

Installation and Maintenance Manual

Single Orifice Float Trap with SLR / TV

SOFT53

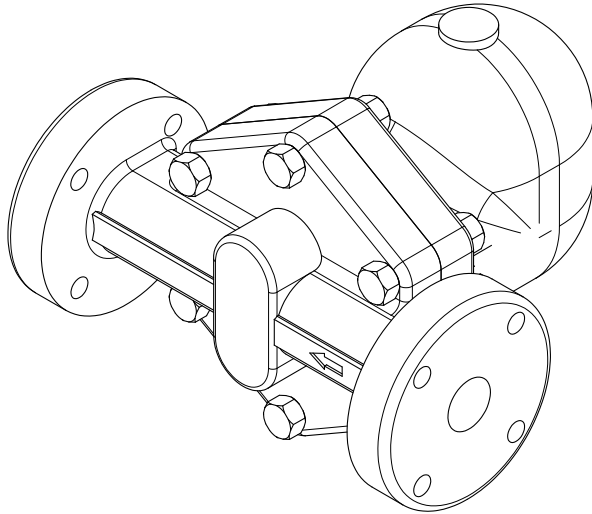


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PLEASE NOTE - Throughout this manual this cautionary symbol is used to describe a potential damage or injury that might occur if the safety considerations are overlooked. This symbol denotes CAUTION, WARNING or DANGER.



1. Preface:

This manual is intended for anyone using, commissioning, servicing, or disposing of the below mentioned products safely and efficiently.

Single Orifice Float Trap (with SLR / TV) [SOFT53]

Sizes: DN15 (1/2"), DN20 (3/4"), DN25 (1"), DN40 (1 1/2"), DN50 (2")

PLEASE NOTE:

Throughout this manual the following cautionary symbol is used to describe a potential damage or injury that might occur if the safety considerations are overlooked.

2. Important Safety Notes:



Read this section carefully before installing/operating/maintaining the product. The precautions listed in this manual are provided for personnel and equipment safety. Furthermore, Forbes Marshall accepts no responsibility for accidents or damage occurring as a result of failure to observe these precautions. Note that the product is designed to perform for non-contaminated fluids only. A contamination in the form of chemical, foreign particle etc. can lead to problem with product performance and life of the product.

If these products in compliance with the operating instructions are, properly installed, commissioned, maintained and installed by qualified personnel (refer Section 2.7) the safety operations of these products can be guaranteed. General instructions for proper use of tools and safety of equipments, pipeline and plant construction must also be complied with.

2.1 Intended use:

Check if the product is suitable for intended use/ application by referring to the installation and maintenance instructions, name plates and technical information sheets.

- i) The product is suitable for use as defined in the technical information sheet. In case the need arises to use the product on any other fluid please contact Forbes Marshall for assistance.
- ii) Check for the suitability in conformance to the limiting conditions specified in technical information sheet of the product.
- iii) The correct installation and direction of fluid flow has to be determined.
- iv) Forbes Marshall products are not intended to resist external stresses, hence necessary precautions to be taken to minimize the same.

2.2 Accessibility and Lighting:

Safe accessibility and working conditions are to be ensured prior to working on the product.

2.3 Hazardous environment and media:

The product has to be protected from hazardous environment and check to ensure that no hazardous liquids or gases pass through the product.

2.4 Depressurizing of systems and normalizing of temperature:

Ensure isolation and safety venting of any pressure to the atmospheric pressure. Even if the pressure gauge indicates zero, do not make an assumption that the system has been depressurized.

To avoid danger of burns allow temperature to normalize after isolation.

2.5 Tools and consumables:

Ensure you have appropriate tools and / or consumables available before starting the work. Use of original Forbes Marshall replacement parts is recommended.

2.6 Protective clothing:

Consider for the requirement of any protective clothing for you/ or others in the vicinity for protection against hazards of temperature (high or low), chemicals, radiation, dangers to eyes and face, noise and falling objects.

2.7 Permits to work:

All work to be carried out under supervision of a competent person. Training should be imparted to operating personnel on correct usage of product as per Installation and Maintenance instruction. "Permit to work" to be complied with (wherever applicable), in case of absence of this system a responsible person should have complete information and knowledge on what work is going on and where required, arrange to have an assistant with his primary goal and responsibility being safety. "Warning Notices" should be posted wherever necessary.

2.8 Handling:

There is a risk of injury if heavy products are handled manually. Analyze the risk and use appropriate handling method by taking into consideration the task, individual, the working environment and the load.

