

Technical data sheet

Type 10 and 10RC

Pressure reducing valve

Desbordes®

Applications
and special features



- Control and maintain the downstream pressure at an adjustable reduced value, whether there is a flow or not.
- Keep an outlet pressure at a constant value, even by variation of the upstream pressure (the down-stream pressure cannot vary more than 10 % of the variation of the upstream pressure, according to the Standard).
- For water distribution, domestic and individual.
- No maintenance required, not affected by scale or dirt.
- Can be installed in any position.
- Guarantee a high flow rate at a constant outlet pressure because of low head loss.
- Work as pressure reducing valve (standard terminology) as well as "regulator" and as "pressure regulating valve" (when applies for gas).
- Pre-set at 3bar
- Downstream setting : 1bar to 6 bar; indicative value according to EN1567
- 1/4" pressure gauge connection at the bottom of the casing
- Also available with compensating spring : type 10 RC, for lower downstream pressure.

Technical description

DN		PFA (bar)	PS (bar)				Cat.	References	Vvs-nr
			L1	L2	G1	G2			
1/2	15	25	25	25	X	25	3.3	149B7000	
3/4	20	25	25	25	X	25	3.3	149B7001	
1	25	25	25	25	X	25	3.3	149B7002	

Type RC

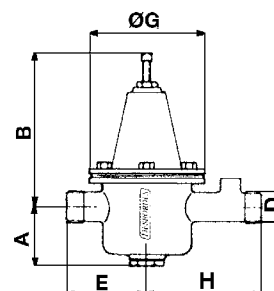
1/2	15	25	25	25	X	25	3.3	149B7029	
3/4	20	25	25	25	X	25	3.3	149B7030	
1	25	25	25	25	X	25	3.3	149B7031	

L1, L2, G1 and G2 correspond to liquids/gas classified into degree of danger according to the Pressure Equipment Directive (PED). The article 3.3 applies to equipments with no CE marking.

- **Connection** : male/male (BSP)
- **Downstream pressure gauge connection** : 1/4"
- **Permissible operating pressure PFA - water** : See table
- **Maximum permissible pressure PS - other mediums** : See table
- **θ** : Mini. -10 °C
Maxi. in permanent service: 80 °C
(40°C domestic fuel oil)
- **Mediums** : water, air and neutral gas , domestic fuel oil.
- **Approvals** : ACS - **WRAS** (Type 10 only) -
- **International construction Standards** :
Pressure reducing valves EN 1567
Thread connection NF EN ISO 228

Overall dimensions

DN		D	A	B	E	G	H	Weight
		mm	mm	mm	mm	mm	mm	kg
15	1/2	15/21	48	120	65	92	95	1,3
20	3/4	20/27	55	130	78	108	102	1,9
25	1	26/34	60	160	88	123	116	2,6

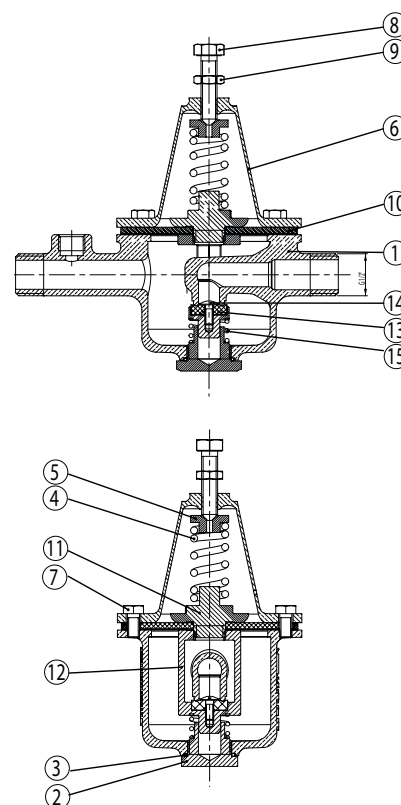


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Spare parts list and materials

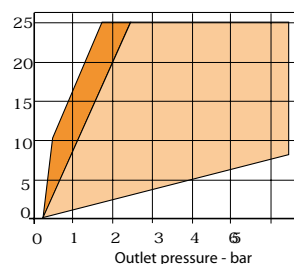
Nb	Description	Material	EURO	ANSI
1	CASING	bronze	CuSn5Zn5Pb5-C	ASTM B 505
2	PLUG	Brass	CuZn39Pb3	
3	O-RING	NBR		
4	SPRING	Anti-corrosion steel	SH	
5	PLATE	Brass	CuZn39Pb3	
6	CAP	Brass	CuZn39Pb1	
7-8	SCREW	Stainless steel	X5CrNi 18-10	AISI 304
9	NUT	Stainless steel	X5CrNi 18-10	AISI 304
10	MEMBRANE	NBR/Polyamide		
11	PLATE	Brass	CuZn40Pb2	ASTM B 124
12	STIRRUP	DZR	CuZn36Pb2As	ASTM B 124
13	SEAL	NBR		
14	SCREW	Stainless steel	X5CrNi 18-10	AISI 304
*15	COMPENSATING SPRING	Stainless steel	X10CrNi 18-8	AISI 302

* on type 10 RC



Working principle

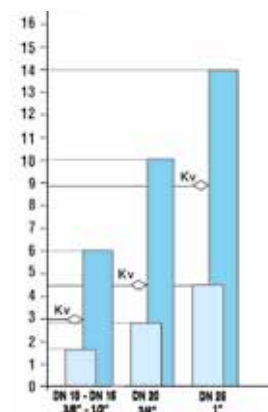
• Pressure setting range



NORMAL operating zone
 Zone requiring a COMPENSATING SPRING (10 RC)

• Flow

Flow - m³/h



Flow at the velocity used in the Standard (2 m/s).
 Maximum flow, at 0 outlet pressure, for upstream pressure of 8 bar.

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Socla SAS

365 rue du lieutenant Putier
71530 VIREY LE GRAND
Postal address : BP 10273
71107 CHALON SUR SAONE Cedex

Tel : 33 3 85 97 42 52
Fax : 33 3 85 97 97 42
<http://www.socla.com>
e-mail: commerfr@socla.com