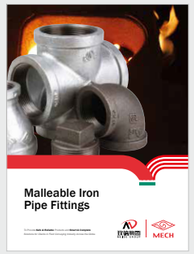
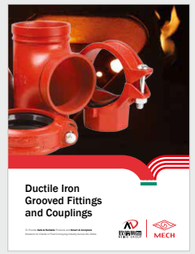
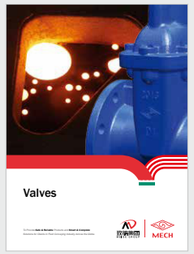
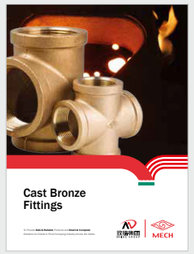
MECH FLOW SUPPLIES

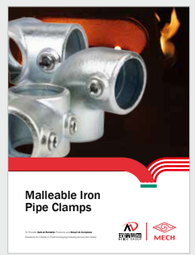


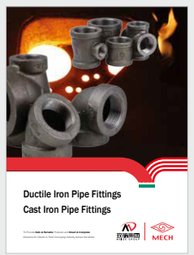


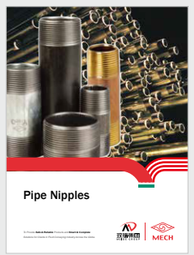












玫德集团 MEIDE GROUP | MECH

JINAN MEIDE CASTING CO., LTD.

Address: Meide Industrial Science and Technology City,
Industrial Park Pingyin, Jinan, China 250400
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Email: info@meide-casting.com
Http: //www.meide-casting.com

UPDATED 05/2026



Valves For Fire Protection

American Standard

*To Provide **Safe & Reliable** Products and **Smart & Complete** Solutions for Clients in Fluid Conveying Industry Across the Globe.*

玫德集团 MEIDE GROUP | MECH



More than 60 years of Foundry Experience

Company Profile

Meide Group is a high-tech enterprise specialized in supplying fttings and valves in fluid industry. The company has won more than 400 great honors, such as Single Champion Demonstration Enterprise, Green Manufacturing Enterprise, China's top 100 Light Industrial Enterprise, China's Leading Enterprise of Malleable Iron Pipe Fitting Production Base, National Enterprise with Good Creditworthiness and China's Famous Brand.

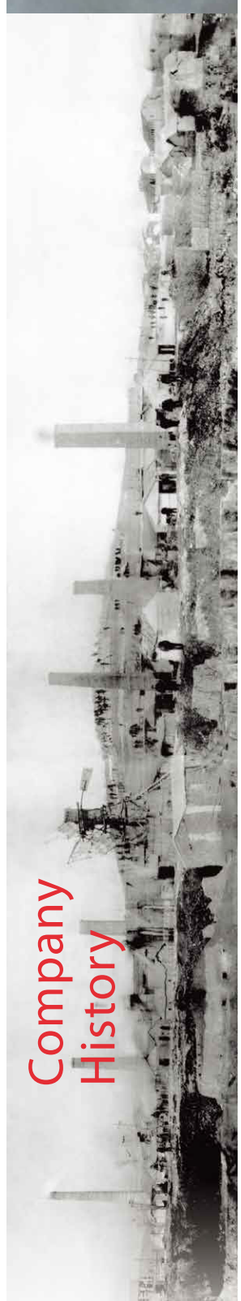
Inheriting the originality, and striving for excellence. "MECH" brand products are widely used in Buri Khalifa, dubai, new WTC in New York Shanghai Tower, UHV transmission lines and other landmark buildings and projects such as Beijing-Shanghai high-speed railway. Adhering to the customer-centered product development and innovation concept, to meet and guide the growing needs of users, to provide safe & reliable products and smart & complete solutions for clients in fluid industry across the globe, Meide Group has become the industry leader.

Using development innovation platform such as National Enterprise Technical Center and Post-Doctoral Research Center, Meide Group is promoting the transformation of technology innovation achievements into productive forces, has completed the transformation of production process from mechanization to automation and intelligence, management from experience to institutionalization and process, marketing is from selling products to offering solutions, steadily improve Meide Group's role in the global value chain.

Through the construction of three production bases, including Jinan, Linyi and Bangkok, Meide Group has formed a cross-regional, multi-base international development pattern. Meide Group never forgets the original intention, operates in compliance, keeps growing, insists on sharing development results with customers, employees, shareholders and the community, and strive to be a happy and respectable company.



Company History



2021
- Carbon Steel Press
- Water Meter / Electricity Meter / Gas Meter



2020
- Counterweight Iron



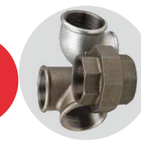
2019
- Stainless Steel Pipe Fittings
- Fire Production Hose



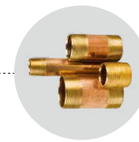
2018
- Anti-vibration bracket



2014
- "MECH" Malleable Iron
- Pipe Fittings for Fire Protection



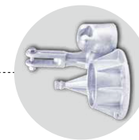
2012
- Extra-heavy Brass Pipe Nipples



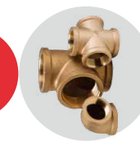
2011
- Valves



2007
- Electric Power Fittings



2003
- Bronze Fittings



2001
- Ductile Iron Pipe Fittings



2000
- Ductile Iron Grooved Fittings
- and Couplings / Ball Valves



1999
- Pipe Hangers and Brackets



1998
- Malleable Iron Pipe Clamps



1997
- Steel Pipe Nipples Red Brass Pipe Nipples

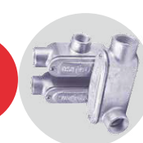


1995
- Cast Iron Fittings



1993
- Self Export, Developed US and European Market

1990
- Conduit Body



1987
- Export, Main Market: Southeast Asia



1970
- Malleable Iron Pipe Fittings



1961
- Business Started from Grey Iron Pot



State of the Art Equipment

High precision equipment is quality assurance.
Jinan Meide's factories are all equipped with the most advanced facilities and equipment in the industry. The main production facilities include Sinto automatic molding line, Tokyu automatic molding line, Chinese 416 automatic vertical molding line, automatic molding sand mixers, cupola furnaces, electric furnaces, water-cooled longevous cupola furnaces, CNC vertical machining centers, CNC machines, NC vertical lathes, radial drills, Jinan Meide proprietary automatic machines, hot-dipped galvanization line, automatic box sealing line, stereoscopic warehouse and so on.





Pattern



Core Making



Sand Mulling



Melting



Sinto FCMX



DISA





Tokyu AMF-111055



Pouring



Machining



Epoxy Coating



Assembling



Warehouse



Reliable Quality Assurance

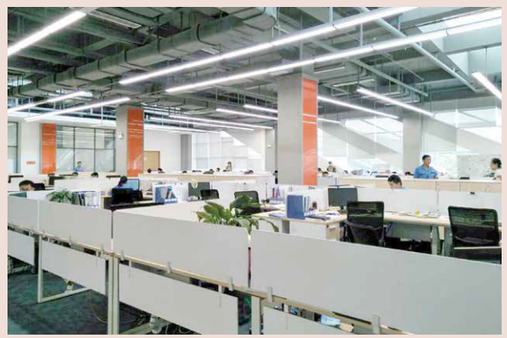
Jinan Meide is honored as the National enterprise technical center and is capable and qualified to conduct full series of tests and inspections including chemical checking, etc.

Inspection facilities include: spectrometer, carbon sulfur analyzer, metallurgical microscope, tensile strength testing equipment, pressure testing equipment, adhesive force testing equipment, CMM, hardness tester, etc.

From incoming inspection to finished product, quality is checked and monitored in the whole process. Each step of the manufacturing process is carefully documented, regularly reviewed for revision control and updating standard. Quality procedures are constantly monitored and updated to assure that only the highest and most consistent quality products are supplied to our valued customers.



Metallurgical Microscope



R & D



Spectrometer



CMM



Projector



Pipe line



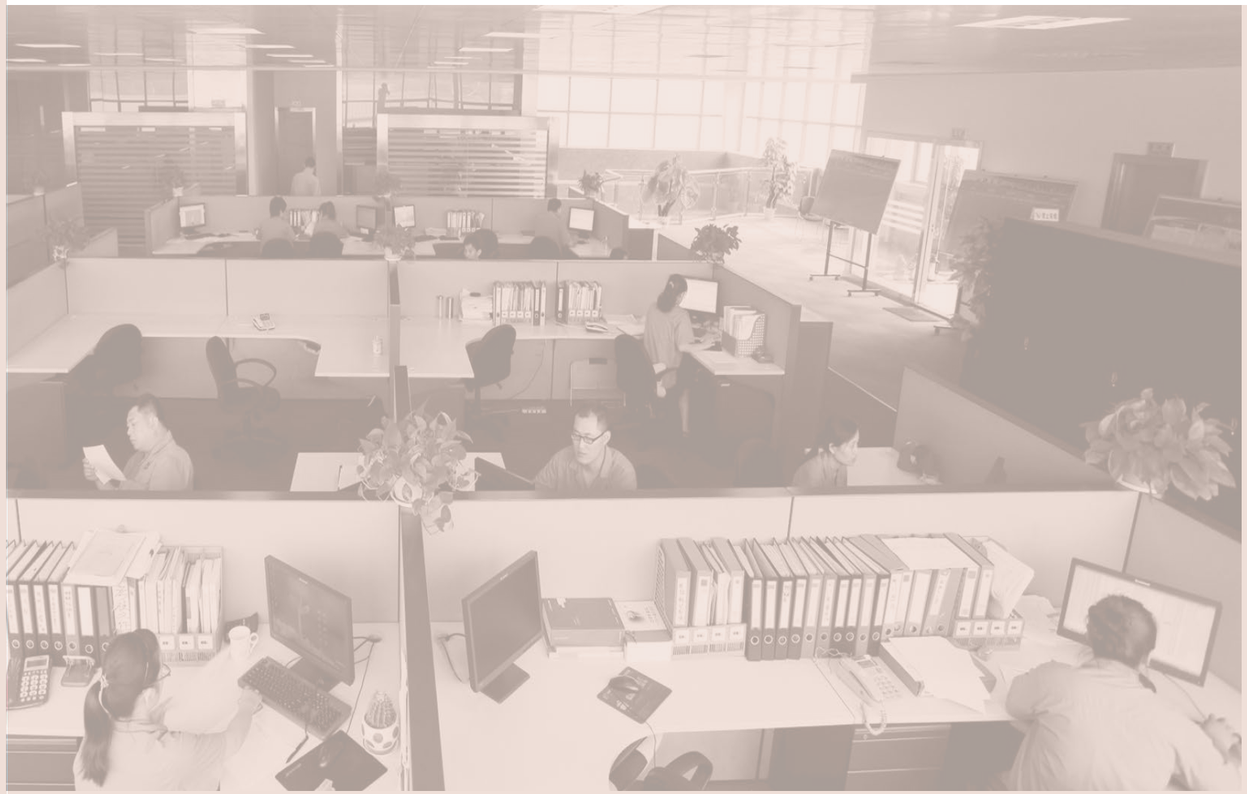
Valve Pressure Testing Machine (Vertical)



Endurance Test Machine



Valve Pressure Testing Machine (Horizontal)



Certificates









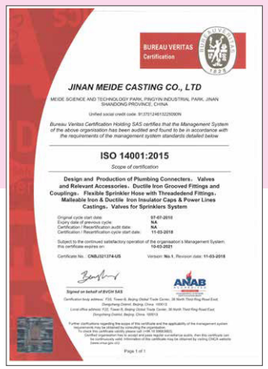




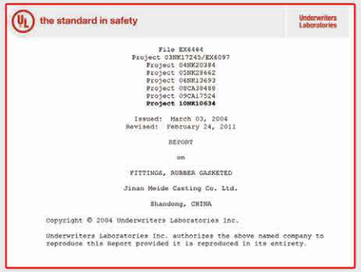






































• XZ81X

Grooved Resilient OS&Y Gate Valve



• XZ41X

Flanged Resilient OS&Y Gate Valve



• XZ41X

363PSI Flanged Resilient OS&Y Gate Valve



• XZ51X

Flanged x Grooved Resilient OS&Y Gate Valve



• MXHQ

Supervisory Switch for OS&Y Gate Valve



• Z85X

Grooved Resilient NRS Gate Valve



• Z45X

363PSI Flanged Resilient NRS Gate Valve



• Z45XC

Flanged Resilient NRS Gate Valve



• Z45XC-2

Flanged Resilient NRS Gate Valve with Post Flange



• Z45XC-2

363PSI Flanged Resilient NRS Gate Valve with Post Flange



• Z35XC-2

Awwamechanical Resilient Nrs Gate Valve



• IP

Vertical Indicator Post



• WP

Wall Indicator Post



• ZXHQ

Supervisory Switch for Indicator Post



• D71X4

Wafer Butterfly Valve



• XD381X

Grooved Butterfly Valve with Tamper Switch



• XD381XG

Grooved Butterfly Valve with Normally Closed Tamper Switch



• XD381XC

Grooved Butterfly Valve with Tamper Switch



• XD381X4-C

Grooved Butterfly Valve with Tamper Switch



• D81X4

Grooved Butterfly Valve



• XD371X

Wafer Butterfly Valve with Tamper Switch



• XD371XG

Wafer Butterfly Valve with Normally Closed Tamper Switch



• XD371XL

Lugged Wafer Butterfly Valve with Tamper Switch



• XD371XLG

Lugged Wafer Butterfly Valve with Normally Closed Tamper Switch



• XD311X

Threaded Butterfly Valve with Tamper Switch



• H84X

Grooved Resilient Swing Check Valve



• H24X

Male NPT x Groove Connection Check Valve



• DH87XP

Double Door Grooved Check Valve



• H44X2/ H44X2A

Flanged Resilient Swing Check Valve



• H44T2/H44T2A

Flanged Metal Seated Swing Check Valve



• DH77XSR

Double Door Wafer Check Valve



• HSB4X

Backwater Valve



• ARVX

Micro Air Bleeding Valve



• V8

Grooved Y-Type Strainer



• V4

Flanged Y-Type Strainer



• ZSFZ8X9

Grooved Wet Alarm Check Valve



• ZSFZ4X9

Flanged Wet Alarm Valve



• SK790X

Deluge Alarm Valve



• ZSJZYS

Water Flow Indicator with Retard



• ZSJZ

Water Flow Indicator

• YLKG

Pressure Switch

• SSF

Dry Barrel Fire Hydrant

• SSF-J

Mechanical Joint Dry Barrel Fire Hydrant

• SSZ

Wet-Barrel Fire Hydrant

• SSZ2

Wet Barrel Fire Hydrant

• SN

Indoor Fire Hydrant

• XZ45W

Dry Riser Landing Valve Flanged

• XZ15W

Dry Riser Landing Valve Threaded

• XZ25W

Dry Riser Landing Valve Threaded

• TADV

Test and Drain Valve

• ZSPM-80-DX

Electric Inspector's Test Connection

• ZSPM-80-SA

Manual Inspector's Test Connection

• XTQ1RF

Flexible Rubber Joint Single Sphere

• XTQ2RF

Flexible Rubber Joint Twin Sphere

• XTQ2L

Flexible Rubber Joint Twin Sphere

• ZSQKFX1

Shotgun Riser Check Valve

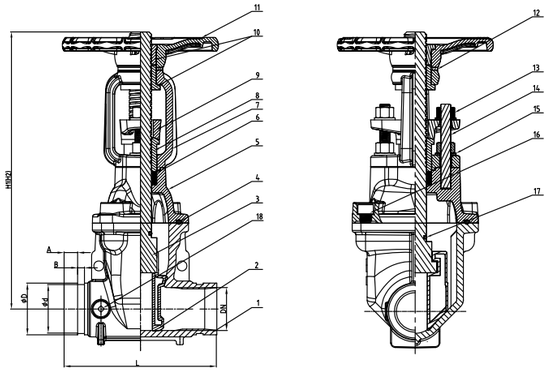
Grooved Resilient OS&Y Gate Valve (XZ81X), UL/FM Approved

NSF/ANSI 61 NSF/ANSI 372
OC3073.7



XZ81X

cULus LISTED FM APPROVED



- Connection Ends: Groove to AWWA C606
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4℃ - 60℃
- 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	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	Stainless Steel	AISI 304, AISI 316
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	Washer	Brass HPb59-1	
7	Yoke	ASTM A536, 65-45-12	
8	Stem Bushing	Brass Hpb59-1	
9	Gland	ASTM A536, 65-45-12	
10	Stem Nut	Brass Hpb59-1	Bronze ZQSn5-5-5
11	Handwheel	ASTM A536, 65-45-12	
12	Washer	Brass Hpb59-1	
13	Gland Nut	AISI 304	AISI 316
14	Stud	AISI 304	AISI 316
15	Flat Washer	AISI 304	AISI 316
16	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
17	O-Ring	NBR	EPDM

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.
Size 2"~3" with 1pc of 3/8" bronze NPT tapping plug, size 4"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.

DN		Dimensions(mm)						
Inch	mm	L	H1(Close)	H2(Open)	OD	d	A	B
2"	50	178	348	400	60.3	57.15	15.88	7.92
2.5"	65	190	373	440	73	69.09	15.88	7.92
3"	80	203	408	490	88.9	84.94	15.88	7.92
4"	100	229	471	573	114.3	110.08	15.88	9.52
5"	125	254	541	665	141.3	137.03	15.88	9.52
6"	150	267	601	755	168.3	163.96	15.88	9.52
8"	200	292	774	975	219.1	214.4	19.05	11.13
10"	250	330	1029	1283	273	268.28	19.05	12.7
12"	300	356	1065	1370	323.9	318.29	19.05	12.7

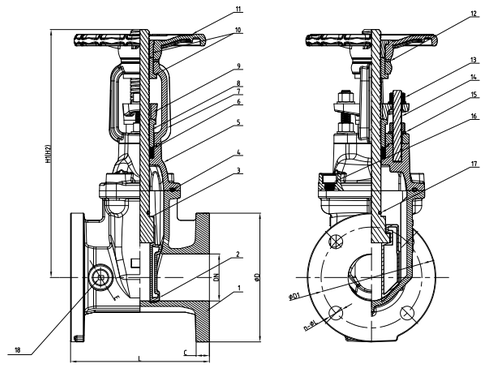
Flanged Resilient OS&Y Gate Valve (XZ41X), UL/FM Approved

NSF/ANSI 61 NSF/ANSI 372
OC3073.7



XZ41X

cULus LISTED FM APPROVED



- Connection Ends: Flange to ASME B16.1 CL 125
  ASME B16.42 CL150
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4℃ - 60℃
- Coating: Fusion Bonded Epoxy Coating Complies with ANSI/ AWWA C550



XZ41X-1

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	Stainless Steel	AISI 304, AISI 316, Al-bronze
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	Packing	EPDM	
7	Yoke	ASTM A536, 65-45-12	
8	Stem Bushing	Brass Hpb59-1	
9	Gland	ASTM A536, 65-45-12	
10	Stem Nut	Brass Hpb59-1	Bronze ZQSn5-5-5
11	Handwheel	ASTM A536, 65-45-12	
12	Washer	Brass Hpb59-1	
13	Gland Nut	AISI 304	AISI 316
14	Stud	AISI 304	AISI 316
15	Flat Washer	AISI 304	AISI 316
16	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
17	O-Ring	NBR	EPDM
18	Plug	C89833	

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.
Size 2"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.

