



Product Application Manual

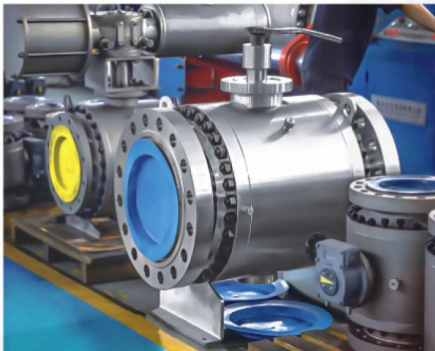
XHVAL GROUP VALVE CO., LTD.



XHVAL GROUP VALVE CO.,LTD.is located in Sangiao Industrial Zone, Wenzhou City, China. established in 1986, With API 6D, ISO, CE, API 607 etc. Certificates engaged in professional valve development, manufacture and sale of professional valve manufacturers. The enterprise is orientated towards clients' satisfaction; in this way, it adapts its valves to your requirements and delivers them in deadlines rigorously established. The technical and human staff, highly qualified, works every day in order to offer you the most innovative solutions and to strengthen the commitment with the customers



About XHVAL



Check Valve Series



Design

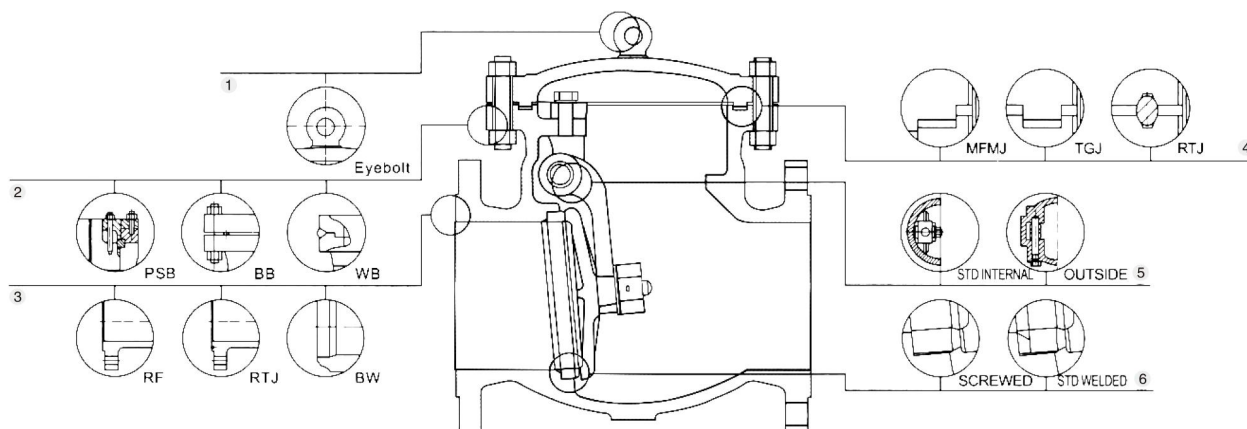
Cast steel to provide maximum service life and dependability. All check valves are meet the design requirements of American Petroleum Institute Standard API 6D, BS 1868, and generally conform to American Society of Mechanical Engineers standard ASME B16.34. Valves are available in a complete range of body/bonnet materials and trims.

Range of Materials

Standard body/bonnet materials include nine grades of carbon, low alloy and stainless steels. For special applications they can be supplied in other grades of alloy and stainless steel. There's a full range of trim materials to match any service. Optional packing and gasket materials are available for a full range of service conditions.

Available Modifications For Cast Steel Valves

- Trim Changes
- End Connection Modifications
- Gasket Changes
- Slam Retarders
- Pressure Equalizing
- Customer Specified Coatings
- Weld End Bore Changes
- Oxygen & Chlorine Cleaning & Packaging



1 Eyebolt

For 150Lb-8", 300Lb-8", 600Lb-6", 900Lb/1500Lb/2500Lb-4" & Over.

3 End Connections

A choice of Flanged, RTJ flanged or Buttwelding end for piping flexibility.

5 Outside Lever and Weight

All external hinge pin swing check valves 12", and smaller are available with an optional outside lever and weight. Internal hinge available with all swing check valves.

