

SOFT53-X

Single Orifice Float Trap with TV

Description

The Forbes Marshall Single Orifice Float Trap, SOFT53-X, is a carbon steel single orifice float trap with an integral automatic air venting facility. It is available with horizontal flanged connections only.

Sizes and Pipe Connections

DN100

Flanged: ANSI B 16.5 CLASS 150, CLASS 300

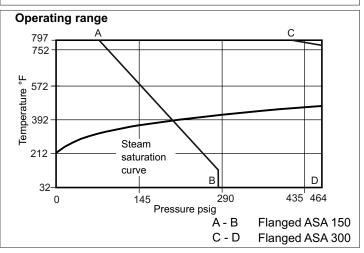
Note: Available with IBR certificate

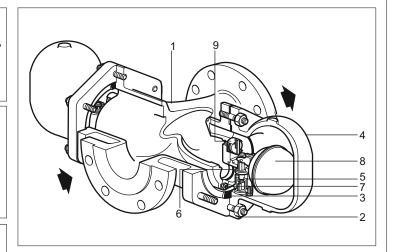
Available Types

SOFT53-X with built-in thermostatic air vent

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	Limiting Conditions						
	PMA Maximu	ım allowable press	32 bar g @ 425°C				
	TMA Maximu	ım allowable tempe	425°C				
	Minimum ope	erating temperature	0°C				
	END MAX OPERATING PRESSURE (PMO)			MAX OPERATING TEMPERATURE(TMO)			
	CLASS 150	13 bar g @ 220 de	g C	220 deg C @ 13 bar g			
	CLASS 300 32 bar g @ 410deg C			425 deg C @ 28.8 bar g			
	ΔPMX Maximum Differential pressure						
	SOFT53-X-4.5 4.5 bar g						
	SOFT53-X-10			10 bar g			
	SOFT53-X-14			14 bar g			
		21 bar g					
	SOFT53-X-32			32 bar g			
	Cold hydraulic test pressure (Without internals)		1.5 tim	es Max operating Pressure			

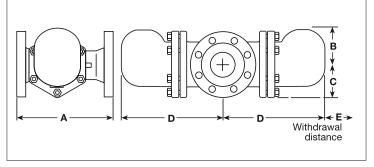
Dimensions (approx.) in mm						
Size	Α	В	С	D	E	Weight
DN 100	365	140	123	390	250	110kg

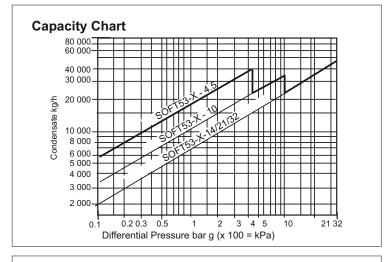




Materials

No.	Part	Material	Standard
1.	Base	Cast Steel	ASTM A216 Gr. WCB
2.	Cover	Carbon Steel	B7 and 2H
	studs and nuts		
3.	Cover gasket Reinforced exfoli		ated graphite
4.	Cover	Cast Steel	ASTM A216 Gr. WCB
5.	Main valve	Stainless Steel	
	assembly		BS 3146 Pt. 2 ANC 2
6.	Main valve	Reinforced	
	assembly gasket exfoliated graphite		
7.	Main valve	Stainless steel	ASTM A276
	assembly studs	Type 431	
8.	Ball float	Stainless Steel	ASTM A240
		Type 304	
9.	Air vent	Stainless Steel	_
	Assly.	Type 304	





Installation

The trap must be fitted with the float arm in a horizontal plane so that it rises and falls vertically with the direction of flow indicated on the base.

How to Specify

DN 100 SOFT53-X-4.5 steam trap flanged ASA 300

Maintenance: Before undertaking any maintenance on the trap, it must be isolated from both supply and return line and any pressure allowed to safely normalise to atmosphere. The trap should then be allowed to cool. Maintenance can then ensure that all joint faces are clean and that the dowels locate fully in the covers. Once completed, open isolation valves slowly and check for leaks.

How to fit Main Valve Assembly

Remove cover nuts and cover. Undo nuts and remove complete main valve assembly and replace with new assembly and tighten nuts. Reuse or replace ball float as required. Replace cover ensuring the dowels are located correctly. Retighten cover nuts evenly to the specified torque. Always use new gaskets.

How to Fit Air Vent Assembly

Remove spring clip, capsule, spacer plate and unscrew seat. Fit new seat and frame, assemble spacer plate, fit new capsule and clip.

Spare Parts

The spare parts available are shown in heavy outline in the figure below. Parts drawn in broken lines are not supplied as spares.

Available Spares

*Main Valve Assembly	5,6,7
*Ball Float	8
Air Vent Assembly	9
*Set of all Gaskets	3,6

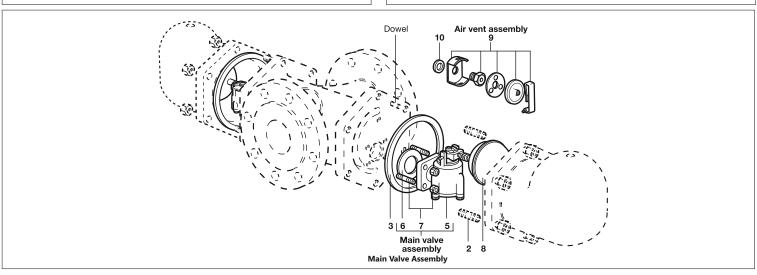
*The spares thus marked are interchangeable with those used in the DN50 SOFT53 trap but 2 sets will be required for completely refurbishing the DN100 SOFT53-X trap.

How to Order Spares

Always order spares by using the description given in the column headed 'Available Spares' in the table above and stating the size and type of trap. Example:- Air Vent Assembly for DN100 SOFT53-X 4.5 bar steam trap flanged to ASA 300.

Recommended Tightening Torques

Part description	Torque (Nm)
1. TV Seat	5 - 55
2. Valve Housing (Studs)	15 - 20
3. Cover Bolts	70 - 80





www.forbesmarshall.com

Forbes Marshall Arca

Codel International

Krohne Marshall

Forbes Vyncke

Forbes Marshall Steam Systems

A: Forbes Marshall Pvt. Ltd.

Opp. 106th Milestone, CTS 2220, Mumbai-Pune Road, Kasarwadi, Pune MH 411034 INDIA

P: +91(0)20-68138555

F: +91(0)20-68138402

Forbes Marshall International Pte. Ltd.

16A, Tuas Avenue 1, #05-21, JTC Space @Tuas Singapore - 639533

P: +65 6219 3890

CIN No: U28996PN1985PTC037806

: ccmidc@forbesmarshall.com

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