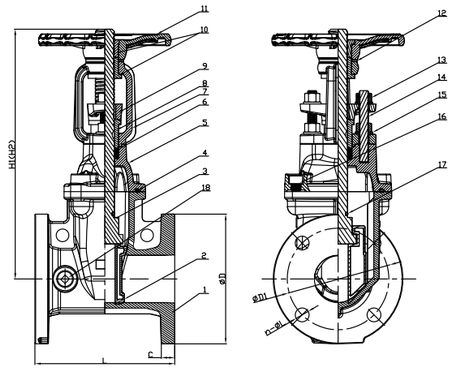
DN		Dimensions(mm)						
Inch	mm	L	H1(Close)	H2(Open)	D	D1	C	n-ΦL
2"	50	178	348	400	152	120.7	16.0	4-Ø19.1
2.5"	65	190	373	440	178	139.7	17.5	4-Ø19.1
3"	80	203	408	490	191	152.4	19.1	4-Ø19.1
4"	100	229	471	573	229	190.5	19.1	8-Ø19.1
5"	125	254	541	665	254	215.9	19.1	8-Ø22.2
6"	150	267	601	755	279	241.3	19.1	8-Ø22.2
8"	200	292	774	975	343	298.5	22.2	8-Ø22.2
10"	250	330	939	1193	406	362.0	23.8	12-Ø25.4
12"	300	356	1065	1370	483	431.8	25.4	12-Ø25.4
14"	350	381	1415	1780	528	476.3	25.4	12-Φ28.6
16"	400	406	1385	1790	592	539.8	25.4	16-Φ28.6
18"	450	432	1835	2290	635	577.9	25.4	16-Φ31.8
20"	500	457	1830	2380	710	635	28.6	20-Φ31.8
24"	600	508	2030	2830	836	749.3	30.1	20-Φ34.9

363PSI Flanged Resilient OS&Y Gate Valve (XZ41X), UL/FM Approved



XZ41X

- Connection Ends: Flange to ASME B16.1 CL 125
  ASME B16.42 CL150
- Working Pressure: 363PSI
- Temperature Range: 4℃ - 60℃
- Coating: Fusion Bonded Epoxy Coating Complies with ANSI/ AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	Stainless Steel	AISI 304, AISI 316, Al-bronze
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	Packing	EPDM	
7	Yoke	ASTM A536, 65-45-12	
8	Stem Bushing	Brass Hpb59-1	
9	Gland	ASTM A536, 65-45-12	
10	Stem Nut	Brass Hpb59-1	Bronze ZQSn5-5-5
11	Handwheel	ASTM A536, 65-45-12	
12	Washer	Brass Hpb59-1	
13	Gland Nut	AISI 304	AISI 316
14	Stud	AISI 304	AISI 316
15	Flat Washer	AISI 304	AISI 316
16	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
17	O-Ring	NBR	EPDM
18	Plug	ASTM B584-06a C89833	C4430

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.
Size 2"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.

DN		Dimensions(mm)						
Inch	mm	L	H1(Close)	H2(Open)	D	D1	C	n-ΦL
2"	50	178	348	400	152	120.7	16	4-Φ19.1
2.5"	65	190	373	440	178	139.7	17.5	4-Φ19.1
3"	80	203	408	490	191	152.4	19.1	4-Φ19.1
4"	100	229	471	573	229	190.5	19.1	8-Φ19.1
5"	125	254	541	665	254	215.9	19.1	8-Φ22.2
6"	150	267	601	755	279	241.3	19.1	8-Φ22.2
8"	200	292	774	975	343	298.5	22.2	8-Φ22.2
10"	250	330	939	1193	406	362	23.8	12-Φ25.4
12"	300	356	1065	1370	483	431.8	25.4	12-Φ25.4

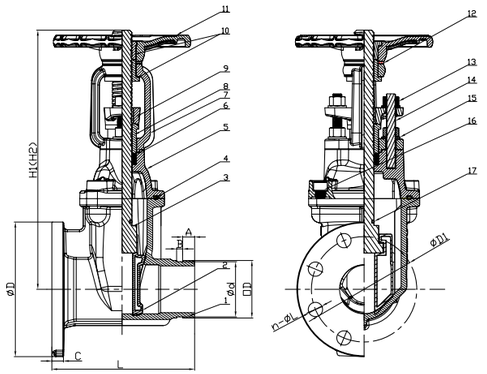
Flanged x Grooved Resilient OS&Y Gate Valve (XZ51X), UL/FM Approved



XZ51X

NSF/ANSI 61 NSF/ANSI 372
0C3073.7

- Connection Ends: Flange to ASME B16.1 CL 125
  Groove to AWWA C606
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4℃ - 60℃
- Coating: Fusion Bonded Epoxy Coating Complies with ANSIAWWA C550



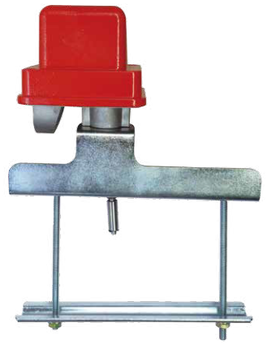
MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	Stainless Steel	AISI 304, AISI 316, Al-bronze
4	Bonnet Gasket	EPDM	
5	Bonnet	ASTM A536, 65-45-12	
6	Stem Packing	EPDM	
7	Yoke	ASTM A536, 65-45-12	
8	Stem Bushing	Brass Hpb59-1	
9	Gland	ASTM A536, 65-45-12	
10	Stem Nut	Brass Hpb59-1	Bronze ZQSn5-5-5
11	Handwheel	ASTM A536, 65-45-12	
12	Washer	Brass Hpb59-1	
13	Gland Nut	AISI 304	AISI 316
14	Stud	AISI 304	AISI 316
15	Flat Washer	AISI 304	AISI 316
16	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
17	O-Ring	NBR	EPDM

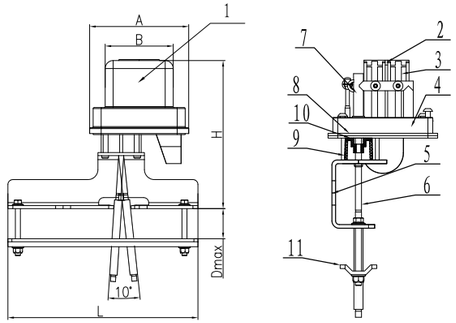
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.
Size 2"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.

DN		Dimensions(mm)									
Inch	mm	L	H1(Close)	H2(Open)	D	D1	C	n-ΦL	OD	d	A
2"	50	178	348	400	152	120.7	16.0	4-Φ19.1	60.3	57.15	15.88
2.5"	65	190	373	440	178	139.7	17.5	4-Φ19.1	73.0	69.09	15.88
3"	80	203	408	490	191	152.4	19.1	4-Φ19.1	88.9	84.94	15.88
4"	100	229	471	573	229	190.5	19.1	8-Φ19.1	114.3	110.08	15.88
5"	125	254	541	665	254	215.9	19.1	8-Φ22.2	141.3	137.03	15.88
6"	150	267	601	755	279	241.3	19.1	8-Φ22.2	168.3	163.96	15.88
8"	200	292	774	975	343	298.5	22.2	8-Φ22.2	219.1	214.4	19.05
10"	250	330	1029	1283	406	362.0	23.8	12-Φ25.4	273.0	268.28	19.05
12"	300	356	1065	1370	483	431.8	25.4	12-Φ25.4	323.9	318.29	19.05

Supervisory Switch for OS&Y Gate Valve (MXHQ)



MXHQ



- Service Environment: Indoor or Outdoor use, all parts have corrosion resistant finishes
- Temperature Range: 4℃ - 60℃
- Cover Tamper: Tamper Resistant Screws
  Optional Cover Tamper Switch Available
- Electrical Ratings: 15 Amps at 125/250VAC
- Appliance Standards: NFPA-13, NFPA-13D, NFPA-13R, NFPA-72
- Statement: The Model MXHQ Supervisory Switch is used to monitor the open or close status of an OS&Y (outside screw and yoke) type gate valve. There are two sizes, the model MXHQ D50 serves the OS&Y Gate valves ranging in size from 2"-16"(50mm - 400mm), the other model MXHQ D450 is fit for the OS&Y Gate valves ranging in size from 18"-24"(450mm - 600mm).

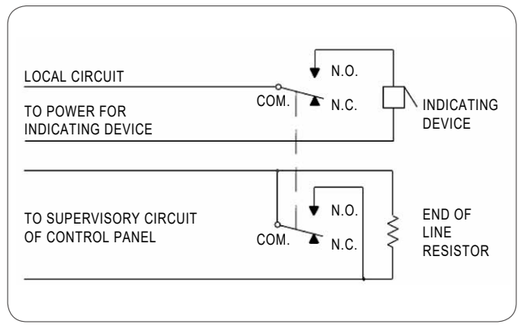
MATERIAL SPECIFICATION

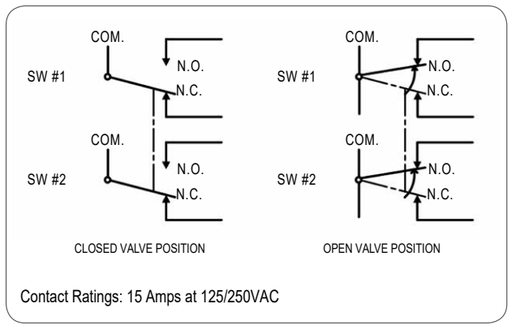
Part No.	Part	Standard Specification	Options
1	Outer Shell	ADC12	
2	Brace	Carbon Steel Q235	AISI 304, AISI 316
3	Micro Switch		
4	Base	ADC12	
5	Connection Plate	Carbon Steel Q235	AISI 304, AISI 316
6	Driving Lever	AISI 304	AISI 316
7	Axis	Nylon	
8	Sealing Gasket	CR Foam Cotton	
9	Pressing Sleeve	PTFE	
10	Rubber Ring	EPDM	
11	Clamp Plate	Carbon Steel Q235	

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

DN		Dimensions(mm)				
Inch	mm	A	B	H	L	Dmax
2"-16"	50-400	99	68	148	200	105
18"-24"	450-600	99	68	148	360	135

TYPICAL ELECTRICAL CONNECTIONS





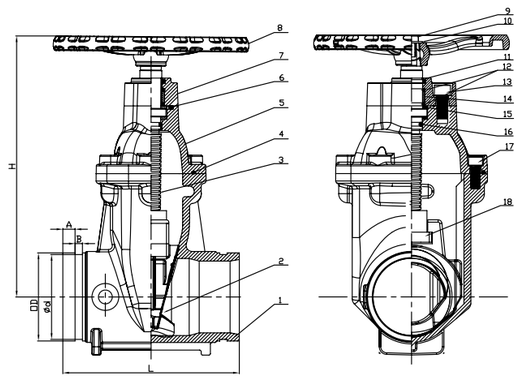
Contact Ratings: 15 Amps at 125/250VAC

Grooved Resilient NRS Gate Valve (Z85X), UL/FM Approved

NSF/ANSI 61 NSF/ANSI 372
0C3073.7



Z85X



- Connection Ends: Groove to AWWA C606
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4℃ - 60℃
- 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	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	Stainless Steel	AISI 304, AISI 316
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	EPDM
7	Gland	ASTM A536, 65-45-12	
8	Handwheel	ASTM A536, 65-45-12	
9	Bolt	AISI 304	AISI 316
10	Flat Washer	AISI 304	AISI 316
11	Ring Wiper	EPDM	NBR
12	O-Ring	AISI 304	AISI 316
13	Bolt	AISI 304	AISI 316
14	Axis Guide	Brass HPb59-1	
15	Washer	Brass HPb59-1	
16	O-Ring	NBR	EPDM
17	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
18	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.
Size 2"~3" with 1pc of 3/8" bronze NPT tapping plug, size 4"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.

DN		Dimensions(mm)					
Inch	mm	L	H	OD	d	A	B
2"	50	178	254	60.3	57.15	15.88	7.92
2.5"	65	190	275	73	69.09	15.88	7.92
3"	80	203	301	88.9	84.94	15.88	7.92
4"	100	229	355	114.3	110.08	15.88	9.52
5"	125	254	393	141.3	137.03	15.88	9.52
6"	150	267	448	168.3	163.96	15.88	9.52
8"	200	292	548	219.1	214.4	19.05	11.13
10"	250	330	626	273	268.28	19.05	12.7
12"	300	356	722	323.9	318.29	19.05	12.7

363PSI Flanged Resilient NRS Gate Valve (Z45X), UL/FM Approved



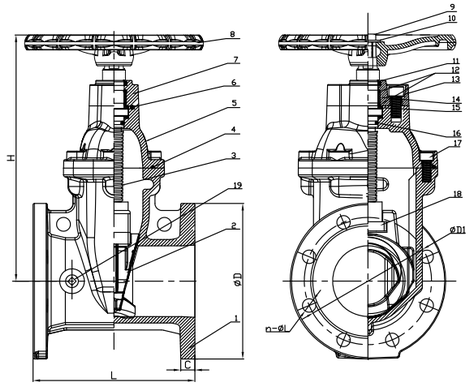
Z45X

- Connection Ends: Flange to ASME B16.1 CL 125
  ASME B16.42 CL150
- Working Pressure: 363PSI
- Temperature Range: 4℃ - 60℃
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



Z45XFF

- Design Standard: AWWA C515
  ASME B16.42 / ASME B16.10
- Connection Ends: ASME B16.42



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	Stainless Steel	AISI 304, AISI 316
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	EPDM
7	Gland	ASTM A536, 65-45-12	
8	Handwheel	ASTM A536, 65-45-12	
9	Bolt	AISI 304	AISI 316
10	Flat Washer	AISI 304	AISI 316
11	Ring Wiper	EPDM	NBR
12	O-Ring	AISI 304	AISI 316
13	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
14	Axis Guide	Brass HPb59-1	C44300
15	Washer	Brass HPb59-1	C44300
16	O-Ring	NBR	EPDM
17	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
18	Wedge Nut	Brass HPb59-1	C44300
19	Plug	ASTM B584-06a C89833	C44300

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.
Size 2"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.

DN		Dimensions(mm)						
Inch	mm	L	H	D	D1	C (Z45X)	C (Z45XFF)	n-ΦL
2"	50	178	254	152	120.7	16	19	4-Φ19.1
2.5"	65	190	275	178	139.7	17.5	22.3	4-Φ19.1
3"	80	203	301	191	152.4	19.1	23.8	4-Φ19.1
4"	100	229	355	229	190.5	19.1	23.8	8-Φ19.1
5"	125	254	393	254	215.9	19.1	23.8	8-Φ22.2
6"	150	267	448	279	241.3	19.1	25.4	8-Φ22.2
8"	200	292	548	343	298.5	22.2	28.6	8-Φ22.2
10"	250	330	626	406	362	23.8	30.2	12-Φ25.4
12"	300	356	722	483	431.8	25.4	31.8	12-Φ25.4

Flanged Resilient NRS Gate Valve (Z45XC), UL/FM Approved



NSF/ANSI 61 NSF/ANSI 372
0C3073.7

Z45XC

- Connection Ends: Flange to ASME B16.1 CL 125
  ASME B16.42 CL150
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4℃ - 60℃
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



0C3073.7
Z45X



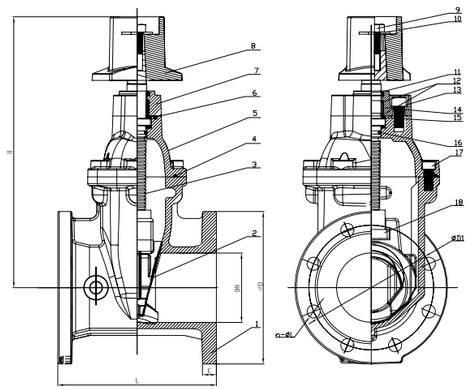
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Z35X



0C3073.7
Z05X



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Z55X



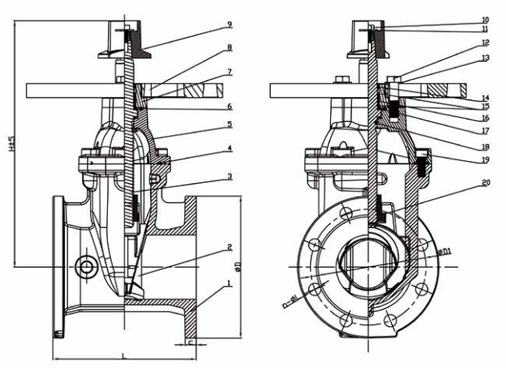
MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	Stainless Steel	AISI 304, AISI 316
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	EPDM
7	Gland	ASTM A536, 65-45-12	
8	Stem Cap	ASTM A536, 65-45-12	Pressed Steel
9	Bolt	AISI 304	AISI 316
10	Flat Washer	AISI 304	AISI 316
11	Ring Wiper	EPDM	NBR
12	O-Ring	NBR	EPDM
13	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
14	Axis Guide	Brass HPb59-1	
15	Washer	Brass HPb59-1	
16	O-Ring	NBR	EPDM
17	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
18	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.
Size 2"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.

DN		Dimensions(mm)						
Inch	mm	L	H(Z45X)	H(Z45XC)	D	D1	C	n-ΦL
2"	50	178	254	278	152	120.7	16.0	4-Ø19.1
2.5"	65	190	275	300	178	139.7	17.5	4-Ø19.1
3"	80	203	301	321	191	152.4	19.1	4-Ø19.1
4"	100	229	355	375	229	190.5	19.1	8-Ø19.1
5"	125	254	393	415	254	215.9	19.1	8-Ø22.2
6"	150	267	448	455	279	241.3	19.1	8-Ø22.2
8"	200	292	548	565	343	298.5	22.2	8-Ø22.2
10"	250	330	626	636	406	362.0	23.8	12-Ø25.4
12"	300	356	722	731	483	431.8	25.4	12-Ø25.4
14"	350	381	918	928	533	476.3	25.4	12-Ø28.6
16"	400	406	918	928	597	539.8	25.4	16-Ø28.6
18"	450	432	1108	1165	635	577.9	25.4	16-Ø31.8
20"	500	457	1130	1188	699	635	28.6	20-Ø31.8
24"	600	508	1321	1364	813	749.3	30.1	20-Ø34.9

Flanged Resilient NRS Gate Valve with Post Flange (Z45XC-2), UL/FM Approved



NSF/ANSI 372
0C3073.7



Z45XC-2

- Connection Ends: Flange to ASME B16.1 CL 125
  ASME B16.42 CL150
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4℃ - 60℃
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



Z05XC-2

0C3073.7



Z85XC-2

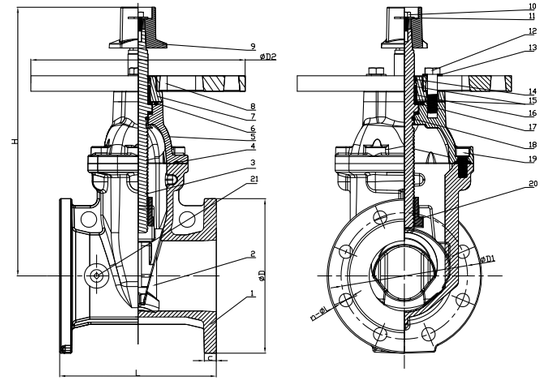
MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	Stainless Steel	AISI 304, AISI 316
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	
7	Gland	ASTM A536, 65-45-12	
8	Indicator Post Flange	ASTM A536, 65-45-12	
9	Square Operating Nut	ASTM A536, 65-45-12	
10	Bolt	AISI 304	AISI 316
11	Flat Washer	AISI 304	AISI 316
12	Bolt	AISI 304	AISI 316
13	Flat Washer	AISI 304	AISI 316
14	Ring Wiper	EPDM	NBR
15	O-Ring	NBR	EPDM
16	Axis Guide	Brass HPb59-1	
17	Washer	Brass HPb59-1	
18	O-Ring	NBR	EPDM
19	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
20	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.
Size 4"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.

