

Technical data sheet

Type 10BIS BZ

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).
- All internal component in bronze, specially adapted for sea water and aggressive water.
- 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 6 bar; indicative value according to EN1567
- Adjustable : supplied non adjusted.
- 2 pressure gauge connections 1/4" and drain at the bottom of the casing.

Technical description

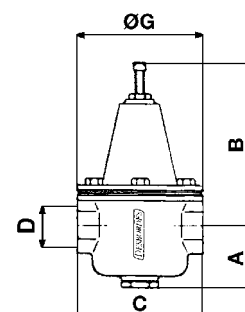
DN	PFA (bar)	PS (bar)				Cat.	References	Vvs-nr
		L1	L2	G1	G2			
1	25	25	25	X	25	3.3	149B7013	
1 1/4	32	25	25	X	25	3.3	149B7014	
1 1/2	40	25	25	X	25	3.3	149B7015	
2	50	25	25	X	20	3.3	149B7016	
2 1/2	65	25	25	X	15	3.3	149B7017	
3	80	25	25	X	12	3.3	149B7018	

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 : female/female, BSP thread
- 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, sea water, aggressive water
- Approvals: ACS
- International construction Standards :
Pressure reducing valves EN 1567
Thread connection NF EN ISO 228

Overall dimensions

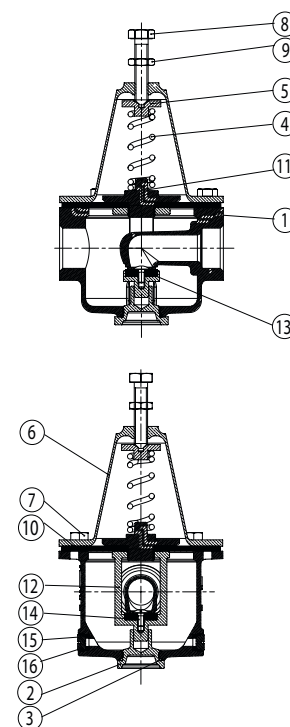
DN	D		A	B	C	G	Weight
	"	mm	mm	mm	mm	mm	kg
25	1	26/34	60	160	123	123	2,70
32	1 1/4	33/42	77	180	155	155	4,80
40	1 1/2	40/49	84	205	172	172	6,50
50	2	50/60	105	235	198	198	9,80
65	2 1/2	66/76	118	270	215	215	13,50
80	3	80/90	143	300	234	234	17,90



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Spare parts list and materials

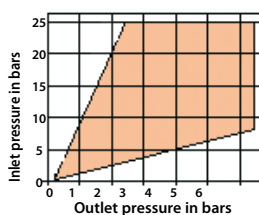
Nb	Description	Material	EURO	ANSI
1	CASING	Bronze	CuSn5Zn5Pb5 - C	ASTM B 505
2	CAP COVER	Bronze	CuSn5Zn5Pb5 - C	ASTM B 505
3	SEAL	NBR (Nitrile) or fibre		
4	SPRING	Anticorrosive steel	SH ou VD CrSi	
5	PLATE	Brass	CuZn39Pb3	
6	CAP	Brass or alu-bronze or bronze	CuZn39Pb1 CuAl9 or CuSn5Zn5Pb5	
7	SCREW	Stainless steel	X5CrNi 18-10	AISI 304
8	ADJUSTING SCREW	Stainless steel	X5CrNi 18-10	AISI 304
9	NUT	Stainless steel	X5CrNi 18-10	AISI 304
10	MEMBRANE	NBR/Polyamide		
11	MEMBRANE WASHER	Bronze	CuSn5Zn5Pb5 - C	ASTM B 505
12	STIRRUP	Alu-bronze or Messing DZR or Bronze	CuAl9 CuZn36Pb2As CuSn5Zn5Pb5	
13	SEAL	NBR (Nitrile)		
14	SCREW	Stainless steel	X5CrNi 18-10	AISI 304
15	SEAL	NBR (Nitrile)		
16	PLUG	Messing DZR	CuZn36Pb2As	



Working principle

• Pressure setting range

(DN 25 - 80 mm)



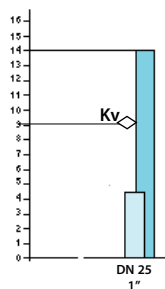
• Flow capacity

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

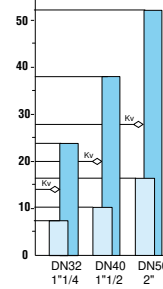
Maximum flow (at 0 outlet pressure) for upstream pressure of 8 bar.

Kv : Flow in m³/h when the outlet pressure becomes 1 bar lower than its setting at zero flow.

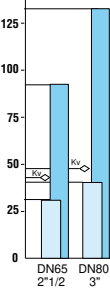
Flow in m³/h



Flow in m³/h



Flow in m³/h



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