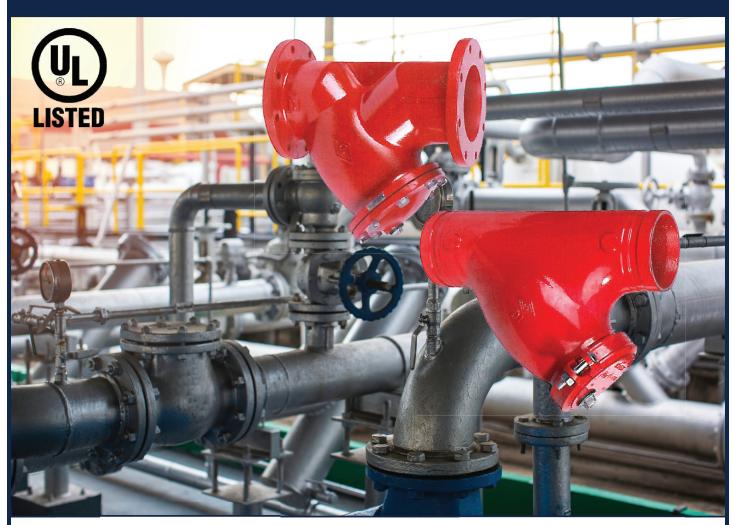
Installation and Maintenance Manual

Model 3800-F & 3800-G

Flange & Grooved "Y" Strainer





I. General Introduction

Thank you for choosing our strainers.

Strainers are generally composed of strainer body, screen, bonnet, gasket, bolts and nuts. These are mainly applied before pressure reducing valves, pressure relief valves, atmospheric valves, hydraulic control valves as well as other equipment, serving to filter out the impurities in the flow medium, for protection of valves and equipment in the piping system. Medium through the strainer can be water, oil, or gas.

Solid impurities in the flow medium shall be screened out when pass through the strainer, in this way, it protects the equipment in the piping system from the corrosion, abrasion or wearing of impurities.

II. Property Specifications

Rated Working Pressure	300 PSI, 200PSI and 250PSI available	
	upon request	
Norminal Diameter(DN)	50~300mm	
Test Pressure (Shell Test)	2 times o rated working pressure	
Working Temperature	-10°C- 200°C Graphite Gasket	
	0°C-100°C Rubber Gasket	
Medium	Water, oil, or gas	
Coating	Fusion Bonded Epoxy Coating in	
	accordance with	
	ANSI/AWWA C550	

III. Structure Design & Product Feature

Illustration of the General Features of the Valve (for reference only)





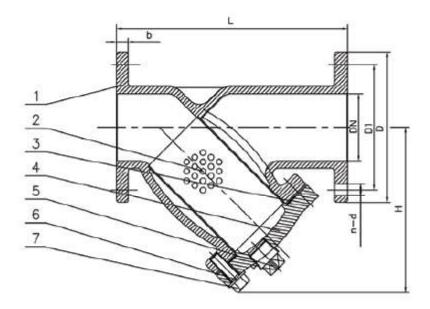
Product Features

- 1) Compact design and easier handling of installation;
- 2) High filtering quality and efficiency;
- 3) Low maintenance cost;
- 4) Large impurities storage capacity;
- 5) Small friction loss;

Flange Connection Options:

ANSI/ASME B16.1 CL125 or EN1092-2: PN10/16, depending on client request.

IV. Material Specification and Dimensions



Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536 65-45-12	
2	Screen	AISI 304 (Perforated)	AISI 304, AISI 316 (Perforated, Knitted, Double Screen)
3	Gasket	Graphite + Acanthopore Plate	EPDM
4	Bonnet	ASTM A536 65-45-12	
5	Plug	Malleable Iron Galvanized	Bronze ASTM B584
6	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
7	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

D	N	Dimensions (mm)					
Inch	mm	L	D	D1	b	n-Фd	Н
2"	50	200	152	120.5	16	4-Ф19.1	155
2.5"	65	254	178	139.5	17.5	4-Ф19.1	165
3"	80	257	191	152.5	19	4-Ф19.1	180
4"	100	308	229	190.5	24	8-Ф19.1	229
5"	125	397	254	216	24	8-Ф22.2	285
6"	150	470	279	241.5	25.5	8-Ф22.2	311
8"	200	549	343	298.5	28.5	8-Ф22.2	394
10"	250	654	406	362	30.5	12-Ф25.4	487
12"	300	759	483	432	32	12-Ф25.4	547

V. Storage, Installation & Maintenance

- a) The strainers are to be stored in dry cool conditions in the warehouses with good ventilation. The ends of the strainers are to be properly protected with caps from the intrusion of dirt and other foreign stuff.
- b) Items should be checked regularly when storage for long time.
- c) Check the marking and the qualifications before installation of the strainer.
- d) Strainers are usually installed before pumps, feeding valves, control valves, meters, steam traps, turbine, air compressor, magnetic valve, pressure reducing valve, spout, stabilizer, combustion furnace, heating assembly and other sensing equipment. The screen (perforated screen or mesh screen) of the strainer filters out the impurities in the flow medium and thus protects the equipment.
- e) Before installation of the strainer, the threading connections in the piping system should be well cleaned, and the threading sealant or PTFE liner should be properly applied. The threading ends should not be applied with threading sealant or PTFE liner, in case that these will enter into the flow medium.
- f) Strainers can be installed horizontal or vertical.
- g) Strainers should be cleaned within 7days after the piping system starts to run, in order to get rid of the impurities deposited on the screen. Later, the strainers also need to be cleaned on a regular time schedule, frequency of which depends on the working condition.

Note: Before maintenance and cleaning of the strainer, it should be cut from the pressure system, and the sealing gasket should be replaced each time for maintenance. Screen of the strainer should be check once or twice a year.

VI. Common Problems and Proposed Solutions

Possible Problems	Possible Causes	Proposed Solutions	
Leakage through the sealing surface	The seal face with sundries	Clear away the sundries	
	Sealing surface damage	Change the wedge	
	Seal ring damage	Seal ring damage	
Valves blocked	Clapper arm crooked	Stop the medium, remove the	
	Joint wearing out	valve and repair or replace the	
	Arm distorted or broken	parts	
	The water hammer broken	In the early fatigue defects, valve	
	valve	used beyond life expectancy	
Damage of valve body and	Fatigue damage	should be replaced	
bonnet		water medium should be ruled	
	Frost crack	out in the winter when the	
		valves are not used	
Leakage through the jointing	Bolts and nuts are not fully or evenly tightened	Tighten the bolts properly	
of valve body and bonnet	Seal ring damage	Change the seal ring	

VII. Quality Assurance

- The valve quality is guaranteed for 18 months since valves are shipped out of factory.
 Manufacturer is responsible for the material defects and quality issue happens in normal operation and using conditions and not for the improper installation, maintenance, and modification.
- 2. When quality problems are found, should inform manufacturers, manufacturers maintain the rights of investigating these issues.
- 3. What should the manufacturers ensure are limited to the following conditions:
 - material repair costs
 - replacing parts and material cost
 - to compensate users purchasing cost
- 4. Manufacturer is not liable of the damages caused by unexpected natural disasters such as earthquake, typhoon, etc. beyond the valve itself defects.
- 5. Beyond the limits of other guarantee, agreed by the user and the manufacturer.

VIII. Service

- 1. If stipulated in the contract, the factory can provide on-site installation and debugging.
- 2. Quality tracking should be provided by the manufacturer and other services should also be offered according to customers' requirements.