2.9 Freezing:

Provision should be made to protect systems which are not self-draining, against frost damage (in environment where they may be exposed to temperatures below freezing point) to be made.

2.10 Returning products:

Customers and Stockist are reminded that, when returning products to Forbes Marshall they must provide information on any hazards and the precautions to be taken due to contamination residues or mechanical damage which may present a health, safety or environmental risk.

This information must be provided in writing including Health and Safety data sheets relating to any substances identified as hazardous or potentially hazardous.

3. Brief Product Information:

3.1 Description:

The Forbes Marshall Single Orifice Float Trap SOFT53 is a condensate drain trap of cast steel body, cover and stainless steel internals.

3.2 Sizes and Pipe Connections:

DN 15, 20, 25, 40 and 50

Screwed BSPT / BSP/NPT / Socket weldable to ANSI B 16.11

Flanged ANSI B 16.5 class 150, 300, 600

BS Table H, J, K, R; DIN ND 10, 16, 25 and 40

Note:

- 1) Available with IBR certificate
- 2) DN 15 ASA 150 is available only with weld on flanges.
- 3) Flange thickness is common for each size as shown in dimensional details.

3.3 Available Types:

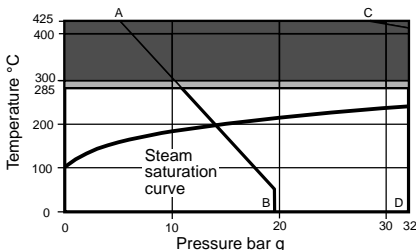
SOFT53 with built in Thermostatic Air Vent (TV)

SOFT53 with built in Steam Lock Release (SLR)

3.4 Limiting Conditions:

PMA Maximum allowable pressure	32 bar g @ 425°C	
TMA Maximum allowable temperature	425°C	
PMO Maximum operating pressure	32 bar g	
TMO Maximum operating temperature	300°C @ 32 bar g	
Minimum operating temperature	0°C	
ΔPMX Maximum Differential pressure	SOFT53-4.5	4.5 bar g
	SOFT53-10	10 bar g
	SOFT53-14	14 bar g
	SOFT53-21	21 bar g
	SOFT53-32	32 bar g
Cold hydraulic test pressure	64 bar g	

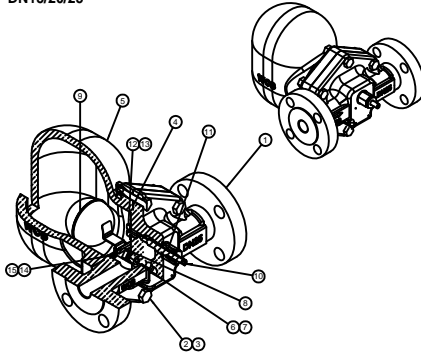
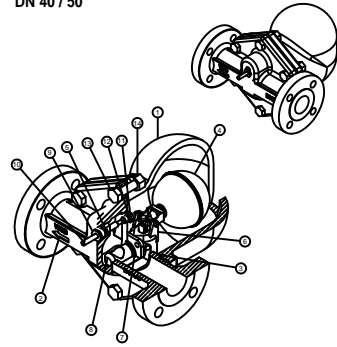
3.5 Operating Range:



A - B Flanged #150. C - D Flanged #300.

This product must not be used in this region.

This product should not be used in this region as damage to the internals may occur.

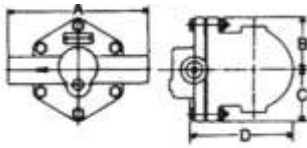
DN15/20/25

DN 40 / 50

Material (15-25 NB)

No.	Part	Material	Standard
1a.	Base flange 20-50 NB	Cast Steel	ASTM A216 Gr.WCB
1b.	Base Screwed/SWE 15-20 NB	Forged Carbon Steel	ASTMA105
1c.	Base Screwed/SWE 25 NB	Cast Steel	ASTM A216 Gr.WCB
2.	Bolts	Alloy Steel	ASTM A193 B7
3.	Nuts	Carbon Steel	ASTM A194 2H
4.	Cover Gasket	SS Reinforced Exfoliated graphite	
5.	Cover	Cast Steel	ASTM A216 Gr. WCB
6.	Valve Seat	Stainless Steel	ASTM A276 SS 410
7.	Valve Seat Gasket	Stainless Steel	ASTM A240 SS 410
8.	Pivot Frame Assly. Set Screws	Stainless Steel	IS-1364 SS304
9.	Ball Float & Lever	Stainless Steel	ASTM A240 SS304
10.	SLR Stem	Stainless Steel	ASTM A276 SS316
11.	Gland Packing	Graphite	
12.	SLR Seat	Stainless Steel	ASTM A743 CA40
13.	SLR Seat Gasket	Stainless Steel	ASTM A240 SS410
14.	Support Frame	Stainless Steel	ASTM A240 SS304
15.	Pivot Frame	Stainless Steel	ASTM A240 SS304

