

Platon Flostat Type V (0.5 - 4")

INSTALLATION

The Flostat can be mounted at any angle, in any similarly nominal bored pipeline, which has at least 5 diameters of straight pipe adjacent to Port 'A'. This can be either the Inlet or Outlet of the Flostat, dependent on the actual process application.

Models with 'A' Valves are to be used for all Liquids and with Gases that have a regulated or a reasonably constant supply pressure.

Models with 'B' Valves are to be used with Gases of varying inlet pressure, but regulated or reasonably constant output pressure or where the gas is discharging to atmosphere.

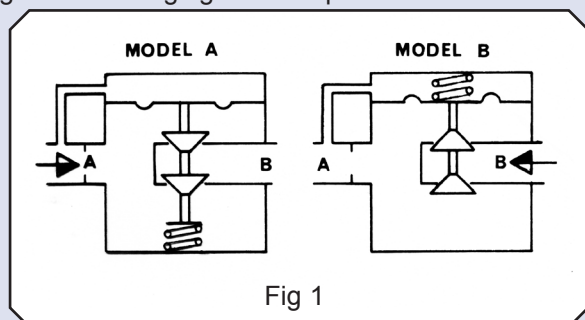


Fig 1

For dimensions refer to Certified Drawings - C62/1 and C62/4

OPERATION

Simply rotate the control valve handle at any time to achieve the desired flow rate. To aid this on all 1 - 4" models, a Scale plate is supplied (as standard) detailing how the instrument has been factory calibrated. On the smaller 1/2" & 3/4" models a Scale plate is only available on special request at the time of order placement.

On 1 - 4" models a locking screw is also supplied, to stop accidental adjustment of the control valve.

It is advisable when first using Liquid models, to loosen both Vent plugs to allow any trapped air to escape. When the Liquid starts to appear from the plugs, retighten them.

MAINTENANCE - GENERAL

The Flostat will not require attention if it is operated with clean fluids.

Short Term wear & tear to the more vulnerable components can be taken care of by replacing with Service Component Spares Kits (as detailed below), generally without disturbing the calibration or performance. However, complete dismantling of the instrument will make re-alignment and re-calibration essential, due to the fact that the Valve Port position and the control Spring tension are set during dynamic flow tests at the factory.

MAINTENANCE - MINOR

The Gland packing (A) & Vent plug seals may be replaced, if leakage is still apparent after tightening of the Gland nut & plugs respectively.

1/2" & 3/4" Models - Diaphragm Replacement (see Fig 2)

If the Diaphragm (B) is ruptured replace it as follows:

- 1) Unscrew both end Covers.
- 2) Remove 1x Nut, Retaining plate and then the Diaphragm.
- 3) Before replacing the Diaphragm pull & hold the Valve shut from the opposite side of the Body. Only then replace the Diaphragm, Retaining plate & Nut.
- 4) Release the Valve and check it is free to operate.
- 5) Screw both end Covers back on, replacing gasket (C) as necessary.

