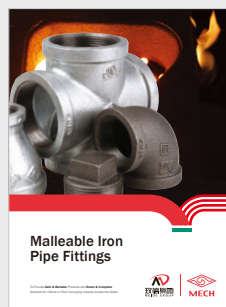


MECH FLOW SUPPLIES



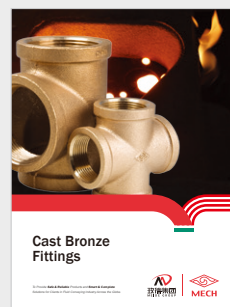
Malleable Iron
Pipe Fittings



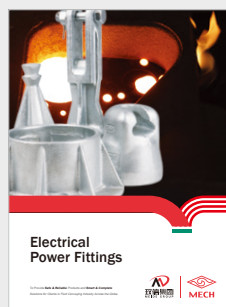
Ductile Iron
Grooved Fittings
and Couplings



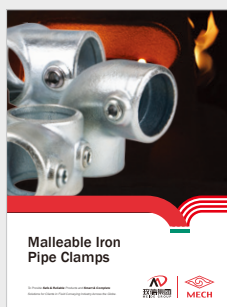
Valves



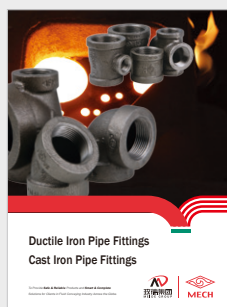
Cast Bronze
Fittings



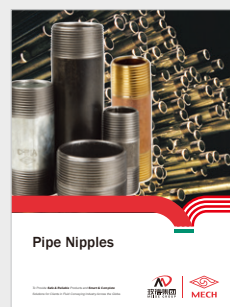
Electrical
Power Fittings



Malleable Iron
Pipe Clamps



Ductile Iron Pipe Fittings
Cast Iron Pipe Fittings



Pipe Nipples



JINAN MEIDE CASTING CO., LTD.

Address: Meide Industrial Science and Technology City,
Industrial Park Pingyin, Jinan, China 250400

