

Pressure Maintaining Valve (Start up device)

Type DA-VPM-B15/450 (hereinafter called DA-VPM)

Operating Instructions

Maximum working pressure: 450 bar (6500 psig)

Standard set pressure ranges: 10 - 80 bar
80 - 150 bar
140 - 210 bar
140 - 450 bar
200 - 240 bar

Description

The DA-VPM is a simple spring loaded valve in which the line pressure applied at the inlet port acts upon a valve to oppose an adjustable spring load. When the pressure load on the valve rises to overcome the spring load, the valve will lift off the valve seat and the line gas or fluid will be allowed to flow through the outlet port.

The valve guide in which the valve slides is sealed into the valve body and a seal on the valve stem prevents gas or fluid entering the spring housing.

The sealing area of the valve seat and the area of the valve stem are virtually equal so the downstream side of the valve is pressure balanced, Therefore variations in the downstream pressure do not substantially affect the upstream pressure setting.

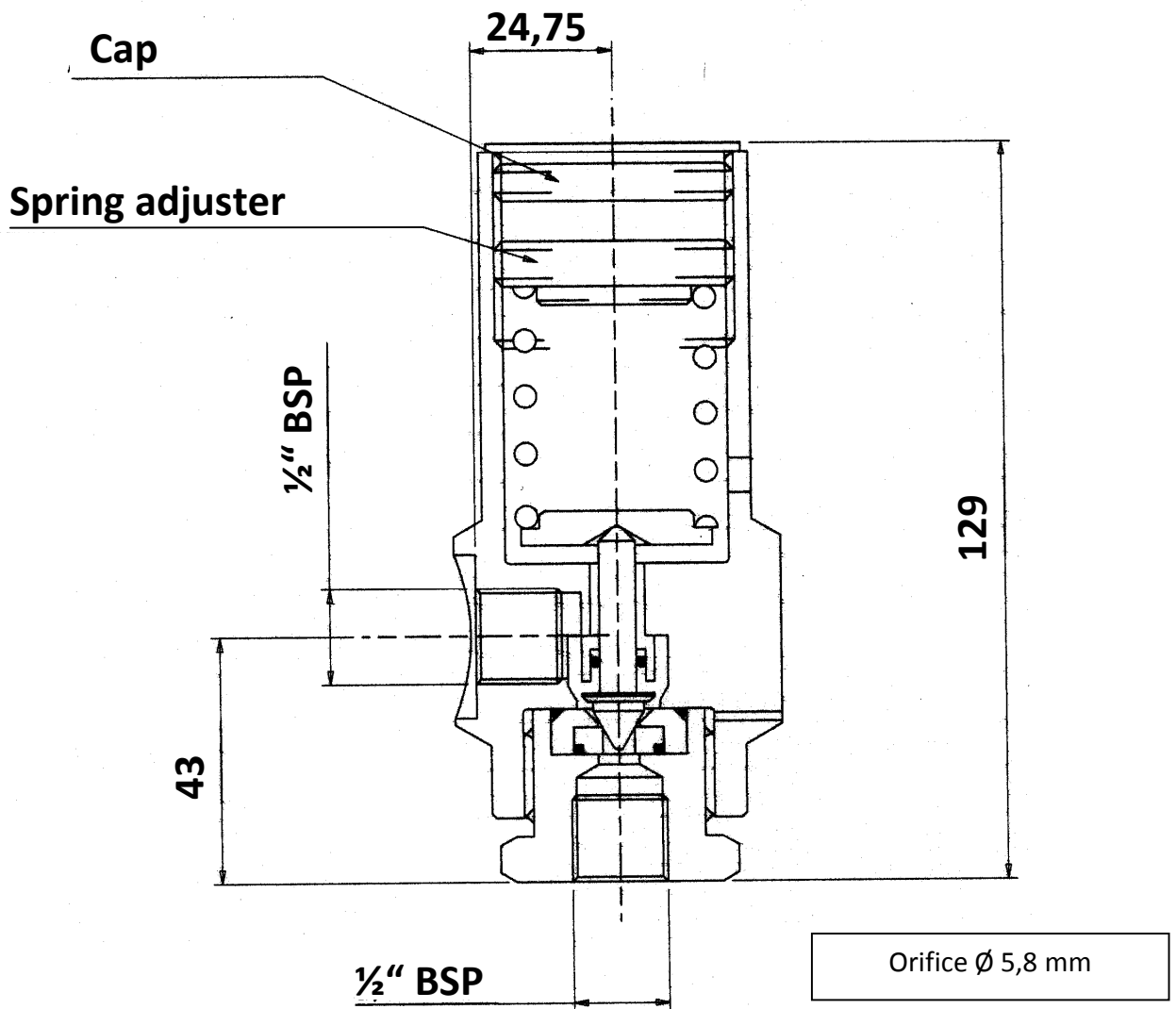
Operation

The valve may be installed in any attitude, but preferably so that access is available to the spring adjuster under the cap, for pressure setting purposes. Normally the valve will have been set to its required operating pressure prior to delivery. Should any adjustment after installation be necessary, turn the spring adjuster clockwise to increase the pressure setting and counter clockwise to decrease the pressure setting. A peg spanner part number A4896 is available for this purpose.

Note

On installation or removal of the DA-VPM valve from the line, the hexagon flats of the inlet connector must be used when making or breaking the inlet joint, as use of the body for this purpose may disturb the clamping of the valve seat.

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Maintenance / Valve Refurbishment

This instruction is confined to the replacement of the valve, valve seat and seals only. Any damage caused to other components would require the units return to the manufacturer.

Before commencing the valve refurbishment, the valve should be removed from the line and worked on in a clean environment.

Cleanliness during assembly is most important, particularly on all sealing surfaces.

Ensure the Spares Kit is suitable for the gas or fluid in the system.

When ordering a spares kit it is important to state the valve type, serial number and or the gas or fluid in the system.

It is advisable to hold a spares kit for emergency situations.

Dismantling

1. Remove the top Cap '7' and slacken the adjuster '8'.
2. Remove the inlet connection '9' with the valve seat, seat housing and seals '2, 5, 6, 10'.
3. Remove the valve, seal and anti-extrusion ring. '1, 3, 4'.
4. Check all components for damage or wear. Damaged or worn components should not be used.

Reassembly

1. Replace the anti-extrusion ring, seal and valve '1, 3, 4'.
A light application of a suitable lubricant will aid assembly.
2. Re-assemble the valve seat, valve housing and seals '2, 5, 6, 10' into the inlet connector '9'.
3. Re-assemble the inlet connector assembly into the body '11' and torque to 80/95 Nm
4. If possible reset the valve operating pressure before refitting the valve to the system, and check for correct function and leakage. Adjust the set pressure of the valve by screwing the adjuster '8' in to increase pressure setting and out to decrease pressure setting.
5. When valve is reset and there are no leaks from the valve, refit the cap '7'.

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Service kit SK-VPM-B15/450 :

Item	Article no.	Description	Qty
1	A3646	Valve	1
2	A3032	Valve seat	1
3	A4422	Anti extrusion ring	1
4	PP-SOR6.07X1.78-PB70	O-Ring 6,07*1,78, NBR70	1
5	PP-SOR12.42X1.78-PB70	O-Ring 12,42*1,78, NBR70	1
6	PP-SOR20.35X1.78-PB90	O-Ring 20,35*1,78, NBR90	1