DN		Dimensions(mm)					
Inch	mm	L	H	D	D1	C	n-ΦL
4"	100	229	395	229	190.5	19.1	8-Φ19.1
5"	125	254	432	254	215.9	19.1	8-Φ22.2
6"	150	267	475	279	241.3	19.1	8-Φ22.2
8"	200	292	585	343	298.5	22.2	8-Φ22.2
10"	250	330	656	406	362	23.8	12-Φ25.4
12"	300	356	751	483	431.8	25.4	12-Φ25.4
14"	350	381	952	533	476.3	25.4	12-Φ28.6
16"	400	406	952	597	539.8	25.4	16-Φ28.6
18"	450	432	1178	635	577.9	30	16-Φ31.8
20"	500	457	1199	699	635	31.5	20-Φ31.8
24"	600	508	1367	813	749.3	36	20-Φ34.9

363PSI Flanged Resilient NRS Gate Valve with Post Flange (Z45XC-2), UL/FM Approved





Z45XC-2

- Connection Ends: Flange to ASME B16.1 CL 125
  ASME B16.42 CL150
- Working Pressure: 363PSI
- Temperature Range: 4℃ - 60℃
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	AISI 420	AISI 316
4	Bonnet Gasket	EPDM	
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	
7	Gland	ASTM A536, 65-45-12	
8	Indicator Post Flange	ASTM A536, 65-45-12	
9	Square Operating Nut	ASTM A536, 65-45-12	
10	Bolt	Carbon Steel Zinc Plated	AISI 316
11	Flat Washer	Carbon Steel Zinc Plated	AISI 316
12	Bolt	Carbon Steel Zinc Plated	AISI 316
13	Flat Washer	Carbon Steel Zinc Plated	AISI 316
14	Ring Wiper	EPDM	
15	O-Ring	NBR	
16	Axis Guide	Brass HPb59-1	C44300
17	Washer	Brass HPb59-1	C44300
18	O-Ring	NBR	
19	Bolt	Carbon Steel Zinc Plated	AISI 316
20	Wedge Nut	Brass HPb59-1	C44300
21	Plug	ASTM B584-06a C89833	C44300

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.
Size 4"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.

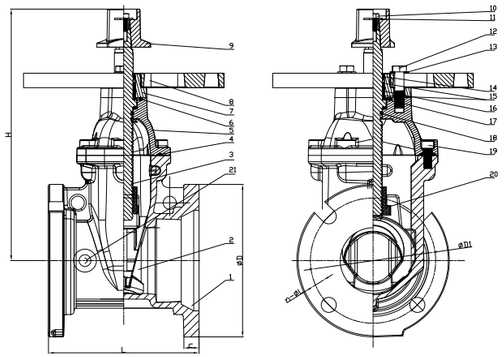
DN		Dimensions(mm)						
Inch	mm	L	H	D	D1	C	D2	n-ΦL
4"	100	229	395	229	190.5	19.1	305	8-Φ19.1
5"	125	254	432	254	215.9	19.1	305	8-Φ22.2
6"	150	267	475	279	241.3	19.1	305	8-Φ22.2
8"	200	292	585	343	298.5	22.2	305	8-Φ22.2
10"	250	330	656	406	362	23.8	305	12-Φ25.4
12"	300	356	751	483	431.8	25.4	305	12-Φ25.4

Awwamechanical Resilient NRS Gate Valve (Z35XC-2), UL/FM Approved



Z35XC-2

- Connection Ends: ANSI/AWWA C111/A21.11
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4℃ - 60℃
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	AISI 420	AISI 304, AISI 316, AISI 431
4	Bonnet Gasket	EPDM	
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	EPDM
7	Gland	ASTM A536, 65-45-12	
8	Indicator Post Flange	ASTM A536, 65-45-12	
9	Square Operating Nut	ASTM A536, 65-45-12	
10	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
11	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
12	Nut	Carbon Steel Zinc Plated	
13	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
14	Ring Wiper	EPDM	NBR
15	O-Ring	NBR	EPDM
16	Axis guide	Brass HPb59-1	
17	Washer	Brass HPb59-1	
18	O-Ring	NBR	EPDM
19	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
20	Wedge nut	Brass HPb59-1	

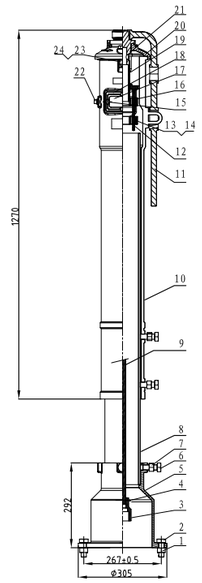
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)							
Inch	mm	L	H	ΦD	ΦD1	ΦE	ΦF	C	n-ΦL
4"	100	229	355	232	190.5	152.9	124.5	19.1	4-Φ22.2
6"	150	292	448	282	241.3	206.2	177.8	19.1	6-Φ22.2
8"	200	318	548	340	298.5	260.9	232.4	22.2	6-Φ22.2
10"	250	375	626	397	355.6	313.4	284.4	23.8	8-Φ22.2
12"	300	378	722	454	412.7	366.7	337.8	25.4	8-Φ22.2

Vertical Indicator Post (IP), UL/FM Approved



IP



- 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	Options
1	Hex Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
2	Hex Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
3	Socket	ASTM A536, 65-45-12	
4	Cotter Pin	AISI 304	
5	Base Flange	Cast Iron ASTM A126 Class B	ASTM A536,65-45-12
6	Hex Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
7	Hex Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
8	Standpipe	Carbon Steel ASTM A53	
9	Stem 1" Square	Carbon Steel AISI 1045	
10	Body	Cast Iron ASTM A126 Class B	ASTM A536,65-45-12
11	Locking Wrench	ASTM A536, 65-45-12	
12	Target Carrier Nut	AISI 304（DN100-400）	
		HPb59-1（DN450-600）	
13	Hex Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
14	Hex Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
15	Hex Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
16	Instructs The Plane	ASTM A536, 65-45-12	
17	Window Class	Plexiglass	
18	Gasket	EPDM	
19	Operating NUT	AISI 304	
20	Top Section	Cast Iron ASTM A126 Class B	ASTM A536,65-45-12
21	Snap Ring	Stainless Steel AIS11066	
22	Plug	Malleable Rion Galvanized	
23	Square Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
24	Hex Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316

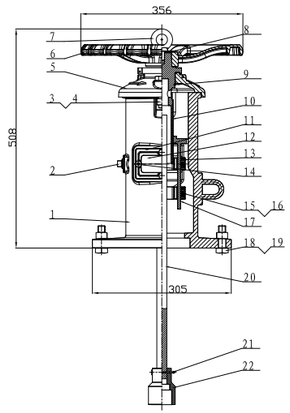
Field Adjustment:
1.Remove the Top Section from the top of the Indicator Post assembly;
2.Cut the required stem length and adjust the Standpipe to match up to the ground line;
3.Set the "OPEN" and "SHUT" targets for the appropriate valve size;
4.Reattach the Top Section to the top of the Indicator Post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

Wall Indicator Post (WP), UL/FM Approved



WP

- 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 ASTM A126 Class B
2	Plug	Malleable Iron
3	Square Nut	Carbon Steel Zinc Plated
4	Hex Bolt	Carbon Steel Zinc Plated
5	Cover	Cast Iron ASTM A126 Class B
6	Hand Wheel	ASTM A536, 65-45-12
7	Eye Bolt	Carbon Steel Zinc Plated
8	Gasket	Carbon Steel Zinc Plated
9	Snap Ring	AISI 1066
10	Operating NUT	AISI 304
11	Gasket	EPDM
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	AISI 304
18	Hex Nut	Carbon Steel Zinc Plated
19	Hex Bolt	Carbon Steel Zinc Plated
20	Stem 1" Square	Carbon Steel AISI 1045
21	Cotter Pin	AISI 304
22	Socket	ASTM A536, 65-45-12

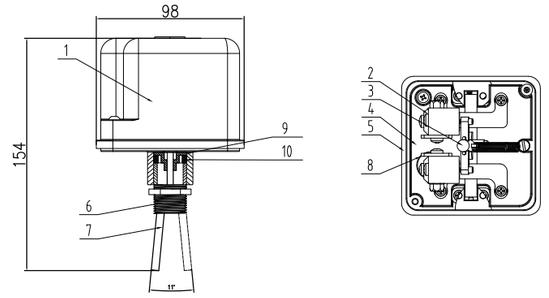
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list;

Supervisory Switch for Indicator Post (ZXHQ)



ZXHQ

- Service Environment: Indoor or Outdoor use, all parts have corrosion resistant finishes
- Temperature Range: 4℃ - 60℃
- Cover Tamper: Tamper Resistant Screws
  Optional Cover Tamper Switch Available
- Electrical Ratings: 15 Amps at 125/250VAC
- Appliance Standards: NFPA-13, NFPA-13D, NFPA-13R, NFPA-72
- Statement: The Model ZXHQ is a weather proof and tamper resistant switch for monitoring the open position of firesprinkler control valves of the post indicator.

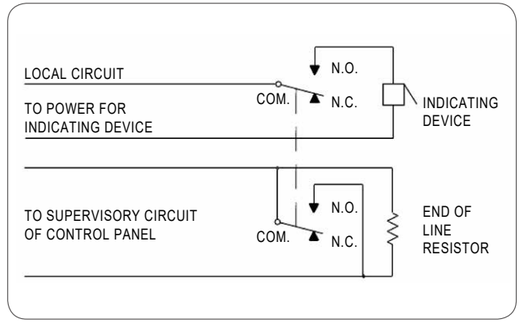


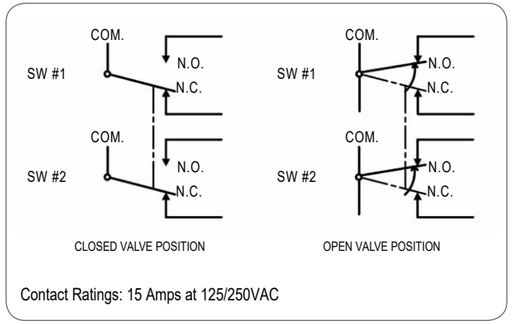
MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Outer Shell	ADC12	
2	Micro Switch		
3	The Rotating Shaft	PA66+GF30	
4	Base	ADC12	
5	Sealing Gasket	CR foam cotton	
6	Connecting Pipe	AISI 304	AISI 316
7	Stem	AISI 304	AISI 316
8	Micro Stents	Q235	AISI 304, AISI 316
9	Rubber Ring	EPDM	
10	Pressing Sleeve	PTFE	

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

TYPICAL ELECTRICAL CONNECTIONS



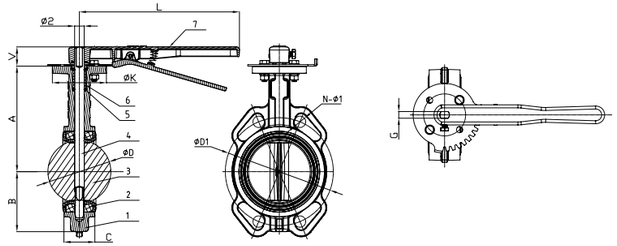


Contact Ratings: 15 Amps at 125/250VAC

MSS SP-67 Wafer Butterfly Valve (D71X4)



OC2700.7CL



D71X4

NSF/ANSI 61 NSF/ANSI 372

Rubber Seat with Backing
Cartridge Style

- Design Standard: MSS SP-67
- Connection Ends: ASME B16.42 CL150
- Top Flange Standard: ISO 5211
  Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: 300PSI
  175PSI, 200PSI and 250PSI available upon request
- Temperature Range: 4℃- 60℃
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Seat	DN40~400: EPDM & Backing DN450~800: EPDM Vulcanized on Valve Body	NBR/Fluororubber&Backing EPDM/NBR Vulcanized on Valve Body Soft Seat in EPDM/NBR
3	Disc	ASTM A536, 65-45-12	AISI 304, AISI 316, AL-Bronze C95400
4	Stem	DN40~350: Stainless Steel , One-Piece Stem Design DN400~800: Stainless Steel , Two-Piece Stem Design	AISI 304, AISI 316, AISI 420, AISI 431
5	O-Ring	NBR	EPDM
6	Bushing	DN40~350: Nylon 1010 DN400~800: Lubricating Bronze	PTFE
7	Lever	ASTM A536, 65-45-12	Aluminum

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

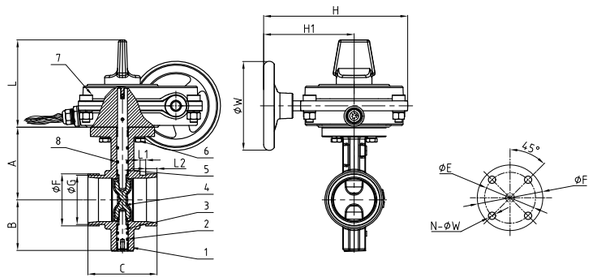
DN		Dimensions(mm)											
Inch	mm	A	B	V	C	ØD	Ø2	ØK	G	L	ØD1	N-Ø1	ISO 5211
1.5"	40	138	64.5	32	33	43.9	14	90	9.45	267	98.5	4-Ø15.9	F07
2"	50	140.5	64.5	32	43	53.9	14	90	9.53	267	120.7	4-Ø19.1	F07
2.5"	65	153	72	32	46	65.2	14	90	9.53	267	139.7	4-Ø19.1	F07
3"	80	157.5	86	32	46	79.7	14	90	9.53	267	152.4	4-Ø19.1	F07
4"	100	176	100	32	52	105	16	90	11.14	267	190.5	8-Ø19.1	F07
5"	125	191	112	32	56	130	16	90	11.14	267	215.9	8-Ø22.2	F07
6"	150	202.5	128	32	56	156	20	90	12.7	267	241.3	8-Ø22.2	F07
8"	200	243.5	162	45	60	206.7	26	125	20.6	356	298.5	8-Ø22.2	F10
10"	250	273	194	45	68	253.3	26	125	20.6	490	362	12-Ø25.4	F10
12"	300	311	223	45	78	301.9	28	125	22.1	490	431.8	12-Ø25.4	F10

Grooved Butterfly Valve with Tamper Switch (XD381X/D381X), UL/FM/VdS Approved



OC3073.7

XD381X



RoHS NSF/ANSI 61 NSF/ANSI 372

- Design Standard: MSS SP-67
- Connection Ends: Groove to AWWA C606
- Top Flange Standard: IsO 5211
- Working Pressure: 300PS1/363PS175PSI, 200PSI and 250PSI available upon request
- Temperature Range: 4°C -60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSIAWWAC550



D381X

MATERIAL SPECIFICATION

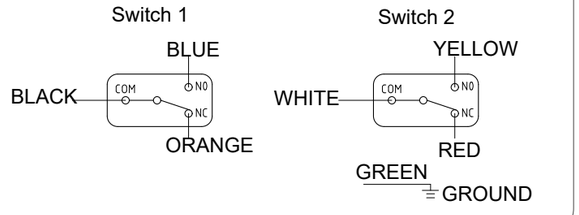
Part No.	Part	Standard Specification	Options
1	Body	ASTM A536,65-45-12	
2	O-Ring	NBR	EPDM
3	Stub Shaft	AISI 431	
4	Disc	ASTM A536,65-45-12+EPDM	ASTM A536,65-45-12+NBR
5	Drive Shaft	AISI 431	
6	Hex Nut	Carbon Steel Zinc plated	
7	Signal Gearbox	Body:ASTM A536,65-45-12	
8	O-Ring	NBR	EPDM

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

Signal description:

1.Switch parameters:16A 1/2HP 125/250VAC

2.Wiring diagram:



DN		Dimensions(mm)														
Inch	mm	A	B	C	F	G	L	L1	L2	H1	H	W	ΦE	ΦF	N-ΦM	ISO5211
2"	50	89	65	81	60.3	57.15	122.5	7.93	15.88	127	202.2	125	70	90	4-Φ10	F07
2.5"	65	102	71	97	73.0	69.09	122.5	7.93	15.88	127	202.2	125	70	90	4-Φ10	F07
3"	80	109	81	97	88.9	84.94	122.5	7.93	15.88	127	202.2	125	70	90	4-Φ10	F07
4"	100	128	95	116	114.3	110.08	122.5	9.53	15.88	127	202.2	125	70	90	4-Φ10	F07
5"	125	141	111	148	141.3	137.03	122.5	9.53	15.88	127	202.2	125	70	90	4-Φ10	F07
6"	150	153	133	148	168.3	163.96	122.5	9.53	15.88	139.5	215	225	70	90	4-Φ10	F07
8"	200	184	164	133	219.1	214.40	122.5	11.10	19.05	198.5	274	225	102	125	4-Φ12	F10
10"	250	216	196	159	273.1	268.28	122.5	12.70	19.05	198.5	274	225	102	125	4-Φ12	F10
12"	300	254	226	165	323.9	318.29	132.0	12.70	19.05	198.5	293.5	225	102	125	4-Φ12	F10

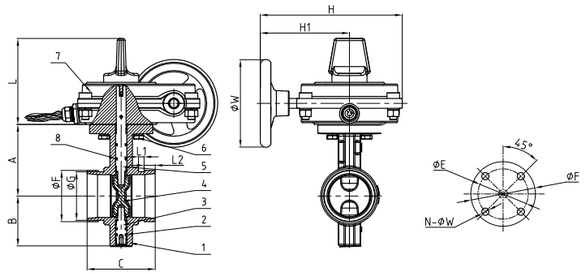
Note: Valve must not be installed with disc in full open position. Disc must be partly closed so that no part is protruding beyond end of valve body.

