

SPRINGLOADED PRESSURE REDUCING REGULATOR TBRSTC8

THE MILLIBAR REGULATOR FOR PHARMACEUTICS

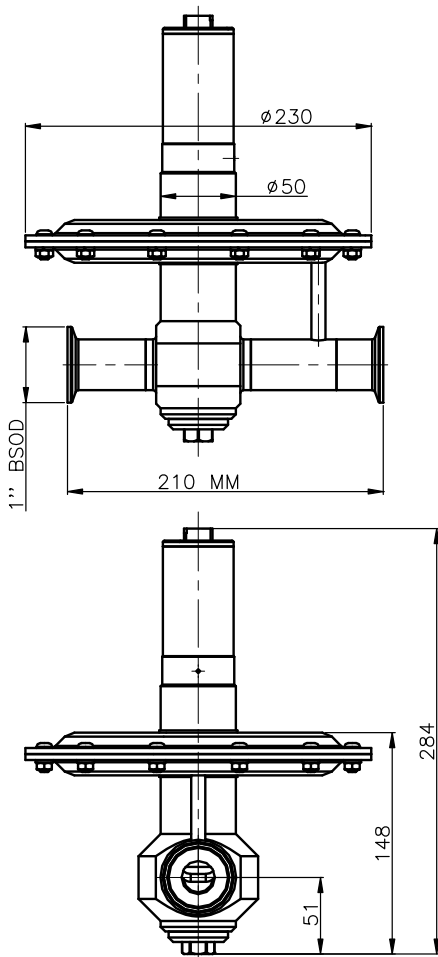


MAIN FEATURES

- ss 316L body
- ptfе diaphragm
- balanced valve
- vacuum tight
- atex Ex II 2 GD
- FDA/USP seals
- adjustable from zero pressure
- easy to polish
- easy maintenance
- shell design according to EN 12516

CHARACTERISTICS

Inlet pressure	: 0,1 - 6 bar, 0,1 -16 bar 16 bar design pressure
Outlet ranges	: 5 – 500 mbar 6 bar design pressure
Under pressure	: vacuum
Seat diameters:	: 8 mm
Seat leakage	: EN12266, rate a, p12 ANSI Class VI
Dependency ratio	: 1 : 3000
Materials:	
• Body & Trim	: ss 316L
• Spring housing	: ss 316L
• Stem guide	: ptfе
• Valve housing	: ptfе
• Valve seat ring	: epdm
• Diaphragm	: ptfе
Connections	: tri-clamps 1" bsod
Weight:	: 6,5 kg
Temperature range	: -20 to + 140°C



OTHER CONNECTIONS

- DIN 11864
- BBS
- Neumo Bio Connect
- Neumo Connect S



Swagelok regulators are not "Safety Accessories" as defined in the Pressure Equipment Directive 97/23/EC:



Do not use the regulator as a shut off device.

O-RINGS

EPDM o-rings are standard.
(compound FS-EPDM70-USP05) to
FDA 21CFR, USP24 CL VI

Option:

- Kalrez (compound 6230) to
FDA 21CFR, USP24 CL VI

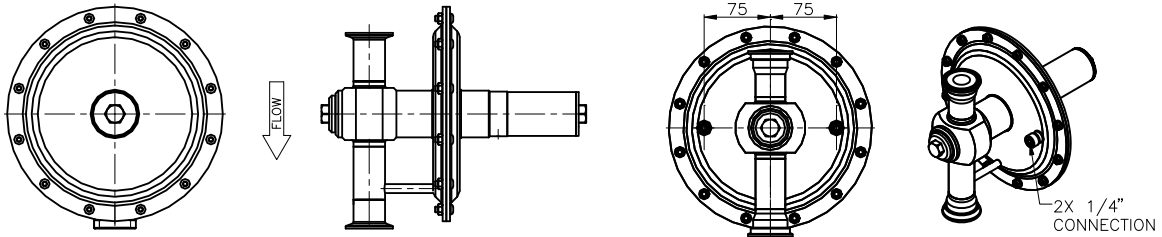
CLEANING

This regulator is ultrasonically cleaned and degreased.
Cleaning based on
ASTM-G93 Level C / CGA 4.1.

INSTALLATION

Preferably in a vertical mode to allow draining.

