

JM-I-S-V4002-01

Revision (2) Apr.6th, 2019

For Series: V4,V43

Installation & Maintenance Instruction

For Flanged Y Type Strainer

Jinan Meide Casting Co., Ltd.

地址：中国济南市平阴县城南门路3号 250400 电话(Tel): 008653187879384

ADDRESS: No. 3 Nanmen Road, Pingyin, Jinan, China 250400 传真(Fax): 008653187879387



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.

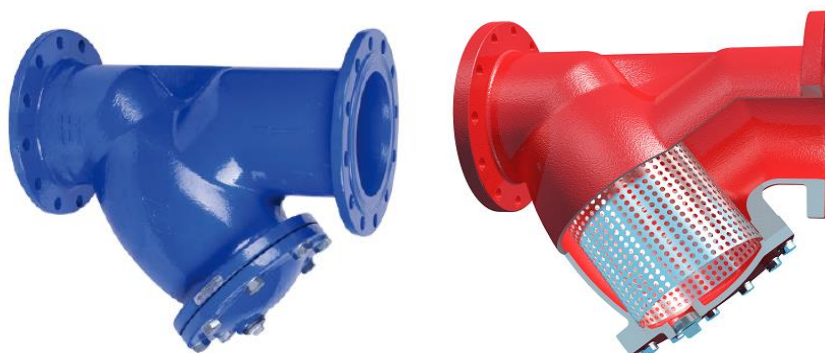
Solid impurities in the flow medium shall be screened out when pass through the strainer, in this way, it protects the equipment in the piping system from the corrosion, abrasion or wearing of impurities.

II. Property Specifications

Rated Working Pressure	PN10/16
Normal Diameter(DN)	15~600mm
Test Pressure (Shell Test)	2 times of rated working pressure
Working Temperature	-10℃ - 200℃ Graphite Gasket 0℃ - 100℃ 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;

地址：中国济南市平阴县城南门路3号 250400 电话(Tel): 008653187879384

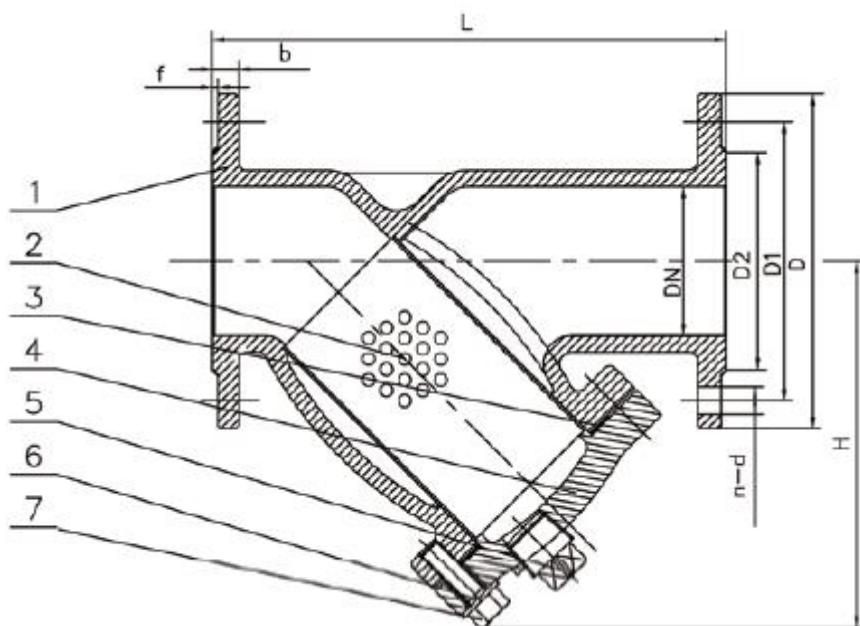
ADDRESS: No. 3 Nanmen Road, Pingyin, Jinan, China 250400 传真(Fax): 008653187879387

- 3) Low maintenance cost;
- 4) Large impurities storage capacity;
- 5) Small friction loss;

Flange Connection Options:

EN1092-2: PN10/16, or depending on client request.

IV. Material Specification and Dimensions



Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Screen	SS304 (Perforated)	SS304, SS316 (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	SS304, SS316
7	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316

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

DN		PN	Dimensions(mm)							
Inch	mm		L	D	D1	D2	b	n-Φd	f	H
1/2"	15	10/16/25	130±2	95	65	45	14	4-Φ14	2	59
3/4"	20	10/16/25	150±2	105	75	56	16	4-Φ14	2	68
1"	25	10/16/25	160±2	115	85	65	16	4-Φ14	3	70
1 1/4"	32	10/16/25	180±2	140	100	76	18	4-Φ19	3	86
1.5"	40	10/16/25	200	150	110	90	19	4-Φ19	3	140
2"	50	10/16/25	230	165	125	99	19	4-Φ19	3	140
2.5"	65	10/16	290	185	145	118	19	4-Φ19	3	175
		25						8-Φ19		
3"	80	10/16/25	310	200	160	132	19	8-Φ19	3	198
4"	100	10/16	350	220	180	156	19	8-Φ19	3	229
		25		235	190			8-Φ23		
5"	125	10/16	400	250	210	184	19	8-Φ19	3	287
6"	150	10/16	480	285	240	211	19	8-Φ23	3	304
		25		300	250		20	8-Φ28		
8"	200	10	600	340	295	266	20	8-Φ23	3	370.5
		16						12-Φ23		
		25						12-Φ28		
10"	250	10	730	405	350	319	22	12-Φ23	3	469
		16			355			12-Φ28		
		25			425	370	24.5	12-Φ31		
12"	300	10	850	460	400	370	24.5	12-Φ23	4	540
		16			410			12-Φ28		
		25			485	430	27.5	16-Φ31		
14"	350	10	838	520	460	429	26.5	16-Φ23	4	625
		16			470			16-Φ28		
16"	400	10	864	580	515	480	28	16-Φ28	4	715
		16			525			16-Φ31		
18"	450	10	1200	640	565	530	30	20-Φ28	4	862
		16			585	548		20-Φ31		
20"	500	10	1250	715	620	582	31.5	20-Φ28	4	926
		16			650	609		20-Φ34		
24"	600	10	1450	840	725	682	36	20-Φ31	5	1057
		16			770	720		20-Φ37		

V. Storage, Installation & Maintenance

- 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.
- Items should be checked regularly when storage for long time.
- Check the marking and the qualifications before installation of the strainer.
- 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

地址：中国济南市平阴县城南门路3号 250400 电话(Tel): 008653187879384

ADDRESS: No. 3 Nanmen Road, Pingyin, Jinan, China 250400 传真(Fax): 008653187879387

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 valve and repair or replace the parts
	Joint wearing out	
	Arm distorted or broken	
Damage of valve body and bonnet	The water hammer broken valve	In the early fatigue defects, valve used beyond life expectancy should be replaced
	Fatigue damage	
	Frost crack	water medium should be ruled out in the winter when the valves are not used
Leakage through the jointing of valve body and bonnet	Bolts and nuts are not fully or evenly tightened	Tighten the bolts properly
	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.
- 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.