Grooved Butterfly Valve with Normally Closed Tamper Switch (XD381XG)



XD381XG

cULus LISTED FM APPROVED



- Design Standard: MSS SP-67
- Connection Ends: Groove to AWWA C606
- Top Flange Standard: 1S0 5211
- Working Pressure: 363PSI,175PSI,200PSI, 250PSI and 300PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSIAWWA C550

MATERIAL SPECIFICATION

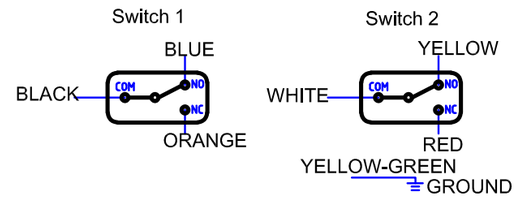
Part No.	Part	Standard Specification	Options
1	BODY	ASTM A536, 65-45-12	
2	O-Ring	NBR	EPDM
3	Stub Shaft	AISI 431	
4	Disc	ASTM A536, 65-45-12+EPDM	ASTM A536, 65-45-12+NBR
5	Drive Shaft	AISI 431	
6	Hex Nut	Carbon Steel Zinc plated	
7	Signal Gearbox	Body: ASTM A536, 65-45-12	
8	O-Ring	NBR	EPDM

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

Signal description:

1.Switch parameters:16A 1/2HP 125/250VAC

2.Wiring diagram:



DN		Dimensions(mm)														
Inch	mm	A	B	C	F	G	L	L1	L2	H1	H	W	ΦE	ΦF	N-ΦM	ISO5211
2"	50	89	65	81	60.3	57.15	122.5	7.93	15.88	127	202.2	125	70	90	4-Φ10	F07
2.5"	65	102	71	97	73.0	69.09	122.5	7.93	15.88	127	202.2	125	70	90	4-Φ10	F07
3"	80	109	81	97	88.9	84.94	122.5	7.93	15.88	127	202.2	125	70	90	4-Φ10	F07
4"	100	128	95	116	114.3	110.08	122.5	9.53	15.88	127	202.2	125	70	90	4-Φ10	F07
5"	125	141	111	148	141.3	137.03	122.5	9.53	15.88	127	202.2	125	70	90	4-Φ10	F07
6"	150	153	133	148	168.3	163.96	122.5	9.53	15.88	139.5	215	225	70	90	4-Φ10	F07
8"	200	184	164	133	219.1	214.40	122.5	11.10	19.05	198.5	274	225	102	125	4-Φ12	F10
10"	250	216	196	159	273.1	268.28	122.5	12.70	19.05	198.5	274	225	102	125	4-Φ12	F10
12"	300	254	226	165	323.9	318.29	132.0	12.70	19.05	198.5	293.5	225	102	125	4-Φ12	F10

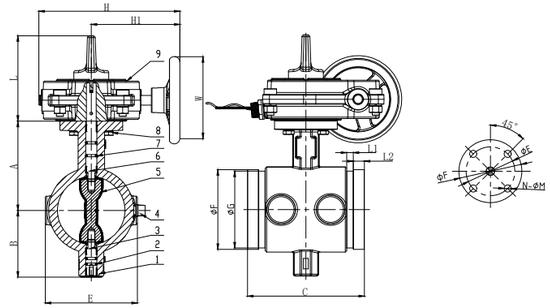
Grooved Butterfly Valve with Tamper Switch (XD381XC)

Tapped Body



XD381XC

cULus LISTED FM APPROVED



- Design Standard: MSS SP-67
- Connection Ends: Groove to AWWA C606
- Top Flange Standard: IsO 5211
- Working Pressure: 363PSI
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWAC550 or painting upon request

MATERIAL SPECIFICATION

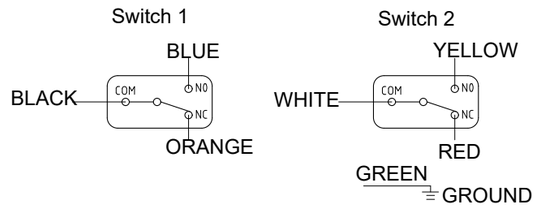
Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536,65-45-12	
2	O-Ring	NBR	EPDM
3	Stub Shaft	AISI 420	
4	Plug	Bronze ASTM B584	Malleable Iron Galvaized
5	Disc	ASTM A536,65-45-12+EPDM	
6	Drive Shaft	AISI 431	
7	O-Ring	NBR	EPDM
8	Bolt	Carton Steel Zinc Plated	AISI 304, AISI 316
9	Signal Gearbox	ASTM A536,65-45-12	

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

Signal description:

1.Switch parameters:16A 1/2HP 125/250VAC

2.Wiring diagram:

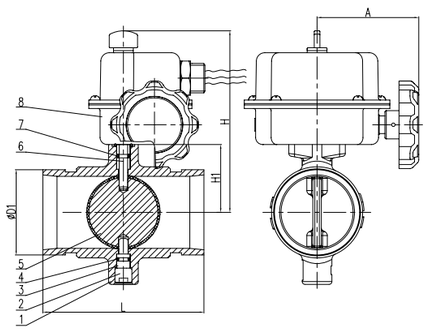


DN																P	
Inch	mm	A	B	C	E	F	G	L	L1	L2	H1	H	W	N-ΦM	ISO5211	standard	optional
2"	50	89	65	148.0	84	60.3	57.15	122.5	7.93	15.88	127	202	125	4-Φ10	F07	1/2	3/4
2.5"	65	102	71	152.5	94	73.0	69.09	122.5	7.93	15.88	127	202	125	4-Φ10	F07	1/2	3/4
3"	80	109	81	160.0	107	88.9	84.94	122.5	7.93	15.88	127	202	125	4-Φ10	F07	1/2	3/4
4"	100	128	95	167.6	132	114.3	110.08	122.5	9.53	15.88	127	202	125	4-Φ10	F07	3/4	1/2
6"	150	153	133	175.3	188	168.3	163.96	122.5	9.53	15.88	139.5	215	225	4-Φ10	F07	3/4	1/2
8"	200	184	164	200.7	236	219.1	214.40	122.5	11.1	19.05	198.5	274	225	4-Φ12	F10	3/4	1/2
10"	250	216	196	194.0	290	273.0	268.28	122.5	12.7	19.05	198.5	274	225	4-Φ12	F10	3/4	1/2
12"	300	254	226	194.0	339	323.9	318.29	132	12.7	19.05	202.5	293.5	225	4-Φ12	F10	3/4	1/2

Grooved Butterfly Valve with Tamper Switch (XD381X4-C)



XD381X4-C



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536 65-45-12	
2	Screw Plug	Carton Steel Zinc Plated	
3	Stub Shaft	AISI 420	
4	O-Ring	NBR	EPDM
5	Disc	Carbon Steel+EPDM	
6	Drive Shaft	AISI 420	
7	O-Ring	NBR	EPDM
8	Signal Gearbox	Carbon Steel	

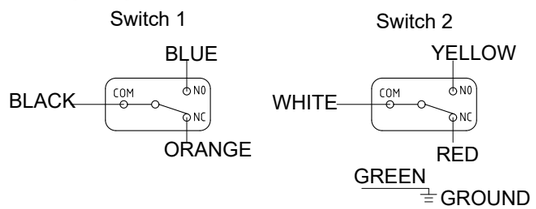
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

- Design Standard: MSS SP-67
- Connection Ends: Groove to AWWA C606
- Top Flange Standard: lsO 5211
- Working Pressure: 200PSI,175PSI
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWAC550 or painting upon request

Signal description:

1.Switch parameters:16A 1/2HP 125/250VAC

2.Wiring diagram:



DN		Dimensions(mm)				
Inch	mm	A	ØD1	H	H1	L
2"	50	72	60.3	128.5	48	114.0
2.5"	65	72	73.0	132.5	52	114.0

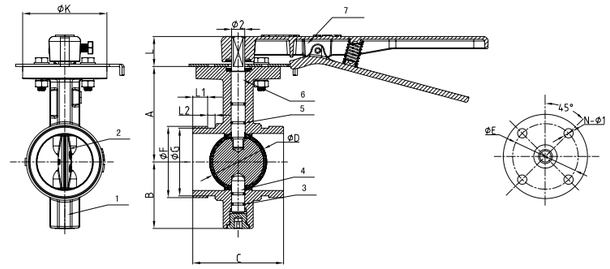
Grooved Butterfly Valve (D81X4, D381X4)



D81X4

NSF/ANSI 61 NSF/ANSI 372

- Design Standard: MSS SP-67
- Connection Ends: Groove to AWWA C606
- Top Flange Standard: ISO 5211
  Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: 300PSI
  175PSI, 200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



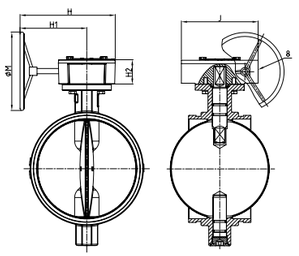
MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Disc	ASTM A536, 65-45-12+EPDM	ASTM A536, 65-45-12+NBR
3	O-Ring	NBR	EPDM
4	Stem	Stainless Steel	AISI 304, AISI 316, AISI 420, AISI 431
5	O-Ring	NBR	EPDM
6	Stem	Stainless Steel	AISI 304, AISI 316, AISI 420, AISI 431
7	Lever	ASTM A536, 65-45-12	Aluminum
8	Signal Gearbox	ASTM A536, 65-45-12	

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	ΦF	ΦG	L1	L2	L	ΦK	H	H1	H2	J	ΦM	Φ2	ISO 5211	ΦE	N-Φ1
2"	50	89	65	81	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	73.0	69.09	15.88	7.93	32	90	206	158	52	114	150	14	F07	70	4-Φ10
3"	80	109	81	97	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	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	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	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	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	273.0	268.28	19.05	12.70	45	125	310	239	69	167	300	26	F10	102	4-Φ12
12"	300	254	226	165	323.9	318.29	19.05	12.70	45	125	307	229	73	190	300	28	F10	102	4-Φ12

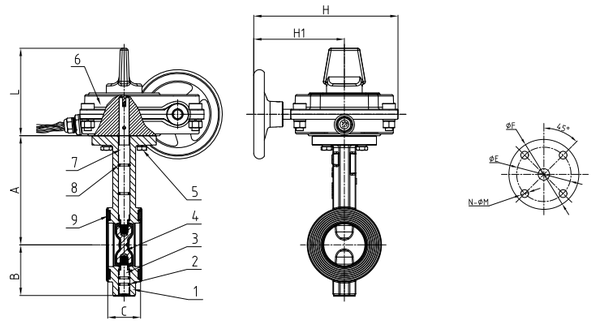
Note: Valve must not be installed with disc in full open position. Disc must be partly closed so that no part is protruding beyond end of valve body.

OC2700.7CL

Wafer Butterfly Valve with Tamper Switch (XD371X/D371X), UL/FM/VdS Approved



XD371X



0C3073.7

cULus LISTED FM APPROVED VdS **RoHS** NSF/ANSI 61 NSF/ANSI 372

- Design Standard: MSS SP-67
- Top Flange Standard: ISO 5211
- Working Pressure: 300PS/363PS175PSI,200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550
- Flange specification: ASME B16.1 CL125 ASME B16.42 CL150

MATERIAL SPECIFICATION

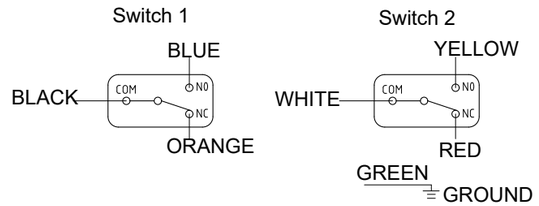
Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	O-Ring	NBR	EPDM
3	Stub Shaft	AISI 431	
4	Disc	ASTM A536, 65-45-12+EPDM	ASTM A536, 65-45-12+NBR
5	Hex Nut	Carbon Steel Zinc plated	
6	Signal Gearbox	Body: ASTM A536,65-45-12	
7	Drive Shaft	AISI 431	
8	O-Ring	NBR	EPDM
9	End Face Seal	EPDM	NBR

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

Signal description:

1.Switch parameters:16A 1/2HP 125/250VAC

2.Wiring diagram:

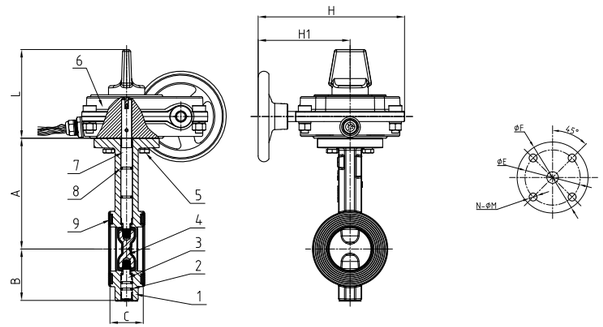


DN		Dimensions(mm)										
Inch	mm	A	B	C	L	H1	H	W	ISO5211	ΦE	ΦF	N-ΦM
2"	50	140.5	65	43	122.5	127	202.2	125	F07	70	90	4-Φ10
2.5"	65	153	71	46	122.5	127	202.2	125	F07	70	90	4-Φ10
3"	80	157.5	81	46	122.5	127	202.2	125	F07	70	90	4-Φ10
4"	100	176	95	52	122.5	127	202.2	125	F07	70	90	4-Φ10
5"	125	191	111	56	122.5	127	202.2	125	F07	70	90	4-Φ10
6"	150	202.5	133	56	122.5	139.5	215	225	F07	70	90	4-Φ10
8"	200	243.5	164	60	122.5	198.5	274	225	F10	102	125	4-Φ12
10"	250	273	196	68	122.5	198.5	274	225	F10	102	125	4-Φ12
12"	300	311	226	78	132	198.5	293.5	225	F10	102	125	4-Φ12

Wafer Butterfly Valve with Normally Closed Tamper Switch (XD371XG)



XD371XG



cULus LISTED FM APPROVED

- Design Standard: MSS SP-67
- Top Flange Standard: ISO 5211
- Working Pressure: 300PSI,175PS1,200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550
- Flange specification: ASME B16.1 CL125 ASME B16.42 CL150

MATERIAL SPECIFICATION

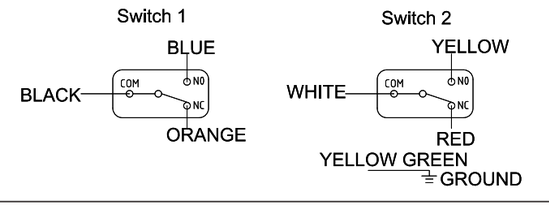
Part No.	Part	Standard Specification	Options
1	Body	ASTM A536, 65-45-12	
2	O-Ring	NBR	EPDM
3	Stub Shaft	AISI 431	
4	Disc	ASTM A536, 65-45-12+EPDM	ASTM A536, 65-45-12+NBR
5	Bolt	Carbon Steel Zinc plated	
6	End Face Seal	EPDM	NBR
7	O-Ring	NBR	EPDM
8	Drive Shaft	AISI 431	
9	Signal Gearbox	Body: ASTM A536, 65-45-12	

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

Signal description:

1.Switch parameters:16A 1/2HP 125/250VAC

2.Wiring diagram:

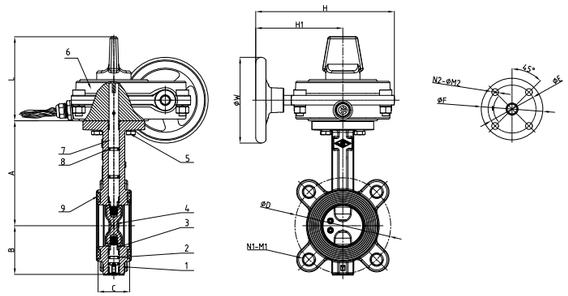


DN		Dimensions(mm)										
Inch	mm	A	B	C	L	H1	H	W	ISO5211	ΦE	ΦF	N-ΦM
2"	50	140.5	65	43	122.5	127	202.2	125	F07	70	90	4-Φ10
2.5"	65	153	71	46	122.5	127	202.2	125	F07	70	90	4-Φ10
3"	80	157.5	81	46	122.5	127	202.2	125	F07	70	90	4-Φ10
4"	100	176	95	52	122.5	127	202.2	125	F07	70	90	4-Φ10
5"	125	191	111	56	122.5	127	202.2	125	F07	70	90	4-Φ10
6"	150	202.5	133	56	122.5	139.5	215	225	F07	70	90	4-Φ10
8"	200	243.5	164	60	122.5	198.5	274	225	F10	102	125	4-Φ12
10"	250	273	196	68	122.5	198.5	274	225	F10	102	125	4-Φ12
12"	300	311	226	78	132	198.5	293.5	225	F10	102	125	4-Φ12

Lugged Wafer Butterfly Valve with Tamper Switch (XD371XL/D371XL), UL/FM/VdS Approved



XD371XL



0C3073.7

RoHS NSF/ANSI 61 NSF/ANSI 372

- Design Standard: MSS SP-67
- Top Flange Standard: ISO 5211
- Working Pressure: 300PSI/363PSI,175PS1,200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance withANSIAWWA C550
- Flange specification: ASME B16.42 CL150

MATERIAL SPECIFICATION

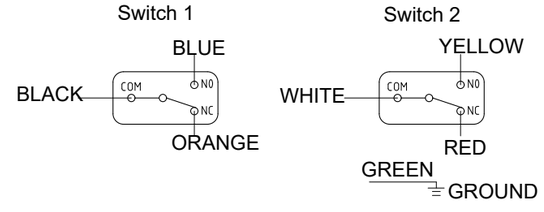
Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	O-Ring	NBR	EPDM
3	Stub Shaft	AISI 431	
4	Disc	ASTM A536, 65-45-12+EPDM	ASTM A536, 65-45-12+NBR
5	Hex Nut	Carbon Steel Zinc plated	
6	End Face Seal	EPDM	NBR
7	O-Ring	NBR	EPDM
8	Drive Shaft	AISI 431	
9	Signal Gearbox	Body: ASTM A536,65-45-12	

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

Signal description:

1.Switch parameters:16A 1/2HP 125/250VAC

2.Wiring diagram:

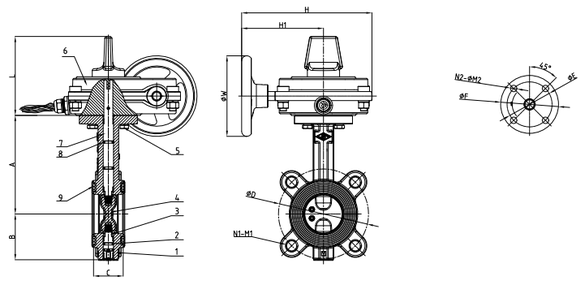


DN		Dimensions(mm)									
Inch	mm	A	B	C	L	H1	H	ΦD	N-M	ΦW	ISO5211
2"	50	140.5	65	43	122.5	127	202.2	120.7	4-5/8	125	F07
2.5"	65	153	71	46	122.5	127	202.2	139.7	4-5/8	125	F07
3"	80	157.5	81	46	122.5	127	202.2	152.4	4-5/8	125	F07
4"	100	176	95	52	122.5	127	202.2	190.5	8-5/8	125	F07
5"	125	191	111	56	122.5	127	202.2	215.9	8-3/4	125	F07
6"	150	202.5	133	56	122.5	139.5	215	241.3	8-3/4	225	F07
8"	200	243.5	164	60	122.5	198.5	274	298.5	8-3/4	225	F10
10"	250	273	196	68	122.5	198.5	274	362	12-7/8/	225	F10
12"	300	311	226	78	132.0	198.5	293.5	431.8	12-7/8	225	F10

