

## Technical data sheet

### Type 9 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).
- Non-adjustable; set at 3 bar.
- With 1/4" plugs on both sides to allow pressure gauge connection.

#### Technical description

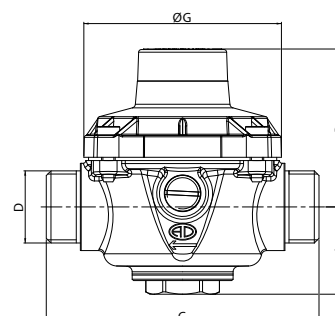
DN	PFA (bar)	PS (bar)				Cat.	References	Vvs-nr
		L1	L2	G1	G2			
1/2	15	25	25	25	X	25	3.3	149B7219
3/4	20	25	25	25	X	25	3.3	149B7220
1	25	25	25	25	X	25	3.3	149B7221

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 thread
- **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 and neutral gas
- **Approvals** : ACS - NF
- **International construction Standards** :  
Pressure reducing valves EN 1567  
Thread connection NF EN ISO 228

#### Overall dimensions

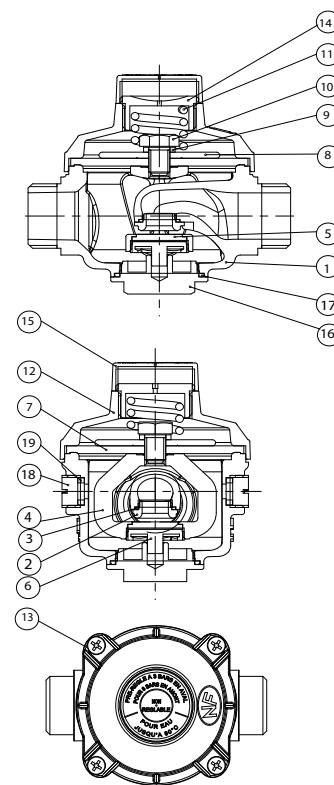
DN	D		A	B	C	G	Weight
	"	mm	mm	mm	mm	mm	kg
15	1/2	15/21	31	53	85	59	0,68
20	3/4	20/27	31	59	100	73	1,05
25	1	26/34	40	68	122	94	1,72



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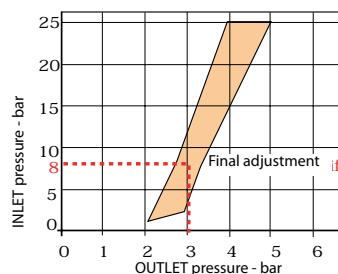
### Spare parts list and materials

Nb	Description	Material	EURO	ANSI
1	CASING	bronze	CuSn5Zn5Pb5-C	ASTM B 505
2	SEAT	Stainless steel (DN 15 - 20)	X8CrNiS18-09	AISI 303
3	O-RING	NBR (Nitrile)		
4	STIRRUP	Brass	CuZn40Pb2	
5	SEAL	NBR (Nitrile)		
6	STIRRUP PLUG	Brass	CuZn39Pb3	ASTM B 124
7	MEMBRANE	NBR / Polyamide		
8	MEMBRANE WASHER	Brass	CuZn39Pb3	ASTM B 124
9	COPPER WASHER	Copper		
10	MEMBRANE SCREW	Stainless steel	X5CrNi 18-10	AISI 304
11	SPRING	DZR brass	SH	
12	CAP	Brass	CuZn39Pb2	ASTM B 124
13	SCREW	Stainless steel	X5CrNi 18-10	AISI 304
14	NUT FOR SPRING PRESSING	Brass	CuZn39Pb3	ASTM B 124
15	PLASTIC COVER	Polyethylen		
16	CAP COVER	Brass	CuZn39Pb3	ASTM B 124
17	O-RING	NBR (Nitrile)		
18	PRESSURE GAUGE CAP	Brass	CuZn39Pb3	ASTM B 124
19	PRESSURE GAUGE SEAL	NBR (Nitrile)		



### Working principle

#### • Pressure setting range

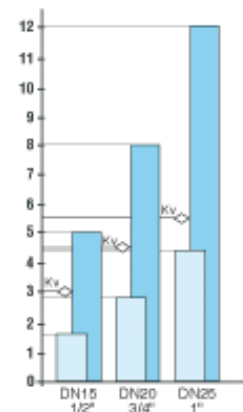


• ACOUSTIC LEVEL : DS value Lap in dB(A). The higher the DS is, the quieter the machine/apparatus will be : **Our pressure reducing valves are very silent.**

	Lap values
1/2"	10 dB(A) up to 0,18 l/s
3/4"	16 dB(A) up to 0,32 l/s
1"	20 dB(A) up to 0,57 l/s

#### • Flow

Flow - m<sup>3</sup>/h



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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