SOCLA

Technical data sheet

Type 7 EP

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).
- 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).
- Downstream setting : 1bar to 5.5 bar; indicative value according to EN1567.
- Adjustable : supplied pre-set at 3 bar.
- 1/4" pressure gauge connection and drain at each side of the casing

Technical description

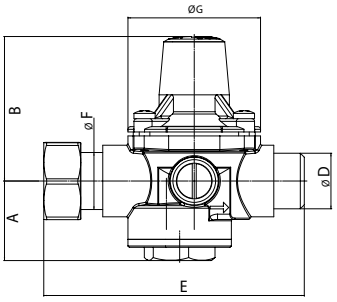
DN			PFA (bar)	PS (bar)				Cat.	Reference	Vvs-nr
Inlet	Outlet	mm		L1	L2	G1	G2			
3/4''	1/2''	15	16	16	16	X	16	**3.3**	**149B7211**	
3/4''	3/4''	20	16	16	16	X	16	**3.3**	**149B7212**	

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** : union nut 3/4"/male
- **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
- **Mediums** : water, air et neutral gas
- **Approvals** : ACS
- **International construction Standards** :
  Pressure reducing valves EN 1567
  Thread connection NF EN ISO 228

Overall dimensions

DN			A	B	E	F	G	Weight
Inlet	Outlet D	mm	mm	mm	mm	"	mm	kg
3/4''	1/2''	15	30	54	92	3/4	50	0,5
3/4''	3/4''	20	33	61	95	3/4	57	0,8



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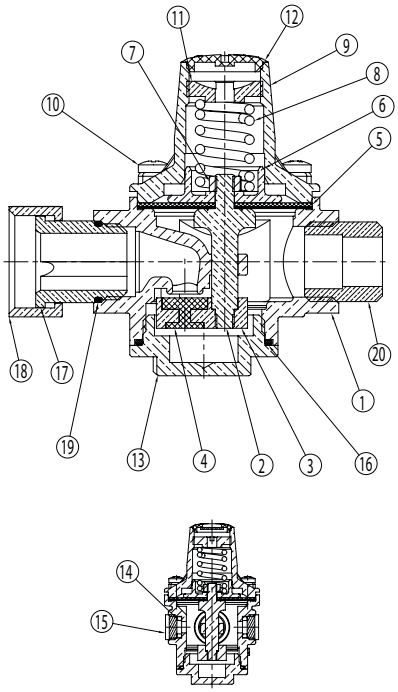
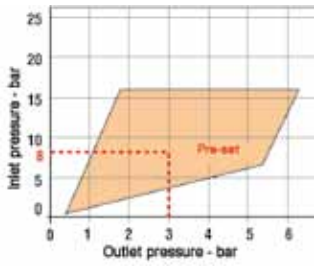
Spare parts list and materials

Nb	Description	Material	EURO	ANSI
1	CASING	Bronze	CuPb5Zn5Sn5-C	ASTM B 505
2	STEM	DZR brass	CuZn36Pb2As	
3	SEAL BOX	Brass	CuZn39Pb3	ASTM B 124
4	SEAL	EPDM		
5	MEMBRANE	NBR/Polyamide		
6	MEMBRANE WASHER	Brass	CuZn39Pb3	ASTM B 124
7	NUT	Stainless steel	X5CrNi 18-10	AISI 304
8	SPRING	Anticorrosive steel	SH	
9	CAP	Brass	CuZn40Pb2	ASTM B 124
10	SCREW	Stainless steel	X5CrNi 18-10	AISI 304
11	ADJUSTING SCREW	Brass	CuZn39Pb3	ASTM B 124
12	PLUG	Plastic		
13	CAP COVER	Brass	CuZn39Pb3	ASTM B 124
14	FLAT SEAL	NBR (Nitrile)		
15	PRESSURE GAUGE CAP	Brass	CuZn39Pb3	ASTM B 124
16	O-RING	NBR (Nitrile)		
17	SOCKET	Brass	CuZn39Pb3	ASTM B 124
18	NUT	Brass	CuZn39Pb3	ASTM B 124
19	O-RING	NBR (Nitrile)		
20	NIPPLE	Brass	CuZn39Pb3	ASTM B 124

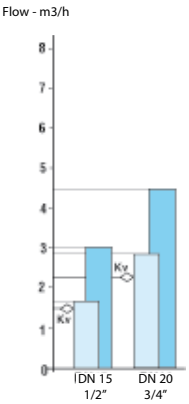


Working principle

• Pressure setting range



• Flow



Flow at the velocity used in the Standard (2 m/s).

Maximum flow (0 outlet pressure) under an upstream pressure of 8 bar

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