Lugged Wafer Butterfly Valve with Normally Closed Tamper Switch (XD371XLG)



XD371XLG



- Design Standard: MSS SP-67
- Top Flange Standard: ISO 5211
- Working Pressure: 300PSI,175PSI,200PS1,250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance withANSIAWWA C550
- Flange specification: ASME B16.42 CL150

MATERIAL SPECIFICATION

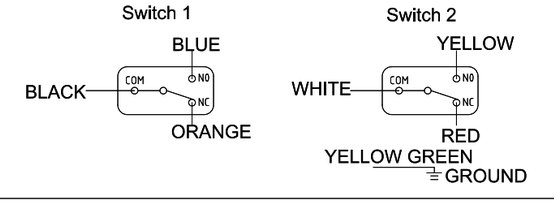
Part No.	Part	Standard Specification	Options
1	Body	ASTM A536, 65-45-12	
2	O-Ring	NBR	EPDM
3	Stub Shaft	AISI 431	
4	Disc	ASTM A536, 65-45-12+EPDM	ASTM A536, 65-45-12+NBR
5	Bolt	Carbon Steel Zinc plated	
6	Signal Gearbox	Body: ASTM A536,65-45-12	
7	Drive Shaft	AISI 431	
8	O-Ring	NBR	EPDM
9	End Face Seal	EPDM	NBR

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

Signal description:

1.Switch parameters:16A 1/2HP 125/250VAC

2.Wiring diagram:



DN		Dimensions(mm)									
Inch	mm	A	B	C	L	H1	H	ØD	N-M	H	ΦW	ISO5211
2"	50	140.5	65	43	122.5	127	202.2	120.7	4-5/8	202.2	125	F07
2.5"	65	153	71	46	122.5	127	202.2	139.7	4-5/8	202.2	125	F07
3"	80	157.5	81	46	122.5	127	202.2	152.4	4-5/8	202.2	125	F07
4"	100	176	95	52	122.5	127	202.2	190.5	8-5/8	202.2	125	F07
5"	125	191	111	56	122.5	127	202.2	215.9	8-3/4	202.2	125	F07
6"	150	202.5	133	56	122.5	139.5	215	241.3	8-3/4	215	225	F07
8"	200	243.5	164	60	122.5	198.5	274	298.5	8-3/4	274	225	F10
10"	250	273	196	68	122.5	198.5	274	362	12-7/8	274	225	F10
12"	300	311	226	78	132.0	198.5	293.5	431.8	12-7/8	293.5	225	F10

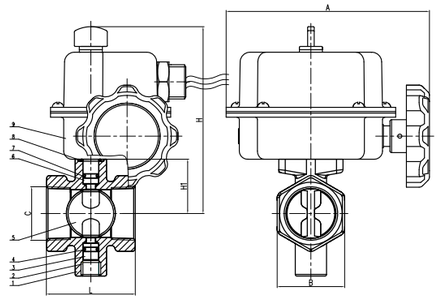
Threaded Butterfly Valve with Tamper Switch (XD311X), UL/FM Approved



XD311X

RoHS

- Connection Ends: Thread to ASME B1.20.1
- Working Pressure: 175PSI
- Temperature Range: 4°C- 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or double coating of hot dipped galvanization plus electroplating



MATERIAL SPECIFICATION

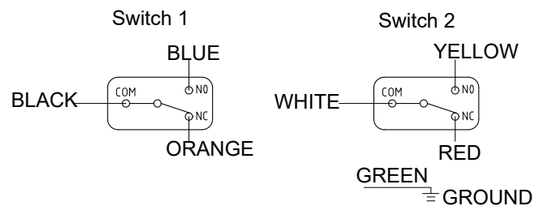
Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Screw	Carbon Steel Zinc Plated	AISI 304, AISI 316
3	Stem	AISI 420	
4	O-Ring	NBR	EPDM
5	Disc	Carbon Steel+EPDM	Carbon Steel+NBR
6	Stem	AISI 420	
7	O-Ring	NBR	EPDM
8	O-Ring	NBR	EPDM
9	Signal Gearbox	Carbon Steel	

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

Signal description:

1.Switch parameters:16A 1/2HP 125/250VAC

2.Wiring diagram:



DN		Dimensions(mm)					
Inch	mm	L	H	H1	A	B	C(NPT)
1"	25	54	115	33	125	41	1
1.25"	32	67	117.5	37	125	49	11/4
1.5"	40	73	121	40.5	125	55.5	11/2
2"	50	82.5	131	48	125	71	2

Grooved Resilient Swing Check Valve (H84X), UL/FM/Approved

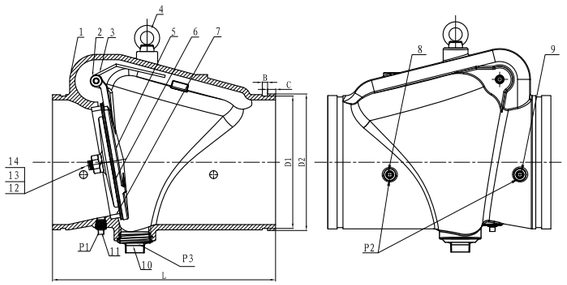
0C3073.7



H84X

NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: Groove to AWWA C606
- Working Pressure: 300PSI/363PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



0C3073.7



H84XF4

NSF/ANSI 61 NSF/ANSI 372

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Hinge Pin	AISI 420	
3	Spring	AISI 304	AISI 316
4	Eye Bolt	Carbon Steel Zinc Plated	
5	Disc	DN50-100 AISI 304 DN150-300 ASTM A536, 65-45-12	AISI 304
6	Disc Sealing Ring	EPDM	
7	Seat Ring	ASTM B62 C83600 (Pressed Fit)	AISI 304, AISI 316 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	AISI 304	AISI 316
13	Washer	AISI 304	AISI 316
14	Nut	AISI 304	AISI 316

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

DN		Dimensions(mm)								
Inch	mm	L	D1	D2	B	C	P1	P3		P2
								Standard	Optional	
2"	50	171	57.15	60.3	7.93	15.88	1/2-14NPT	1/2-14NPT	1-11.5NPT	3/8-18NPT
2.5"	65	184	69.09	73	7.93	15.88	1/2-14NPT	1/2-14NPT	1 1/4-11.5NPT	3/8-18NPT
3"	80	197	84.94	88.9	7.93	15.88	1/2-14NPT	1/2-14NPT	1 1/4-11.5NPT	3/8-18NPT
4"	100	206	110.08	114.3	9.53	15.88	1/2-14NPT	1/2-14NPT	2-11.5NPT	1/2-14NPT
5"	125	248	137.03	141.3	9.53	15.88	1/2-14NPT	1/2-14NPT	2-11.5NPT	1/2-14NPT
6"	150	324	163.96	168.3	9.53	15.88	1/2-14NPT	1/2-14NPT	2-11.5NPT	1/2-14NPT
8"	200	371	214.4	219.1	11.13	19.05	1/2-14NPT	1/2-14NPT	2-11.5NPT	1/2-14NPT
10"	250	457	268.28	273	12.7	19.05	1/2-14NPT	1/2-14NPT	2-11.5NPT	1/2-14NPT
12"	300	535	318.29	323.9	12.7	19.05	1/2-14NPT	1/2-14NPT	2-11.5NPT	1/2-14NPT

Male NPT x Groove Connection Check Valve (H24X)



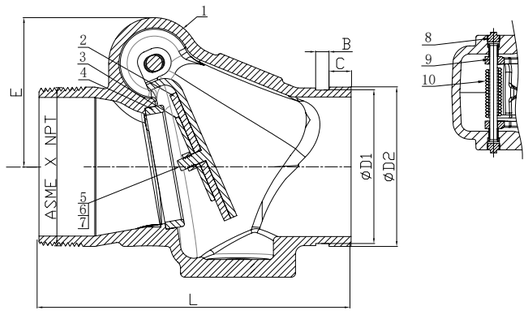
H24X

• Connection Ends: Groove to AWWA C606,
Thread to ANSI/ASME B1.20.1

• Working Pressure: 363PSI ,300PSI
200PSI and 250PSI available upon request

• Temperature Range: 4°C - 60°C

• Coating: Fusion Bonded Epoxy Coating Complies with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536 65-45-12	
2	Seal Ring	EPDM	NBR
3	Disc	AISI 304	AISI 316
4	Seat	ASTM B62 C83600	
5	Bolt	AISI 304	AISI 316
6	Washer	AISI 304	AISI 316
7	Screw Nut	AISI 304	AISI 316
8	Plug	Malleable Iron Galvanized	Bronze ASTM B584
9	Plug	Malleable Iron Galvanized	Bronze ASTM B584
10	Hinge Pin	AISI 420	AISI 304, AISI 316
11	Spring	AISI 304	AISI 316

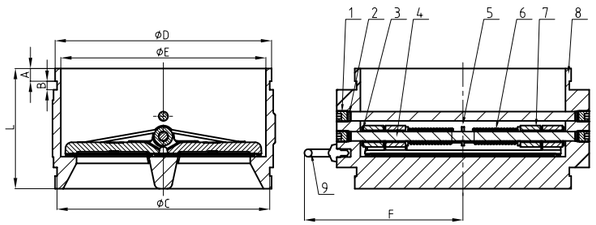
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)						
Inch	mm	L	D1	D2	E	B	C	X NPT
4"	114	224	110.1	114.3	107	9.5	15.9	4-8NPT

Double Door Grooved Check Valve (DH87XP)



DH87XP



• Connection Ends: Groove to AWWA C606

• Working Pressure: 300PSI
200PSI and 250PSI available upon request

• Temperature Range: 4°C - 60°C

• Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request

MATERIAL SPECIFICATION

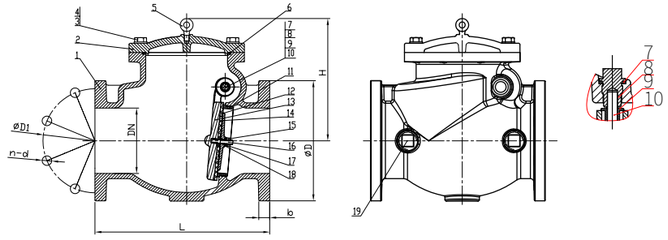
Part No.	Part	Standard Specification	Options
1	Countersunk Hex Head Screws	Carbon Steel Zinc Plated	
2	Seal Ring	EPDM	
3	Gasket	PTFE	
4	Shaft	AISI 420	AISI 304, AISI 316, AISI 431
5	Gasket	PTFE	
6	Spring	AISI 304	
7	Disc	AISI 304	AISI 316,QT450-10
8	Body	ASTM A536, 65-45-12	
9	Eye Bolt	Carbon Steel Zinc Plated	

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

DN		Dimensions(mm)						
Inch	mm	A	B	C	D	E	F	L
8"	219.1	19.1	11.1	214.4	219	200	165	160
10"	273.0	19.1	12.7	268.28	273	253	203	180
12"	323.9	19.1	12.7	318.29	324	307	228	180
14"	377.0	23.8	12.7	371.1	377	354	258	200

Flanged Resilient Swing Check Valve (H44X2/ H44X2A), UL/FM/Approved





H44X2

NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: Flange to ASME B16.1
- Working Pressure: 300PSI/363PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Body	Ductile Iron 65-45-12
2	Bonnet	Ductile Iron 65-45-12
3	Bolts	Carbon Stell Zine Plated
4	Washer	Carbon Stell Zine Plated
5	Eye Bolt	Carbon Stell Zine Plated
6	O-Ring	NBR
7	Washer	PTFE
8	Plug	AISI 304
9	Hinpe	AISI 420
11	Seat Ring	Bronze ASTM B62
12	Seal	EPDM
13	Disc	Ductile Iron 65-45-12
14	Plate	Ductile Iron 65-45-12(6"-12") AISI 304(2"-4")
15	Nut	AISI 304
16	Bolt	AISI 304
17	Spring Washer	AISI 304
18	Flat Washer	AISI 304
19	Plug	Tin bronze

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

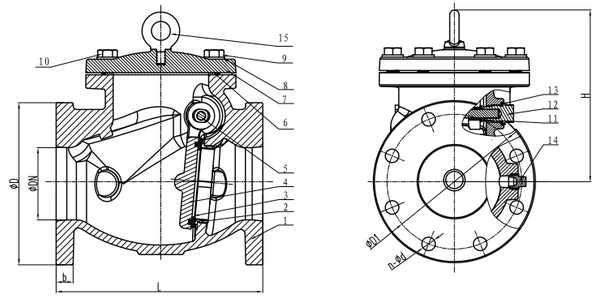
DN		Dimensions(mm)						
Inch	mm	L		D	D1	b	n-Φd	H
		Standard	Optional					
2"	50	203	203	152	120.5	16	4-Φ19.1	133
2.5"	65	254	216	178	139.5	17.5	4-Φ19.1	150
3"	80	278	241	191	152.5	19	4-Φ19.1	150
4"	100	330	292	229	190.5	24	8-Φ19.1	218
6"	150	406	356	279	241.5	25.5	8-Φ22.2	290
8"	200	495	495	343	298.5	28.5	8-Φ22.2	330
10"	250	622	622	406	362	30.5	12-Φ25.4	350
12"	300	660	698	483	432	32	12-Φ25.4	376

Note: Standard of Face-to-Face in according with AWWA C508.
Optional of Face-to-Face in according with ASME B16.10 CL125.

OC3073.7

Flanged Metal Seated Swing Check Valve (H44T2/H44T2A), FM Approved





H44T2

- Design Standard: AWWA C508
- Flange Specification: ASME B16.1 CL125
- Working Pressure: 300PSI,200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Costing Complies wishAWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536	
2	Seat Ring	C83600	
3	Flap Seat	C83600	
4	Disc	ASTM A536	
5	Hinge Pin	AISI 420	AISI 304, AISI 316
6	Flange Gasket	Graphite+SS304	
7	Bonnet HGT	ASTM A536	
8	Flat Waser	45# Steel	
9	Bolts	Carbon Steel	AISI 304, AISI 316
10	Bolts	Carbon Steel	AISI 304, AISI 316
11	Bushing	CW617N	
12	Plug	AISI 304	AISI 304
13	Gasket	PTFE	
14	Plugged	C89833	
15	Eye Bolt	Carbon Steel	AISI 304, AISI 316

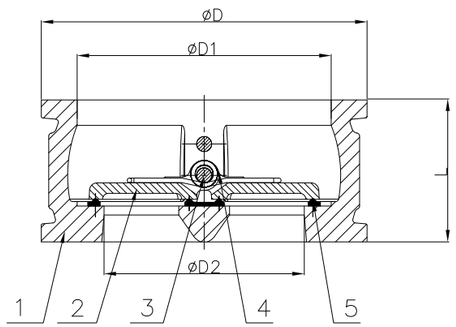
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)						
Inch	mm	L	D	D1	b	H	n	Φd
4"	100	292	229	190.5	24	218	8	19

Double Door Wafer Check Valve (DH77XSR)



DH77XSR



NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: ASME B16.1 CL 125, ASME B16.5 CL 150
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Disc	AISI 316	ASTM A536, 65-45-12, SS316, AL-Bronze UNC 95400
3	Stem	AISI 420	AISI 304, AISI 316, AISI 416
4	Spring	AISI 304	AISI 316
5	Rubber Seat	EPDM	NBR

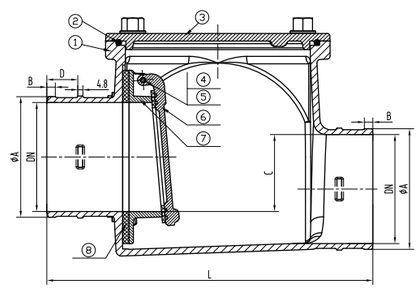
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)			
Inch	mm	L	D	D1	D2
2"	50	54	106	68	46
2.5"	65	60	127	78	60
3"	80	57	134	102	70
4"	100	67	162	117	84
5"	125	83	194	145	115
6"	150	95	218	170	134
8"	200	127	277	226	184
10"	250	140	336	265	220
12"	300	181	406	310	260
14"	350	184	447	360	302
16"	400	191	505	410	350

Backwater Valve (HSB4X)



HSB4X



- Connection Ends: ASTM A888
- Working Pressure: 175PSI
- Temperature Range: 4°C - 60°C
- Coating: Painting

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Valve Body	ASTM A536, 65-45-12
2	O-Ring	NBR
3	Bonnet	ASTM A536, 65-45-12
4	Bolt	AISI 304
5	Nut	AISI 304
6	Disc	ASTM B62 C83600
7	Seat	ASTM B62 C83600
8	Disc Seat Ring	EPDM

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

DN		PSI	Dimensions(mm)				
Inch	mm		L	A±2.29	B	C (min)	D
4"	100	175	305	112.78	7.87	50	29
8"	150	175	457	214.38	7.87	101	51

Note: Only 4" has been FM approved. Other dimensions are under application.

