SOCLA

Technical data sheet

Type 10TER and 10TER RC

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.
- Maintain the outlet pressure at a constant value, even when there are variations in the upstream pressure (the downstream pressure cannot vary more than 10 % from the variation of the upstream pressure, according to the Standard).
- For domestic water distribution and industrial use.
- No maintenance required, not affected by scale or dirt.
- Can be installed in any position/directions.
- Guarantee a high flow rate at a constant outlet pressure because of low head loss.
- Works as pressure reducing valve (standard terminology) a regulator or as a pressure regulating valve (when used for Gas applications).
- Pre-set at 3bar
- Downstream setting : 1bar to 6 bar; indicative value according to EN1567
- 2 side pressure cocks for pressure gauge
- Also available with compensating spring : type 10 TER RC, for lower downstream pressure. (DN 32-80mm)

Technical description

DN	PFA bar	PS (bar)				Cat	References 10 Ter	Vvs-nr	References 10 Ter RC	Vvs-nr
		L1	L2	G1	G2					
32	16	16	16	X	16	3.3	149B7032		149B7038	
40	16	16	16	X	16	3.3	149B7033		149B7039	
50	16	16	16	X	16	3.3	149B7034		149B7040	
60	16	16	16	X	16	3.3	149B7035		149B7041	
65	16	16	16	X	15	3.3	149B7036		149B7042	
80	16	16	16	X	12	3.3	149B7037		149B7043	
100	16	16	16	X	10	3.3	149B7226		-	

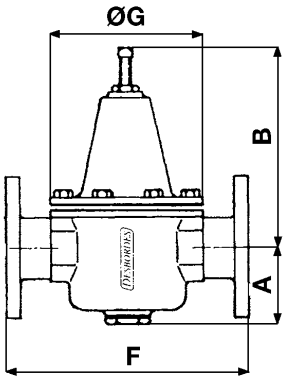
L1, L2, G1 and G2 correspond to liquids/gas classified into degree of danger according to the Pressure Equipment Directive (PED).The article 3.3 applies to equipments with no CE marking.

- **Connection** : for PN 10/16 flanges
- **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, air and neutral gas , domestic fuel oil.
- **Approvals** : WRAS (10ter) - ACS -
- **International construction Standards** :
  Pressure reducing valves EN 1567
  Thread connection NF EN EN 1092

Overall dimensions

DN	A	B	F	G	Weight
	mm	mm	mm	mm	(kg)
32	77	180	240	155	8, 50
40	84	205	260	172	10,90
50	105	235	288	198	14,30
60(*)	105	235	288	198	15,40
65	118	270	305	215	21,30
80	143	300	330	234	27,90
100	120	350	385	250	50,00

* DN 60 : according the old standard : flange Ø 175 - 4 holes Ø 18 on Ø 135

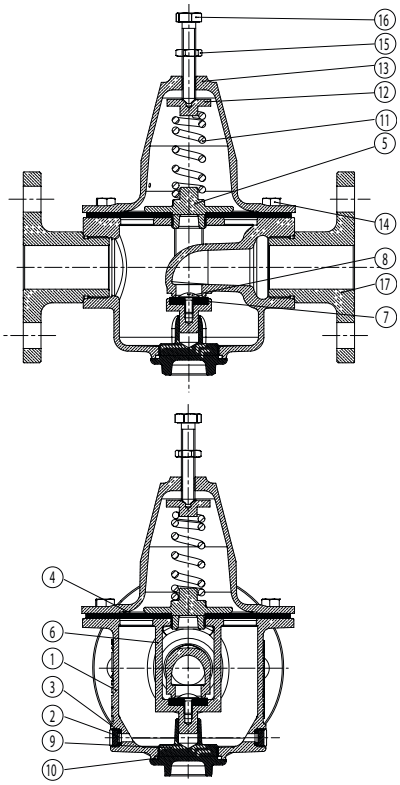


Technical data sheet — Type 10TER and 10TER RC - Pressure reducing valve

Spare parts list and materials

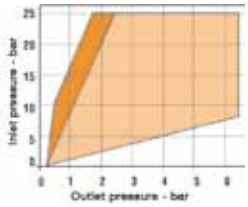
N°	Description	Material	EURO	ANSI
1	CASING	Bronze	CuSn5Zn5Pb5-C	ASTM B 505
2	PRESSURE GAUGE CAP	DZR brass	CuZn36Pb2As	
3	FLAT SEAL	NBR (Nitrile)		
4	MEMBRANE	NBR (polyamide reinforced Nitrile)		
5	MEMBRANE WASHER	Brass	CuZn40Pb2	
6	STIRRUP	Alu-Bronze or DZR brass or Bronze	CuAl9 CuZn36Pb2As CuSn5Zn5Pb5-C	
7	SEAL	NBR (Nitrile)		
8	SCREW	Stainless steel	X5CrNi 18-10	AISI 304
9	CAP COVER	Brass or bronze	CuZn39Pb3 CuSn5Zn5Pb5-C	
10	SEAL	NBR (Nitrile) or fibre		
11	SPRING	Anticorrosive steel	SH ou VD CrSi	
12	PLATE	Brass	CuZn39Pb3	
13	CAP	Brass or Alu-Bronze or Bronze	CuZn39Pb1 CuAl9 ou CuSn5Zn5Pb5-C	
14	SCREW	Stainless steel	X5CrNi 18-10	AISI 304
15	NUT	Stainless steel	X5CrNi 18-10	AISI 304
16	ADJUSTING SCREW	Stainless steel	X5CrNi 18-10	AISI 304
17	FLANGE	Bronze	CuSn5Zn5Pb5-C	ASTM B 505
18*	COMPENSATING SPRING	Stainless steel	X10CrNi 18-8	AISI 302

Spare part list for DN 100 - consult us
* Type 10ter_rc only



Working principle

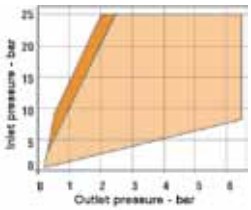
• Pressure setting range



(DN 32 to 50 mm)

NORMAL operating zone

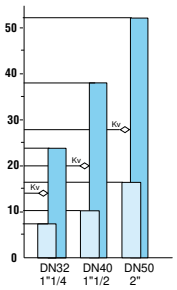
Zone requiring a COMPENSATING SPRING (10Bis RC) (Except DN 4")



(DN 60 to 100 mm)

• Flow capacity

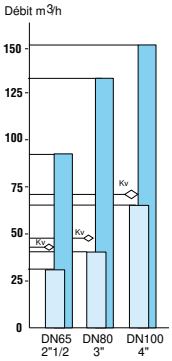
Flow in m3/h



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



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