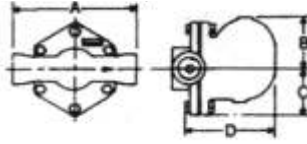
Material (40-50 NB)

No.	Part	Material	Standard
1.	Cover	Cast Steel	ASTM A216 Gr.WCB
2.	Base	Cast Steel	ASTM A216 Gr.WCB
3.	Gasket for Base and Cover	SS Reinforced Graphite	
4.	Float Unit Assembly	Stainless Steel	ASTM A240 SS304
5.	Gland Packing	Graphite	
6.	Valve Housing Assembly	Stainless Steel	BS 3146 ANC2
7.	Gasket for Valve Housing	SS Reinforced Graphite	
8.	Erosion Deflector	Stainless Steel	ASTM A276 SS 410
9.	Gland Nut	Stainless Steel	ASTM A743 GR. CA40
10.	SLR Stem	Stainless Steel	ASTM A276 SS316
11.	SLR Seat	Stainless Steel	ASTM A743 GR. CA40
12.	Gasket for SLR Seat	Stainless Steel	ASTM A240 SS 410
13.	Hex Bolt	Alloy Steel	ASTM A193 B7
14.	Hex Nut	Carbon Steel	ASTM A194 2H

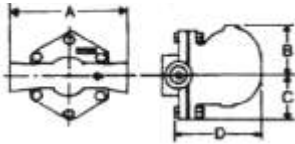
(SOFT53 DN15/20)



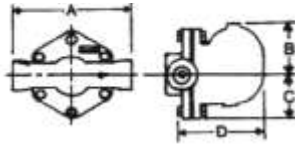
(SOFT53 DN25)



(SOFT53 DN40)



(SOFT53 DN50)



Dimensions (approx) in mm.

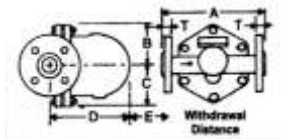
For Screwed / Socket Weld End and CLASS 600 FLG

Size (DN)	A	B	C	D	E	T*	W
15/20	230	84	84	172	120	23	10
25	240	119	88	225	160	24	13
40	350	131	124	250	200	29	25
50	335	134	123	250	200	32	31

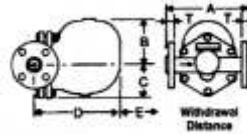
Gen Tol. ± 3

* For screwed/socket weldable ends: T = 0

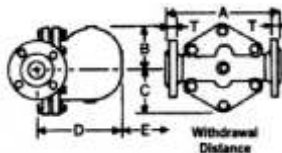
(SOFT53 DN 15/20)



(SOFT53 DN 25)



(SOFT53 DN 25)



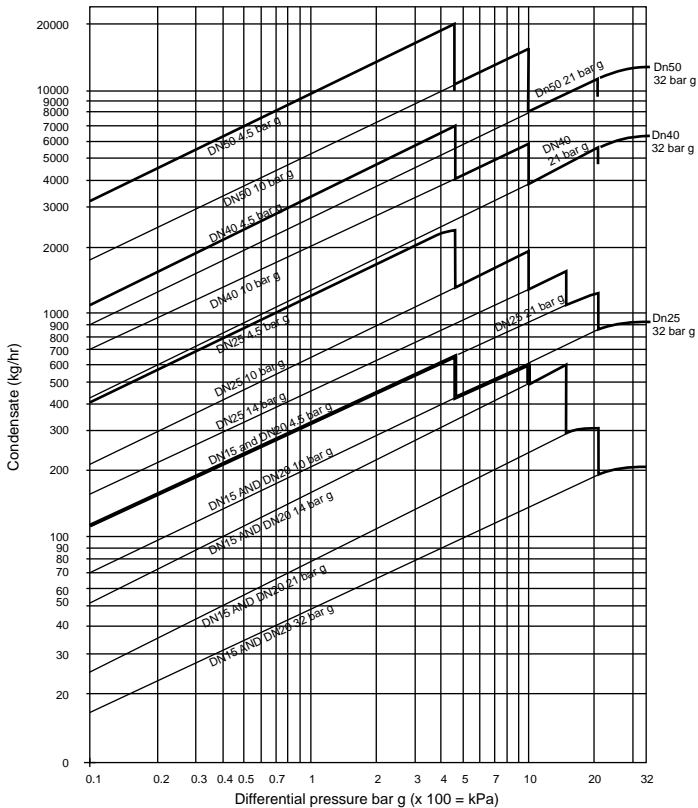
Dimensions - (approx) in mm.