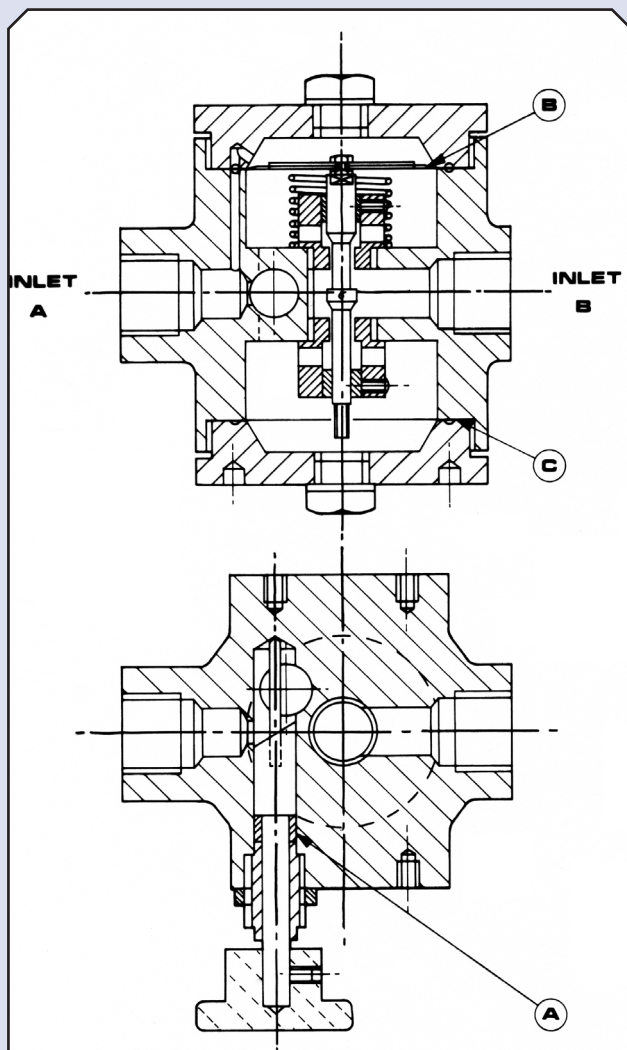


Fig 2

1 - 4" Models - Bellofram / Diaphragm Replacement (see Fig 3, full sectional view)

- 1) Detach the by-pass Pipe from its end Cover (right side view).
- 2) Unscrew 8x bolts & remove both of the end Covers.
- 3) When removing the Cover (left side view), take care not to loose the control Spring.

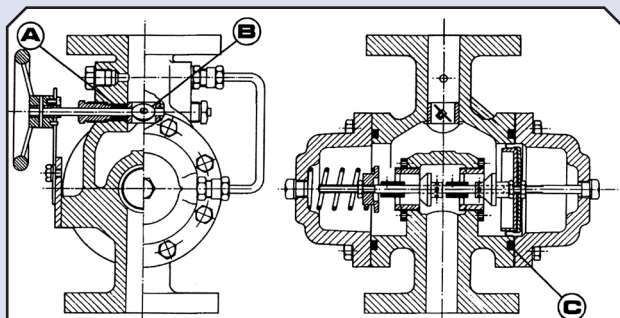


Fig 3

'A' Valve (right side view)

- 4) Remove 1x Nut & Diaphragm Retaining plate.
- 5) Place the Diaphragm (D) onto the Valve stem and replace the Retaining plate & Nut.
- 6) Move the Valve to the shut position.
- 7) Place the Diaphragm outside edge in the O-ring groove.
- 8) * Reverse the initial disassembly steps (1 to 3), replacing the O-ring seals (C) as necessary.

'B' Valve (left side view)

- 4) In order to replace the Diaphragm (D) on these models the spring Collar must be removed. Before proceeding, its position must be measured & noted, if similar operational performance is required after re-assembly.
 - 5) Remove 1x Nut, spring Collar, 2x more Nuts & Piston.
 - 6) Place the Diaphragm onto the Valve Stem and replace the Piston.
 - 7) Ensure the 2x Nuts, spring Collar & 1x Nut are reassembled positionally as previously noted (step 4) on their removal.
 - 8) Move the Valve to the open position.
 - 9) Place the Diaphragm outside edge in the O-ring groove.
 - 10) * Reverse the initial disassembly steps (1 to 3), replacing the O-ring seals (C) as necessary.
- * It is recommended that the Cover on the same side as the Diaphragm, is replaced first.

