MFP14, MFP14S and MFP14SS Pillar Replacement Spares Kit

Installation and Maintenance Instructions

1. Safety information

Safe operation of the unit can only be guaranteed if it is properly installed, commissioned and maintained by a qualified person in compliance with the operating instructions for pipeline and plant construction. The proper use of tools and safety equipment must also be complied with.

1.1 Handling

An integral lifting eye is fitted to the pump to assist lifting. On no account should this be used to lift anything more than the pump. Always use suitable lifting gear and ensure the pump is safely secured. When dismantling the pump care should be taken to prevent personal injury from the strong snap-action mechanism. Always handle with care.

1.2 Isolation

Consider whether closing isolating valves will put any other part of the system or personnel at risk. Dangers might include isolation of vents and protective devices or alarms. Ensure isolation valves are turned off in a gradual way to avoid system shocks.

1.3 Pressure

Before attempting any maintenance, consider what is or may have been in the pipeline. Ensure that any pressure is isolated and safely vented to atmospheric pressure before attempting to maintain the product. This is easily achieved by fitting Spirax Sarco depressurisation valves type DV (see separate literature for details). Do not assume that the system is depressurised, even when a pressure gauge indicates zero.

1.4 Temperature

Allow time for temperature to normalise after isolation to avoid the danger of burns and consider whether protective clothing (including safety glasses) is required.

1.5 Disposal

The product is recyclable. No ecological hazard is anticipated with the disposal of this Product, providing due care is taken.

Please visit the Spirax Sarco product compliance web pages
https://www.spiraxsarco.com/product-compliance
for up to date information on any substances of concern that may be contained within this product. Where no additional information is provided on the Spirax Sarco product compliance web page, this product may be safely recycled and/or disposed providing due care is taken. Always check your local recycling and disposal regulations.

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2. General information

This spares kit is for pillar replacement of:

- MFP14 DN25/50 (Kit p/n 1360189)
- MFP14 DN50/80 (Kit p/n 1360989)
- MFP14SS (Kit p/n 1360988).

3. Removal of the old pillar

3.1 Disconnect the steam inlet and exhaust pipework.

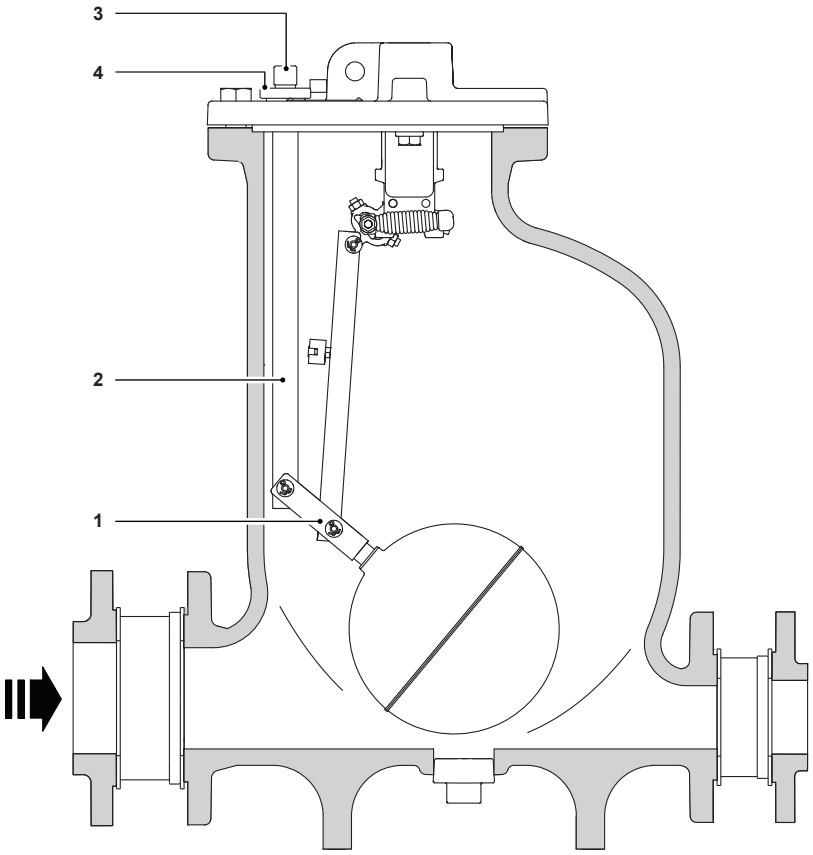
3.2 Remove the cover bolts and lift the cover from the body.

3.3 Remove the two split pins used to secure the float lever (**1**) to the pillar (**2**).

3.4 Unscrew the pillar cap by hand (**3**).

3.5 Using the lockring key and reaction arm tool on the pillar end, undo the lockring (**4**) and remove.

3.6 With the lockring fully removed, the pillar can now be removed from the underside of the cover.



4. Fitting of the new pillar

4.1 Slide the supplied O-ring into the groove on the replacement pillar.

4.2 Insert the pillar thread end first through the hole in the underside of the cover.
Ensure the pillar is orientated with the through hole (**4**) perpendicular to the float lever.

4.3 By hand, replace the lockring and hand tighten.

4.4 Using the lockring key tool and reaction arm, tighten the lockring to 80 Nm.
Care must be taken to ensure the pillar has not rotated away from its perpendicular position to the float arm.

4.5 Position the float arm lever over the pillar to align with the through-hole, insert the float arm shaft.

4.6 Place the 2 M6 washers either side of the float arm shaft, secure the float arm lever in place using the split pins.

4.7 Replace the cover gasket and place the cover back over the body, taking care to ensure its position is as originally aligned.

4.8 Torque tighten cover bolts to 121-134 N m (89 - 99 lbf ft).

4.9 Next re-connect the steam inlet and exhaust pipework.

