

## Technical data sheet

### Type 7 SP

Pressure reducing valve Type Junior

**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

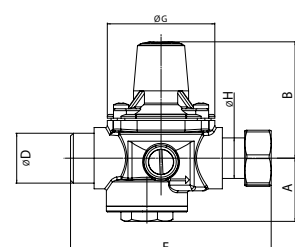
DN		PFA (bar)	PS (bar)				Cat.	References	Vvs-nr
"	mm		L1	L2	G1	G2			
3/4	20	16	16	16	X	16	3.3	149B7248	

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** : inlet male BSP thread/outlet union nut 3/4"
- **Downstream pressure gauge** : 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

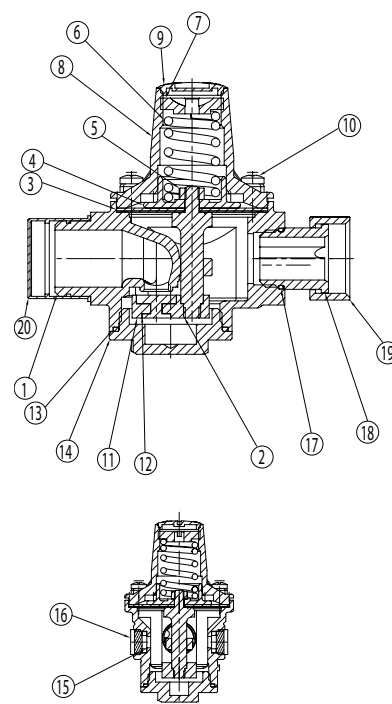
DN	D		A	B	E	G	H	Weight
D	"	mm	mm	mm	mm	mm	"	kg
20	3/4	20/27	33	61	95	57	3/4	0,8



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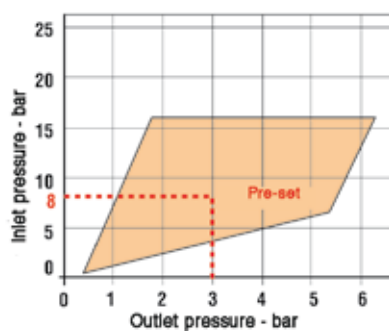
**Spare parts list and materials**

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

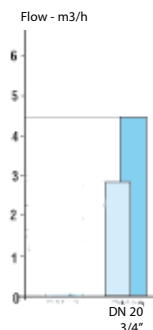


**Working principle**

• Pressure setting range



• Flow



- Flow at the velocity used in the Standard (2 m/s).
  - Maximum flow (at 0 outlet pressure) for upstream pressure of 8 bar.
- Kv : Flow in m<sup>3</sup>/h when the outlet pressure becomes 1 bar lower than its setting at zero flow.

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