Phone: (86)531 87856271 87879384 87885060

Fax: (86)531 87879387

Email: info@meide-casting.com

Http: www.meide-casting.com

UPDATED 08/2022



Valves

For General Purpose

American Standard

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



More than 60 years of Foundry Experience

Company Profile

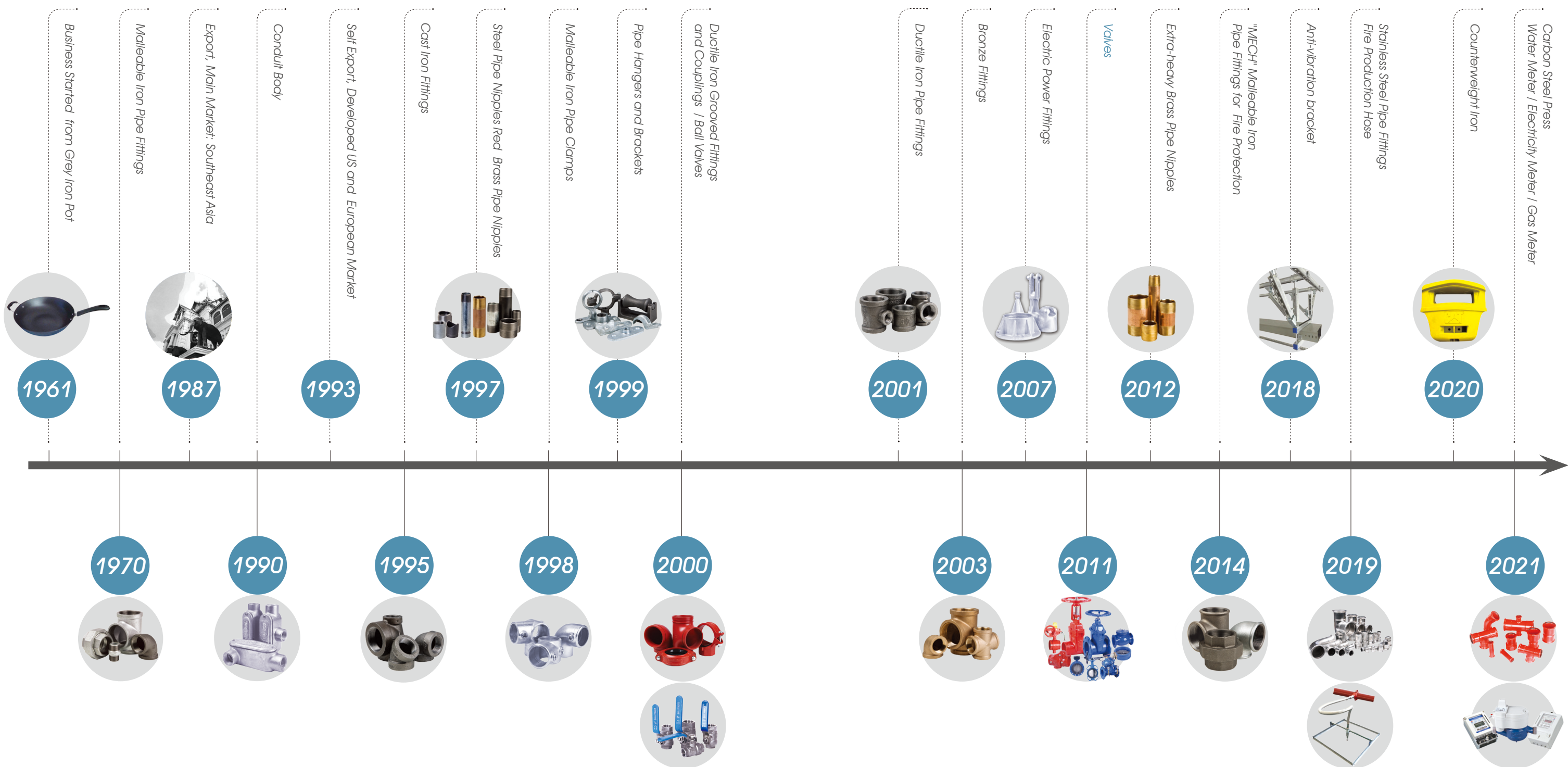
Meide Group is a high-tech enterprise specialized in supplying fittings and valves in fluid industry. The company has won more than 400 great honors, such as Single Champion Demonstration Enterprise, Green Manufacturing Enterprise, China's top 100 Light Industrial Enterprise, China's Leading Enterprise 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 Burj 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



State of the Art Equipment

High precision equipment is quality assurance.