Micro Air Bleeding Valve (ARVX)

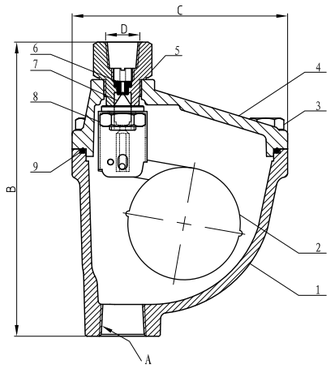


ARVX

FM APPROVED

- Connection Ends: ASME B1.20.1
- Working pressure: 300PSI
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

(FM approval is rated upto 250 PSI)



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Valve Body	ASTM A536 64-45-12
2	Ball	AISI 304
3	Hex Bolt	Carbon Steel Zinc Plated
4	Bonnet	ASTM A536 64-45-12
5	Exhaust Joint	Brass HPb59-1
6	Exhaust Gasket	EPDM
7	Valve Needle	AISI 304
8	Nut	AISI 304
9	O-Ring	NBR

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

DN		Dimensions(mm)			
Inch	mm	A	B	C	D
1/2"	15	1/2-14NPT	137	115	3/8-18NPT
3/4"	20	3/4-14NPT	137	115	3/8-18NPT
1"	25	1-11.5NPT	137	115	3/8-18NPT
11/4"	32	1-1/4-11.5NPT	137	115	3/8-18NPT
11/2"	40	1-1/2-11.5NPT	137	115	3/8-18NPT

Grooved Y-Type Strainer (V8), UL Listed

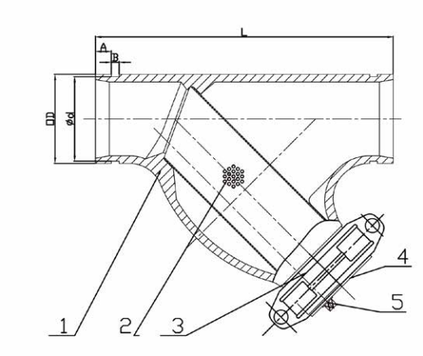


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V8

c UL us LISTED NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: Groove to AWWA C606
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°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	ASTM A536, 65-45-12	
2	Screen	AISI 304	AISI 316
3	Rigid Coupling	ASTM A536, 65-45-12	
4	Cap	ASTM A536, 65-45-12	
5	Plug	Malleable Iron Galvanized	Bronze ASTM B584

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

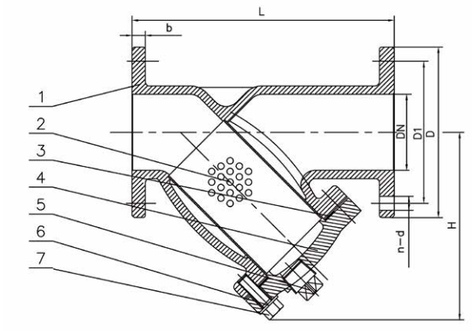
DN		Dimensions(mm)				
Inch	mm	L	OD	d	A	B
2"	50	247.5	60.3	57.15	15.88	7.92
2.5"	65	273	73	69.09	15.88	7.92
3"	80	298.5	88.9	84.94	15.88	7.92
4"	100	362	114.3	110.08	15.88	9.52
5"	125	419	141.3	137.03	15.88	9.52
6"	150	470	168.3	163.96	15.88	9.52
8"	200	609.5	219.1	214.4	19.05	11.13
10"	250	686	273	268.28	19.05	12.7
12"	300	762	323.9	318.29	19.05	12.7

Flanged Y-Type Strainer (V4), UL Listed

OE3072.7



V4



NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: Flange to ASME B16.1 Class 125 / ASME B16.42 Class 150
- Working Pressure: 300PSI 200PSI and 250PSI available upon request
- Temperature Range: 4°C- 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536 65-45-12	
2	Screen	AISI 304 (Perforated)	AISI 304, AISI 316 (Perforated, Knitted, Double Screen)
3	Gasket	EPDM	Graphite + Acanthopore Plate
4	Bonnet	ASTM A536 65-45-12	
5	Plug	Malleable Iron Galvanized	Bronze ASTM B584
6	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
7	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316

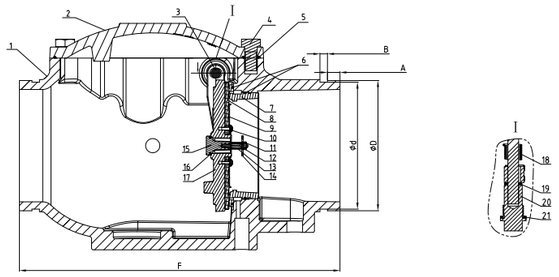
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)					
Inch	mm	L	D	D1	b	n-Φd	H
2"	50	200	152	120.5	19.1	4-Φ19.1	155
2.5"	65	254	178	139.5	22.4	4-Φ19.1	165
3"	80	257	191	152.5	23.9	4-Φ19.1	180
4"	100	308	229	190.5	24	8-Φ19.1	229
5"	125	397	254	216	24	8-Φ22.2	285
6"	150	470	279	241.5	25.5	8-Φ22.2	311
8"	200	549	343	298.5	28.5	8-Φ22.2	394
10"	250	654	406	362	30.5	12-Φ25.4	487
12"	300	759	483	432	32	12-Φ25.4	547

Grooved Wet Alarm Check Valve (ZSFZ8X9)



ZSFZ8X9



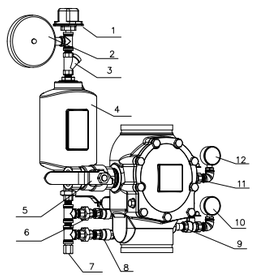
- Connection Ends: Groove to AWWA C606
- Working Pressure: 300PSI 200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Painting or Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Valve Body	ASTM A536, 65-45-12
2	Bonnet	ASTM A536, 65-45-12
3	Pin	AISI 304
4	Hex Bolt	Carbon Steel Zinc Plated
5	Body Gasket	EPDM
6	O-Ring	NBR
7	Seat	Bronze
8	Gasket	EPDM
9	Disc Gland	AISI 304
10	Slotted Screw	AISI 304
11	Hexagonal Nut	AISI 304
12	Adjusting Screw	AISI 304
13	Core Tube	AISI 304
14	Core Board	AISI 304
15	Disc Core	Bronze
16	O-Ring	NBR
17	Disc	Bronze
18	Spring	AISI 304
19	Sealing Fillet Gasket	PTFE
20	Sealing Plug	AISI 304
21	Sealing Fillet Gasket	PTFE

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

DN		OD	Dimensions(mm)				
Inch	mm		A	B	Φd	ΦD	F
3"	80	88.9	15.88	7.93	84.94	88.9	320.3
4"	100	114.3	15.88	9.53	110.08	114.3	382
6"	150	159	15.88	9.53	154.5	159	406.4
		165.1	15.88	9.53	160.9	165.1	406.4
		168.3	15.88	9.53	163.96	168.3	406.4
8"	200	219.1	19.05	11.1	214.4	219.1	446



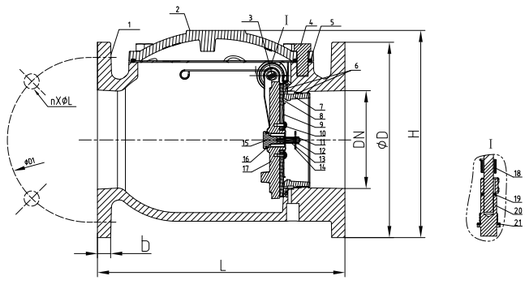
External Accessories			
Part No.	Part	Part No.	Part
1	Pressure Switch	7	Drip Valve
2	Alarm	8	Test Ball Valve
3	Strainer	9	Pressure Gauge Ball Valve
4	Retard Chamber	10	Pressure Gauge
5	Drain Ball Valve	11	Pressure Gauge Ball Valve
6	Alarm Ball Valve	12	Pressure Gauge

Flanged Wet Alarm Valve (ZSFZ4X9)



ZSFZ4X9

- Connection Ends: ASME B16.1 CL125
  ASME B16.42 CL150
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Painting or Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

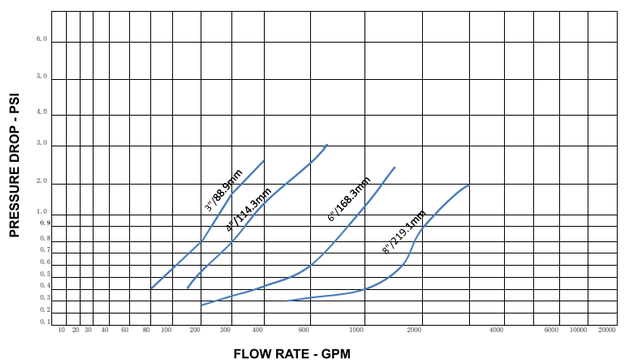


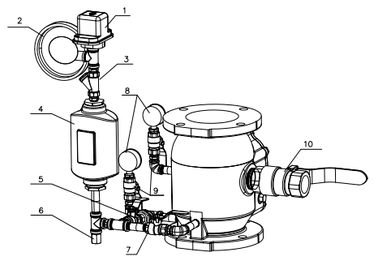
MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Valve Body	ASTM A536, 65-45-12
2	Bonnet	ASTM A536, 65-45-12
3	Pin	AISI 304
4	Hex Bolt	Carbon Steel Zinc Plated
5	Body Gasket	EPDM
6	O-Ring	NBR
7	Seat	Bronze
8	Gasket	EPDM
9	Disc Gland	AISI 304
10	Slotted Screw	AISI 304
11	Hexagonal Nut	AISI 304
12	Adjusting Screw	AISI 304
13	Core Tube	AISI 304
14	Core Board	AISI 304
15	Disc Core	Bronze
16	O-Ring	NBR
17	Disc	Bronze
18	Spring	AISI 304
19	Sealing Fillet Gasket	PTFE
20	Sealing Plug	AISI 304
21	Sealing Fillet Gasket	PTFE

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

DN		Dimensions(mm)					
Inch	mm	H	L	D	DI	b	n-ΦL
3"	80	235	241	191	152.4	19	4-Φ19.1
4"	100	241	292	229	190.5	24	8-Φ19.1
6"	150	298	356	279	241.3	25.5	8-Φ22.2
8"	200	352	495	343	298.5	28.5	8-Φ22.2





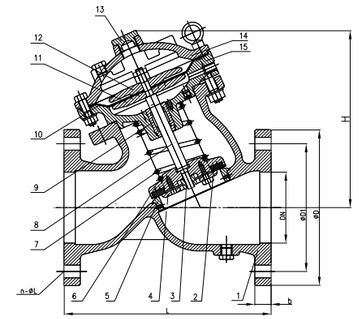
Outside Part			
Part No.	Part	Part No.	Part
1	Pressure Switch	6	Drip Valve
2	Alarm	7	Alarm Ball Valve
3	Strainer	8	Pressure Gauge
4	Retard Chamber	9	Pressure Gauge Ball Valve
5	Test Ball Valve	10	Drain Ball Valve

Deluge Alarm Valve (SK790X)



SK790X

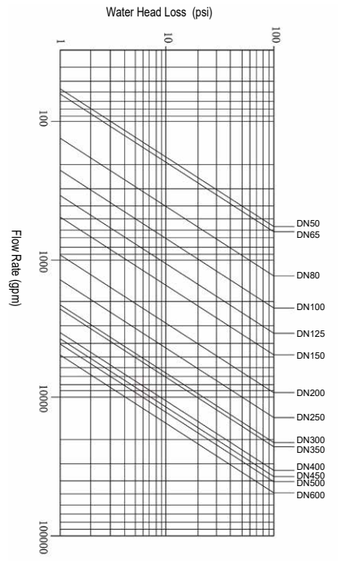
- Connection Ends: ASME B16.1 CL 125
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Valve Body	ASTM A536, 65-45-12
2	Main Gasket	EPDM
3	Disc head	AISI 304
4	Gland of Main Disc	ASTM A536, 65-45-12
5	Seat	AISI 304
6	Main Disc	ASTM A536, 65-45-12
7	Spring	AISI 304
8	Stem	AISI 304
9	Bushing	Bronze
10	Diaphragm	EPDM
11	Bottom Gland	ASTM A536, 65-45-12
12	Up Gland	ASTM A536, 65-45-12
13	Cap Plug	AISI 304
14	Up Bonnet	ASTM A536, 65-45-12
15	Middle Bonnet	ASTM A536, 65-45-12

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



DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Kv	41	53	105	175	285	402	730	1160	1400	1770	3010	3225	3395	4272

DN		Dimensions(mm)					
Inch	mm	L	H	D	D1	b	n-ΦL
2"	50	206	170	152	120.5	16	4-Φ19.1
2.5"	65	211	195	178	139.5	17.5	4-Φ19.1
3"	80	249	215	191	152.5	19	4-Φ19.1
4"	100	320	255	229	190.5	24	8-Φ19.1
6"	150	414	360	279	241.5	25.5	8-Φ22.2
8"	200	500	450	343	298.5	28.5	8-Φ22.2
10"	250	605	550	406	362	30.5	12-Φ25.4
12"	300	724	645	483	432	32	12-Φ25.4
16"	400	991	790	597	540	36.5	16-Φ28.5

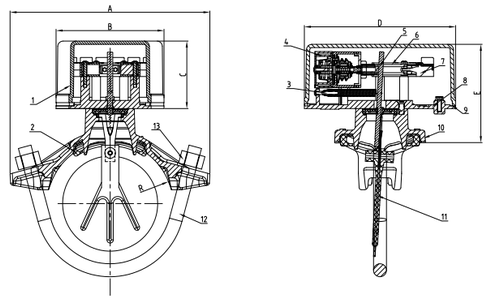
Water Flow Indicator with Retard (ZSJZYS)



ZSJZYS

cULus LISTED FM APPROVED CE CSFM

- Connection Ends: AWWA C606
- Working Pressure: 363PSI and 300PSI,200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550
- Electical Ratings: 125/250VAC 5A 24/30VDC 3A
- Minimum Flow Rate For Alarm: 4-10 gpm

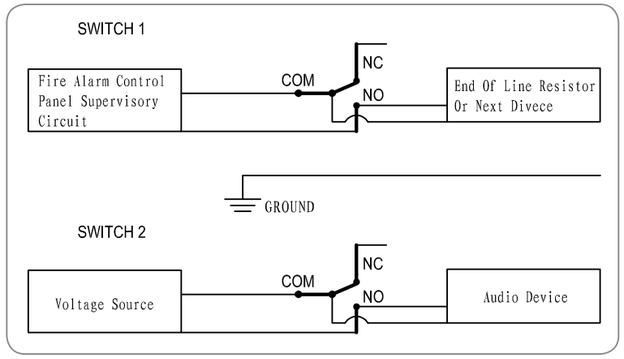


MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Cover	ASTM B85-96 383.0E
2	Body Gasket	EPDM
3	Spring	AISI 304
4	Air Delay Device	PC GV3410R
5	Stem Seal Assembly	SS304+NBR
6	Connecting Rod	POM 500P
7	Switch Assembly	PC GV3410R
8	Connection Plate	ASTM B85-96 383.0E
9	Connection Plate Seal	NBR
10	Body	ASTM A536, 65-45-12
11	Vane Assembly	PE
12	U-Bolts	Carbon Steel Zinc Plated
13	Nuts	Carbon Steel Zinc Plated

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

WIRING DIAGRAM



DN		Dimensions(mm)							
Inch	mm	R	A	B	C	D	E	Hole Dia.	Certificate
2"	50	60.3	116	100	63	140	83.5	30	UL/FM
2.5"	65	73	120	100	63	140	83.5	30	UL/FM
2.5"	65	76.1	122	100	63	140	83.5	30	UL/FM
3"	80	88.9	145	100	63	140	94	51	UL/FM
4"	100	114.3	185	100	63	140	94.5	51	UL/FM
5"	125	139.7	212	100	63	140	94.5	51	UL/FM
5"	125	141.3	212	100	63	140	94.5	51	UL/FM
6"	150	165.1	254	100	63	140	95	51	UL/FM
6"	150	168.3	254	100	63	140	95	51	UL/FM
8"	200	219.1	298	100	63	140	95	51	UL/FM
10"	250	273.0	381	100	63	140	97.5	70	——

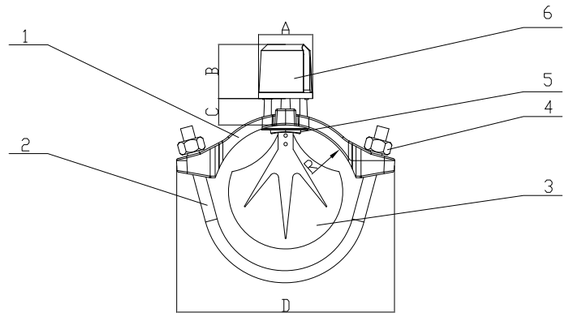
Note: Size 10" is not UL/FM listed.

Water Flow Indicator (ZSJZ)



ZSJZ

- Connection Ends: AWWA C606
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

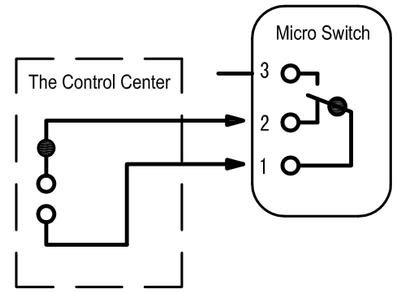


MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	ASTM A536, 65-45-12	
2	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
3	Lodicule	Plastic	
4	Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
5	Gasket	EPDM	NBR
6	Shell	Plastic	

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

SWITCH WIRING DIAGRAM



DN		Dimensions(mm)					Hole Dia.
Inch	mm	R	A	B	C	D	+1.6/0
2"	50	60.3	62	48	36	120	30
2.5"	65	73	62	48	31	130	30
3"	80	88.9	62	48	36.5	145	51
4"	100	114.3	62	48	30.5	185	51
5"	125	141.3	62	48	36.5	221.5	51
6"	150	168.3	62	48	33	254	51
8"	200	219.1	62	48	36.5	300	51

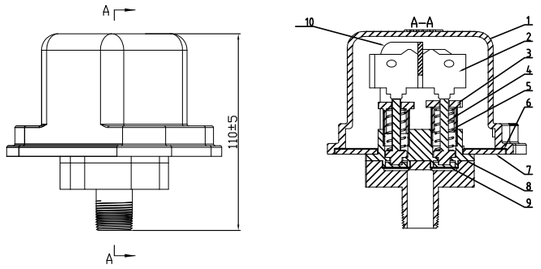
Pressure Switch (YLKG)



YLKG

- Service Environment: Indoor or Outdoor Use, all parts have corrosion resistant finishes
- Temperature Range: 4°C - 60°C
- Cover Tamper: Tamper Resistant Screws
  Optional Cover Tamper Switch Available
- Connection: 1/2-14NPT Thread
- Electrical Ratings: 125/250VAC 15A

Different pressure springs are selected according to the difference between the power range of the Pressure Switch (5-20 psi, 15-55 psi, 20-120 psi).

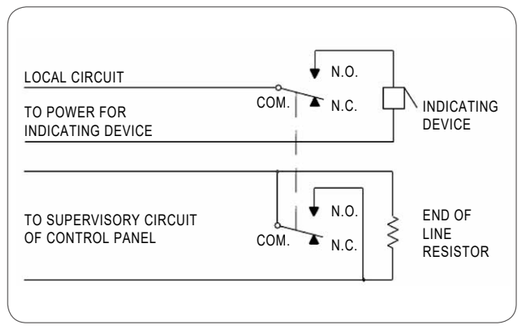


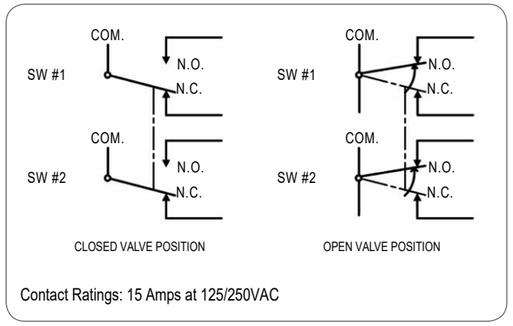
MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Outer Shell	ADC12	
2	Micro Switch		
3	Regulating Accessories	PA66+GF30	
4	Stem	PA66+GF30	
5	Compression Spring	65#	
6	Sealing Washer	PA66+GF30	
7	Back Shell	ADC12	
8	Pressure parts	PA66+GF30	
9	Pressure Diaphragm	EPDM	
10	Micro Stents	Carbon Steel Q235	AISI 304

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

TYPICAL ELECTRICAL CONNECTIONS





Contact Ratings: 15 Amps at 125/250VAC

AWWA C502 Dry Barrel Fire Hydrant (SSF)



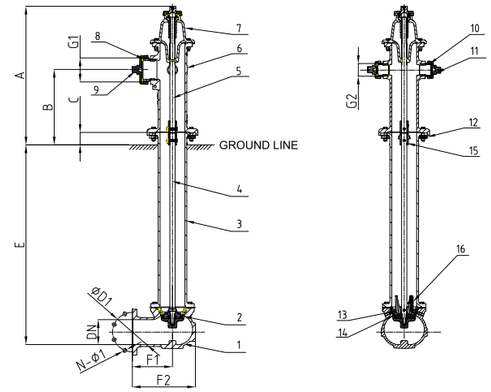
SSF

NSF/ANSI 61

•Specifications

※ Meet or exceed the requirements of AWWA C502 standard.
※ NFPA 1963 standard nozzle threads.
※ Connection Standard ASME B16.42 CL150
※ Traffic feature with duplex stainless steel safety stem coupling
※ Dry top design with O-ring sealed oil reservoir.
※ Dual auto-frost bronze drain valves as standard
※ NSF/ANSI 61 certification,UL 246 listed and FM 1510 approved.

- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Elbow	ASTM A536, 65-45-12	
2	Bottom Plate	ASTM A536, 65-45-12	
3	Lower Barrel	ASTM A536, 65-45-12	
4	Lower Stem	ASTM 1045	AISI 420
5	Upper Stem	ASTM 1045	AISI 420
6	Upper Barrel	ASTM A536, 65-45-12	
7	Hydrant Cap	ASTM A536, 65-45-12	
8	4.5" Nozzle	C83600	
9	4.5" Nozzle Cap	ASTM A536, 65-45-12	
10	2.5" Nozzle	C83600	
11	2.5" Nozzle Cap	ASTM A536, 65-45-12	
12	Half Flange	ASTM A126 Class B	
13	Drain Valve	Copper	
14	Seat Ring	NBR	EPDM
15	Stem Breaking Coupling	ASTM A126 Class B	
16	Drain Valve Seat	NBR	EPDM

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

DN		Base Valve Size		Dimensions(mm)									
Inch	mm	Inch	mm	A	B	C	E	D1	N-Φ1	F1	F2	G1	G2
6"	150	5-1/4"	128	846	460	76	1219	Φ241.3	8-Φ22.2	245	385	1-4.5"	2-2.5"

Mechanical Joint Dry Barrel Fire Hydrant (SSF-J)



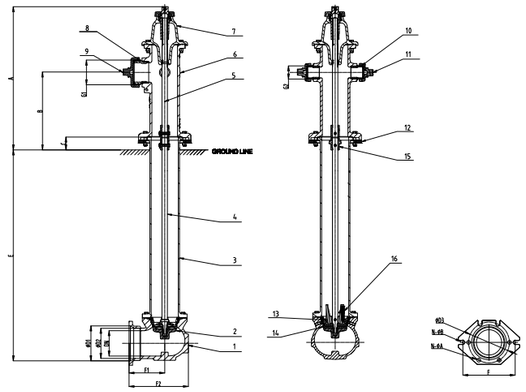
SSF-J

NSF/ANSI 61

•Specifications

※ Meet or exceed the requirements of AWWA C502 standard.
※ NFPA 1963 standard nozzle threads.
※ Connection Standard ANSI/AWWA C111/A21.11
※ Traffic feature with duplex stainless steel safety stem coupling
※ Dry top design with O-ring sealed oil reservoir.
※ Dual auto-frost bronze drain valves as standard
※ NSF/ANSI 61 certification,UL 246 listed and FM 1510 approved.

• Working Pressure: 300PSI
200PSI and 250PSI available upon request
• Temperature Range: 4°C - 60°C
• Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Elbow	ASTM A536, 65-45-12	
2	Bottom Plate	ASTM A536, 65-45-12	
3	Lower Barrel	ASTM A536, 65-45-12	
4	Lower Stem	ASTM 1045	AISI 420
5	Upper Stem	ASTM 1045	AISI 420
6	Upper Barrel	ASTM A536, 65-45-12	
7	Hydrant Cap	ASTM A536, 65-45-12	
8	4.5" Nozzle	C83600	
9	4.5" Nozzle Cap	ASTM A536, 65-45-12	
10	2.5" Nozzle	C83600	
11	2.5" Nozzle Cap	ASTM A536, 65-45-12	
12	Half Flange	ASTM A126 Class B	
13	Drain Valve	Copper	
14	Seat Ring	NBR	EPDM
15	Stem Breaking Coupling	ASTM A126 Class B	
16	Drain Valve Seat	NBR	EPDM

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

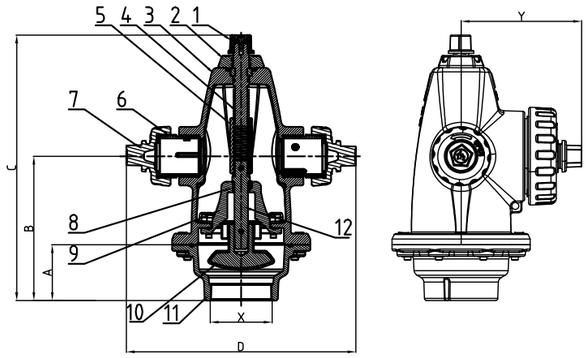
DN		Base Valve Size		Dimensions(mm)												
Inch	mm	Inch	mm	A	B	C	E	F	F1	F2	ΦD1	ϕD2	ΦD3	N- ∅ A	N- ∅ B	G1	G2
6"	150	5-1/4"	128	846	460	76	1524	309.4	210.6	350.6	ϕ206.2	ϕ177.8	ϕ241.3	6- ∅ 22.3	2- ∅ 23	1-4.5"	1-2.5"

AWWA C503 Wet-Barrel Fire Hydrant (SSZ)



SSZ

• Design Standard: AWWA C503-2014
• Working Pressure: 300PSI
• Temperature Range: 4°C - 60°C
• Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Stem Cap	ASTM A536, 65-45-12	
2	Gland	ASTM A536, 65-45-12	
3	Body	ASTM A536, 65-45-12	
4	Upper Stem	AISI 420	AISI 431
5	Stem Nut	C95400	
6	Nozzle	C83600	
7	Nozzle Cap	ASTM A536, 65-45-12	
8	Stem Ferrule	C83600	
9	Seat	ASTM A536, 65-45-12	
10	Clapper	ASTM A536, 65-45-12 + EPDM	ASTM A536, 65-45-12 + NBR
11	Lower Body	ASTM A536, 65-45-12	
12	Lower Stem	AISI 420	AISI 431

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

DN		Dimensions(mm)					
Inch	mm	A	B	C	D	X	Y
4"	100	101	261.1	480.2	415.5	4-8NPT	220

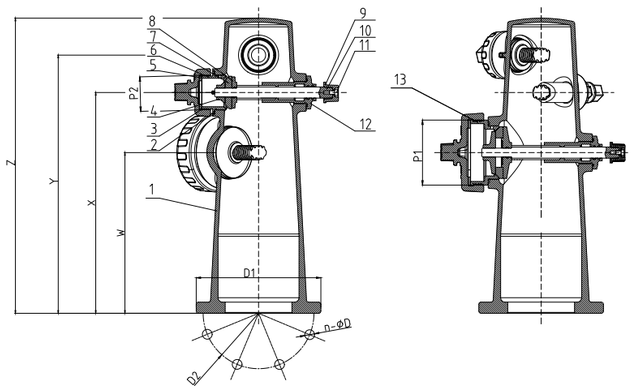
Wet Barrel Fire Hydrant (SSZ2)



SSZ2

NSF/ANSI 61

- Design Standard: AWWA C503, FM 1511, UL 246,NSF/ANSI 61
- Connection Standard: ASME B16.42 CL150
- Working Pressure: 300PSI
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	O-Ring	NBR	EPDM
3	2.5" Nozzle Cap	ASTM A536, 65-45-12	
4	2.5" Disc Gland	C83600	
5	2.5" Nozzle Gasket	EPDM	
6	2.5" Hose Outlet	C83600	
7	2.5" Rubber Coated Valve Disc	Q235+NBR	Q235+EPDM
8	2.5" Disc Bushing	C83600	
9	Stem Cap	ASTM A536, 65-45-12	
10	2.5" Stem	AISI 316	C83600 AISI 304
11	Hexagon Socket Bolt	Carbon Steel Galvanized	AISI 304
12	Tailstock	C83600	
13	Pump Outlet	C83600	

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

Model	P1	P2
SSZ2-4	1X4-4NH 1X4BS	2X2.5-7.5NH
SSZ2	1X4.5-4NH	
SSZ2-5	1X5-4NH 1X5BS	

1.P1 thread standard:BS336/NFPA1963

2.P2 thread standard:NFPA1963

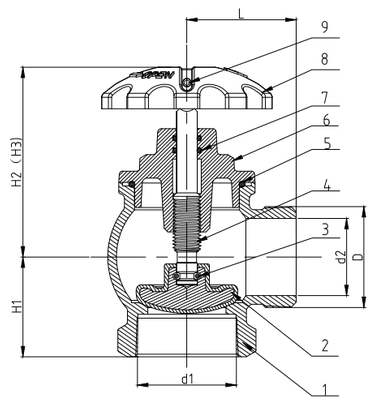
DN		Dimensions(mm)						
Inch	mm	D1	D2	n-ΦD	W	X	Y	Z
6"	150	288	241.3	8-Φ22	361	496	580	663

Indoor Fire Hydrant (SN)



SN

- Thread: ASME B1.20.1
- Working Pressure: 300PS,200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Coating: Fusion Bonded Epoxy Coating in accordance withANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Body	ASTM A536, 65-45-12
2	Disc	ASTM A536, 65-45-12+EPDM
3	Steel Ball	AISI 304
4	Stem	AISI 420
5	O-Ring	NBR
6	Bonnet	ASTM A536, 65-45-12
7	O-Ring	NBR
8	Handwheel	ABS
9	Screw	AISI 304

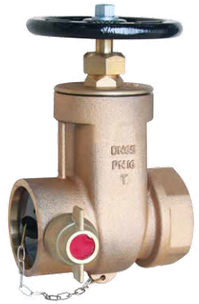
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)						
Inch	mm	H1	H2 (Close)	H3 (Open)	L	d1(Rc)	d2	D(R)
2"	50	57.5	109.5	128	63	2"	44.5	2"
2.5"	65	71	109.5	128	71	2 1/2"	58	2 1/2"

Dry Riser Landing Valve



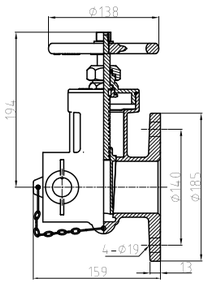
XZ45W



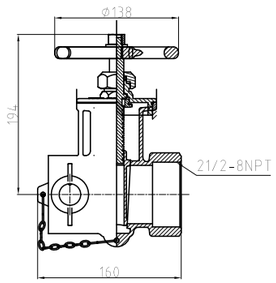
XZ15W



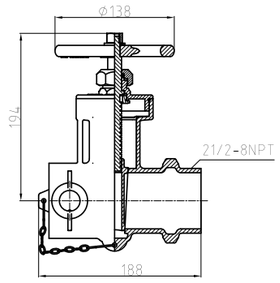
XZ25W



XZ45W



XZ15W



XZ25W

Description

- Dry Riser Gate Valve Flanged (XZ45W), 2.5″
  Dry Riser Gate Valve Threaded (XZ15W / XZ25W), 2.5″
- Working Pressure: 250PSI

Features

- Compact design with excellent flow characteristics
- High quality casting finishes
- Precise machining for metal to metal leak proof seating
- Corrosion resistant
- Maintenance free
- Leather strap and padlock available

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Lock	HPb59-1
2	Disc	HPb59-1
3	Valve Body	Gunmetal
4	Bonnet	HPb59-1
5	Stem	HPb59-1
6	Handwheel	ASTM A536 65-45-12

Test and Drain Valve (TADV)



TADV

FM APPROVED c UL us LISTED

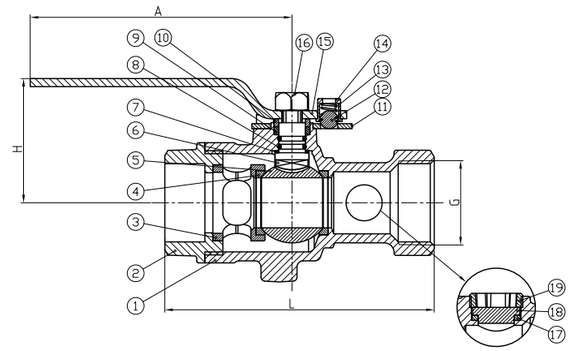
- Design Standard: FM1625,UL258
- Connection standard: ASME B1.20.1
  BS EN 10226-2(ISO 7-1)
- Working Pressure: 300PSI
- Working Temperature: 4°C - 60°C
- Orifice Diameter: K2.8/4.2/5.6/8.0/11.2

FM APPROVED

Model TADV(300psi RWP)	
Size	K factor
1"	K2.8,K4.2,K5.6
1-1/4"	K2.8,K4.2,K5.6
1-1/2"	K2.8,K4.2,K5.6
2"	K2.8,K4.2,K5.6,K8.0,K11.2

c UL us LISTED

Model TADV(300psi RWP)	
Size	K factor
1-1/4"	K2.8,K5.6,
1-1/2"	K11.2
2"	K8.0,K11.2



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	CW617N	
2	Bonnet	CW617N	
3	Bonnet Extension	CW612N	
4	Ball Seat	PTFE	
5	Ball	CW617N	
6	Stem	CW612N	
7	Stem Seal	PTFE	
8	O-Ring	NBR	
9	Stem Seal	PTFE	
10	Ring	CW612N	
11	Label Plate	AISI 304	AISI 316
12	Bearing Ball	AISI 304	AISI 316
13	Spring	AISI 304	AISI 316
14	Bearing Ball Centering	CW612N	
15	Lever	AISI 304	AISI 316
16	Nut With Fiber		
17	Sight Glass Seal	EPDM	
18	Sight Glass	PMMA	
19	Sight Glass Gasket	CW612N	

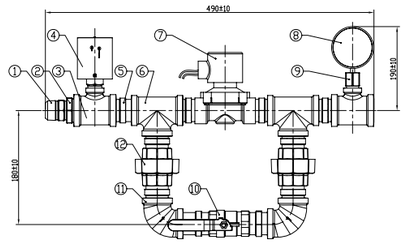
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)			
Inch	mm	L	H	A	G
1"	25	134.5	63.5	130	BSPT 1"/NPT 1"
11/4"	32	135.5	64.5	132.5	BSPT 11/4"/NPT 11/4"
11/2"	40	163.5	79	152	BSPT 11/2"/NPT 11/2"
2"	50	167	79	152	BSPT 2"/NPT 2"

Electric Inspector's Test Connection (ZSPM-80-DX)



ZSPM-80-DX



MATERIAL SPECIFICATION

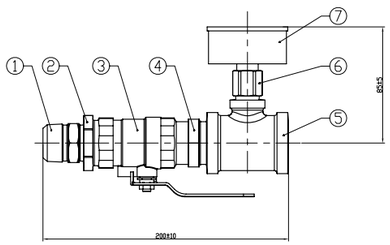
Part No.	Part	Standard Specification
1	Test Nozzle	AISI 304
2	Outside Hex Bushing	Malleable Iron Galvanized
3	Reducing Tee	Malleable Iron Galvanized
4	Pressure Switch	
5	Nexagon Nipple,Equal	Malleable Iron Galvanized
6	Reducing Tee	Malleable Iron Galvanized
7	Solenoid Valves	Brass
8	Pressure Gauge	
9	Connector	Brass
10	Ball Valve	AISI 304
11	90° Elbow	Malleable Iron Galvanized
12	Union With Brass Seat	Malleable Iron Galvanized

Note: 1.For special material request other than standard specification, please indicate clearly on the inquiry or oder list.
2.Threads connection options available includes: ASME B1.20.1, ISO 7-1

Manual Inspector's Test Connection (ZSPM-80-SA)



ZSPM-80-SA



MATERIAL SPECIFICATION

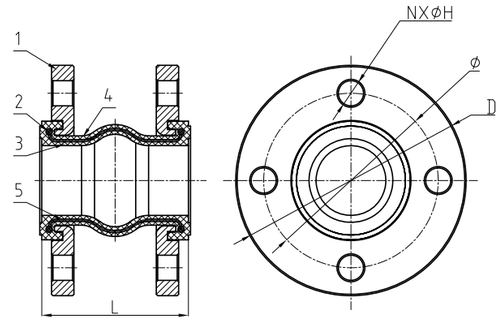
Part No.	Part	Standard Specification
1	Test Nozzle	AISI 304
2	Bushing	Malleable iron Galvanized
3	Ball Valve	AISI 304
4	Hexagon Nipple	Malleable iron Galvanized
5	Reducing Tee	Malleable iron Galvanized
6	Pressure Gauge Connector	AISI 304
7	Pressure Gauge	AISI 201

Note: 1.For special material request other than standard specification, please indicate clearly on the inquiry or oder list.
2.Threads connection options available includes: ASME B1.20.1, ISO 7-1

Flexible Rubber Joint Single Sphere Electroplated Carbon Steel Flange Connection (XTQ1RF)



XTQ1RF



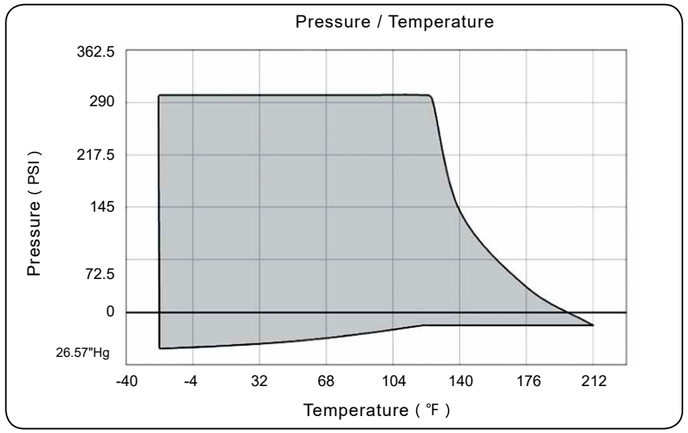
- Connection Ends: Flange Drilling to ASME B16.5 CL150
- Working Pressure: 300PSI
  175PSI,200PSIand 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Vacuum Capacity: 700MM/HG

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Flange	Galvanized Carbon Steel
2	Reinforcing Ring	Carbon Steel
3	Rubber (Inner)	EPDM
4	Rubber (Outer)	EPDM
5	Reinforcing Fabric	Nylon Fabric

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

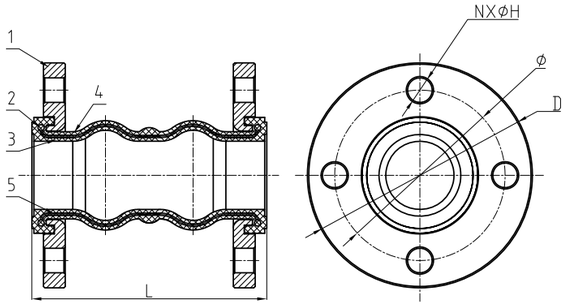
DN		Neutral Length(mm)				Axial(mm)		Transverse Movement(mm)	Angular Deflection Deg.
Inch	mm	L	D	Ø	N-ØH	Elongation	Compression		
1 1/4"	32	95	115	88.9	4X15.9	6	10	10	25
1 1/2"	40	95	127	98.5	4X15.9	6	10	10	25
2"	50	105	152	120.7	4X19.1	6	10	10	25
2 1/2"	65	115	178	139.7	4X19.1	8	15	12	25
3"	80	135	191	152.4	4X19.1	8	15	12	25
4"	100	150	229	190.5	8X19.1	12	20	16	15
5"	125	165	254	215.9	8X22.2	12	20	16	15
6"	150	180	279	241.3	8X22.2	12	20	16	15
8"	200	210	343	298.5	8X22.2	12	20	16	15
10"	250	230	406	362	12X25.4	14	30	25	8
12"	300	230	483	431.8	12X25.4	14	30	25	8
14"	350	265	533	476.3	12X28.6	14	30	25	8
16"	400	265	597	539.8	16X28.6	14	30	25	8
18"	450	265	635	577.9	16X31.8	14	30	25	8
20"	500	265	699	635	20X31.8	14	30	25	8
24"	600	265	813	749.3	20X34.9	14	30	25	8