All Flanged – (Except CLASS 600)

Size (DN)	A	B	C	D	E	T*	W
15/20	230	80	84	172	120	23	11
25	240	119	88	225	160	24	14
40	350	131	124	265	200	26	26
50	335	143	130	265	200	26	32

Gen.Tol. – 3

3.7 Capacity Chart:



4. Product Working Principle : (Refer to Figure 4)

Figure 4 shows a simple float trap operational representation. A float trap works on the Buoyancy Principle. Condensate enters the trap body and raises the float (1). The position of the float (1) depends upon the level/load of condensate (flowrate). The float trap continues to discharge condensate continuously and doesn't allow back up of condensate as long as the load is within the discharge capacity.

When the condensate load drops, the float (1) lowers in position and closes the outlet valve (3) with the ball (6) resting on the orifice (7).

SLR (4) is a needle valve which releases steam that can steam lock the trap during start-up or in operation if the steam reaches the trap before the condensate.

On the start up the air present in the pipeline/process equipment is released through the thermostatic vent (5).

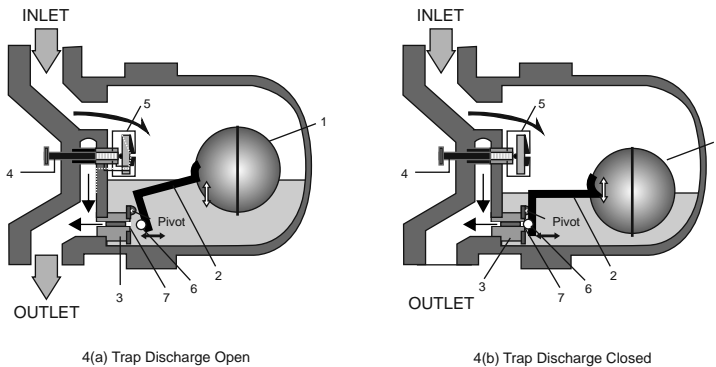


Figure4: Float trap working

*The trap in the figure 4 shows a TV + SLR assembly. SOFT53 comes with only TV or SLR assembly.

5. Installation Guidelines : (Refer to Figure 5, 6, and 7)



Note: Before implementing any installations observe the 'Important Safety notes" in section 2. Referring to the Installation and Maintenance Instructions, name-plate and Technical Information Sheet, check that the product is suitable for the intended installation.

Installation checks and steps:

1. Check the correct installation location/position and the direction of fluid flow.
2. Remove protective covers from all connections where appropriate, before installation.
3. Ensure the availability of all components as shown in Figure 5, to ensure the operation of the trap.

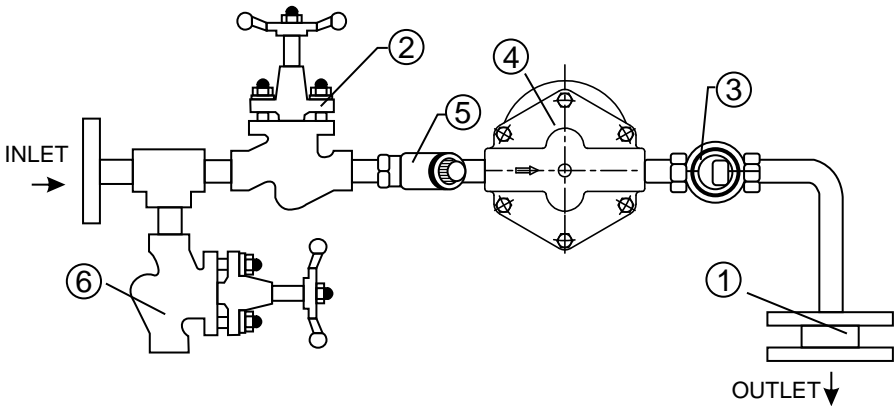


Figure5: Single Orifice Float trap module

*Typical/ Representative Installation and may vary based on application and site.