Jinan Meide's 8 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



Tokyu AMF-111055



DISA



Sinto FCMX



Melting



Pouring



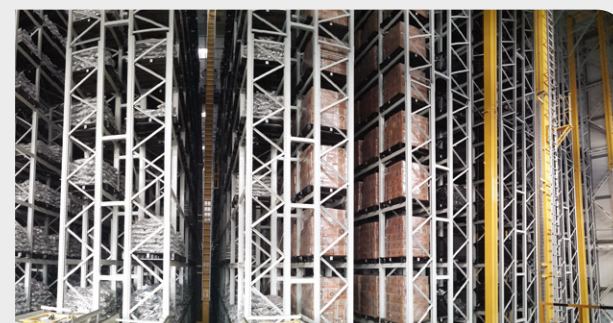
Machining



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



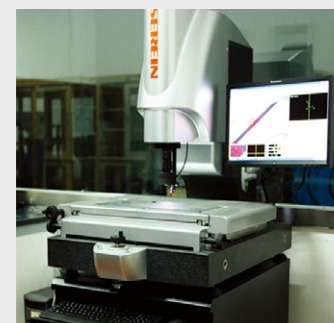
R & D



Spectrometer



CMM



Projector



Pipe line



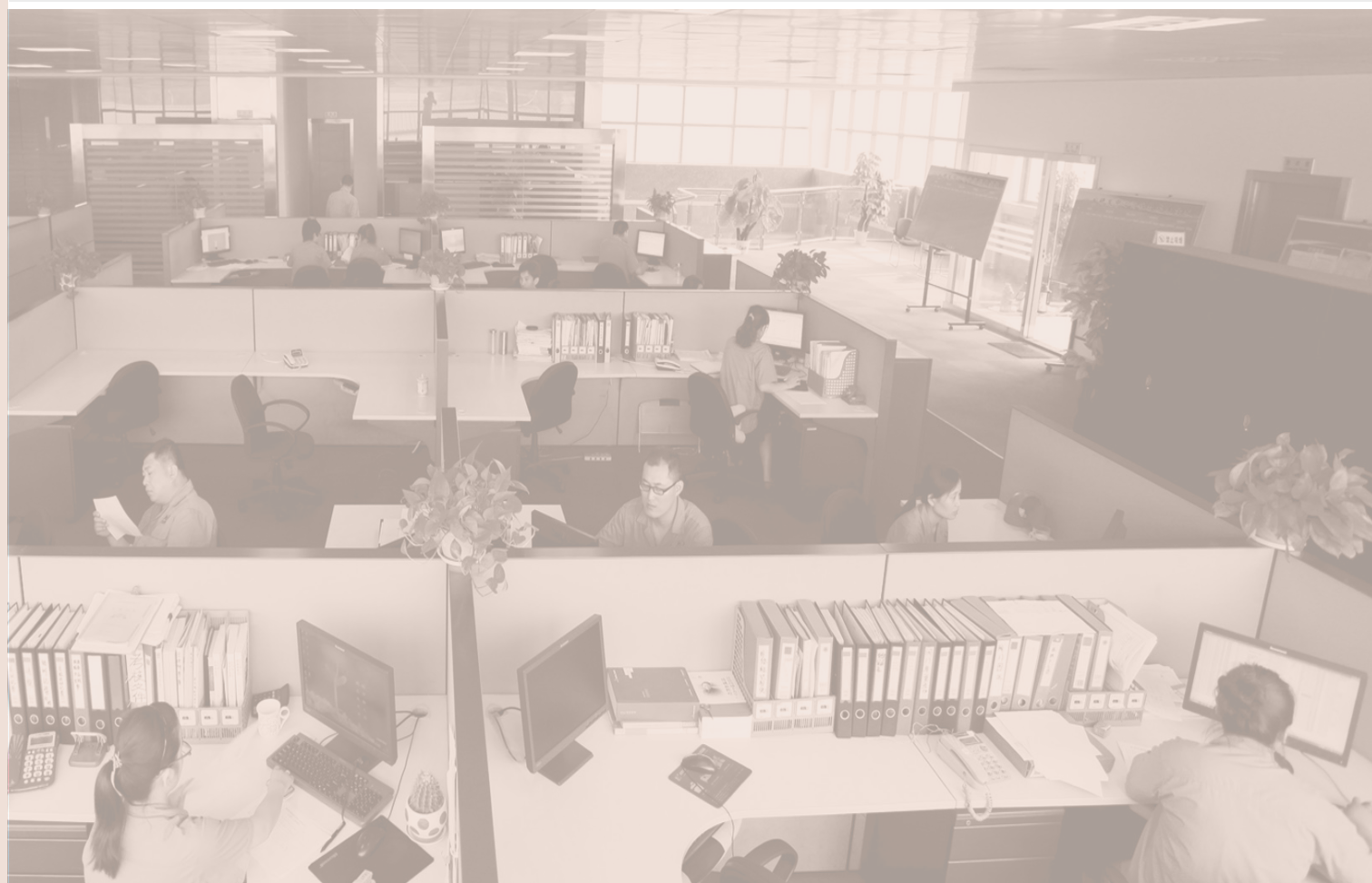
Valve Pressure Testing Machine (Vertical)



