

BS 5163 Resilient Wedge Gate Valve

Statement:

Gate valves serve to cut the medium flow in the piping system, widely used in the field of potable water, water supply and drainage, sewage disposal, irrigation, air conditioning, fire protection as well as chemical and energy industry.

Features:

- Material: Ductile Iron EN-GJS-450-10**
Body, bonnet, wedge, handwheel and operating nut are all produced in ductile iron material which provides guarantee for high strength and good corrosion resistance.
- Triple O-ring Stem Seals**
The lower O-ring isolates the stem thrust collar bearing area from the waterway. The upper two O-rings can easily be replaced in the line while the valve is under pressure in the open position.
- Stainless Steel Stem, Brass Thrust Collar and Bronze Wedge Nut**
This life-tested design has repeatedly proven its superior strength and abrasive resistance.
- Fusion Bonded Epoxy Coating**
Fusion bonded epoxy coating in accordance with ANSI/AWWA C550 for both interior and exterior surface which provides reliable corrosion resistance.
- Long Service Life with Resilient Seat Cycling Test 1,000 times**
The Valve has been subjected to 1,000 cycles of operation at a maximum rate of 6 cycles of operation per minute from fully closed to fully open and from fully open to fully closed positions under cycled hydrostatic pressure.



- Body, Bonnet, Wedge & Operating Nut in Ductile Iron
- Triple O-ring Stem Seals
- Stainless Steel Stem and Brass Thrust Collar
- Bronze Alloy Wedge Nut
- Fusion Bonded Epoxy Coating

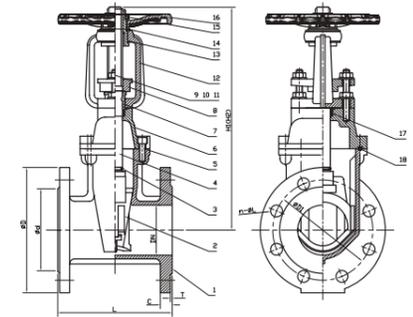
BS 5163 Flanged Resilient OS&Y Gate Valve, Type A, (XZ41X), PN10/16, UL/FM Approved



XZ41X



- Connection Ends: Flange to BS EN 1092-2:1997
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Resilient Wedge Disc	EN-GJS-450-10+EPDM	
3	O-Ring	NBR	EPDM
4	Stem	SS420	SS304, SS316, SS431, Al-bronze
5	Nut	Carbon Steel Zinc Plated	SS304, SS316
6	Bonnet	EN-GJS-450-10	
7	Stem Bushing	Brass HPb59-1	
8	Gland	EN-GJS-450-10	
9	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316
10	Stud	Carbon Steel Zinc Plated	SS304, SS316
11	Nut	Carbon Steel Zinc Plated	SS304, SS316
12	Yoke	EN-GJS-450-10	
13	Nut	Brass HPb59-1	
14	Washer	Brass HPb59-1	
15	Locknut	Carbon Steel Zinc Plated	
16	Handwheel	EN-GJS-450-10	Pressed Steel
17	Stem Packing	NBR	EPDM
18	Bonnet Gasket	EPDM	NBR

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



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DN		PN	Dimensions(mm)								
Inch	mm		L	H1(Close)	H2(Open)	D	D1	d	C	T	n-φ L
2"	50	10/16	178	323	373	165	125	99	19	3	4-φ19
2.5"	65	10/16	190	343	408	185	145	118	19	3	4-φ19
3"	80	10/16	203	370	450	200	160	132	19	3	8-φ19
4"	100	10/16	229	442	542	220	180	156	19	3	8-φ19
5"	125	10/16	254	540	665	250	210	184	19	3	8-φ19
6"	150	10/16	267	608	758	285	240	211	19	3	8-φ23
8"	200	10	292	720	920	340	295	266	20	3	8-φ23
		16									12-φ23
10"	250	10	330	940	1190	405	350	319	22	3	12-φ23
		16					355				12-φ28
12"	300	10	356	1065	1365	460	400	370	24.5	4	12-φ23
		16					410				12-φ28

BS 5163 Flanged Resilient OS&Y Gate Valve, Type B (XZ41XB), PN10/16, UL/FM Approved



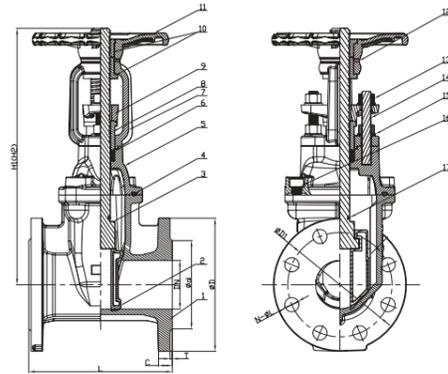
XZ41XB



- Connection Ends: Flange to BS EN 1092-2:1997
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



XZ41XB-1



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Resilient Wedge Disc	EN-GJS-450-10+EPDM	
3	Stem	SS420	SS304, SS316, SS431, Al-bronze
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	EN-GJS-450-10	
6	Washer	Brass HPb59-1	
7	Yoke	EN-GJS-450-10	
8	Nut	Brass HPb59-1	
9	Gland	EN-GJS-450-10	
10	Stem Nut	Brass HPb59-1	
11	Handwheel	EN-GJS-450-10	Pressed Steel
12	Washer	Brass HPb59-1	
13	Nut	Carbon Steel Zinc Plated	SS304, SS316
14	Stud	Carbon Steel Zinc Plated	SS304, SS316
15	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316
16	Nut	Carbon Steel Zinc Plated	SS304, SS316
17	O-Ring	NBR	EPDM

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	H1(Close)	H2(Open)	D	D1	d	C	T	n-φ L	
2"	50	10/16	178	348	400	165	125	99	19	3	4-φ19	
2.5"	65	10/16	190	373	440	185	145	118	19	3	4-φ19	
3"	80	10/16	203	408	490	200	160	132	19	3	8-φ19	
4"	100	10/16	229	471	573	220	180	156	19	3	8-φ19	
5"	125	10/16	254	541	665	250	210	184	19	3	8-φ19	
6"	150	10/16	267	593	743	285	240	211	19	3	8-φ23	
8"	200	10	292	774	975	340	295	266	20	3	8-φ23	
		16									12-φ23	
10"	250	10	330	1029	1283	405	350	319	22	3	12-φ23	
		16									12-φ28	
12"	300	10	356	1065	1370	460	400	370	24.5	4	12-φ23	
		16									12-φ28	

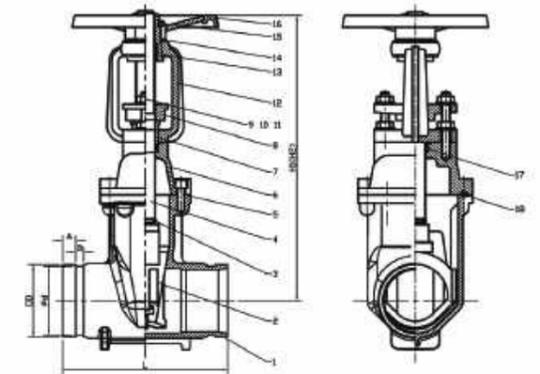
BS 5163 Grooved Resilient OS&Y Gate Valve (XZ81X), PN10/16, UL/FM Approved



