LAURIDSEN industri

BFS type COAXIAL OVERFLOW VALVE

Model/Ref: 2470050

Partnership. Without Limits.

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CHARACTERISTICS

The BFS coaxial regulator is dedicated to the flow regulation and upstream pressure maintenance in common fluid pipes such as water pipes.
With a simple and modern construction, it is especially designed for high flow conditions. The upstream pressure can be adjusted with a pilot valve and checked thanks to the pressure gauge. The BFS has to be protected by a strainer upstream.
It has a cast iron body construction with brass internal parts and NBR tightness. Bottom-up flow direction, horizontal or vertical mounting.

AVAILABLE ITEMS

DN 50 to DN 350,
Flanged connections PN 16 RF according to EN 1092-1
Adjustment range: 0.2 - 4 bar / 3 - 10 bar

EC 97/23 PRESSURE DIRECTIVE CATEGORY

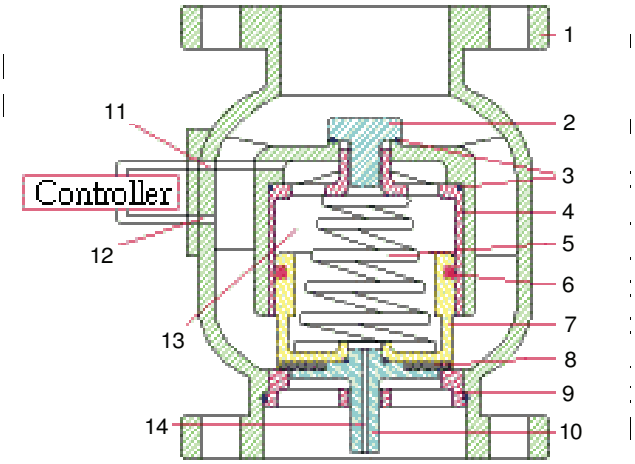
Excluded (Article 3, §3) – Prohibited use on gases from group 1

LIMITS OF USE

Max. allowable pressure (PS)	16 bar
Min. / max. allowable temperature (TS)	-10 °C / +80 °C
Max. Upstream pressure	0.3 bar

CONSTRUCTION

#	Item	Cast iron	Stainless steel
1	Body	Ductile iron	Stainless steel 1.4408
2	Cap	Brass	Stainless steel 316
3	O rings	NBR	NBR / FKM
4	Cylinder	Bronze	Stainless steel 316
5	Spring	Stainless steel	Stainless steel
6	Segment	NBR	NBR / FKM
7	Piston	Bronze	Stainless steel 316
8	Bearing	NBR	NBR / FKM
9	Seat	Bronze	Stainless steel 316
10	Stem	Bronze	Stainless steel 316



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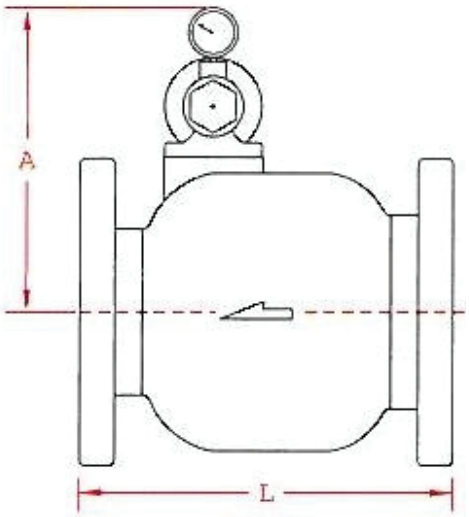
DIMENSIONS (mm) AND WEIGHT (kg)

DN	L	A	Weight
50	190	180	12
65	210	185	15
80	225	200	18
100	250	222	24
125	280	235	32
150	310	260	44
200	420	300	87
250	470	335	152
300	530	370	202
350	600	415	285