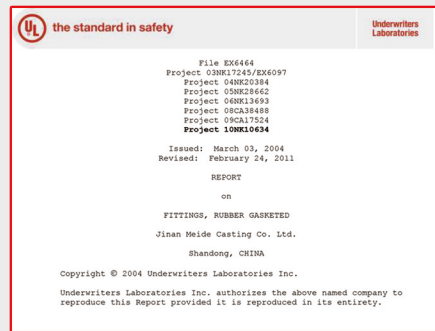
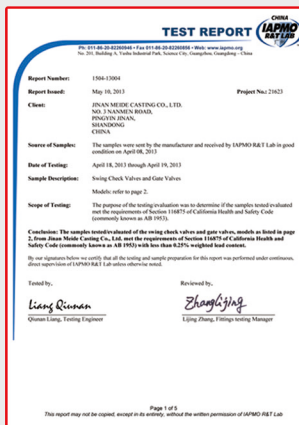
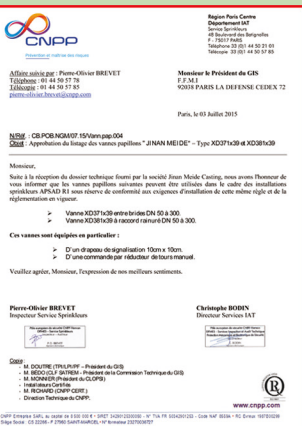
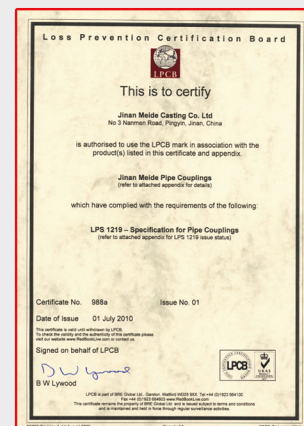
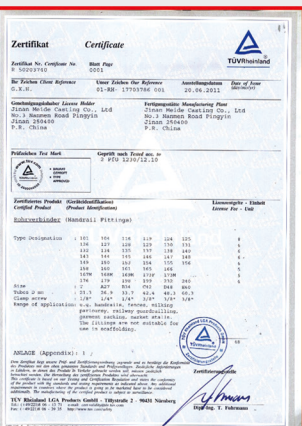
Endurance Test Machine



Valve Pressure Testing Machine (Horizontal)