XZ81X



- Connection Ends: Groove to ISO 6182
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Resilient Wedge Disc	EN-GJS-450-10+EPDM	
3	O-Ring	NBR	EPDM
4	Stem	SS420	SS304, SS316, SS431, Al-bronze
5	Nut	Carbon Steel Zinc Plated	SS304, SS316
6	Bonnet	EN-GJS-450-10	
7	Stem Bushing	Brass HPb59-1	
8	Gland	EN-GJS-450-10	
9	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316
10	Stud	Carbon Steel Zinc Plated	SS304, SS316
11	Nut	Carbon Steel Zinc Plated	SS304, SS316
12	Yoke	EN-GJS-450-10	
13	Stem Nut	Brass HPb59-1	Bronze ZQSn5-5-5
14	Washer	Brass HPb59-1	
15	Locknut	Carbon Steel Zinc Plated	
16	Handwheel	EN-GJS-450-10	Pressed Steel
17	Stem Packing	NBR	EPDM
18	Bonnet Gasket	EPDM	NBR

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

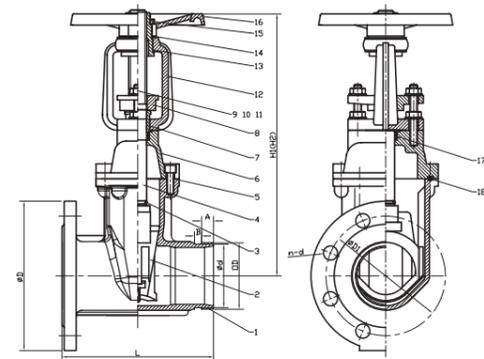
DN		Dimensions(mm)						
Inch	mm	L	H1(Close)	H2(Open)	OD	d	A	B
2"	50	178	323	373	60.3	57.15	15.88	7.92
2.5"	65	190	343	408	73	69.09	15.88	7.92
2.5"	65	190	343	408	76.1	72.26	15.88	7.92
3"	80	203	370	450	88.9	84.94	15.88	7.92
4"	100	229	442	542	114.3	110.08	15.88	9.52
5"	125	254	541	665	139.7	135.48	15.88	9.52
5"	125	254	541	665	141.3	137.03	15.88	9.52
6"	150	267	608	758	165.1	160.90	15.88	9.52
6"	150	267	608	758	168.3	163.96	15.88	9.52
8"	200	292	697	897	219.1	214.40	19.05	11.13
10"	250	330	939	1193	273.0	268.28	19.05	12.70
12"	300	356	1065	1370	323.9	318.29	19.05	12.70

BS 5163 Flanged x Grooved Resilient OS&Y Gate Valve (XZ51X), PN10/16, UL/FM Approved



XZ51X

- Connection Ends: Flange to EN 1092-2:1997, Groove to ISO 6182
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Resilient Wedge Disc	EN-GJS-450-10+EPDM	
3	O-Ring	NBR	EPDM
4	Stem	SS420	SS304, SS316, SS431, Al-bronze
5	Bolt	Carbon Steel Zinc Plated	SS304, SS316
6	Bonnet	EN-GJS-450-10	
7	Stem Bushing	Brass HPb59-1	
8	Gland	EN-GJS-450-10	
9	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316
10	Stud	Carbon Steel Zinc Plated	SS304, SS316
11	Nut	Carbon Steel Zinc Plated	SS304, SS316
12	Yoke	EN-GJS-450-10	
13	Nut	Brass HPb59-1	
14	Washer	Brass HPb59-1	
15	Locknut	Carbon Steel Zinc Plated	
16	Handwheel	EN-GJS-450-10	Pressed Steel
17	Stem Packing	NBR	EPDM
18	Bonnet Gasket	EPDM	NBR

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

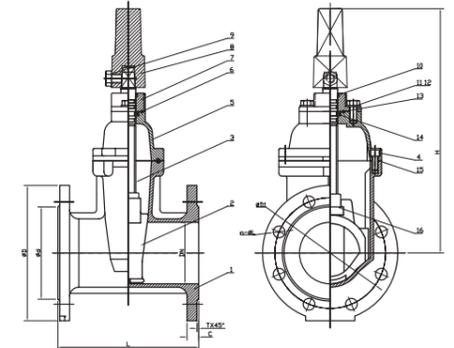
DN		Dimensions(mm)									
Inch	mm	L	H1(Close)	H2(Open)	D	D1	n-d	OD	d	A	B
2"	50	178	323	373	165	125	4-Φ19	60.3	57.15	15.88	7.92
2.5"	65	190	343	408	185	145	4-Φ19	76.1	72.26	15.88	7.92
3"	80	203	370	450	200	160	8-Φ19	88.9	84.94	15.88	7.92
4"	100	229	442	542	220	180	8-Φ19	114.3	110.08	15.88	9.52
5"	125	254	541	665	250	210	8-Φ19	139.7	135.48	15.88	9.52
6"	150	267	608	758	285	240	8-Φ23	165.1	160.90	15.88	9.52
6"	150	267	608	758	285	240	8-Φ23	168.3	163.96	15.88	9.52
8"	200	292	697	897	340	295	12-Φ23	219.1	214.40	19.05	11.13
10"	250	330	939	1193	405	355	12-Φ28	273.0	268.28	19.05	12.70
12"	300	356	1065	1370	460	410	12-Φ28	323.9	318.29	19.05	12.70

BS 5163 Flanged Resilient NRS Gate Valve, Type A (Z45XC), PN10/16, UL/FM Approved



Z45XC

- Connection Ends: Flange to BS EN 1092-2:1997
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Resilient Wedge Disc	EN-GJS-450-10+EPDM	
3	Stem	SS420	SS304, SS316, SS431, Al-bronze
4	Nut	Carbon Steel Zinc Plated	SS304, SS316
5	Bonnet	EN-GJS-450-10	
6	O-Ring	NBR	EPDM
7	Gland	EN-GJS-450-10	
8	Stem Cap	EN-GJS-450-10	
9	Bolt	Carbon Steel Zinc Plated	SS304, SS316
10	Ring Wiper	EPDM	NBR
11	Bolt	Carbon Steel Zinc Plated	SS304, SS316
12	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316
13	O-Ring	NBR	EPDM
14	Thrust Washer	Brass Hpb59-1	
15	Bonnet Gasket	EPDM	NBR
16	Wedge Nut	Brass Hpb59-1	Bronze ZQSn5-5-5

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	H	D	D1	d	C	T	n-d	
2"	50	10/16	178	278	165	125	99	19	3	4-Φ19	
2.5"	65	10/16	190	292	185	145	118	19	3	4-Φ19	
3"	80	10/16	203	351	200	160	132	19	3	8-Φ19	
4"	100	10/16	229	384	220	180	156	19	3	8-Φ19	
5"	125	10/16	254	461	250	210	184	19	3	8-Φ19	
6"	150	10/16	267	483	285	240	211	19	3	8-Φ23	
8"	200	10	553	490	340	295	266	20	3	8-Φ23	
		16								12-Φ23	
10"	250	10	705	626	405	350	319	22	3	12-Φ23	
		16								12-Φ28	
12"	300	10	801	722	460	400	370	24.5	4	12-Φ23	
		16								12-Φ28	



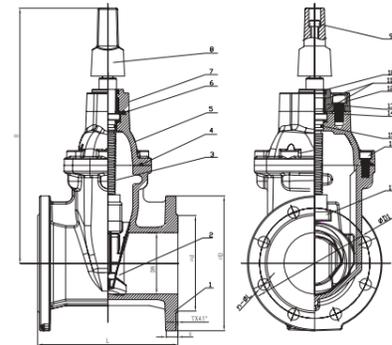
BS 5163 Flanged Resilient NRS
Gate Valve, Type B (Z45XBC), PN10/16,
UL/FM Approved



Z45XBC



- Connection Ends: Flange to BS EN 1092-2:1997
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Resilient Wedge Disc	EN-GJS-450-10+EPDM	
3	Stem	SS431	SS304, SS316, Al-bronze
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	EN-GJS-450-10	
6	O-Ring	NBR	EPDM
7	Gland	EN-GJS-450-10	
8	Stem Cap	EN-GJS-450-10	
9	Nut	Carbon Steel Zinc Plated	SS304, SS316
10	Ring Wiper	EPDM	NBR
11	O-Ring	NBR	EPDM
12	Nut	Carbon Steel Zinc Plated	SS304, SS316
13	Axis Guide	Brass Hpb59-1	
14	Washer	Brass Hpb59-1	
15	O-Ring	NBR	
16	Nut	Carbon Steel Zinc Plated	SS304, SS316
17	Wedge nut	Brass Hpb59-1	Bronze ZQSn5-5-5

