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Y-STRAINER

YG45H-40C

OPERATION INSTRUCTIONS

ZHEJIANG NEWTON FLUID CONTROL CO.,LTD

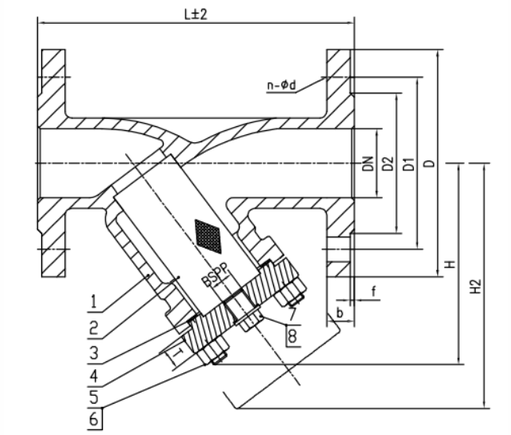
Y-STRAINER-YG45H-40C

1. Usage and performance specifications

This valve is suitable for media such as water, steam, and oil at temperatures ranging from -29 ℃ to 425 ℃. It serves as a filter for impurities such as solid particles in pipeline systems and ensures good sealing performance under working pressure

2.Main structure and working principle

This valve adopts a Y-type straight flow structure valve body, with a metal woven filter screen installed inside.
Its working principle is:
By controlling the size of the filter mesh, solid particles larger than the mesh diameter in the pipeline cannot pass through and remain in the middle chamber of the valve, thereby cleaning the pipeline medium and ensuring the normal operation of the pipeline valve.
The specific structure is shown in the attached diagram.



DN	L	D	D1	D2	b	f	n-Φd	BSP	H	H2	ΦC	H1	Mesh
15	130	95	65	45	16	2	4-Φ14	3/8"	98	106	22	48	1
20	150	105	75	58	18	2	4-Φ14	3/8"	98	115	22	59	1
25	160	115	85	68	18	2	4-Φ14	3/4"	108	122	29	75	1
32	180	140	100	78	18	2	4-Φ18	3/4"	113	130	35	85	1
40	200	150	110	88	18	3	4-Φ18	1"	138	155	42	97	1
50	230	165	125	102	20	3	4-Φ18	1"	147	165	52	105	1
65	290	185	145	122	22	3	8-Φ18	1"	170	190	58	121	1.25
80	310	200	160	138	24	3	8-Φ18	1"	204	225	75	150	1.25
100	350	235	190	162	24	3	8-Φ22	1 1/2"	240	265	104	175	1.6
125	400	270	220	188	26	3	8-Φ26	1 1/2"	288	310	124	205	1.6
150	480	300	250	218	28	3	8-Φ26	1 1/2"	334	360	150	240	1.6
200	600	375	320	285	34	3	12-Φ30	1 1/2"	380	427	190	310	1.6
250	730	450	385	345	38	3	12-Φ33	2"	535	590	243	390	4.0
300	850	515	450	410	42	4	16-Φ33	2"	640	710	295	458	4.0

Main parts materials

Item	Part Name	Material
1	Body	WCB
2	Screen	304
3	Gasket	304+Graphite
4	Bonnet	WCB
5	Bolt	A193 B7
6	Nut	A194 2H

3. Storage, installation, use, and maintenance

a) When the valve is not in use, the machined parts should be coated with anti rust oil; Valves should be neatly stored in a well ventilated and dry warehouse, and stacking or outdoor storage is strictly prohibited; Both ends of the valve should be sealed with cover plates to prevent dust and impurities from entering the inside of the valve.

b) If long-term storage is required, regular inspections should be conducted to promptly remove surface oil stains and rust, and rust prevention oil should be replaced.

c) Before installation, carefully check whether the valve's markings and certificate of conformity meet the requirements for use; Only after confirming that there are no errors can installation proceed.

d) The valve is only used for filtering impurities during use.

e) During use, valves should be observed at all times. If any faults are found, they should be stopped immediately to identify the cause and eliminate it.

4. Possible faults, causes, and solutions

Faults	Causes	Solutions
Leakage at the connection between the valve body and bonnet	Due to loose or uneven tightening of the connecting bolts Damaged gasket The sealing surfaces of the valve body and valve cover are damaged or contaminated	Tighten the bolts evenly Replace gasket Remove valve bonnet, repair defects, and remove dirt
Significant decrease in medium flow rate	The selection of filter screen does not meet the requirements Filter mesh clogged	Replace with a new filter screen Remove the filter and clean it