

Technical data sheet

Multi7

Pressure reducing valve

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.
- Equipped with 2 plugs 1/4" on each side to allow the mounting of downstream pressure gauge and drain.
- Delivered with 3 nuts allowing 16 different connecting possibilities in 1/2" and 3/4".

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	149B7540	

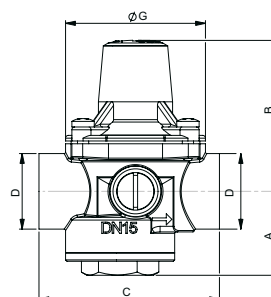
L1, L2, G1 and G2 correspond to liquids/gas classified into degree of danger according to the Pressure Equipment Directive (PED). The article 3.3 applies to equipments with no CE marking.

- **Connection** : female/female, BSP thread
- **2 plugs 1/4"** on each side for 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 - neutral gas
- **Approvals** : ACS
- **International construction Standards** :
Pressure reducing valves EN 1567
Thread connection NF EN ISO 228

Overall dimensions

DN	D		A	B	C	E	Weight (*)
	"	mm	mm	mm	mm	mm	
20	3/4	20/27	33	61	70	57	0,64

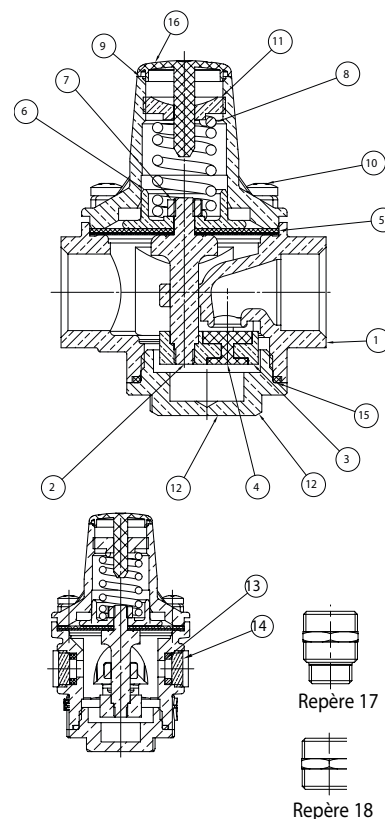
(*) : without nuts



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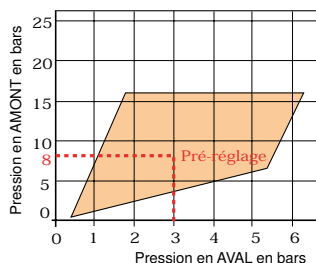
Spare parts list and materials

Nb	Description	Material	EURO	ANSI
1	CASING	Bronze	CuPb5Zn5Sn5-C	ASTM B 505
2	STEM	DZR brass	CuZn36PbAs	
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	Anticorrosion steel	SH	
9	CAP	Brass	CuZn39Pb2	ASTM B 124
10	SCREW	Stainless steel	X5CrNi 18-10	AISI 304
11	ADJUSTING SCREW	Brass	CuZn39Pb3	ASTM B 124
12	CAP COVER	Brass	CuZn39Pb3	ASTM B 124
13	FLAT RING	NBR (Nitrile)		
14	PRESSURE GAUGE CAP	Brass	CuZn39Pb3	ASTM B 124
15	O-RING	NBR (Nitrile)		
16	PLUG	Plastic		
17	NUT 4 POSITIONS	Brass	CuZn39Pb3	ASTM B 124
18	NUT 3 POSITIONS	Brass	CuZn39Pb3	ASTM B 124

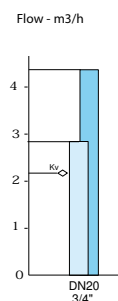


Working principle

• 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 m³/h when the outlet pressure becomes 1 bar lower than its setting at zero flow.

Note : without nuts

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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: commer@socla.com