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

Inch	mm	PN	Dimensions(mm)							
			L	H	D	D1	d	C	T	n-φL
2"	50	10/16	178	332	165	125	99	19	3	4-φ19
2.5"	65	10/16	190	350	185	145	118	19	3	4-φ19
3"	80	10/16	203	376	200	160	132	19	3	8-φ19
4"	100	10/16	229	429	220	180	156	19	3	8-φ19
5"	125	10/16	254	461	250	210	184	19	3	8-φ19
6"	150	10/16	267	520	285	240	211	19	3	8-φ23
8"	200	10	292	622	340	295	266	20	3	8-φ23
		16								12-φ23
10"	250	10	330	691	405	350	319	22	3	12-φ23
		16								12-φ28
12"	300	10	356	793	460	400	370	24.5	4	12-φ23
		16								12-φ28



Z45XB



Z45XB-1



XZ45XB-1



XZ45XB



XZ45XB-2

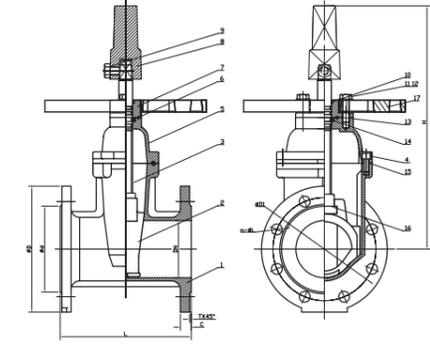
BS 5163 Flanged Resilient NRS
Gate Valve,with Post Flange (Z45XC-2),
PN10/16, UL Listed



Z45XC-2



- Connection Ends: Flange to BS EN 1092-2:1997
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Resilient Wedge Disc	EN-GJS-450-10+EPDM	
3	Stem	SS420	SS304, SS316, SS431, Al-bronze
4	Nut	Carbon Steel Zinc Plated	SS304, SS316
5	Bonnet	EN-GJS-450-10	
6	O-Ring	NBR	EPDM
7	Gland	EN-GJS-450-10	
8	Stem Cap	EN-GJS-450-10	
9	Bolt	Carbon Steel Zinc Plated	SS304, SS316
10	Ring Wiper	EPDM	NBR
11	Bolt	Carbon Steel Zinc Plated	SS304, SS316
12	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316
13	O-Ring	NBR	EPDM
14	Thrust Washer	Brass Hpb59-1	
15	Bonnet Gasket	EPDM	NBR
16	Wedge Nut	Brass Hpb59-1	Bronze ZQSn5-5-5
17	Post Flange	EN-GJS-450-10	

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

Inch	mm	PN	Dimensions(mm)							
			L	H	D	D1	d	C	T	n-d
4"	100	10/16	229	409	220	180	156	19	3	8-φ19
5"	125	10/16	254	486	250	210	184	19	3	8-φ19
6"	150	10/16	267	508	285	240	211	19	3	8-φ23
8"	200	10	292	578	340	295	266	20	3	8-φ23
		16								12-φ23
10"	250	10	330	730	405	350	319	22	3	12-φ23
		16								12-φ28
12"	300	10	356	826	460	400	370	24.5	4	12-φ23
		16								12-φ28

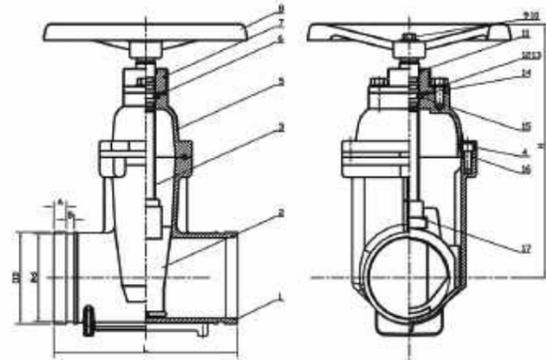
BS 5163 Grooved Resilient NRS Gate Valve (Z85X), PN10/16, UL/FM Approved



Z85X



- Connection Ends: Groove to ISO 6182
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Resilient Wedge Disc	EN-GJS-450-10+EPDM	
3	Stem	SS420	SS304, SS316, SS431, Al-bronze
4	Nut	Carbon Steel Zinc Plated	SS304, SS316
5	Bonnet	EN-GJS-450-10	
6	O-Ring	NBR	EPDM
7	Gland	EN-GJS-450-10	
8	Handwheel	EN-GJS-450-10	Pressed Steel
9	Bolt	Carbon Steel Zinc Plated	SS304, SS316
10	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316
11	Ring Wiper	EPDM	NBR
12	Bolt	Carbon Steel Zinc Plated	SS304, SS316
13	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316
14	O-Ring	NBR	EMDM
15	Washer	Brass HPb59-1	
16	Bonnet Gasket	EPDM	NBR
17	Wedge Nut	Brass HPb59-1	Bronze ZQSn5-5-5

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

DN		Dimensions(mm)					
Inch	mm	L	H	OD	d	A	B
2"	50	178	218	60.3	57.15	15.88	7.92
2.5"	65	190	230	73	69.09	15.88	7.92
2.5"	65	190	230	76.1	72.26	15.88	7.92
3"	80	203	281	88.9	84.94	15.88	7.92
4"	100	229	316	114.3	110.08	15.88	9.52
5"	125	254	393	139.7	135.48	15.88	9.52
5"	125	254	393	141.3	137.03	15.88	9.52
6"	150	267	420	165.1	160.90	15.88	9.52
6"	150	267	420	168.3	163.96	15.88	9.52
8"	200	292	490	219.1	214.40	19.05	11.13
10"	250	330	626	273.0	268.28	19.05	12.70
12"	300	356	722	323.9	318.29	19.05	12.70

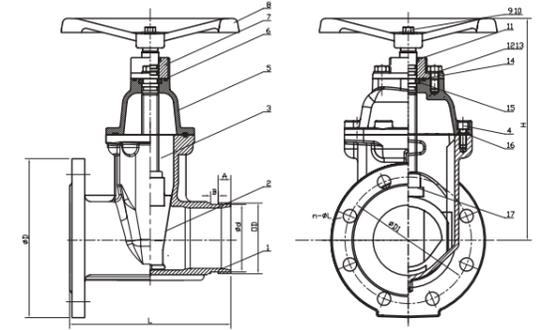
BS 5163 Flanged x Grooved Resilient NRS Gate Valve (Z55X), PN10/16, UL/FM Approved



Z55X



- Connection Ends: Flange to EN 1092-2:1997, Groove to ISO 6182
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