7 Body-to-Bonnet Joint

A Male and Female joint or Tongue and Groove joint is used 150Lb to 600Lb valves. Ring joint is used in the body to bonnet connection in 900Lb & higher rated valves.

2 BB

Bolted bonnet. Welding bonnet and pressure seal bonnet in services requiring frequent cycling or with high pressure/temperature variations.

4 Body-to-Bonnet Joint

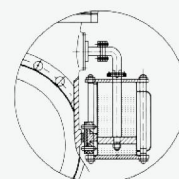
A Male and Female joint or Tongue and Groove joint is used 150Lb to 600Lb valves. Ring joint is used in the body to bonnet connection in 900Lb & higher rated valves.

6 Seat Rings

Separate heavy duty, full ported rings for easy maintenance. Screwed or welded connection into body.

Mechanical Accumulator HCU Weighted

This design can be used to either dampen or assist closing of the check valve disc depending on orientation. By using the Hydraulic Control Unit to buffer action the disc, the valve opens at lower flow rates.

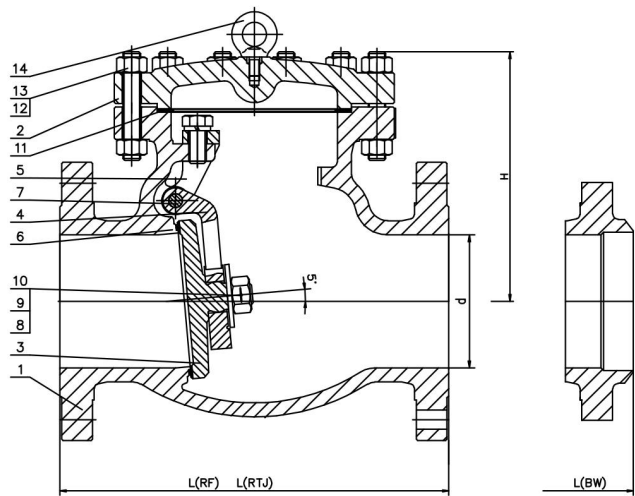


Applicable Standards

- Steel check valves, API6D/BS1868
- Steel check valves, ISO 14313
- Steel valves, ASME B16.34
- Face to face, ASME B16.10
- End flanges, ASME B16.5/ASME B16.47
- Buttwelding ends, ASME B16.25
- Inspection and test API 598

Design Description

- BC, bolt cap
- Lift or swing type, anti-rotation disc
- Renewable seat rings
- Non-penetrate disc shaft
- Horizontal or vertical service
- Flanged or buttwelding ends



Materials of parts

No.	Part Name	ASTM Material		
1	Body	ASTM A216-WCB	ASTM A217-WC6	ASTM A352-LCB
2	Bonnet Cap	ASTM A216-WCB	ASTM A217-WC6	ASTM A352-LCB
3	Disc ¹⁾	ASTM A105-Cr13	ASTM A182-F11+HF	ASTM A350-LF2+Cr13
4	Hinge	ASTM A216-WCB	ASTM A217-WC6	ASTM A352-LCB
5	Support	ASTM A216-WCB	ASTM A217-WC6	ASTM A352-LCB
6	Seat Ring	ASTM A105+Cr13	ASTM A182-F11+HF	ASTM A350-LF2+Cr13
7	Hinge Pin	ASTM A276-420	ASTM A276-304	ASTM A276-420
8	Disc Washer	Carbon Steel	ASTM A276-304	Carbon Steel
9	Disc Nut	Carbon Steel	ASTM A194-7	Carbon Steel
10	Disc Nut Pin	Carbon Steel	ASTM A276-420	Carbon Steel
11	Bonnet Gasket	SS304+Graphite	SS304+Graphite	SS304+Graphite
12	Bonnet Stud	ASTM A193-B7	ASTM A193-B16	ASTM A320-L7
13	Bonnet Stud Nut	ASTM A194-2 H	ASTM A194-4	ASTM A194-7
14	Eyebolt ²⁾	CS	CS	CS

Noted: The chart above only lists our some common composition of steel valve parts. We may provide other different parts material composition according to the customer's request or the actual valve working condition.