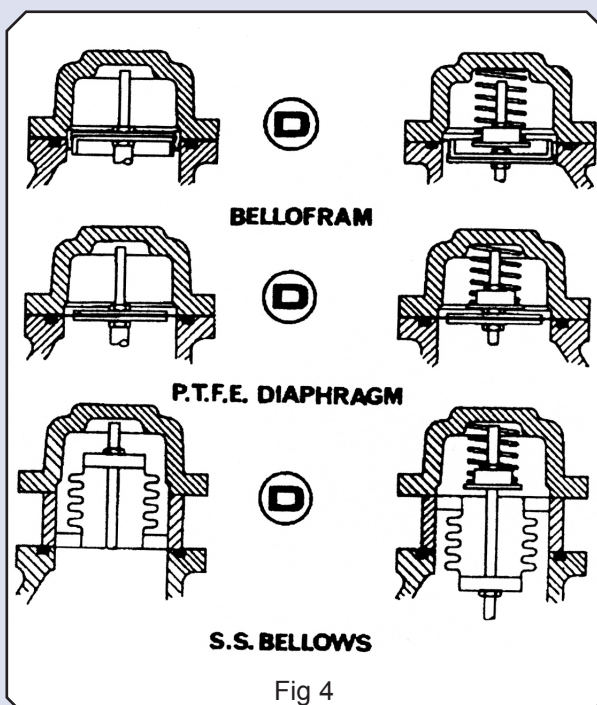


Fig 4

MAINTENANCE - MAJOR

After a considerable period of time, the Flostat may not operate satisfactorily for a number of reasons, due to the complexities of the process Fluid:

- 1) Erosion or Corrosion of the internal parts.
- 2) Hard deposits on the Valve stem causing drag on the Valve guides.
- 3) Loose or hard deposits in the flow passages or diaphragm chamber, clogging the instrument action.

Before attempting a major overhaul, it is advisable to contact RM&C for advice.

Service Component Spares Kits

Detailed below (for all sizes) are Service Kits containing the recommended spares' components. When ordering, It is advisable to quote the Order No. & Stock codes under which the Instrument was originally purchased, such that it can be confirmed the correct Service kit is supplied.

1/2" & 3/4" Models

Model Size	'A' Valve		'B' Valve	
	Brass Body	SS Body	Brass Body	SS Body
1/2"	FVAK0.5N	FVAK0.5P	FVBK0.5N	FVBK0.5P
3/4"	FVAK0.75N	FVAK0.75P	FVBK0.75N	FVBK0.75P

The above kits include the following components:

- 1) Gland Packing (A)
- 2) Diaphragm (B)
- 3) End Cover Gasket (C)
- 4) Vent Plug Seals (x2)

1 - 4" Models

Model Size	Brass Body	SS Body
1"	FVK1.0N	FVK1.0P
1.5"	FVK1.5N	FVK1.5P
2"	FVK2.0N	FVK2.0P
3"	FVK3.0N	FVK3.0P
4"	FVK4.0N	FVK4.0P

The above kits include the following components:

- 1) Gland Packing (B)
- 2) Gland Bush (B) (x2)
- 3) Diaphragm / Bellofram (D)
- 4) Vent Plug & Other Seals (x6)
- 5) End Cover O-Rings (C) (x2)

A Variable Orifice Butterfly (B) is available on special request.

Before returning any goods to RM&C you must obtain a Returns form containing a unique returns (CA) authorisation number. Failure to do so will result in the goods being returned to you, without any inspection, etc... To obtain this form, contact the Q.A. department of our Sheffield office and by return the form will be faxed to you.

On receipt of the Returns form, fill in any required fields and return it with the goods to the Sheffield office. It is advisable to keep a copy of this form (with authorisation no.) for reference purposes.

If the goods have come in contact with any processes or environments that may be harmful to a user, then COSHH Regulations must also be observed. It is requested that a Material Safety Data Sheet (MSDS) is also supplied with returned goods, if this is likely to be the case. If not provided and the goods are suspected of being contaminated, they will be returned to you.

On receipt of appropriate documentation the goods will be examined & assessed in accordance with the terms of any Warranty agreement.

Repairs

Prior to any repair work being carried out, you will be informed of our findings & any charges that may be incurred.

Replacements

Prior to the supply of any replacements, you will be informed of our findings & any charges that may be incurred.

No replacements will be sent prior to receiving the goods back from you, unless an Order number is supplied to cover the cost of the new unit/s. After inspection, etc.... of the returned goods a Credit may be issued, based on our findings

Warranty (extract from Terms & Conditions)

The warranty period is normally 12 months from the date of shipment, except as agreed at the time of sale.

Any misuse of the goods will void any warranty.

For full Warranty & other Contract details refer to our 'Terms & Conditions'.

Every effort has been made during the preparation of this document to ensure the accuracy of statements and specifications. However, we do not accept liability for damage, injury, loss or expense caused by errors or omissions made. We reserve the right to withdraw or amend products or documentation without notice.

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