Item No.	Description
1	Spring Loaded Check Valve
2,6	Stop Valve
3	View Glass
4	Single Orifice Float Trap
5	Strainer

- If the trap is to discharge to atmosphere ensure it is to a safe place, the discharging fluid may be at a temperature of 100 °C (212°F).
- Install the trap such that the arrow on the name plate points downward to achieve proper orientation of the trap.

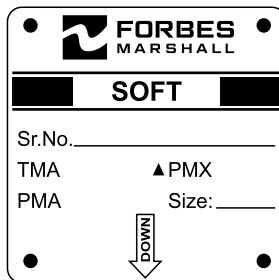


Figure6: Single Orifice Float trap name plate

- The arrow on the casting should be in the direction of the flow.

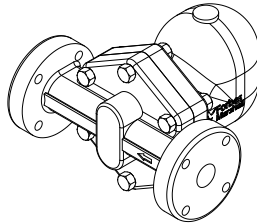


Figure7: Cover casting with the arrow

6. Start-up and Commissioning :

6.1 Flushing of Lines : (Refer to Figure 5)

As part of pre-installation all fluid handling equipment particularly piping should be thoroughly cleaned of scale and the internal debris which accumulates during construction. This is accomplished by blowing or flushing with air, steam, water and other suitable medium.

Follow these steps to carry out the flushing.

1. Close the stop valve (2) and open the bypass stop valve (6).
2. Let the condensate drain for 10-15 minutes or until clear condensate starts coming out, whichever is earlier.
3. Now slowly close the bypass stop valve (6) and open the stop valve (2).

6.2 Commissioning : (Refer to Figure 5)

After installation or maintenance ensure that the system is fully functioning by confirming condensate is passing through it.

- i) After flushing of lines is complete, ensure stop by-pass valve (6) closed and stop valve (2) opened.
- ii) Check for leaks and attend if any.

6.3 Setting of Steam Lock Release (SLR) : (Refer to Figure 8)

1. Loosen the gland nut (1) by one thread
2. Rotate the stem (2) in clockwise direction. This moves the stem (2) towards SLR seat.
3. Once the stem touches the SLR seat, rotate the stem (2) in anti-clockwise direction by 1/4th of a turn.
4. Check for normal discharge pattern and leaks if any.

Note: The SLR unit should only be used to prevent 'steam locking' and therefore is designed to pass a small amount of steam, it is not recommended that the SLR be left in the fully open condition as this may lead to premature trap failure and more frequent maintenance schedules.



Figure 8: SLR setting

7. Maintenance Guidelines:



Before undertaking any maintenance on the product it must be isolated from both supply line and return line and any pressure should be allowed to safely normalise to atmosphere. The product should then be allowed to cool. With suitable isolation repairs can be carried out with the product in the line. When re-assembling, make sure that all joint faces are clean. Once completed open isolation valves slowly and check for leaks.

7.1 Routine and preventive maintenance:

Please refer to the maintenance schedule mentioned in the table below to undertake routine maintenance of the trap.

Sr.No	Parameters to be checked	Frequency for checking and maintaining						
		Immediately	Daily	Weekly	Monthly	Quarterly	Half yearly	Annually
	Single Orifice Float Trap							
1	Test High pressure SOFT53 (17.5 barg & above)		Y					
2	Repair / Replace SOFT53 when testing shows leaks	Y						
3	Clean strainers of Single Orifice Float Traps				Y			
4	Clean internals of Single Orifice Float Traps					Y		
5	Visual inspection for leakages		Y					
6	Arresting any other leaks	Y						

7.2 Tool Kit:

To carry out any maintenance on the trap please use the tools mentioned below:

Trap Size	Components	Tool	Tool Size	
DN15 / DN20 /DN25	SLR Seat	Box spanner	17 mm (A/F)	
	Valve assembly	Box spanner	17 mm (A/F)	
	SLR body	Slot screw driver		
	Body cover tightening	Box spanner	16 or 17 mm (A/F)	
	Float trap assembly adjustment		Hammer	
			Seat punch	
		Screw driver		