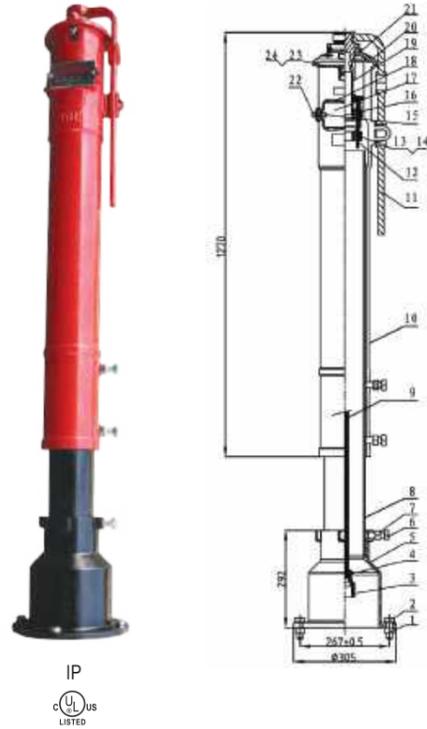
MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Resilient Wedge Disc	EN-GJS-450-10+EPDM	
3	Stem	SS420	SS304, SS316, SS431, Al-bronze
4	Bolt	Carbon Steel Zinc Plated	SS304, SS316
5	Bonnet	EN-GJS-450-10	
6	O-Ring	NBR	EPDM
7	Gland	EN-GJS-450-10	
8	Handwheel	EN-GJS-450-10	Pressed Steel
9	Bolt	Carbon Steel Zinc Plated	SS304, SS316
10	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316
11	Ring Wiper	EPDM	NBR
12	Bolt	Carbon Steel Zinc Plated	SS304, SS316
13	Flat Washer	Carbon Steel Zinc Plated	SS304, SS316
14	O-Ring	NBR	EPDM
15	Washer	Brass HPb59-1	
16	Bonnet Gasket	EPDM	NBR
17	Wedge Nut	Brass HPb59-1	Bronze ZQSn5-5-5

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

DN		Dimensions(mm)								
Inch	mm	L	H	D	D1	n-d	OD	d	A	B
2"	50	178	218	165	125	4-Φ19	60.3	57.15	15.88	7.92
2.5"	65	190	230	185	145	4-Φ19	76.1	72.26	15.88	7.92
3"	80	203	281	200	160	8-Φ19	88.9	84.94	15.88	7.92
4"	100	229	316	220	180	8-Φ19	114.3	110.08	15.88	9.52
5"	125	254	393	250	210	8-Φ19	139.7	135.48	15.88	9.52
6"	150	267	420	285	240	8-Φ23	165.1	160.90	15.88	9.52
6"	150	267	420	285	240	8-Φ23	168.3	163.96	15.88	9.52
8"	200	292	490	340	295	12-Φ23	219.1	214.40	19.05	11.13
10"	250	330	626	405	355	12-Φ28	273.0	268.28	19.05	12.70
12"	300	356	722	460	410	12-Φ28	323.9	318.29	19.05	12.70

Vertical Indicator Post (IP), UL Listed



- **Statement:**
Vertical indicator post provides a means to operate a buried or otherwise inaccessible valve and able to indicate the open or shut position of the valve.
- **Coating:**
Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Hex Nut	Carbon Steel Zinc Plated
2	Hex Bolt	Carbon Steel Zinc Plated
3	Socket	EN-GJS-450-10
4	Cotter Pin	SS304
5	Base Flange	Cast Iron EN-GJL-200
6	Hex Bolt	Carbon Steel Zinc Plated
7	Hex Nut	Carbon Steel Zinc Plated
8	Standpipe	Carbon Steel
9	Stem 1" Square	Carbon Steel
10	Body	Cast Iron EN-GJL-200
11	Locking Wrench	EN-GJS-450-10
12	Target Carrier Nut	Cast Aluminum
13	Hex Bolt	Carbon Steel Zinc Plated
14	Hex Nut	Carbon Steel Zinc Plated
15	Hex Bolt	Carbon Steel Zinc Plated
16	Target	Cast Aluminum
17	Window Glass	Plexiglass
18	Gasket	PTFE
19	Operating Nut	SS304
20	Top Section	Cast Iron EN-GJL-200
21	Snap Ring	Spring Steel
22	Plug	Malleable Iron
23	Square Nut	Carbon Steel Zinc Plated
24	Hex Bolt	Carbon Steel Zinc Plated

Field Adjustment:

- 1.Remove the Top Section from the top of the Indicator Post assembly;
- 2.Cut the required stem length and adjust the Standpipe to match up to the ground line;
- 3.Set the "OPEN" and "SHUT" targets for the appropriate valve size;
- 4.Reattach the Top Section to the top of the Indicator Post assembly.

Wall Indicator Post (WP), UL Listed



- **Statement:**
Wall indicator post provides a means to operate a valve installed behind a wall and able to indicate the open or shut position of the valve.
- **Coating:**
Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Body	Cast Iron EN-GJL-200
2	Plug	Malleable Iron
3	Square Nut	Carbon Steel Zinc Plated
4	Hex Bolt	Carbon Steel Zinc Plated
5	Cover	Cast Iron EN-GJL-200
6	Hand Wheel	EN-GJS-450-10
7	Eye Bolt	Carbon Steel Zinc Plated
8	Gasket	Carbon Steel Zinc Plated
9	Snap Ring	Spring Steel
10	Operating Nut	SS304
11	Gasket	PTFE
12	Window Class	Plexiglass
13	Target	Cast Aluminum
14	Hex Bolt	Carbon Steel Zinc Plated
15	Hex Bolt	Carbon Steel Zinc Plated
16	Hex Nut	Carbon Steel Zinc Plated
17	Target Carrier Nut	SS304
18	Hex Nut	Carbon Steel Zinc Plated
19	Hex Bolt	Carbon Steel Zinc Plated
20	Stem 1" Square	Carbon Steel
21	Cotter Pin	SS304
22	Socket	ASTM A536, 65-45-12

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

BS EN 593 Resilient Centerline Butterfly Valve

Statement:
Resilient centerline butterfly valves usually serve to cut off medium flow in the piping system, widely applied in the field of potable water, water supply and drainage, sewage disposal, irrigation, air conditioning, fire protection as well as chemical and energy industry. The design of the butterfly valves, however, makes it also suitable to serve as adjusting valve.

- Features:**
- Material:**
Body is produced in ductile iron material (EN-GJS-450-10) which provides guarantee for high strength and good corrosion resistance. Different options of the disc and seat, e.g. disc of DI nickel or nylon 11 coated, different series of stainless steel, Al-bronze, seat in EPDM, NBR or Fluororubber, makes it suitable to be applied under different working conditions.
 - Design:**
Universal flange connection to BS EN 1092 PN6/10/16, ASME B16.1 CL 125, ASME B16.5 CL150, GB9113, JIS B2112 10K, AS 2129 Table E, BS 10 Table D/E. Different options of operation including lever handle, gear box, gear box with tamper switch, electric drive, and pneumatic drive, etc. Different options of rubber seat including insert rubber seat, rubber vulcanized on valve body and boot rubber seat.
 - Coating**
Fusion bonded epoxy coating provides reliable corrosion resistance. To achieve higher corrosion resistance, factory is also able to supply Nylon 11 coated disc. Nylon 11 coating is thermoplastic plant coating approved by USDA with high corrosion resistance and antiseptis which can be applied where there is strict requirement for anti-corrosion.