Dimensions are for reference only

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	26 650	28 700	30 750	36 900	in mm
ANSI Class 150Lb																		
L (RF/BW)	8.00 203	8.50 216	9.50 241	11.50 292	14.00 356	19.50 495	24.50 622	27.50 698	31.00 787	34.00 864	38.50 978	38.50 978	51.00 1295	51.00 1295	57.00 1448	60.00 1524	77.00 1956	in mm
L (RTJ)	8.50 216	9.00 229	10.00 254	12.00 305	14.50 369	20.00 508	25.00 635	28.00 711	31.50 800	34.50 877	39.00 991	39.00 991	51.50 1308	—	—	—	—	in mm
H	6.00 152	6.50 165	6.88 175	8.00 204	11.50 293	13.88 353	15.38 390	17.00 432	18.75 475	20.62 525	22.88 582	24.62 627	34.75 883	35.88 910	37.00 940	38.62 980	48.00 1220	in mm
(d)	50	63	76	100	150	200	250	300	336	387	438	488	590	641	692	743	876	mm
WT (kg)	14 10	20 12	25 17	40 29	71 57	118 96	177 143	263 227	353 295	542 468	632 552	855 755	970 831	1275 1120	1600 1420	1990 1760	2760 2230	RF BW

Dimensions are for reference only

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	26 650	28 700	30 750	36 900	in mm
ANSI Class 300Lb																		
L (RF/BW)	10.50 267	11.50 292	12.50 318	14.00 356	17.50 444	21.00 533	24.50 622	28.00 711	33.00 838	34.00 864	38.50 978	40.00 1016	53.00 1346	53.00 1346	59.00 1499	62.75 1594	82.00 2083	in mm
L (RTJ)	11.12 283	12.12 308	13.12 334	14.62 372	18.12 460	21.62 549	25.12 638	28.62 727	33.62 854	34.62 880	39.12 994	40.75 1035	53.88 1368	54.00 1371	60.00 1524	63.75 1619	—	in mm
H	6.00 152	6.50 165	6.88 175	8.00 204	11.50 292	13.88 353	15.38 390	17.00 432	18.75 475	20.62 525	22.88 582	24.62 627	34.75 883	35.88 910	37.00 940	38.62 980	48.00 1220	in mm
(d)	50	63	76	100	150	200	250	300	336	387	431	482	584	635	686	737	876	mm
WT (kg)	16 11	23 13	29 18	46 31	82 61	136 103	204 155	302 245	405 315	625 503	730 593	985 812	1115 895	1465 1205	1840 1525	2290 1895	3180 2395	RF BW

Dimensions are for reference only

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	in mm
ANSI Class 600Lb														
L (RF/BW)	11.50 292	13.00 330	14.00 356	17.00 432	22.00 559	26.00 660	31.00 787	33.00 838	35.00 889	39.00 991	43.00 1092	47.00 1194	55.00 1397	in mm
L (RTJ)	11.62 295	13.12 333	14.12 359	17.12 435	22.12 562	26.12 664	31.12 791	33.12 841	35.12 892	39.12 994	43.12 1095	47.25 1200	55.38 1407	in mm
H	7.50 190	8.00 205	8–75 222	10.00 255	14.50 368	17.50 445	19.25 490	21.38 540	23.38 595	25.75 655	28.75 730	31.00 785	43.50 1105	in mm
(d)	50	63	76	100	150	199	247	298	326	374	419	463	558	mm
WT (kg)	24 16	35 19	44 26	70 44	125 87	207 147	310 220	460 350	615 452	945 720	1105 845	1495 1160	1695 1280	R BW