Trap Size	Components	Tool	Tool Size
DN40	SLR seat	Box spanner	17 mm (A/F)
	Float Unit Assembly :	Screw driver	
		Seat punch	
		M8 box spanner, M6 thread	
		Allen key	3mm
		Plier	1No
		Ball punch	
		Hammer	
	Tightening of Float Unit Assembly to the body	Open / ring spanner	10mm (A/F)
Gland nut	Box spanner	22mm (A/F)	
M10 bolts for outside covering (6 bolts)	Box spanner	24 mm (A/F)	
DN50	SLR seat,	Box spanner	17 mm (A/F)
	SLR stem	Screw driver	6mm
	Float Unit Assembly :	M8 box spanner, M6 thread	
		Allen key	3mm
		Plier	1No
		Ball punch	
		Hammer	
	M8 stud runner for Float Unit Assembly to the body	Box spanner	13mm (A/F)
	Gland nut	Box spanner	22mm (A/F)
For outside cover of float trap	Box spanner	24mm (A/F)	

7.3 Recommended tightening torques:

Components	Torque Range
SLR seat	45-55 Nm
SLR body	60-70 Nm
Tightening of Float Unit Assembly to the base plate	35 Nm
M10 Bolt for outside covering	25-35 Nm

7.4 Maintaining/ Replacing the main valve assembly: (Refer Figure 9)

For DN 15 / 20 / 25:

1. Unscrew cover bolts (1) and lift off the cover (11).
2. Dismantle the pivot pin and remove the float (4).
3. Unscrew the assembly set screws (5), and dismantle the pivot frame (6).
4. Remove the main valve seat (7) along with the metal gasket (8).
5. Replace the main valve assembly (9) and the gasket (10) with a new one.
6. Fit support frame and pivot frame (6) by using two set screws (5) but do not tighten fully.
7. Place the float arm and complete the assembly by placing the pin (3).
8. Now tighten the set screws (5).
9. Refit the cover (11) by using the cover bolts (1).

For DN 40 / 50:

1. Unscrew cover bolts (1) and lift off the cover (11).
2. Unscrew main valve assembly nuts, and dismantle the main valve assembly.
3. Remove the deflector plate.
4. Replace the assembly (3) and gaskets (4) with new ones.
5. Place back the deflector plate and refit the assembly.
6. Put the cover (11) back in base (2) ensuring dowel (14) in correct position and tighten the cover bolts with recommended torques .

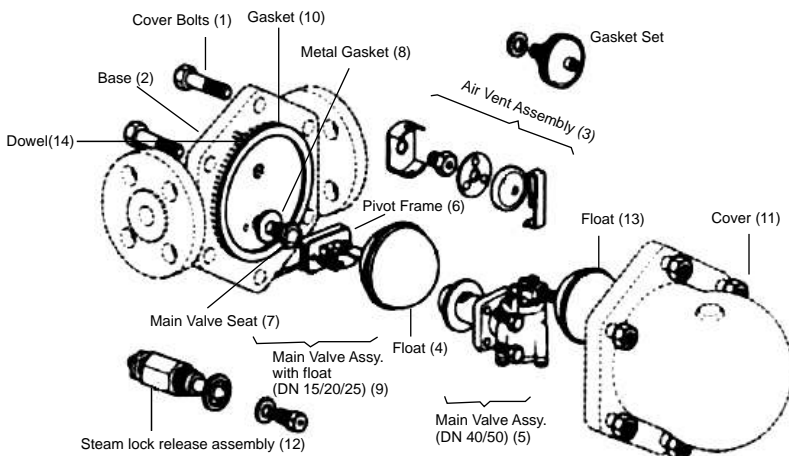


Figure9: Maintaining the main valve assembly

7.5 Procedure to fit the steam lock release (SLR) assembly : (Refer to Figure 10)

1. Unscrew the complete SLR assembly.
2. Remove the SLR gasket (not shown in the figure 10).
3. Replace the SLR assembly and gasket with new ones.
4. Reset the SLR.