- Ductile Iron Valve Body
- Stainless Steel Stem
- Fusion Bonded Epoxy Coating
- Disc: DI, Stainless Steel or Al-bronze
- Seat: EPDM/NBR/Fluororubber with backing



Two-Piece Stem Pinless Butterfly Valves Kv Value

DN		10°	20°	30°	40°	50°	60°	70°	80°	90°
Inch	mm									
2"	50	0.17	4	8	15	23	46	61	99	125
2.5"	65	0.35	7	13	22	36	72	91	151	195
3"	80	0.52	10	19	33	54	108	138	225	281
4"	100	0.69	15	36	63	104	203	264	441	510
5"	125	1.70	39	76	134	216	424	541	865	973
6"	150	2.60	77	125	216	355	692	891	1427	1687
8"	200	3.50	128	216	363	606	1125	1514	2357	2811
10"	250	4.30	201	337	580	995	1860	2379	3720	4325
12"	300	5.20	296	476	865	1384	2682	3503	4325	6488

One-Piece Stem Pinless Butterfly Valves Kv Value

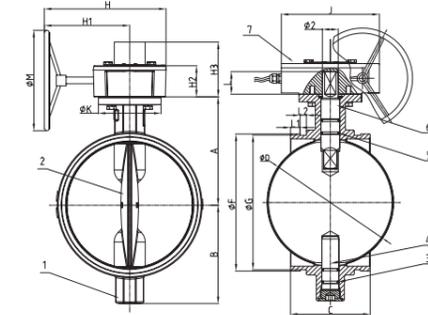
DN		10°	20°	30°	40°	50°	60°	70°	80°	90°
Inch	mm									
2"	50	0.05	3	6	13	23	38	61	91	99
2.5"	65	0.09	5	10	22	39	65	103	154	170
3"	80	0.17	8	16	34	61	100	158	238	261
4"	100	0.26	15	31	67	120	199	315	472	519
5"	125	0.43	25	53	115	205	339	536	804	884
6"	150	0.69	29	82	132	222	365	611	998	1366
8"	200	2	48	133	217	365	599	1002	1637	1873
10"	250	3	75	206	333	566	928	1552	2535	2901
12"	300	3	132	361	589	990	1625	2718	4439	5041

BS EN 593 Grooved Butterfly Valve with Tamper Switch (XD381X4), PN10/16



XD381X4

- Design Standard: BS EN 593
- Connection Ends: Groove to ISO 6182
- Top Flange standard: ISO 5211
- Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request

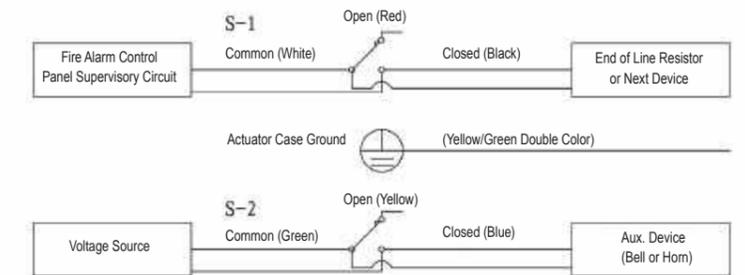


MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Disc	EN-GJS-450-10+EPDM	EN-GJS-450-10+NBR
3	O-Ring	NBR	EPDM
4	Stem	SS431	SS304, SS316, SS416, SS420
5	O-Ring	NBR	EPDM
6	Stem	SS431	SS304, SS316, SS416, SS420
7	Signal Gear Box	EN-GJS-450-10	

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

SWITCH WIRING DIAGRAM



DN		Dimensions(mm)																	
Inch	mm	A	B	C	ΦD	ΦF	ΦG	L1	L2	L	ΦK	H	H1	H2	H3	J	ΦM	Φ2	ISO 5211
2"	50	89	65	81	50.3	60.3	57.15	15.88	7.93	32	90	208	151	65	108	147	150	14	F07
2.5"	65	102	71	97	60.8	73.0	69.09	15.88	7.93	32	90	208	151	65	108	147	150	14	F07
2.5"	65	102	71	97	60.8	76.1	72.26	15.88	7.93	32	90	208	151	65	108	147	150	14	F07
3"	80	109	81	97	76	88.9	84.94	15.88	7.93	32	90	208	151	65	108	147	150	14	F07
4"	100	128	95	116	98.5	114.3	110.08	15.88	9.53	32	90	208	151	65	108	147	150	16	F07
5"	125	141	111	148	122.6	139.7	135.48	15.88	9.53	32	90	208	151	65	108	147	150	16	F07
5"	125	141	111	148	122.6	141.3	137.03	15.88	9.53	32	90	208	151	65	108	147	150	16	F07
6"	150	153	133	148	148	165.1	160.9	15.88	9.53	32	90	208	151	65	108	147	150	20	F07
6"	150	153	133	148	148	168.3	163.96	15.88	9.53	32	90	208	151	65	108	147	150	20	F07
8"	200	184	164	133	199	219.1	214.4	19.05	11.10	45	125	303	239	73	115	190	250	26	F10
10"	250	216	196	159	252	273.1	268.28	19.05	12.70	45	125	303	239	73	115	190	250	26	F10
12"	300	254	226	165	300.5	323.9	318.29	19.05	12.70	45	125	303	229	73	120	190	250	28	F10

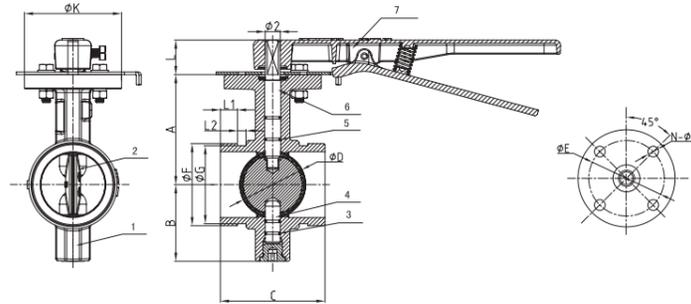
Note: Valve must not be installed with disc in full open position. Disc must be partly closed so that no part is protruding beyond end of valve body.

BS EN 593 Grooved Butterfly Valve (D81X4, D381X4), PN10/16



D81X4

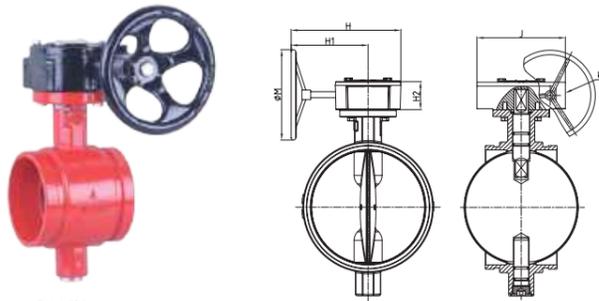
- Design Standard: BS EN 593
- Connection Ends: Groove to ISO 6182
- Top Flange standard: ISO 5211
Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Disc	EN-GJS-450-10+EPDM	EN-GJS-450-10+NBR
3	O-Ring	NBR	EPDM
4	Stem	SS431	SS304, SS316, SS416, SS420
5	O-Ring	NBR	EPDM
6	Stem	SS431	SS304, SS316, SS416, SS420
7	Lever	EN-GJS-450-10	Aluminum
8	Gear Box	EN-GJS-450-10	

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



D381X4

DN		Dimensions(mm)																		
Inch	mm	A	B	C	ΦD	ΦF	ΦG	L1	L2	L	ΦK	H	H1	H2	J	ΦM	Φ2	ISO 5211	ΦE	N-Φ1
2"	50	89	65	81	50.3	60.3	57.15	15.88	7.93	32	90	206	158	52	114	150	14	F07	70	4-Φ10
2.5"	65	102	71	97	60.8	73.0	69.09	15.88	7.93	32	90	206	158	52	114	150	14	F07	70	4-Φ10
2.5"	65	102	71	97	60.8	76.1	72.26	15.88	7.93	32	90	206	158	52	114	150	14	F07	70	4-Φ10
3"	80	109	81	97	76	88.9	84.94	15.88	7.93	32	90	206	158	52	114	150	14	F07	70	4-Φ10
4"	100	128	95	116	98.5	114.3	110.08	15.88	9.53	32	90	206	158	52	114	150	16	F07	70	4-Φ10
5"	125	141	111	148	122.6	139.7	135.48	15.88	9.53	32	90	206	158	52	114	150	16	F07	70	4-Φ10
5"	125	141	111	148	122.6	141.3	137.03	15.88	9.53	32	90	206	158	52	114	150	16	F07	70	4-Φ10
6"	150	153	133	148	148	165.1	160.9	15.88	9.53	32	90	206	158	52	114	150	20	F07	70	4-Φ10
6"	150	177	133	148	148	168.3	163.96	15.88	9.53	32	90	206	158	52	114	150	20	F07	70	4-Φ10
8"	200	184	164	133	199	219.1	214.4	19.05	11.10	45	125	310	239	69	167	300	26	F10	102	4-Φ12
10"	250	216	196	159	252	273.1	268.28	19.05	12.70	45	125	310	239	69	167	300	26	F10	102	4-Φ12
12"	300	254	226	165	300.5	323.9	318.29	19.05	12.70	45	125	307	229	73	190	300	28	F10	102	4-Φ12