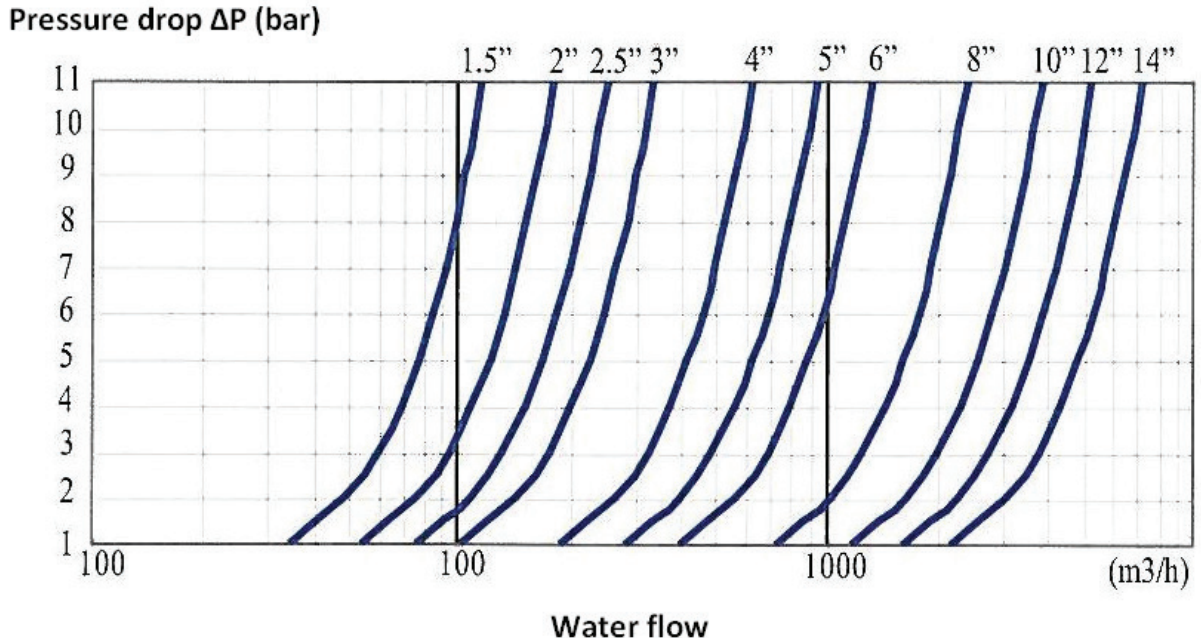


BFS

COEFFICIENT AND FLOWRATE

DN	50	65	80	100	125	150	200	250	300	350
Inches	2''	2'' ½	3''	4''	5''	6''	8''	10''	12''	14''
Kv (m^3/h)	65	91	121	225	337	476	865	1387	1903	2595

SIZING CHART FOR WATER



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INSTALLATION

Vertical or horizontal installation, bottom-up flow direction
A strainer has to be installed upstream from the regulator
Follow the direction of assembly indicated by the arrow.
Direct the downstream regulation pipework to a sufficiently large deposit.

MOUNTING AND MAINTENANCE

1. Mounting

Please check the fit between the pressures indicated on the body and the use.
Please shut the up and downstream pipes off, depressurize the piping and lower the installation temperature to room temperature before any use.
Install an upstream filter and a control valve upstream and downstream
Carefully remove any particle remaining on the piping by clearing with water or blowing with compressed air.
Install the regulator following the direction of the arrow on the body, and with the pressure gauge heading upwards.
Open the up and downstream valves.
To adjust the downstream pressure, please use the pilot valve adjusting screw and the pressure gauge indication.

2. Maintenance

Before any intervention, please shut the up and downstream pipes off using the shut-off valves.
Depressurize the piping and lower the installation temperature to room temperature.
Remove the upstream filter cap and clean or replace the strainer.
For a complete check of the device, disassemble part (1) and (9). Remove the stem *(mark 10 on the drawing page 1)* and the piston *(mark 7)*.
Check the condition of the gaskets *(mark 6 and 8)* and replace them if necessary.
Check the condition of the spring *(mark 5)* and replace it if it is broken.
Clean all the internal parts. Re-install the dismantled parts in the reverse order.
Put the device back to operation by slowly opening the upstream valve, and then the downstream valve.
Re-adjust the outlet pressure using the pilot valve.