From a control point of view there is little or no difference between horizontal or vertical mounting.



mounting mode (preferably)

gauge connections (option)

MAINTENANCE

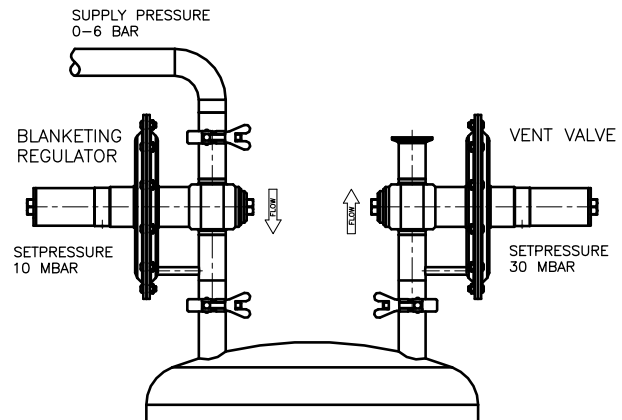
- No need to remove LoBär from the system for maintenance / repair.
- No special tools required.

RECOMMENDATIONS

We recommend keeping the supply pressure level below 6 bar.

Set the supply blanketing regulator at 10 mbar outlet pressure and the vent valve at 30 mbar.

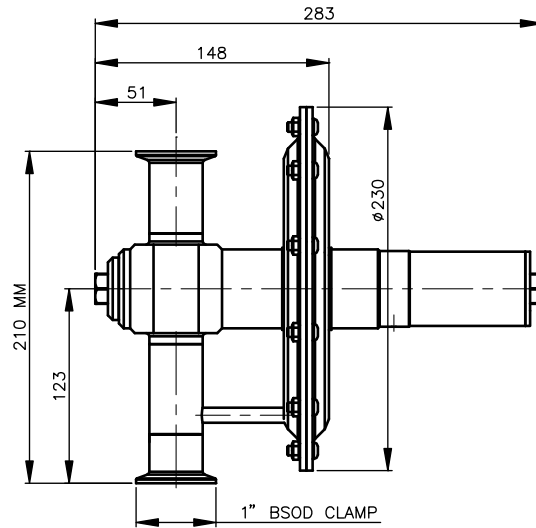
Supply pressure : 0 - 6 bar
Pressure range : 10 – 50 mbar
Mounting mode : vertically



GENERAL INFORMATION

- Setpoint is the point where the regulator closes bubble tight.
- A tankblanketing regulator is not a substitute for a vacuum relief device.
- Failure of the tank blanketing regulator must be taken into account when considering possible causes of over-pressure in a tank.
- Dependency ratio 1: 3000 means that a change in inletpressure of 3 bar (3000 mbar) will result in a change in outlet pressure of 1 mbar.

DIMENSIONS



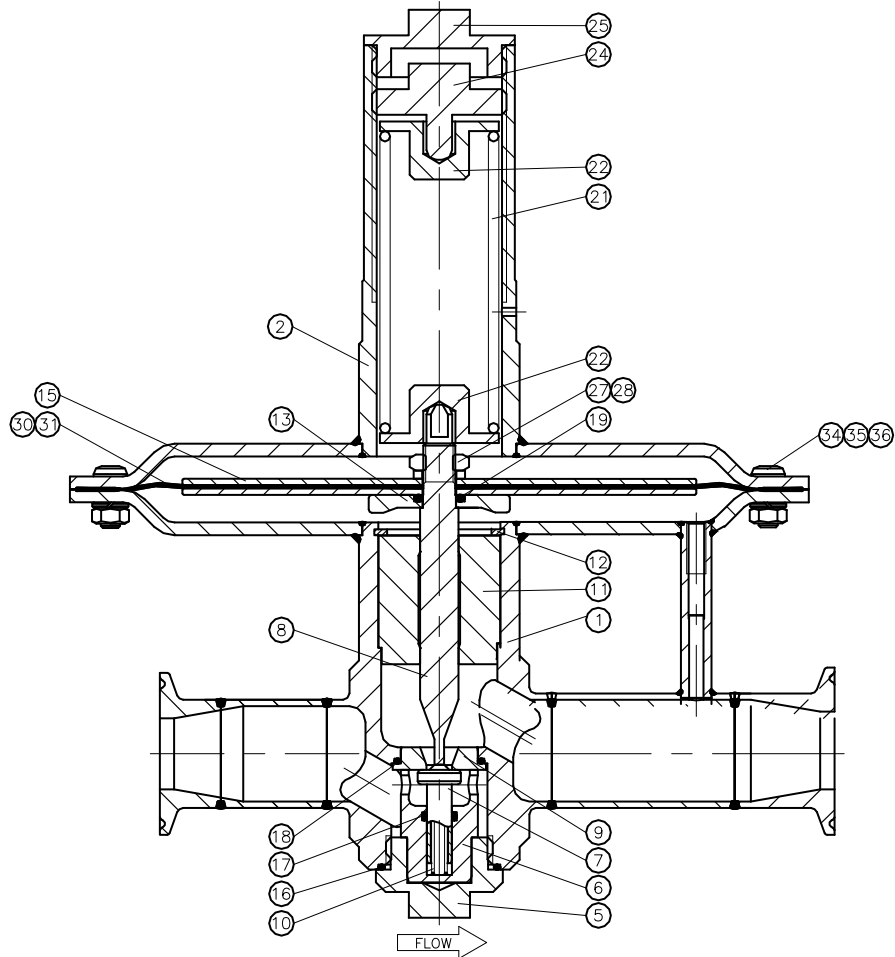
FLOWTABLE – SEAT Ø8MM

Regulator used purely as [tankblanketing](#) regulator.