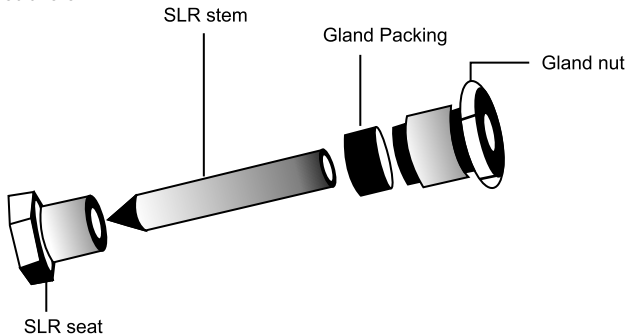


Figure 10: SLR assembly

7.6 Inspection and maintenance of air vent assembly: (Refer to Figure 11)

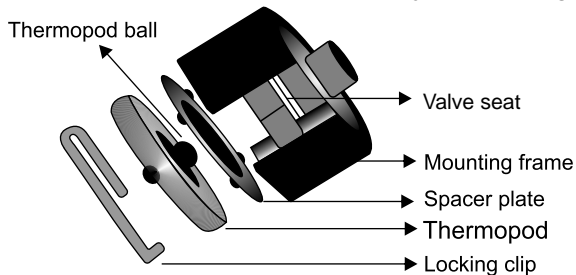


Figure11: Maintaining the air vent assembly

1. Remove locking clip, thermopod and spacer plate.
2. Fit new gasket between mounting frame and body of the trap. (not visible in the figure 11), valve seat and mounting frame.
3. Assemble spacer plate, thermopod and fit locking clip.

7.7 Steam trap testing:

Following methods can be used to determine the operating condition of a trap and determine if its working properly:

1. Testing traps through visual inspection.
2. Testing traps using temperature gun/equipment.
3. Testing traps using sound/ultrasound.
4. Testing traps through online monitoring.

8. Troubleshooting:

If the expected performance is unachievable after the installation of the single orifice float trap, check the following points for appropriate corrective measures.

Failure Mode	Possible Cause	Remedy
Not discharging at all	No condensate is discharged, and the surface temperature of the trap is low.	Check the installation. Check for the flow direction arrow on the cover casting and the name plate arrow on the base casting.
		Check for blockage in the strainer.
		If the actual differential pressure is higher than the design ΔP , the steam trap would have failed in closed position as the float buoyancy will not be adequate to open the valve seat.
		Check for the valve and seat assembly for blockage.
	Check if the ball float is punctured, if so replace it. Post replacement, check for water hammering in process to avoid reoccurrence.	
	No condensate is discharged, and the surface temperature of the trap is high.	The trap is getting steam locked. Adjust the steam lock release setting by first closing it fully and then opening it by 1/4th turn.
Leaking steam	Live steam continuously leaking through the outlet.	Check the installation. The arrow on the name plate should point downwards.
		Check valve and seat assembly for any deposition and clean it.
		<ul style="list-style-type: none"> i) Clean and lap the seating area. ii) Lightly stamp an SS ball on the seating area.
	Check for SLR leakage/setting check for air vent leakage.	
	Steam leaking from the trap body.	Tighten the cover nuts and bolts to the recommended torque.
	Check the gasket for any possible damage and replace it if required.	

Failure Mode	Possible Cause	Remedy
Not discharging enough condensate.	Reduced condensate carrying capacity of the trap.	Check parameters and trap sizing. The trap will not discharge enough condensate if the actual size is below the recommended size based on the condensate load.
		<p>Check for back pressure and corresponding discharge capacities as per the capacity charts.</p> <ul style="list-style-type: none"> i) Replace/repair the leaking and non-working traps with working traps, the leak traps may create/increase the back pressure on the other working traps connected to the same return line or, ii) if there are more than one trap discharging in a single condensate return line, then ensure all the traps have an NRV installed on the outlet of each trap or, iii) ensure all the by-pass valve are closed, if by-pass valve is leaking or if it is kept open in closed loop condition which creates/increases back pressure on the other working traps, connected to the same return line.
	Flooding of condensate.	Check whether the inlet strainer is partially blocked.
		Check thermostatic valve seat orifice for blockage. If blocked, clean and lap.
		Check main valve seat orifice for blockage. If blocked, clean and lap.

Available Spares: (Refer to Figure 9)

The spare parts available are given in the following table.