Dimensions are for reference only

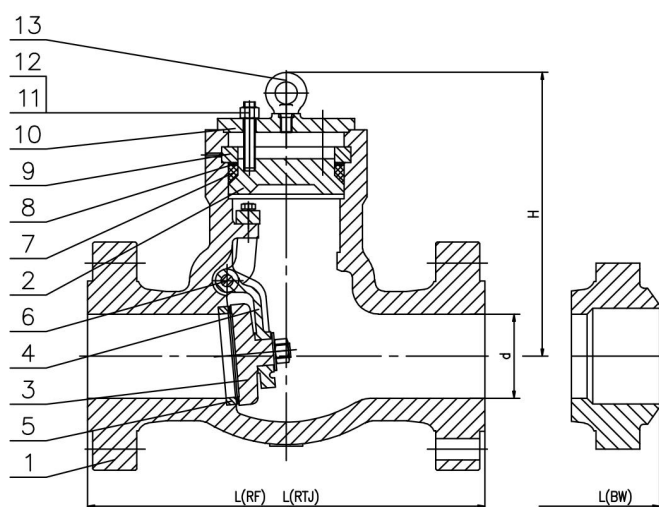
NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	in mm
ANSI Class 900Lb													
L (RF/BW)	14.50 368	16.50 419	15.00 381	18.00 457	24.00 610	29.00 737	33.00 838	38.00 965	40.50 1029	44.50 1130	48.00 1219	52.00 1321	in mm
L (RTJ)	14.62 371	16.62 422	15.12 384	18.12 460	24.12 613	29.12 740	33.12 841	38.12 968	40.88 1039	44.88 1140	48.50 1232	52.50 1334	in mm
H	9.50 240	10.00 256	11.00 278	12.50 320	18.12 460	22.00 560	24.00 610	26.50 675	29.38 745	32.00 815	33.50 850	38.75 985	in mm
(d)	47	57	72	98	146	190	238	282	311	355	400	444	mm
WT (kg)	37 21	54 25	68 34	109 58	195 115	321 194	481 290	711 461	956 597	1468 950	1870 1210	2316 1533	RF BW

Applicable Standards

- Steel check valves, API 6D/BS 1868
- Steel check valves, ISO 1431 3
- Steel valves, ASME B16.34
- Face to face, ASME B16.10
- End flanges, ASME B16.5
- Butt welding Ends, ASME B16.25
- Inspection And Test, API 598

Design Description

- Pressure seal cap
- Swing type, anti-rotation disc
- Renewable seat rings
- Non-penetrate disc shaft
- Horizontal or vertical service
- Flanged or buttwelding ends



Materials of parts

No.	Part Name	ASTM Material		
1	Body	ASTM A216-WCB	ASTM A217-WC6	ASTM A351-CF8M
2	Bonnet Cap	ASTM A216-WCB	ASTM A217-WC6	ASTM A351-CF8M
3	Disc	ASTM A105+HF	ASTM A182-F11+HF	ASTM A351-CF8M+HF
4	Hinge	ASTM A216-WCB	ASTM A217-WC6	ASTM A351-CF8M
5	Seat Ring	ASTM A105+HF	ASTM A182-F11+HF	ASTM A240-316+HF
6	Hinge Pin	ASTM A276-420	ASTM A276-304	ASTM A276-316
7	Bonnet Gasket ¹⁾	Steel Ring	304SS Ring	316SS Ring
8	Adapter Ring	Carbon Steel	ASTM A276-420	ASTM A276-316
9	Retainer	Carbon Steel	ASTM A276-420	ASTM A276-316
10	Bonnet Clamp	Carbon Steel	Alloy Steel	Stainless Steel
11	Bonnet Stud	ASTM A193-B7	ASTM A193-B7	ASTM A193-B8M
12	Bonnet Stud Nut	ASTM A194-2H	ASTM A194-2H	ASTM A194-8M
13	Eyebolt	CS	CS	CS

Noted: The chart above only lists our some common composition of steel valve parts. We may provide other different parts material composition according to the customer's request or the actual valve working condition.

Dimensions are for reference only

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	in mm
ANSI Class 900Lb														
L (RF)	14.50 368	16.50 419	15.00 381	18.00 457	24.00 610	29.00 737	33.00 838	38.00 965	40.5 1029	44.5 1130	47.99 1219	52.00 1321	60.98 1549	in mm
L (BW)	8.50 216	10.00 254	12.00 305	14.00 356	20.00 508	26.00 660	31.00 787	36.00 914	39.00 991	43.00 1092	47.99 1219	52.00 1321	60.98 1549	in mm
L (RTJ)	14.62 371	16.62 422	15.12 384	18.12 460	24.12 613	39.12 740	33.12 841	38.12 968	40.88 1039	44.88 1140	48.50 1232	52.51 1334	61.73 1568	in mm
H	9.50 240	9.50 240	10.00 255	13.38 340	15.75 400	18.12 460	21.62 550	24.00 610	27.00 685	29.50 750	33.97 863	36.96 939	41.96 1066	in mm
(d)	47	57	72	98	146	190	238	282	311	355	400	444	533	mm
WT (kg)	22 44	34 55	38 61	71 116	176 255	485 630	761 940	1125 1433	1345 1710	1490 1820	2840 2000	3756 2700	6000 4100	R BW