Airflow (Nm ³ /h)											
Outlet pressure range (mbar)	Inlet pressure (bar)										
	0.1	0.2	0.4	0.6	0.8	1	2	3	4	5	6
5 – 10	4	8	16	24	32	40	65	85	105	125	145
10 – 50	"	"	"	"	"	"	"	"	"	"	"
20 – 200	-	-	"	"	"	"	"	"	"	"	"
50 – 500	-	-	-	-	-	"	"	"	"	"	"

Note:

With inlet pressures less than 1 bar the outlet pressure must not exceed 50% of the inlet pressure in order to achieve the given flow.



ORDERING INFORMATION

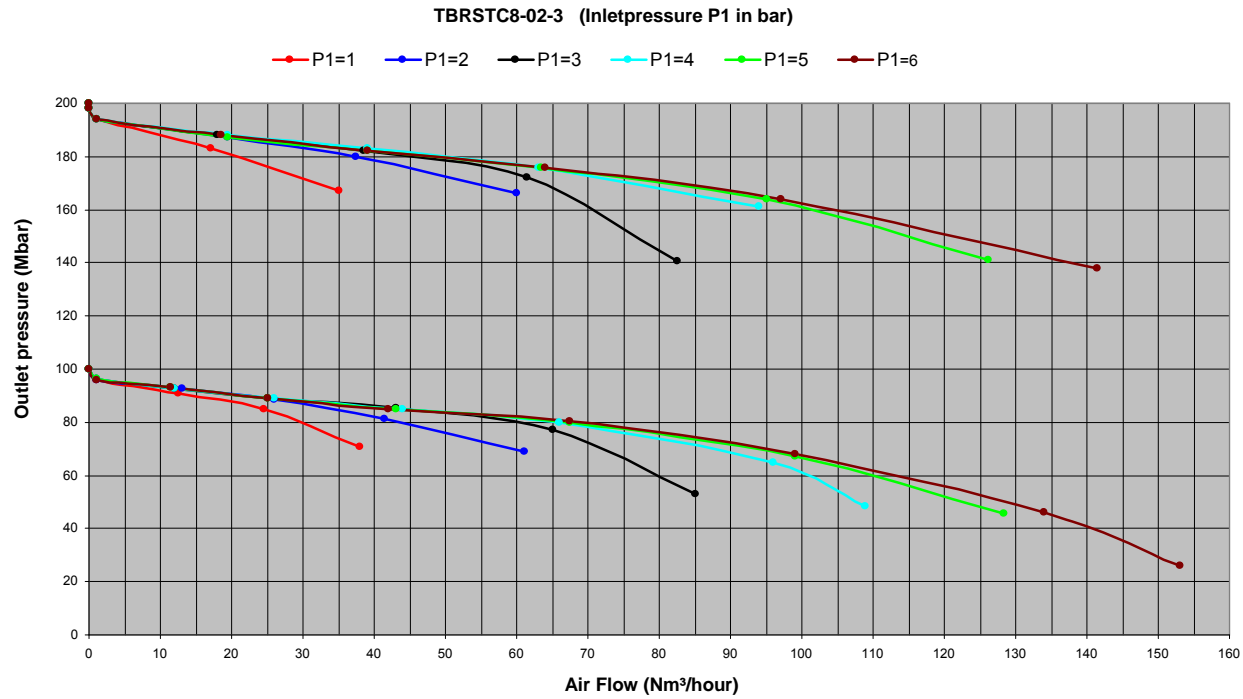
example: TBRSTC8-02-3-ETE-FS

TBRS	TC8	- 02	- 3	- E	T	E	- FS
series / inlet	connection	material	outlet range	o-rings	diaphragm	seat	options
TBRS = 0,1- 6 bar 8 mm seat	TC8 = 1" bsod tri-clamps	02 = ss316L	1 = 5 – 10 mbar 2 = 10 – 50 mbar 3 = 20 –200 mbar 4 = 50 –500 mbar	E = epdm Option: F = ffk m	T = ptfe	E = epdm Option: F = ffk m	FS = factory set & locked P4 = wetted parts polished, 0,4 µm P8 = wetted parts polished 0,8 µm

Red text identifies an example ordering number.

FLOWCURVE TBRSTC8

Regulator used for in-line pressure control.



Safe Product Selection
 When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

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