Certificates





• **Z45X**
Flanged Resilient
NRS Gate Valve



• **Z35X**
Mechanical Joint Resilient
NRS Gate Valve



• **Z15X**
Threaded Joint Resilient
NRS Gate Valve



• **Z15X**
Threaded Joint Resilient
NRS Gate Valve



• **ZA5XC**
Socket Resilient
NRS Gate Valve



• **ZB5XC**
Socket X Flanged Resilient
NRS Gate Valve



• **XZ41X**
Flanged Resilient
OS&Y Gate Valve



• **Z45XFF**
150 Pounds of Gate
Valve



• **D71XK**
Wafer Butterfly
Valve



• **D71XKL**
Wafer Butterfly Valve
With Long Neck



• **D71XLK**
Lugged Wafer
Butterfly Valve



• **D71X4**
Wafer Butterfly
Valve



• **D71XLV4**
Lugged Wafer
Butterfly Valve



• **D41X4**
Flanged Butterfly
Valve



• **D371X205**
Wafer Butterfly Valve
with Sprocket Gearbox



• **D81X4**
Grooved Butterfly
Valve



• **D81X4-BL**
Grooved Butterfly
Valve



• **H44X2**
Swing Check Valve



• **H44XW**
Swing Check Valve
with Weight & Lever



• **H44J**
Rubber Disc Swing
Check Valve



• **DH77X**
Double Door Wafer
Check Valve



• **DH87X**
Double Door Grooved
Check Valve



• **DH74X**
Single Door Wafer
Check Valve



• **HSB4X**
Backwater Valve



• **HC41X**
Silent Check Valve



• **V4**
Flanged Y-Type Strainer



• **V1**
Threaded Y-Type Strainer



• **V8D**
Grooved Diversion Strainer



• **ZFGP4X**
Compound High Speed
Air Bleeding Valve



• **ARVX**
Micro Air Bleeding Valve



• **XTQ1RF**
Flexible Rubber Joint
Single Sphere



• **XTQ2RF**
Flexible Rubber Joint
Twin Sphere



• **XTQ2L**
Flexible Rubber Joint
Twin Sphere



• **SK710X**
Electromagnetic
Control Valve



• **SK720X**
Pressure Reducing
Valve



• **SK730X**
Pressure Relief
& Sustaining Valve



• **SK735X**
Surge Anticipating
Valve



• **SK745X**
Pump Control Valve /
Slow Shut Control Valve



• **SK750X**
Remote Float
Control Valve

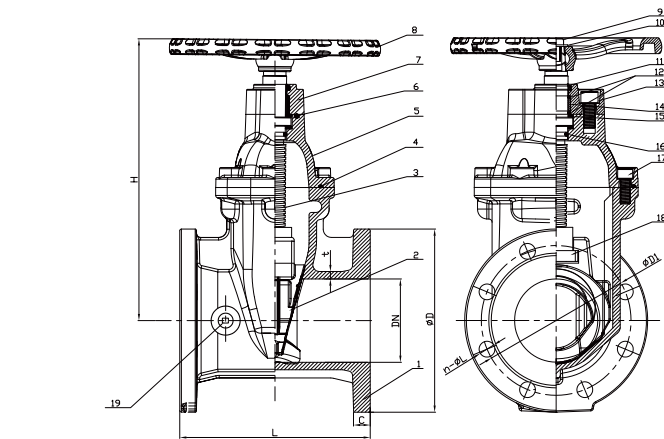


• **SK780X**
Pressure Differential By-pass
Balancing Valve

AWWA C515 Flanged Resilient NRS
Gate Valve (Z45X),
NSF Approved



- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with
ANSI/AWWA C550



MATERIAL SPECIFICATION			
Part No.	Part	Standard Specification	Options
1	Valve Body	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, Al-bronze
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	
7	Gland	ASTM A536, 65-45-12	
8	Handwheel	ASTM A536, 65-45-12	
9	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
10	Flat Washer	Carbon Steel Zinc Plated	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	Stem Nut	Brass Hpb59-1	Bronze ZQSn5-5-5
19	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"-24" with 1pc of 3/4" bronze NPT tapping plug.

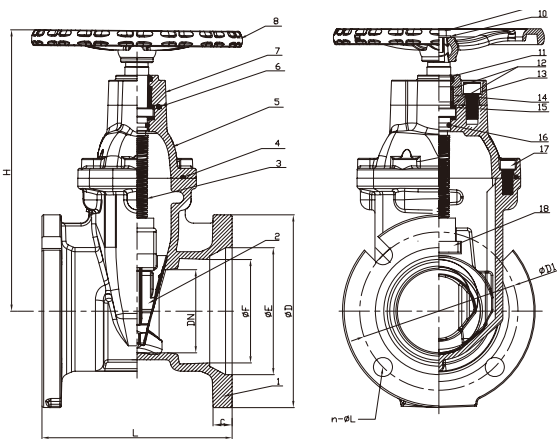
DN		Dimensions(mm)					
Inch	mm	L	H	D	D1	C	n-ΦL
2"	50	178	254	152	120.7	16	4-Φ19.1
2.5"	65	190	275	178	139.7	17.5	4-Φ19.1
3"	80	203	301	191	152.4	19.1	4-Φ19.1
4"	100	229	355	229	190.5	19.1	8-Φ19.1
5"	125	254	393	254	215.9	19.1	8-Φ22.2
6"	150	267	448	279	241.3	19.1	8-Φ22.2
8"	200	292	548	343	298.5	22.2	8-Φ22.2
10"	250	330	626	406	362	23.8	12-Φ25.4
12"	300	356	722	483	431.8	25.4	12-Φ25.4
14"	350	381	917	533	476.25	25.4	12-Φ28.6
16"	400	406	917	597	539.75	25.4	16-Φ28.6
18"	450	432	1108	635	577.85	25.4	16-Φ31.8
20"	500	457	1130	699	635.00	28.6	20-Φ31.8
24"	600	508	1311	813	749.3	30.1	20-Φ34.9

Note: Single lead thread stem is available upon request.

Mechanical Joint Resilient NRS
Gate Valve (Z35X),
NSF Approved



- Connection Ends: Mechanical Joint to ANSI/AWWA C153/A21.53
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- 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, AISI 420, AISI 431
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	Carbon Steel Zinc Plated	AISI 304, AISI 316
10	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
11	Ring Washer	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.