Dimensions are for reference only

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	in mm
ANSI Class 1500Lb														
L (RF)	14.50 368	16.50 419	18.50 470	21.50 546	27.75 705	32.75 832	39 991	44.5 1130	49.5 1257	54.50 1384	60.5 1537	65.5 1664	76.5 1943	in mm
L (BW)	8.50 216	10.00 254	12.00 305	16.00 406	22.00 559	28.00 711	34.00 864	39.00 991	42.00 1067	47.00 1194	— 1346	— 1473	— —	in mm
L (RTJ)	14.62 371	16.62 422	18.62 473	21.62 549	28.00 711	33.14 842	39.38 1001	45.12 1146	50.25 1276	55.38 1407	61.38 1559	66.38 1686	77.62 1971	in mm
H	9.50 240	9.50 240	11.88 300	15.38 390	18.00 455	177 530	24.00 610	27.00 685	30.00 760	30.00 762	33.97 863	36.96 939	41.96 1066	in mm
(d)	47	57	69	92	136	675	222	263	288	330	371	415	498	mm
WT (kg)	22 44	37 61	45 110	78 155	245 378	— —	815 1160	1213 1710	1555 2315	3250 2200	3960 2600	4400 2700	6800 4100	RF BW

Dimensions are for reference only

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	in mm
ANSI Class 2500Lb									
L (RF)	17.75 451	20.00 508	22.75 578	26.50 673	36.00 914	40.25 1022	50 1270	56 1422	in mm
L (BW)	11.0 279	13.00 330	14.50 368	18.00 457	24.00 610	30.00 762	36.00 914	41.00 1041	in mm
L (RTJ)	17.87 454	20.25 514	23.00 584	26.88 683	36.50 927	40.87 1038	50.88 1292	56.88 1444	in mm
H	10.25 260	10.25 260	13.75 350	16.12 410	18.88 480	22.38 570	25.25 640	32.00 815	in mm
WT (kg)	55 93	78 130	95 170	182 315	300 618	630 1125	825 1760	1580 2910	RF BW

Applicable Standards

- Steel check valves, API 602
- Steel valves, ASME B16.34
- End to end, manufacturer standard
- Face to face, flanged, ASME B 16.11
- End flanges, ASME B16.5
- Buttwelding ends, ASME B16.25
- Socket-welding ends, ASME B16.11
- Sorewed ends, ASME B 1.20.1
- Inspection and test, API 598

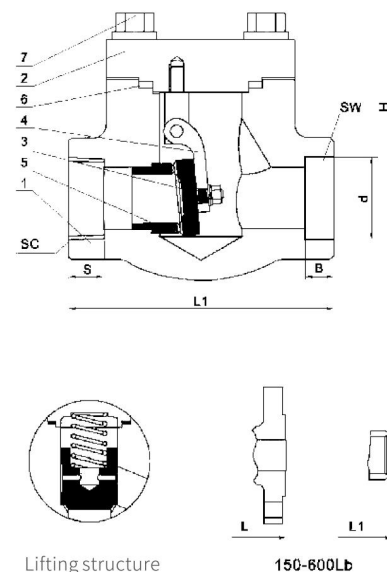
Design Description

- Bolted cap
- Choice of WB, welding bonnet
- Lift or swing type
- Seat rings integral with body of lift
- Horizontal or vertical service
- SW, socket-welding ends
- NPT, thread ends
- BW, buttwelding ends
- Flanged ends

Materials of parts

No.	Part Name	ASTM Material		
		C-Si	16Cr-12Ni-2Mo	1 1/4 Cr-1/2 Mo-Si
1	Body	A105	A182-F316	A182-F11
2	Bonnet	A105	A182-F316	A182-F11
3	Disc	A182-F6a	A182-F316	A182-F6a+HF
4	Hinge	A276-410	A276-316	A276-410
5	Seat ¹⁾	A276-410	A182-F316+HF	A182-F6a+HF
6	Bonnet Gasket ²⁾	Graphite+304	Graphite+316	Graphite+304
7	Bonnet Stud	A193-B7	A193-B8M	A193-B16

Noted: The chart above only lists our some common composition of steel valve parts. We may provide other different parts material composition according to the customer's request or the actual valve working condition.