9.1 Spares for DN 15/20/25:

Product	SPARE TYPE	SPARE CONSIST OF	SPARE SPECIFICATION	SPARE CODE
FMSOFT53	MAIN VALVE ASSEMBLY KIT	SEAT , GASKET , PIVOT FRAME , PIN , SCREWS & FLOAT	15/20NB 4.5 BAR(G)	SPARE-1520SOFT53-4.5MVKIT
			15/20NB 10.0 BAR(G)	SPARE-1520SOFT53-10MVKIT
			15/20NB 14.0 BAR(G)	SPARE-1520SOFT53-14MVKIT
			15/20NB 21.0 BAR(G)	SPARE-1520SOFT53-21MVKIT
			15/20NB 32.0 BAR(G)	SPARE-1520SOFT53-32MVKIT
			25NB 4.5 BAR(G)	SPARE-25SOFT53-4.5MVKIT
			25NB 10.0 BAR(G)	SPARE-25SOFT53-10MVKIT
			25NB 14.0 BAR(G)	SPARE-25SOFT53-14MVKIT
			25NB 21.0 BAR(G)	SPARE-25SOFT53-21MVKIT
			25NB 32.0 BAR(G)	SPARE-25SOFT53-32MVKIT
	FLOAT KIT	BALL FLOAT & COVER/BASE GASKET (QTY 1 EACH)	15/20NB 4.5 BAR(G)	SPARE-1520SOFT53-4.5FKIT
			15/20NB 10.0 BAR(G)	SPARE-1520SOFT53-10FKIT
			15/20NB & 14.0 BAR(G)	SPARE-1520SOFT53-14FKIT
			15/20NB & 21.0 / 32.0 BAR(G)	SPARE-1520SOFT53-32MVKIT
			25NB & 4.5 BAR(G)	SPARE-25SOFT53-4.5FKIT
			25NB & 10.0 BAR(G)	SPARE-25SOFT53-10FKIT
			25NB & 14.0 BAR(G)	SPARE-25SOFT53-14FKIT
			25NB & 21.0 BAR(G)	SPARE-25SOFT53-21FKIT
			25NB & 32.0 BAR(G)	SPARE-25SOFT53-32FKIT
	AIR VENT ASSEMBLY	VALVE SEAT, MOUNTING	15 / 20 /25 /40 /50 NB	SPARE-1550SOFT53-AIRVKIT
	SLR KIT	SLR SEAT, GLAND PACKING, SLR STEM & GLAND NUT	15/20/25NB , SLR WITH SEPARATE BODY	SPARE-152025SOFT53-SLRBKIT
			25NB , SLR WITH SEPARATE BODY	SPARE-25SOFT53-SLRKIT

9.2 Spares for DN 40/50 :

Product	SPARE TYPE	SPARE CONSIST OF	SPARE SPECIFICATION	SPARE CODE
FMSOFT53	VALVE HOUSING ASSEMBLY KIT	MAIN VALVE ASSEMBLY , GASKET , DIFLECTOR , STUDS/NUT & FLOAT	40NB 4.5 BAR(G)	SPARE-40SOFT53-4.5VHKIT
			40NB 10.0 BAR(G)	SPARE-40SOFT53-10VHKIT
			40NB 14.0 BAR(G)	SPARE-40SOFT53-14VHKIT
			40NB 21.0 BAR(G)	SPARE-40SOFT53-21VHKIT
			40NB 32.0 BAR(G)	SPARE-40SOFT53-32VHKIT
			50NB 4.5 BAR(G)	SPARE-50SOFT53-4.5VHKIT
			50NB 10.0 BAR(G)	SPARE-50SOFT53-10VHKIT
			50NB 14.0 BAR(G)	SPARE-50SOFT53-14VHKIT
			50NB 21.0 BAR(G)	SPARE-50SOFT53-21VHKIT
	50NB 32.0 BAR(G)	SPARE-50SOFT53-32VHKIT		
	AIR VENT ASSEMBLY KIT	VALVE SEAT, MOUNTING FRAME, SPACER PALTE, THREMOPOD & LOCKING CLIP	15 / 20 /25 /40 /50 NB	SPARE-1550SOFT53-AIRVKIT
	GASKET KIT	COVER/BASE GASKET (PACK OF 3 NOS.)	15/20/25NB	SPARE-152025SOFT53-GKIT
			40NB	SPARE-40SOFT53-GKIT
FLOAT KIT	BALL FLOAT & COVER/BASE GASKET (QTY 1 EACH)	FOR SIZE – 40NB & ALL DELTA P	SPARE-4050SOFT53-FKIT	
		FOR SIZE – 50NB & ALL DELTA P	SPARE-4050SOFT53-FKIT	
SLR KIT	SLR SEAT, GLAND PACKING, SLR STEM & GLAND NUT	40NB , SLR WITH INTEGRAL BODY	SPARE-40SOFT53-SLRKIT	
		50NB , SLR WITH INTEGRAL BODY	SPARE-50SOFT53-SLRKIT	

How to Order Spares

Always order spares using the description given in the column above, headed “Available Spares”, and stating the size and type and differential pressure of the trap. For codes refer the user manual.

Warranty Period:

As per the ordering information and agreements in the contract.

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