

Standards

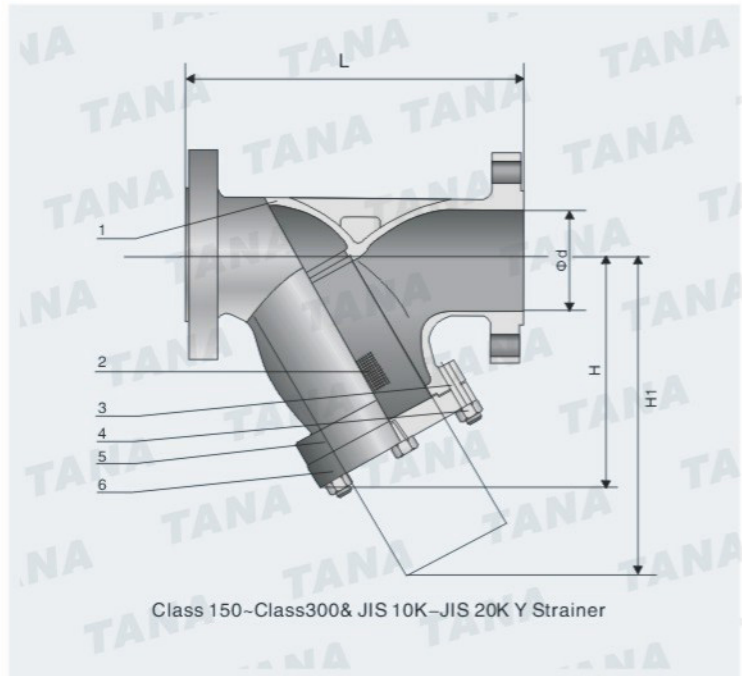
Design and Manufacture:1381873 ASME B16.34
Face to Face Dimensions:ANSI B 16.10
Flanged Ends Dimensions:ANSI B 16.5
BW end dimension:ASME B16.25
Pressure-temperature ratings:ASME B 16.34
Test & Inspect:API 598

Percentage open area

Even the mesh" is same:
open area not always same
due to the diameter of wire.
The details of wire as follows:

A:Number of Wire
B:Diameter of AWire
C:Width of Opening
D:Percentage of OPEN AREA

MESH	A SWG	B m/m	C m/m	D %
5	20	0.914	4.166	67.3
10	22	0.711	1.829	51.8
20	28	0.356	0.914	51.8
30	32	0.274	0.572	45.7
40	36	0.193	0.442	48.4
50	37	0.172	0.336	43.6
60	38	0.152	0.271	41.0
80	40	0.122	0.195	37.8
100	42	0.102	0.152	35.8
120	43	0.092	0.119	31.8
150	45 1/2	0.066	0.103	37.1
180	46 1/2	0.053	0.088	38.9
200	47	0.051	0.076	35.8
250	48	0.040	0.062	37.7
300	48	0.039	0.044	27.6



Parts and material list

Part Name	Material		
1 Body	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
2 Screen	ASTM 182 F304	ASTM 182 F304	ASTM 182 F316
3 Bonnet Bolt	ASTM 193 B7	ASTM 193 B8	ASTM 193 B8
4 Bonnet Nut	ASTM 194 2H	ASTM 194 8	ASTM 194 8
5 Gasket	Graphite+SS304	Graphite+SS304	Graphite+SS316
6 Bonnet	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M

Size		Class 150				Class 300				Class 600			
		Dimensions(mm)			Wt(kg)	Dimensions(mm)			Wt(kg)	Dimensions(mm)			Wt(kg)
NPS	DN	L	H	H1	W.H	L	H	H1	W.H	L	H	H1	W.H
1/2	15	108	67	92	2	152	70	95	3	-	-	-	-
3/4	20	117	73	105	2	178	80	110	4	-	-	-	-
1	25	127	87	117	3	203	115	135	5	-	-	-	-
1 1/4	32	140	100	138	4	216	105	142	7	-	-	-	-
1 1/2	40	165	120	155	5	229	128	155	9	-	-	-	-
2	50	203	145	185	13	267	152	184	16	292	210	350	19
2 1/2	65	216	170	220	15	292	185	236	20	330	-	-	-
3	80	241	190	250	18	318	204	266	24	356	260	430	40
4	100	292	245	340	22	356	265	335	30	432	310	510	51
5	125	356	290	400	42	400	280	386	50	508	-	-	-
6	150	406	325	450	50	444	335	460	70	559	385	520	161
8	200	495	370	500	91	559	420	595	115	660	455	620	243
10	250	622	455	635	205	622	500	710	270	787	505	635	463
12	300	699	525	735	297	711	575	781	380	838	660	780	765
14	350	787	610	885	394	838	650	938	520	889	720	990	998
16	400	914	800	1160	570	914	740	1055	608	991	840	1120	1230
18	450	978	965	1365	680	-	-	-	-	-	-	-	-
20	500	978	1100	1550	830	-	-	-	-	-	-	-	-