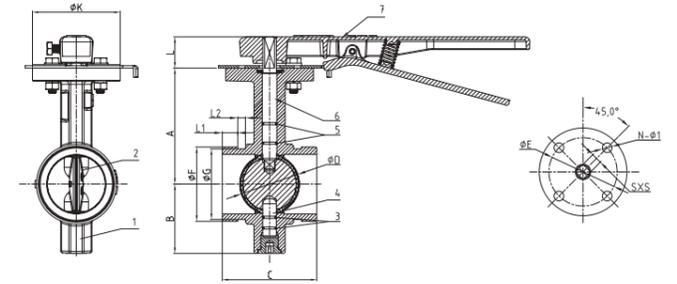
Note: Valve must not be installed with disc in full open position. Disc must be partly closed so that no part is protruding beyond end of valve body.

BS EN 593 Grooved Butterfly Valve (D81X4-BL, D381X4-BL), PN10/16



D81X4-BL

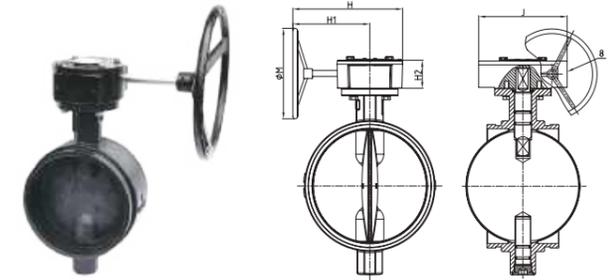
- Design Standard: BS EN 593
- Connection Ends: Groove to ISO 6182
- Top Flange standard: ISO 5211
Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Disc	EN-GJS-450-10+EPDM	EN-GJS-450-10+NBR
3	O-Ring	NBR	EPDM
4	Stem	SS431	SS304, SS316, SS416, SS420
5	O-Ring	NBR	EPDM
6	Stem	SS431	SS304, SS316, SS416, SS420
7	Lever	EN-GJS-450-10	Aluminum
8	Gear Box	EN-GJS-450-10	

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



D381X4-BL

DN		Dimensions(mm)																		
Inch	mm	A	B	C	ΦD	ΦF	ΦG	L1	L2	L	ΦK	H	H1	H2	J	ΦM	SXS	ISO 5211	ΦE	N-Φ1
2"	50	100	65	81	50.3	60.3	57.15	15.88	7.93	32	90	206	158	52	114	150	11X11	F07	70	4-Φ10
2.5"	65	115	71	97	60.8	73.0	69.09	15.88	7.93	32	90	206	158	52	114	150	11X11	F07	70	4-Φ10
2.5"	65	115	71	97	60.8	76.1	72.26	15.88	7.93	32	90	206	158	52	114	150	11X11	F07	70	4-Φ10
3"	80	113	81	97	76	88.9	84.94	15.88	7.93	32	90	206	158	52	114	150	11X11	F07	70	4-Φ10
4"	100	145	95	116	98.5	114.3	110.08	15.88	9.53	32	90	206	158	52	114	150	14X14	F07	70	4-Φ10
5"	125	141	111	148	122.6	139.7	135.48	15.88	9.53	32	90	206	158	52	114	150	14X14	F07	70	4-Φ10
5"	125	141	111	148	122.6	141.3	137.03	15.88	9.53	32	90	206	158	52	114	150	14X14	F07	70	4-Φ10
6"	150	177	133	148	148	165.1	160.9	15.88	9.53	32	90	206	158	52	114	150	17X17	F07	70	4-Φ10
6"	150	177	133	148	148	168.3	163.96	15.88	9.53	32	90	206	158	52	114	150	17X17	F07	70	4-Φ10
8"	200	200	164	133	199	219.1	214.4	19.05	11.10	45	125	310	239	69	167	300	17X17	F10	102	4-Φ12
10"	250	280	196	159	252	273.1	268.28	19.05	12.70	45	125	310	239	69	167	300	22X22	F10	102	4-Φ12
12"	300	300	226	165	300.5	323.9	318.29	19.05	12.70	45	125	307	229	73	190	300	22X22	F10	102	4-Φ12

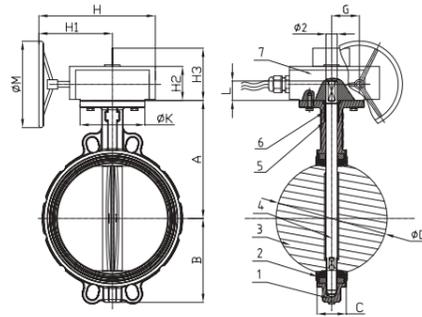
Note: Valve must not be installed with disc in full open position. Disc must be partly closed so that no part is protruding beyond end of valve body.

BS EN 593 Wafer Butterfly Valve with Tamper Switch (XD371X4), PN10/16



XD371X4

- Design Standard: BS EN 593
- Connection Ends: BS EN 1092 PN10/PN16, AS 2129 TABLE E, JIS B2212 10K, BS 10 TABLE D/E
- Top Flange Standard: ISO 5211
Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

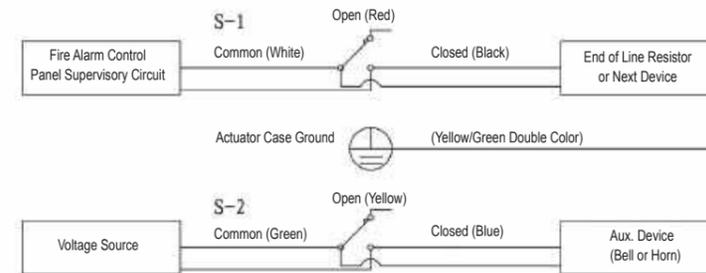


MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Seat	EPDM & Backing	NBR/Fluororubber&Backing EPDM/NBR Vulcanized on Valve Body Soft Seat in EPDM/NBR
3	Disc	EN-GJS-450-10	SS304, SS316, AL-Bronze C95400
4	Stem	SS420, One-Piece Stem Design	SS304, SS316, SS416, SS431
5	O-Ring	NBR	EPDM
6	Bushing	PTFE	Nylon 1010
7	Signal Gear Box	EN-GJS-450-10	

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

SWITCH WIRING DIAGRAM



DN		Dimensions(mm)													
Inch	mm	A	B	M	H	H1	H2	H3	K	G	ØD	C	Ø2	L	ISO 5211
2"	50	140.5	64.5	150	208	151	65	108	90	59	53.9	43	14	32	F07
2.5"	65	153	72	150	208	151	65	108	90	59	65.2	46	14	32	F07
3"	80	157.5	86	150	208	151	65	108	90	59	79.7	46	14	32	F07
4"	100	176	100	150	208	151	65	108	90	59	105	52	16	32	F07
5"	125	191	112	150	208	151	65	108	90	59	130	56	16	32	F07
6"	150	202.5	128	150	208	151	65	108	90	59	156	56	20	32	F07
8"	200	243.5	162	250	303	239	73	115	125	77.5	207	60	26	45	F10
10"	250	273	194	250	303	239	73	115	125	77.5	253.3	68	26	45	F10
12"	300	311	223	250	303	229	73	120	125	77.5	301.9	78	28	45	F10

Note: Not designed for dead end service

BS Standard Check Valve

• Statement:

Check valves serve to prevent the backflow of medium in the piping system for protection of important equipments, widely used in the field of potable water, water supply and drainage, sewage disposal, irrigation, air conditioning, fire protection as well as chemical and energy industry.