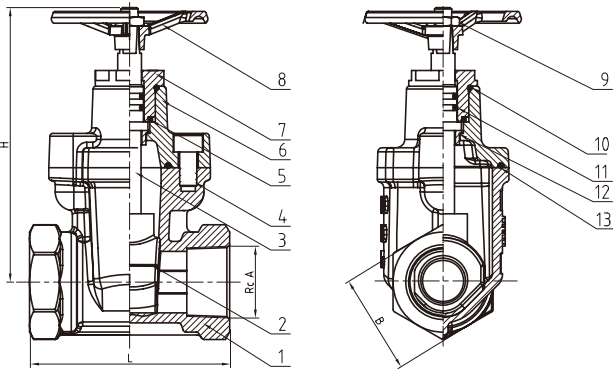
DN		Dimensions(mm)							
Inch	mm	L	H	D	D1	E	F	C	n-ΦL
2"	50	203	254	152	120.6	89.0	66.3	16.0	2-Φ19.1
3"	80	229	301	195	157.0	125.5	103.1	19.1	4-Φ19.1
4"	100	229	355	232	190.5	152.9	124.5	19.1	4-Φ22.2
6"	150	292	448	282	241.3	206.2	177.8	19.1	6-Φ22.2
8"	200	318	548	340	298.0	260.9	232.4	22.2	6-Φ22.2
10"	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
14"	350	381	809	514.4	476.3	420.0	392.2	25.4	10-Φ22.5
16"	400	406	892	571.5	533.4	473.5	445.5	25.4	12-Φ22.5
18"	450	432	1036	629	590.5	526.8	499	26.5	12-Φ22.5

Threaded Joint Resilient NRS
Gate Valve (Z15X)



Z15X

- Connection Thread Standard: ASME B1.20.1
- Working Pressure: 250PSI
200PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536,65-45-12	
2	Resilient Wedge Disc	ASTM A536,65-45-12+EPDM	
3	Stem	Stainless Steel	AISI 304, AISI 316, AISI 420, AISI 431
4	Bonnet	ASTM A536,65-45-12	
5	Sealing Gasket	NBR	
6	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
7	Axis Guide	Brass HPb59-1	
8	Seal Ring	NBR	EPDM
9	O-Ring	NBR	EPDM
10	O-Ring	NBR	EPDM
11	Plug	Brass HPb59-1	Bronze ZQSn5-5-5
12	Handwheel	Carbon Steel	
13	Nut	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.

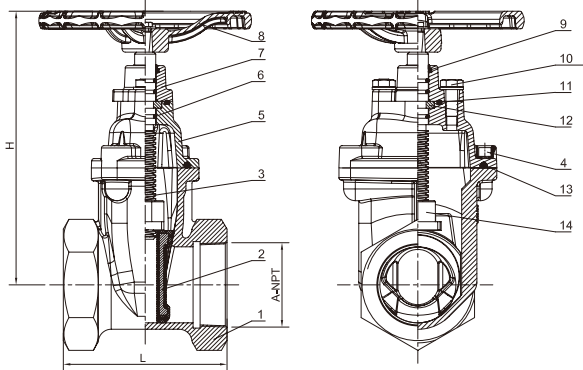
DN		Dimensions(mm)			
Inch	mm	L	H	D	B
1/2"	15	65	86	1/2-14NPT	27
3/4"	20	70	96	3/4-14NPT	35
1"	25	80	116	1-11.5NPT	41
1-1/4"	32	90	127	1 1/4-11.5NPT	51
1-1/2"	40	100	150	1 1/2-11.5NPT	58.5
2"	50	110	170	2-11.5NPT	72

Threaded Joint Resilient NRS
Gate Valve (Z15X)



Z15X

- Connection Ends: ANSI/ASME B1.20.1
- Working Pressure: 250PSI
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	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	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
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	Ring Wiper	NBR	EPDM
10	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
11	O-Ring	NBR	EPDM
12	Thrust Washer	Brass HPb59-1	
13	Bonnet Gasket	NBR	EPDM
14	Wedge Nut	Brass HPb59-1	