Dimensions are for reference only

NPS DN	Unit	L1 SW/BW/NPT 150Lb-800Lb	L (Flanged Ends)			d	SW		NPT		H (Open)	WT ²⁾ (kg)
			150Lb	300Lb	600Lb		D	B	NPT	S		
3/8 10	in mm	3.12 79	4.00 102	6.00 152	6.50 165	0.354 9	0.693 17.6	0.378 9.6	3/8	0.540 13.6	2.40 61	3.8/2.8
1/2 15	in mm	3.12 79	4.25 108	6.00 152	6.50 165	0.354 10	0.858 21.8	0.378 9.6	1/2	0.535 13.6	2.40 61	5.6/3.4
3/4 20	in mm	3.62 92	4.62 117	7.00 178	7.50 190	0.512 13	1.067 27.1	0.500 12.7	3/4	0.547 13.9	2.40 61	7.8/4.7
1 25	in mm	4.38 111	5.00 127	8.00 203	8.50 216	0.689 17.5	1.331 33.8	0.500 12.7	1	0.681 17.3	3.07 78	12.5/9.2
1 1/4 32	in mm	4.75 120	5.50 140	8.50 216	9.00 229	0.906 23	1.677 42.6	0.500 12.7	1 1/4	0.709 18	3.31 84	17/10.5
1 1/2 40	in mm	4.75 120	6.50 165	9.00 229	9.50 241	1.142 30	1.917 48.7	0.500 12.7	1 1/2	0.724 18.4	10.25 3.98	23.5/13.3
2 50	in mm	5.50 140	8.00 203	10.50 267	11.50 292	1.378 35	2.406 61.1	0.626 15.9	2	0.756 19.2	4.72 120	38.8/18.9

Notes: 1) BW, SW or NPT.

2) 900Lb~2500Lb can produce.

Applicable Standards

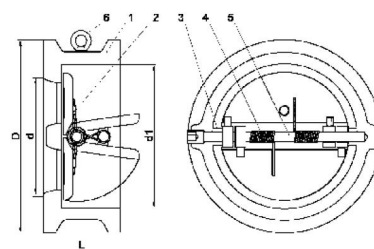
- Steel check valves, API 594/API 6D
- Steel check valves, ISO 14313
- Steel valves, ASME B16.34
- Face to face, ASME B16.10
- End flanges, ASME B16.5
- Inspection and test, API 598/API 6D

Design Description

- One piece body
- Swing type
- Dual or single plate
- Renewable split disc
- Horizontal or vertical service
- Wafer or lug ends
- Available with flanged ends

Materials of parts

No.	Part Name	ASTM Material		
		Carbon Steel	18Cr-9Ni-2Mo	Carbon Steel
1	Body	A216-WCB	A351-CF8M	A352-LCB
2	Plate	A216-WCB+Cr13	A315-CF8M+HF	A352-LCB+Cr13
3	Stop Pin	A276-420	A276-304	A276-420
4	Back Spring	A313-304	A313-316	A313-304
5	Hinge Pin	A276-420	A276-304	A276-420
6	Eyebolt ¹⁾	Carbon Steel		



Dimensions are for reference only

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	in mm
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ANSI Class 150Lb

L	2.38 60	2.62 67	2.88 73	2.88 73	3.88 98	5.00 127	5.75 146	7.12 181	7.25 184	7.50 191	8.00 203	8.62 219	8.75 222	in mm
D	4.00 103	4.88 122	5.38 135	6.75 173	8.62 220	10.88 277	13.25 337	16.00 407	17.62 448	20.12 512	21.50 547	23.75 604	28.12 715	in mm
d	2.00 51	2.50 65	3.25 80	4.00 102	6.00 152	8.00 203	10.00 254	15.00 305	13.75 350	15.75 400	17.75 450	19.75 500	23.62 600	in mm
d1	2.25 56	2.88 73	3.50 88	4.25 108	6.25 160	8.25 210	10.50 266	12.12 310	14.00 355	16.00 405	18.00 455	19.88 505	23.75 605	in mm
WT	2	3	4	6	13	25	39	54	80	117	138	163	331	kg