• Features:

1. Material: Ductile Iron EN-GJS-450-10
Valve body, bonnet, disc are all produced in ductile iron material which provides guarantee for high strength and good corrosion resistance.
2. Fusion bonded epoxy coating
Fusion bonded epoxy coating in accordance with ANSI/AWWA C550 for both interior and exterior surface which provides reliable corrosion resistance.
3. Small hydraulic friction loss with reasonable structure design



- Body & Bonnet: Ductile Iron
- Disc: D.I.+EPDM or D.I. + Bronze or Stainless Steel Sealing
- Bronze or Stainless Steel Seat
- Fusion Bonded Epoxy Coating



H44X2
Flanged Resilient Swing
Check Valve
Page 28



H84X
Grooved Resilient Swing
Check Valve
Page 29

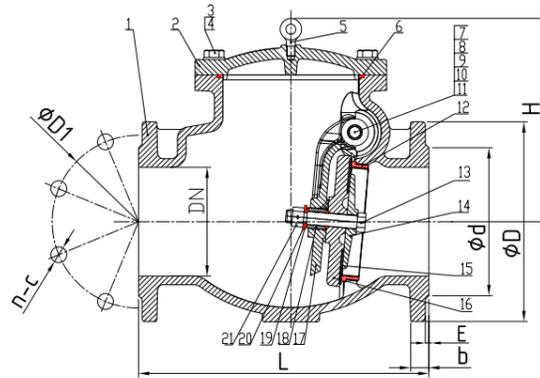
BS EN12334 Flanged Resilient Swing Check Valve (H44X2), PN10/16, UL/FM Approved



H44X2



- Connection Ends: Flange to BS EN 1092-2:1997
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Bonnet	EN-GJS-450-10	
3	Flat Washer	Carbon Steel Zinc Plated	
4	Bolts	Carbon Steel Zinc Plated	
5	Eye Bolt	Carbon Steel Zinc Plated	
6	O-Ring	EPDM	NBR
7	Plug	SS304	Bronze ASTM B584
8	O-Ring	EPDM	NBR
9	Hinge Pin	SS304	SS316
10	Washer	Brass ASTM B16 C36000/Hpb63-3	SS304
11	Hinge Bushing	Brass ASTM B16 C36000/Hpb63-3	SS304
12	Seat Ring	Bronze ASTM B62 C83600/ZQSn5-5-5(Pressed Fit)	SS304
13	Disc Seat Bolts	SS304	
14	Retainer Washer	Bronze ASTM B62 C83600/ZQSn5-5-5	
15	Disc Seat Ring	EPDM	NBR
16	Disc	EN-GJS-450-10	
17	Clapper Arm	EN-GJS-450-10	
18	Disc Bushing	Brass ASTM B16 C36000/Hpb63-3	
19	O-Ring	EPDM	NBR
20	Washer	Brass ASTM B16 C36000/Hpb63-3	SS304
21	Nut	Bronze ASTM B62 C83600/ZQSn5-5-5	SS304

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	d	b	E	H	n-Φd
2"	50	10/16	203	165	125	99	19	3	133	4-Φ19
2.5"	65	10/16	216	185	145	118	19	3	150	4-Φ19
3"	80	10/16	241	200	160	132	19	3	243	8-Φ19
4"	100	10/16	292	220	180	156	19	3	284	8-Φ19
6"	150	10	356	285	240	211	19	3	290	8-Φ23
		16								
8"	200	10	495	340	295	266	20	3	330	8-Φ23
		16								
10"	250	10	622	405	350	319	22	3	350	12-Φ23
		16			355					12-Φ28
12"	300	10	698	460	400	370	24.5	4	376	12-Φ23
		16			410					12-Φ28

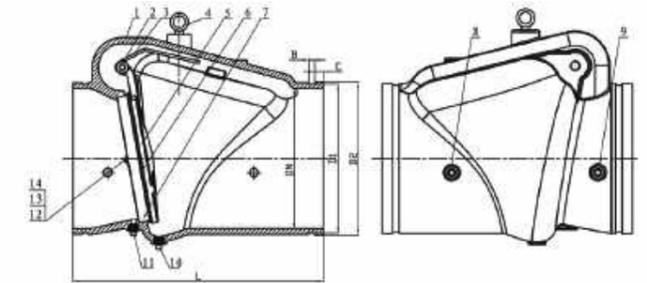
Grooved Resilient Swing Check Valve (H84X), PN10/16, UL Listed



H84X



- Connection Ends: Groove to ISO 6182
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Hinge Pin	SS420	
3	Spring	SS304	SS316
4	Eye Bolt	Carbon Steel Zinc Plated	
5	Disc	DN50-100 SS304 DN150-300 EN-GJS-450-10	SS304
6	Disc Sealing Ring	EPDM	NBR
7	Seat Ring	ASTM B62 C83600 (Pressed Fit)	SS304, SS316 Pressed Fit or Threaded
8	Plug	Malleable Iron Galvanized	Bronze ASTM B584
9	Plug	Malleable Iron Galvanized	Bronze ASTM B584
10	Plug	Malleable Iron Galvanized	Bronze ASTM B584
11	Plug	Malleable Iron Galvanized	Bronze ASTM B584
12	Bolt	SS304	SS316
13	Washer	SS304	SS316
14	Nut	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	D1	D2	B	C
2"	50	16	171	57.15	60.3	7.93	15.88
2.5"	65	16	184	69.09	73	7.93	15.88
2.5"	65	16	184	72.26	76.1	7.93	15.88
3"	80	16	197	84.94	88.9	7.93	15.88
4"	100	16	210	110.08	114.3	9.53	15.88
5"	125	16	248	135.48	139.7	9.53	15.88
5"	125	16	248	137.03	141.3	9.53	15.88
6"	150	16	324	160.90	165.1	9.53	15.88
6"	150	16	324	163.96	168.3	9.53	15.88
8"	200	16	371	214.40	219.1	11.13	19.05
10"	250	16	457	268.28	273.0	12.70	19.05
12"	300	16	535	318.29	323.9	12.70	19.05

Y-Type Strainer

Statement:

Installed before relief valves, atmospheric valves, hydraulic control valves as well as other equipments, strainers serve to filter out the impurities in the flow medium for protection of valves and equipments in the piping system.

Features:

1. Material: Ductile Iron EN-GJS-450-10
Valve body and cover are produced in ductile iron material which provides guarantee for high strength and good corrosion resistance.
2. Different Options of Screen Mesh Specification
Different options of screen mesh specification available as per different service conditions.
3. Fusion Bonded Epoxy Coating
Fusion bonded epoxy coating in accordance with ANSI/AWWA C550 for both interior and exterior surface which provides reliable corrosion resistance.