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

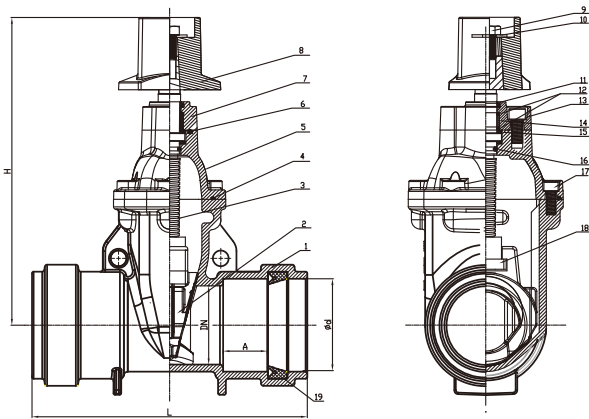
DN		Dimensions(mm)		
Inch	mm	L	H	A
2"	50	127	210	2-11.5NPT
2.5"	65	140	232	2 1/2-8NPT
3"	80	150	281	3-8NPT
4"	100	190	316	4-8NPT
5"	125	210	367	5-8NPT
6"	150	230	420	6-8NPT

Socket Resilient NRS Gate Valve (ZA5XC)



ZA5XC

- Standard: AWWA C515
- Socket Connection is Suitable for IPS PVC Pipes to ASTM D2672
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	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, Al-bronze
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	
9	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
10	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
11	Ring Wiper	EPDM	NBR
12	O-Ring	NBR	EPDM
13	Nut	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	Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
18	Wedge Nut	Brass HPb59-1	Bronze ZQSn5-5-5
19	Seal Ring	NBR	SBR, EPDM

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

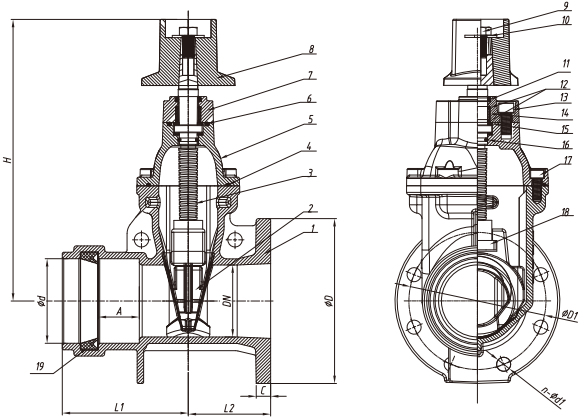
DN		PIPE DN	Dimensions(mm)			
Inch	mm	Average Outside Diameter, in.(mm)	L	H	A	d
2"	50	2.375 (60.32)	260	278	50	62
2.5"	65	2.875 (73.02)	273	300	53	75
3"	80	3.500 (88.90)	305	321	57	90.5
4"	100	4.500 (114.30)	350	375	57	117.5
6"	150	6.625 (168.28)	428	455	95	172.5
8"	200	8.625 (219.08)	470	565	118	222

Socket X Flanged Resilient NRS Gate Valve (ZB5XC)



ZB5XC

- Standard: AWWA C515
- Connection: Flange End to ASME B16.5, CI 125
Socket Connection is Suitable for IPS PVC Pipes to ASTM D2672
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request
- Applications: Potable Water,Water Distribution Service & Feed lines, Sewage Disposal,Irrigation and Fire Protection Pipe System etc.



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Valve Body	ASTM A536 65-45-12
2	Resilient Wedge Disc	ASTM A536 65-45-12+EPDM
3	Stem	ANSI420
4	Bonnet Gasket	EPDM
5	Bonnet	ASTM A536 65-45-12
6	O-Ring	NBR
7	Gland Flange	ASTM A536 65-45-12
8	Square Operating Nut	ASTM A536 65-45-12
9	Bolt	Carbon Steel Zinc Plated
10	Flat Washer	Carbon Steel Zinc Plated
11	Ring Wiper	EPDM
12	O-Ring	NBR
13	Bolt	Carbon Steel Zinc Plated
14	Axis Guide	BraANSI HPb59-1
15	Washer	BraANSI HPb59-1
16	O-Ring	NBR
17	Bolt	Carbon Steel Zinc Plated
18	Wedge Nut	BraANSI HPb59-1
19	Seal Ring	NBR