Flexible Rubber Joint Twin Sphere Electroplated Carbon Steel Flange Connection (XTQ2RF)



XTQ2RF



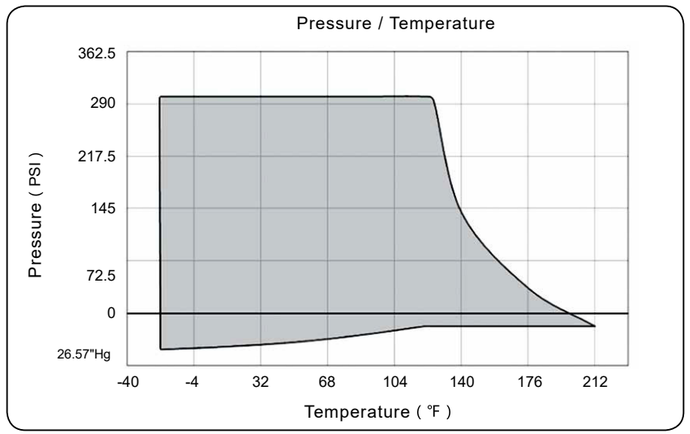
- Connection Ends: Flange Drilling to ASME B16.5 CL150
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Vacuum Capacity: 650MM/HG

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Flange	Galvanized Carbon Steel
2	Reinforcing Ring	Carbon Steel
3	Rubber (Inner)	EPDM
4	Rubber (Outer)	EPDM
5	Reinforcing Fabric	Nylon Fabric

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

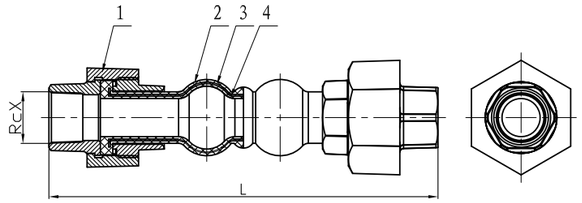
DN		Neutral Length(mm)				Axial(mm)		Transverse Movement(mm)	Angular Deflection Deg.
Inch	mm	L	D	Ø	N-ØH	Elongation	Compression		
1 1/4"	32	175	115	88.9	4X15.9	30	45	45	45
1 1/2"	40	175	127	98.5	4X15.9	30	45	45	45
2"	50	175	152	120.7	4X19.1	30	45	45	45
2 1/2"	65	175	178	139.7	4X19.1	30	45	45	45
3"	80	175	191	152.4	4X19.1	35	50	40	30
4"	100	225	229	190.5	8X19.1	35	50	40	30
5"	125	225	254	215.9	8X22.2	35	50	40	30
6"	150	225	279	241.3	8X22.2	35	60	35	15
8"	200	325	343	298.5	8X22.2	35	60	35	15
10"	250	325	406	362	12X25.4	35	60	35	15
12"	300	325	483	431.8	12X25.4	35	60	35	15
14"	350	350	533	476.3	12X28.6	35	60	35	15



Flexible Rubber Joint Twin Sphere Union-Screw End Connection (XTQ2L)



XTQ2L



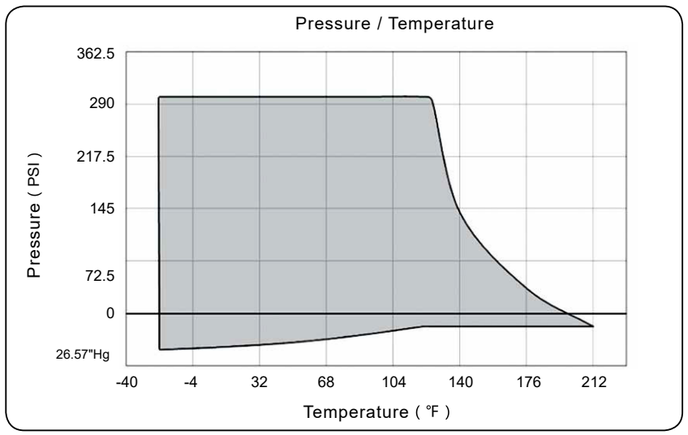
- Thread: ASME B1.20.1
- Working Pressure: 300PSI
  200PSI and 250PSI available upon request
- Temperature Range: 4°C - 60°C
- Vacuum Capacity: 500MM/HG

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Union	Malleable iron
2	Rubber (Outer)	EPDM
3	Reinforcing Fabric	Nylon Fabric
4	Rubber (Inner)	EPDM

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

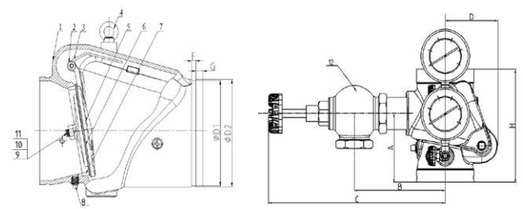
DN		Neutral Length(mm)	Thread	Axial(mm)		Transverse Movement(mm)	Angular Deflection Deg.
Inch	mm	L	X NPT	Elongation	Compression		
1/2"	15	200	1/2-14	6	22	22	40
3/4"	20	200	3/4-14	6	22	22	40
1"	25	200	1-11.5	6	22	22	40
1 1/4"	32	200	1 1/4-11.5	6	22	22	40
1 1/2"	40	200	1 1/2-11.5	6	22	22	40
2"	50	200	2-11.5	6	22	22	40
2 1/2"	65	240	2 1/2-8	6	22	22	40
3"	80	240	3-8	6	22	22	40



Shotgun Riser Check Valve (ZSQKFX1)



ZSQKFX1



- Design Standard: UL312,FM1210
- Grooved Specification: AWWA C606
- Working Pressure: 300PSI,200PSI and 250PSI available upon request
- Temperature Range: 4°C -60°C
- Coating: Fusion Bonded Epoxy Coating Complies with ANSIAWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Hinge Pin	AISI 420	
3	Spring	AISI 304	AISI 316
4	Eye Bolt	Carbon Steel Zinc Plated (8")	
5	Disc	AISI 304 (2"-4") ASTM A536, 65-45-12 (5"-8")	
6	Seal Ring	EPDM	NBR
7	Seat	ASTM B62 C83600	
8	Plug	Malleable Iron Galvanized	
9	Stud Bolt	AISI 304	AISI 316
10	Washer	AISI 304	AISI 316
11	Nuts	AISI 304	AISI 316
12	Drain Valve	Brass HPb59-1	
13	Nipple	Carbon Steel Zinc Plated	
14	Isolation Valve	Brass HPb59-1	
15	Pressure Gauge		

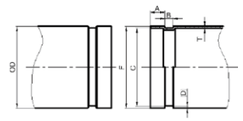
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)												
Inch	mm	H	A	B	C1 (Open)	C2 (Close)	D	E	L1	L2	ΦD1	ΦD2	F	G
2.5"	65	184	96.5	117.5	252	240	85.5	57.2	156	266	69.09	73	7.93	15.88
3"	80	197	102.6	122	257	245	93.7	63	163	273	84.94	88.9	7.93	15.88
4"	100	206	125	162	325	286	108	75.6	189	286	110.08	114.3	9.53	15.88
5"	125	248	131.7	169	331	292	118	86.4	195	254	137.03	141.3	9.53	15.88
6"	150	324	159	191	355	316	172.8	108.3	218.5	268	163.96	168.3	9.53	15.88
8"	200	371	176.3	212	375	336	202	131.3	233	294	214.4	219.1	11.1	19.05

Roll Groove Dimensions

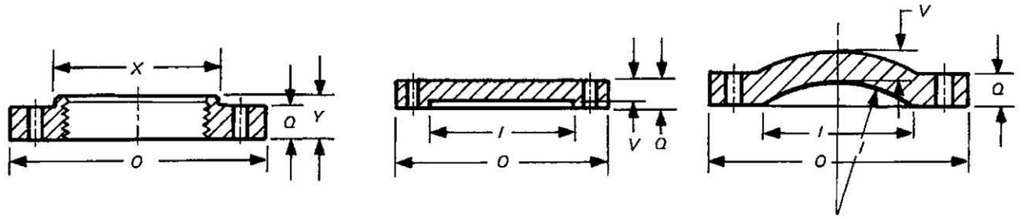


Roll Grooving Machine



Nominal Size mm/in	Pipe OD			Gasket seat A ±0.76/±0.03 mm/in	Groove Width B ±0.76/±0.03 mm/in	Groove Dia C		Groove Depth D(ref) mm/in	Max Allow Flare Dia F mm/in	Min. Allow wall thickness T mm/in
	Basic mm/in	Tolerence mm/in				Basic mm/in	Tolerence mm/in			
25 1	33.7 1.327	+0.41 +0.016	-0.68 -0.026	15.88 0.625	7.14 0.281	30.23 1.190	-0.38 -0.015	1.60 0.063	34.5 1.358	1.8 0.071
32 1¼	42.4 1.669	+0.50 +0.020	-0.60 -0.023	15.88 0.625	7.14 0.281	38.99 1.535	-0.38 -0.015	1.60 0.063	43.3 1.705	1.8 0.071
40 1½	48.3 1.900	+0.44 +0.017	-0.52 -0.020	15.88 0.625	7.14 0.281	45.09 1.779	-0.38 -0.015	1.60 0.063	49.4 1.945	1.8 0.071
50 2	60.3 2.375	+0.61 +0.024	-0.61 -0.024	15.88 0.625	8.74 0.344	57.15 2.250	-0.38 -0.015	1.60 0.063	62.2 2.449	1.8 0.071
65 2½	73.0 2.875	+0.74 +0.029	-0.74 -0.029	15.88 0.625	8.74 0.344	69.09 2.720	-0.46 -0.018	1.98 0.078	75.2 2.961	2.3 0.091
65 2½	76.1 3.000	+0.76 +0.030	-0.76 -0.030	15.88 0.625	8.74 0.344	72.26 2.845	-0.46 -0.018	1.99 0.078	77.7 3.059	2.3 0.091
80 3	88.9 3.500	+0.89 +0.035	-0.79 -0.031	15.88 0.625	8.74 0.344	84.94 3.344	-0.46 -0.018	1.98 0.078	90.6 3.567	2.3 0.091
100 4	108.0 4.250	+1.07 +0.042	-0.79 -0.031	15.88 0.625	8.74 0.344	103.73 4.084	-0.51 -0.020	2.11 0.083	109.7 4.319	2.3 0.091
100 4	114.3 4.500	+1.14 +0.045	-0.79 -0.031	15.88 0.625	8.74 0.344	110.08 4.334	-0.51 -0.020	2.11 0.083	116.2 4.575	2.3 0.091
125 5	133.0 5.250	+1.32 +0.052	-0.79 -0.031	15.88 0.625	8.74 0.344	129.13 5.084	-0.51 -0.020	2.11 0.083	134.9 5.311	2.9 0.114
125 5	139.7 5.500	+1.40 +0.055	-0.79 -0.031	15.88 0.625	8.74 0.344	135.48 5.334	-0.51 -0.020	2.11 0.083	141.7 5.579	2.9 0.114
125 5	141.3 5.563	+1.42 +0.056	-0.79 -0.031	15.88 0.625	8.74 0.344	137.03 5.395	-0.56 -0.022	2.13 0.084	143.5 5.650	2.9 0.114
150 6	159.0 6.250	+1.60 +0.063	-0.79 -0.031	15.88 0.625	8.74 0.344	154.50 6.083	-0.56 -0.022	2.16 0.085	161.0 6.339	2.9 0.114
150 6	165.1 6.500	+1.60 +0.063	-0.79 -0.031	15.88 0.625	8.74 0.344	160.8 6.330	-0.56 -0.022	2.16 0.085	167.1 6.579	2.9 0.114
150 6	168.3 6.625	+1.60 +0.063	-0.79 -0.031	15.88 0.625	8.74 0.344	163.96 6.455	-0.56 -0.022	2.16 0.085	170.7 6.720	2.9 0.114
200A 8	216.3 8.516	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	211.60 8.331	-0.64 -0.025	2.35 0.093	219.8 8.653	2.9 0.114
200 8	219.1 8.625	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	214.40 8.441	-0.64 -0.025	2.34 0.092	221.5 8.720	2.9 0.114
250A 10	267.4 10.528	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	262.60 10.339	-0.69 -0.027	2.40 0.095	270.9 10.665	3.6 0.142
250 10	273.0 10.750	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	268.28 10.562	-0.69 -0.027	2.39 0.094	275.4 10.842	3.6 0.142
300A 12	318.5 12.539	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	312.90 12.319	-0.76 -0.030	2.77 0.109	322.0 12.677	4.0 0.158
300 12	323.9 12.750	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	318.29 12.531	-0.76 -0.030	2.77 0.109	326.2 12.842	4.0 0.158
350 14	377.0 14.842	+1.60 +0.063	-0.79 -0.031	23.83 0.938	11.91 0.469	371.44 14.623	-0.76 -0.030	2.77 0.109	379.5 14.941	4.5 0.177
400 16	426.0 16.772	+1.60 +0.063	-0.79 -0.031	23.83 0.938	11.91 0.469	420.46 16.553	-0.76 -0.030	2.77 0.109	428.5 16.870	4.5 0.177
500 20	529.0 20.827	+1.60 +0.063	-0.79 -0.031	25.40 1.000	11.91 0.469	523.46 20.608	-0.76 -0.030	2.77 0.109	533.0 20.984	5.0 0.197

Class 125 Flange and Bolting Dimensions



NPS	Flanges		Hub		Blind Flanges		Bolt Holes		Bolting			
	Diameter of Flange, O	Thickness of Flange, Min., Q [Note(1)]	Diameter Min., X	Length of Hub and Threads, Min., Y [Note(2)]	Diameter of Port, I [Note(3)]	Wall thickness, V [Note(4)]	Diameter of Bolt Circle	Diameter of Bolt Holes [Notes(5) and(6)]	Number of Bolts	Diameter of Bolts [Notes(7) anf(8)]	Length of Bolts [Notes(7) and(8)]	Length of Bolt Stud With Two Nuts [Note(7)]
1	110	11.1	49	18	25	9.6	79	5/8	4	1/2	45	···
11/4	115	12.7	59	21	32	11.1	89	5/8	4	1/2	51	···
11/2	125	14.3	65	22	38	12.7	98	5/8	4	1/2	51	···
2	150	15.9	78	25	51	14.3	121	3/4	4	5/8	57	···
21/2	180	17.5	91	29	64	15.9	140	3/4	4	5/8	64	···
3	190	19.0	108	30	76	17.5	152	3/4	4	5/8	64	···
31/2	215	20.6	122	32	89	19.0	178	3/4	8	5/8	70	···
4	230	23.8	135	33	102	22.2	191	3/4	8	5/8	76	···
5	255	23.8	164	37	127	22.2	216	7/8	8	3/4	76	···
6	280	25.4	192	40	152	23.8	241	7/8	8	3/4	83	···
8	345	28.6	246	45	203	27.0	299	7/8	8	3/4	89	···
10	405	30.2	303	49	254	28.6	362	1	12	7/8	95	···
12	485	31.8	357	56	305	20.6	432	1	12	7/8	95	···
14	535	32.4	391	57	356	22.2	476	1 1/8	12	1	108	···
16	595	36.5	445	64	406	25.4	540	1 1/8	16	1	114	···
18	635	39.7	499	68	457	27.0	578	1 1/4	16	1 1/8	121	···
20	700	42.9	553	73	508	28.6	635	1 1/4	20	1 1/8	127	···
24	815	47.6	660	83	610	31.8	749	1 3/8	20	1 1/4	140	···
30	985	54.0	···	···	762	36.6	914	1 3/8	28	1 1/4	159	···
36	1170	60.3	···	···	914	41.3	1086	1 5/8	32	1 1/2	178	222
42	1345	66.7	···	···	1066	46.0	1257	1 5/8	36	1 1/2	191	235
48	1510	69.9	···	···	1219	50.8	1422	1 5/8	44	1 1/2	197	242
54(9)	1685	76.2	···	···	···	···	1594	2	44	1 3/8	216	267
60(9)	1855	79.4	···	···	···	···	1759	2	52	1 3/8	222	273
72(9)	2195	88.9	···	···	···	···	2096	2	60	1 3/8	241	292
84(9)	2535	98.4	···	···	···	···	2426	2 1/4	64	2	267	324
96(9)	2875	108.0	···	···	···	···	2756	2 1/2	68	2 1/4	292	356

General Note: Dimensions are in millimeters.
Notes.
(1)For facing see para.7.2.(a)
(2) For thread of threaded flanges, see paras.7.5.1 and 7.5.2.
(3) All blind flange NPS 12 and larger must be dished with inside radius equal to the port diameter.
(4)For wall thickness tolerance, see para.7.1.
(5)For flange bolt holes, see para.7.6.
(6) For spot facing, see para.7.7.
(7) For bolts and nuts, see para.8.1.1.
(8) Bolt lengths to be compensated for when bolting steel to gray iron flanges.
(9) NPS 54 through 96 are included for convenience. Pressure-temperature ratings are the user's responsibility

EXCEPTIONS

Our company maintains a policy of continual product improvement and, therefore, reserves the right to change product specifications, designs, and standard equipment without notice and without incurring obligation.

The technical and performance data, dimensions and specifications published are current as of the date of publication.

Due to the continuous optimization of performance, there may be discrepancies between the actual product and the photo, Please refer to the actual product for details.

All products in this catalog are designed for fire protection applications.Before installation, please carefully verify that the product information matches the intended operating conditions. If there is any discrepancy, consult us prior to use.For special operating conditions such as high-salt, high-temperature and corrosive environments, please specify them clearly; customization is available according to actual working conditions.

During installation, the force of opening and closing the valve should be steady, and the threaded drive valve should be reversed a little after it is fully opened to avoid loosening or damage to the thread.

Valves in use should be regularly maintained. Generally flexible operation, inspection and drainageof valves should be carried out at least once a month. Equipment with filtering functions or used inenviron--ments containing sundry medium should increase the frequency of maintenance, and check and clean up at least once a week, so as not to affect the function.

When the weather is cold, if the valve is normally closed, drain the accumulated water and pay attention to anti-freezing; it is forbidden to knock, stand on or support heavy objects on the valve in operation.

Please refer to the instructions strictly or consult in advance, otherwise, our company will not bear the related losses and liabilities.