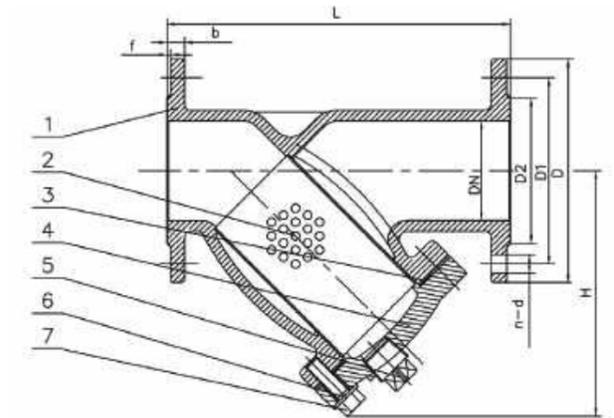
- Ductile Iron Body & Bonnet
- Stainless Steel Screen
- Fusion Bonded Epoxy Coating
- Gasket: EPDM or Graphite + Acanthopore Plate

Flanged Y-Type Strainer (V4), PN10/16, UL Listed



V4
UL LISTED

- Connection Ends: Flange to BS EN 1092-2:1997
- Working Pressure: PN10/16
- Temperature Range: 0°C- 80°C rubber gasket,
-10°C- 350°C graphite gasket
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

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	EPDM	Graphite+Acanthopore Plate
4	Bonnet	EN-GJS-450-10	
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

STANDARD SCREEN

DN		Sieve No.	Hole Dia.	Free Flow Area(%)
Inch	mm		mm	%
2"-2.5"	50-65	25	4	48
3"-4"	80-100	19	5	59
5"	125	14	6	63
6"-12"	150-300	13	6.3	64

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



V4
Flanged Y-Type Strainer
Page 31



V8
Grooved Y-Type Strainer
Page 32

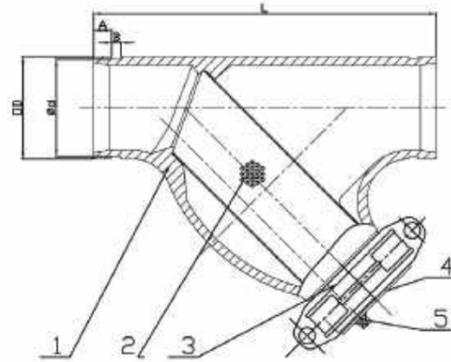
DN		PN	Dimensions(mm)							
Inch	mm		L	D	D1	D2	b	n-Φd	f	H
2"	50	10/16	230	165	125	99	19	4-Φ19	3	140
2.5"	65	10/16	290	185	145	118	19	4-Φ19	3	175
3"	80	10/16	310	200	160	132	19	8-Φ19	3	198
4"	100	10/16	350	220	180	156	19	8-Φ19	3	229
5"	125	10/16	400	250	210	184	19	8-Φ19	3	287
6"	150	10/16	480	285	240	211	19	8-Φ23	3	304
8"	200	10	600	340	295	266	20	8-Φ23	3	370.5
		16						12-Φ23		
10"	250	10	730	405	350	319	22	12-Φ23	3	469
		16			355			12-Φ28		
12"	300	10	850	460	400	370	24.5	12-Φ23	4	540
		16			410			12-Φ28		

Grooved Y-Type Strainer (V8), PN10/16, UL Listed



V8
UL LISTED

- Connection Ends: Groove to ISO 6182
- Working Pressure: PN10/16
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	EN-GJS-450-10	
2	Screen	SS304	SS316
3	Rigid Coupling	EN-GJS-450-10	
4	Cap	EN-GJS-450-10	
5	Plug	Malleable Iron Galvanized	Bronze ASTM B584

STANDARD SCREEN

DN		Sieve No.	Hole Dia.	Free Flow Area(%)
Inch	mm		mm	%
2"-2.5"	50-65	25	4	48
3"-4"	80-100	19	5	59
5"	125	14	6	63
6"-12"	150-300	13	6.3	64

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

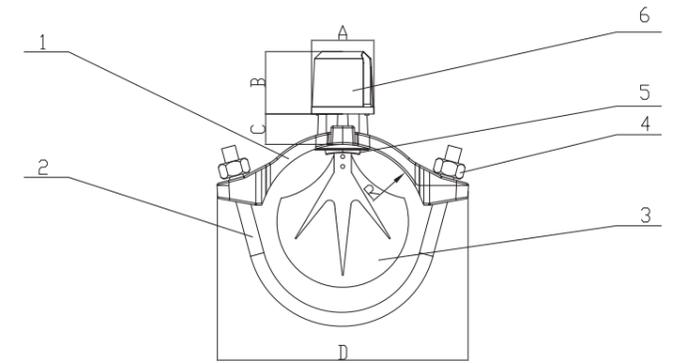
DN		Dimensions(mm)				
Inch	mm	L	OD	d	A	B
2"	50	247.5	60.3	57.15	15.88	7.92
2.5"	65	273	73	69.09	15.88	7.92
2.5"	65	273.0	76.1	72.26	15.88	7.92
3"	80	298.5	88.9	84.94	15.88	7.92
4"	100	362.0	114.3	110.08	15.88	9.52
5"	125	419.0	139.7	135.48	15.88	9.52
5"	125	419	141.3	137.03	15.88	9.52
6"	150	470.0	165.1	160.90	15.88	9.52
6"	150	470.0	168.3	163.96	15.88	9.52
8"	200	609.5	219.1	214.40	19.05	11.13
10"	250	686.0	273.0	268.28	19.05	12.70
12"	300	762.0	323.9	318.29	19.05	12.70

Water Flow Indicator (ZSJZ), PN10/16



ZSJZ

- Connection Ends: ISO 6182
- Working Pressure: PN10/16
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	EN-GJS-450-10	
2	Bolt	Carbon Steel Zinc Plated	SS304, SS316
3	Lodicule	Plastic	
4	Nut	Carbon Steel Zinc Plated	SS304, SS316
5	Gasket	EPDM	NBR

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

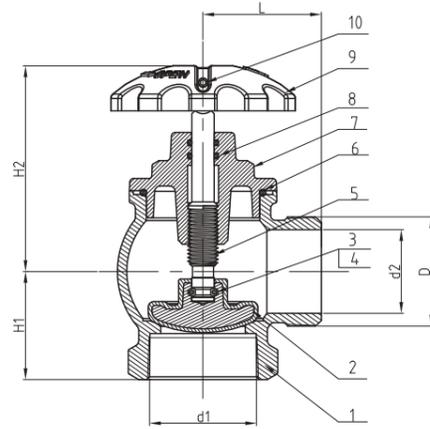
DN		Dimensions(mm)				
Inch	mm	R	A	B	C	D
2"	50	60.3	62	48	36	120
2.5"	65	73	62	48	31	130
2.5"	65	76.1	62	48	31	130
3"	80	88.9	62	48	36.5	145
4"	100	114.3	62	48	30.5	185
5"	125	139.7	62	48	36.5	221.5
5"	125	141.3	62	48	36.5	221.5
6"	150	165.1	62	48	33	254
6"	150	168.3	62	48	33	254
8"	200	219.1	62	48	36.5	300

Landing Valve(SN), PN10/16



SN

- Thread: ISO 7-1
- Working Pressure: PN10/16
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Body	EN-GJS-450-10
2	Disc	EN-GJS-450-10+EPDM
3	Steel Ball	SS304
4	Inner Hex Screw	SS304
5	Stem	SS420
6	O-Ring	NBR
7	Bonnet	EN-GJS-450-10
8	O-Ring	NBR
9	Handwheel	ABS
10	Screw	SS304

DN		Dimensions(mm)					
Inch	mm	H1	H2	L	d1(Rc)	d2	D(R)
2"	50	57.5	109.5	63	2	44.5	2
2.5"	65	71	109.3	71	2 ^{1/2}	58	2 ^{1/2}

Wet Alarm Check Valve

• Statement:

The alarm check valve works as a check valve by preventing the reverse flow of water from the system piping to the water supply. The valve is trimmed with a water bypass line, which has an in-line swing check valve. The bypass line allows pressure surges to enter the system and to be trapped above the alarm check valve's clapper without the clapper lifting and causing false alarms.

When a significant flow of water occurs, such as from an open sprinkler, the alarm valve's clapper lifts and allows water to enter the system. Simultaneously, water enters an intermediate chamber, which allows the water to activate an alarm either through a water motor alarm or through a water pressure alarm. These alarms continue to sound until the flow of water is stopped.



DN		Dimensions(mm)	
Inch	mm	OD	Equivalent Length of Pipe (m)
3"	80	88.9	4.9
4"	100	114.3	7.9
6"	150	165.1	9.8
6"	150	168.3	9.8
8"	200	219.1	8.2