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	in mm
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ANSI Class 300Lb

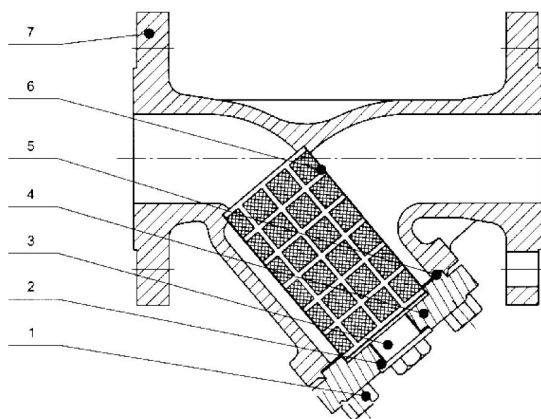
L	2.38 60	2.62 67	2.88 73	2.88 73	3.88 73	5.00 127	5.75 146	7.12 181	8.75 222	9.12 232	10.38 264	11.50 292	12.50 318	in mm
D	4.00 103	5.00 128	5.75 147	7.00 179	9.88 249	12.00 305	14.12 359	16.50 420	19.00 483	21.12 537	23.38 594	25.62 652	30.38 772	in mm
d	2.00 51	2.50 65	3.00 80	4.00 102	6.00 152	8.00 203	10.00 254	12.00 305	14.00 350	16.00 400	18.00 450	20.00 500	24.00 600	in mm
d1	2.25 56	2.88 73	3.50 88	4.25 108	6.38 160	8.25 210	10.50 266	12.25 310	14.00 355	16.00 405	18.00 455	20.00 505	24.00 608	in mm
WT	2	4	6	8	18	31	51	77	117	190	200	265	410	kg

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	in mm
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ANSI Class 600Lb

L	2.38 60	2.62 67	2.88 73	3.11 79	5.35 136	6.49 165	8.38 213	9.01 229	10.74 273	12.00 305	in mm
D	4.00 103	4.88 122	5.38 135	6.75 173	8.62 220	10.88 277	13.25 337	16.00 407	17.62 448	20.12 512	in mm
d	2.00 51	2.50 65	3.25 80	4.00 102	6.00 152	8.00 203	10.00 254	12.00 305	13.75 350	15.75 400	in mm
d1	2.25 56	2.88 73	3.50 88	4.25 108	6.25 160	8.25 210	10.50 266	12.12 310	14.00 355	16.00 405	in mm
WT	2	3	4	6	13	25	39	54	80	117	kg

DN15~400, PN16~PN40



Application

- Steam, water, oil or gas where protection from foreign matter in a pipeline is required.
- **Industry**
Power engineering, chemical and petrochemical industry

Technical description

- Y-Strainer is device for mechanically removing solids from flowing media. They are used in pipelines to protect equipment such as pumps, meters, manual and control metal seated valves, steam traps and regulators.

Testing

- The Y-strainer are pressure tested by water for strength in accordance with EN-12266
- The minimum pressure for the strength testing is (PN) × 1.5

Connection

- Butt-welded according to EN-12627 flanged according to EN 1092-1 or to customer request
- Face to face dimensions according to EN-558-1

