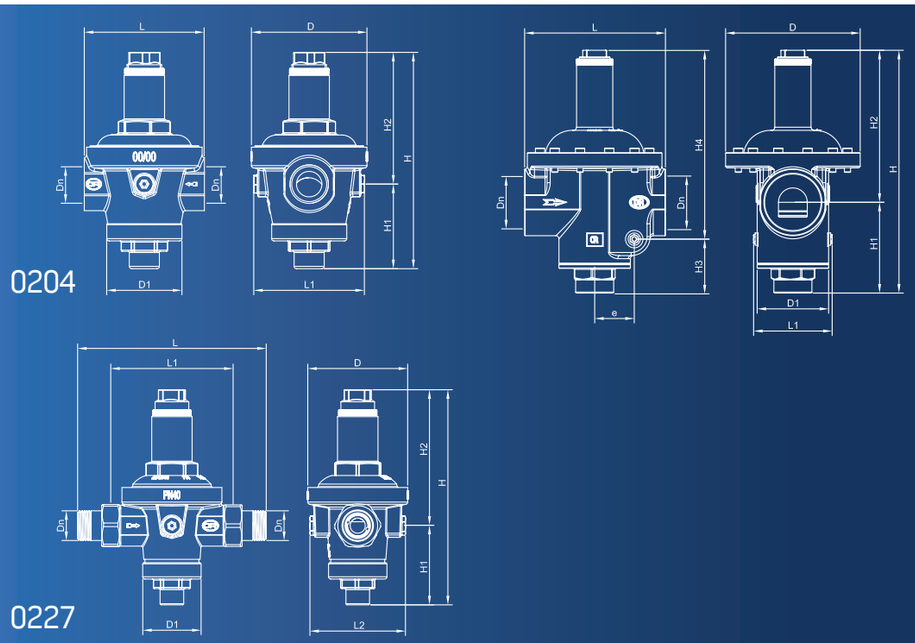

FEATURES

0204

Dn	D	D1	L	L1	H	H1	H2	H3	H4	e
1/2”	Ø72,5	Ø44	76	67	152,5	65	87,5	\	\	\
3/4”	Ø89	Ø52	91	85	191,5	70,5	121	\	\	\
1”	Ø100	Ø65	104	96	187	73	114	\	\	\
1”1/4	Ø123	Ø72	137	92	229,5	82,5	147	\	\	\
1”1/2	Ø153	Ø80	170	109	258	93	165	\	\	\
2”	Ø168	Ø90	183,5	119	276	92	184	\	\	\
2”1/2	Ø179	Ø93	206	104	339	122	217	77	262	43
3”	Ø191	Ø102,5	203	129,5	374,5	141,5	233	91,5	283	30
4”	Ø260	Ø139	274	153	482	176,5	305,5	105	377	77

0227

Dn	D	D1	L	L1	H	H1	H2
1/2”	Ø72,5	Ø44	147	95	146	63	83
3/4”	Ø89	Ø52	168	109	191,5	70,5	121
1”	Ø100	Ø65	196	127	192,5	78,5	114
1”1/4	Ø123	Ø72	239	158	232,5	82,5	150
1”1/2	Ø153	Ø80	279	195	256	93	163
2”	Ø168	Ø90	316,5	209,5	276	92	184

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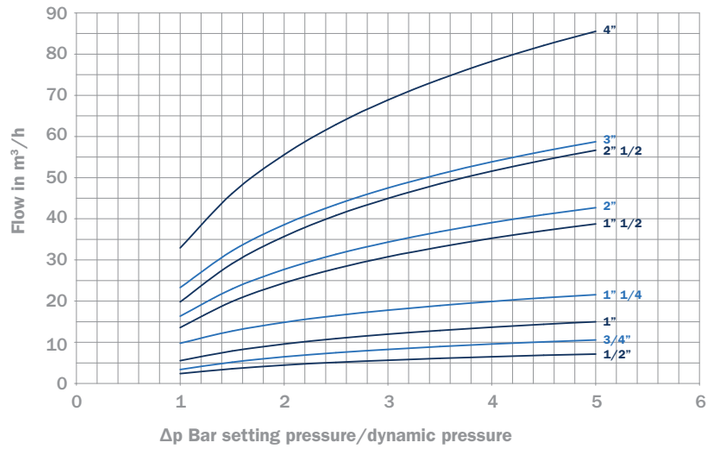
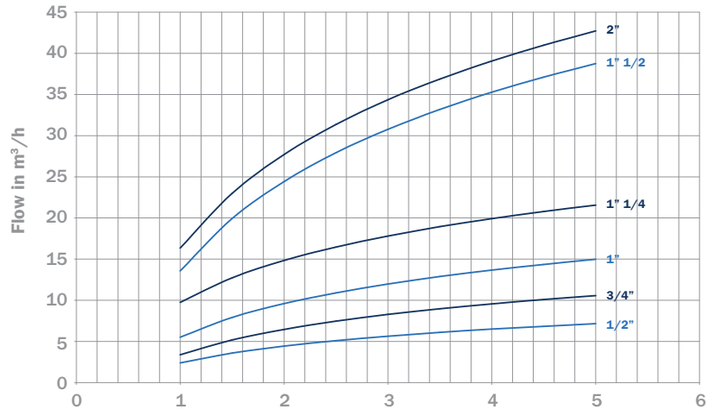
2004

PRESSURE REDUCING VALVE 0204 1/2” - 4”



0227

PRESSURE REDUCING VALVE 0227 1/2” - 2”