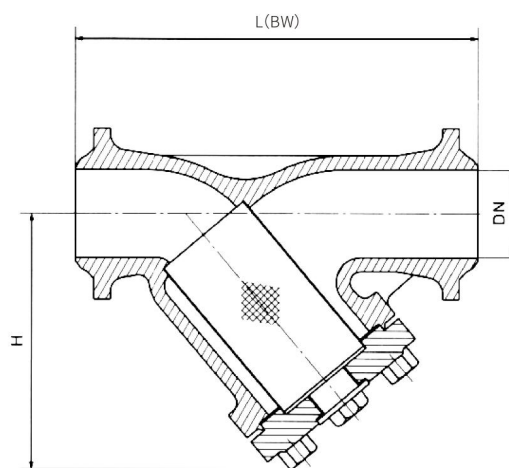
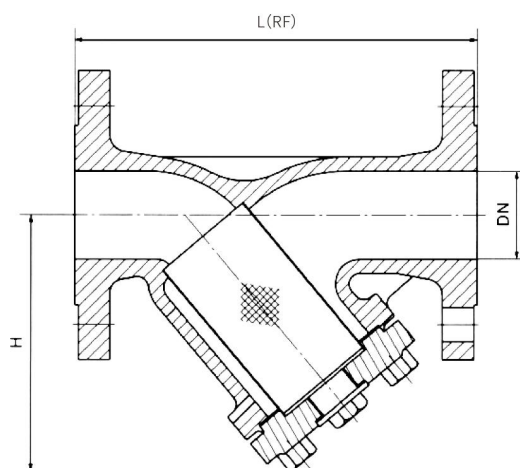
Operation

- Self-acting, by pressure of medium

Materials of parts

No.	Part Name	Material		
1	Bolt	ASTM A216 WCB	ASTM A352 LCB	ASTM A351 CF8M
2	Sealing gasket	Cu alloy	Cu alloy	Cu alloy
3	Drain screw	CS+Zn	SS	SS316
4	Bonnet	ASTM A216 WCB	ASTM A352 LCB	ASTM A351 CF8M
5	Gasket	SS304+Graphite	SS304+Graphite	SS316+Graphite
6	Screen	SS304	SS304	SS316
7	Body	ASTM A216 WCB	ASTM A352 LCB	ASTM A351 CF8M

Noted: The chart above only lists our some common composition of steel valve parts. We may provide other different parts material composition according to the customer's request or the actual valve working condition.



Dimensions are for reference only

DN(mm)		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L(RF)		130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
L(BW)		130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
H(mm)		72	88	105	110	130	140	170	190	240	290	340	425	515	615	725	835
RF Weight (kg)	PN16	2.5	3.4	4.6	5.5	5.6	9.2	13.5	17.3	27	39	58	113	225	270	380	620
	PN25	2.5	3.4	4.6	5.5	5.6	9.4	15	20.2	32	47.5	70	121.5	230	290	430	680
	PN40	2.5	3.4	4.6	5.5	5.6	9.4	15	20.2	32	47.5	70	127.4	240	310	470	700
BW Weight (kg)	PN16	1.0	1.6	2.6	3.0	3.8	4.2	8.2	15	22	33	50	80	160	200	340	510
	PN25	1.0	1.6	2.6	3.0	3.8	4.2	8.2	15	22	33	50	80	160	200	340	510
	PN40	1.0	1.6	2.6	3.0	3.8	42.0	8.2	15	22	33	50	80	160	200	340	510

Applicable Standards

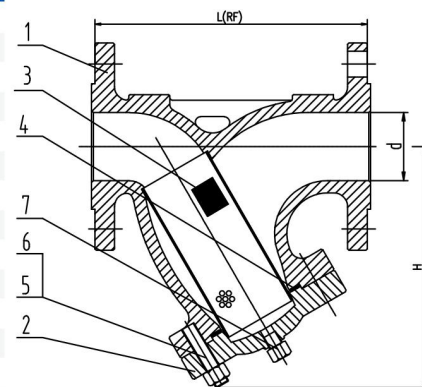
- Steel valves, ASME B16.34
- Face to face, ASME B16.10
- End flanges, ASME B16.5
- Buttwelding ends, ASME B16.25
- Inspection and test, API 598

Design Description

- Y-pattern type
- Bolted bonnet cap with drain plug
- Perforated stainless steel screen
- Strainer density 100 mesh design
- Full range of strainer density
- Renewable strainer density
- Flanged or buttwelding ends

Percentage Open Area

MEH	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



Even the "MESH" is same;
OPEN AREA is always same
due to the diameter of wire.
The details of wire as follow

A: Number of wire
B: Diameter of wire
C: Width of opening
D: Percentage of open AR

Dimensions are for reference only

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	—	—	—	—	—	—	—	—