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

DN		PIPE DN	Dimensions(mm)								
Inch	mm	Average Outside Diameter, in.(mm)	L1	L2	H	A	d	D	D1	C	n-Ød1
2"	50	2.375 (60.32)	130	89	278	50	62	152	120.7	16	4-Ø19.1
2.5"	65	2.875 (73.02)	136.5	95	300	53	75	178	139.7	17.5	4-Ø19.1
3"	80	3.500 (88.90)	152.5	101.5	321	57	90.5	191	152.4	19.1	4-Ø19.1
4"	100	4.500 (114.30)	175.00	114.5	375	57	117.5	229	190.5	19.1	8-Ø19.1
6"	150	6.625 (168.28)	214	133.5	455	95	172.5	279	241.3	19.1	8-Ø22.2
8"	200	8.625 (219.08)	235	146	565	118	222	343	298.5	22.2	8-Ø22.2

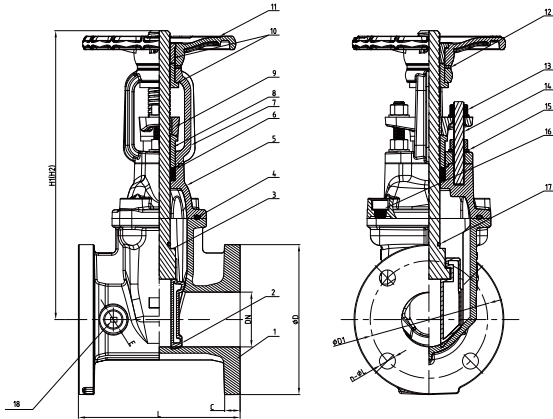
AWWA C515 Flanged Resilient OS&Y Gate Valve (XZ41X)



00C3073.7

XZ41X
NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	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, 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	Pressed Steel
12	Washer	Brass Hpb59-1	
13	Gland Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
14	Stud	Carbon Steel Zinc Plated	AISI 304, AISI 316
15	Flat Washer	Carbon Steel Zinc Plated	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"-24" with 1pc of 3/4" bronze NPT tapping plug.

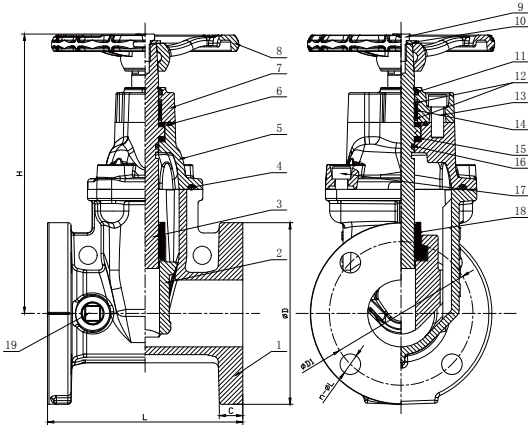
DN		Dimensions(mm)							Turns to Open Double-Lead thread	
Inch	mm	L	H1(Close)	H2(Open)	D	D1	C	n-ΦL		
2"	50	178	348	400	152	120.7	16	4-Φ19.1	6.5	6.5
2.5"	65	190	373	440	178	139.7	17.5	4-Φ19.1	7.5	7.5
3"	80	203	408	490	191	152.4	19.1	4-Φ19.1	8.8	8.8
4"	100	229	471	573	229	190.5	19.1	8-Φ19.1	10.5	10.5
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	13.3	13.3
8"	200	292	774	975	343	298.5	22.2	8-Φ22.2	17.7	17.7
10"	250	330	939	1193	406	362	23.8	12-Φ25.4	22.5	22.5
12"	300	356	1065	1370	483	431.8	25.4	12-Φ25.4	26	26
14"	350	381	1415	1780	528	476.3	25.4	12-Φ28.6	29.5	29.5
16"	400	406	1385	1790	592	539.8	25.4	16-Φ28.6	33.5	33.5
18"	450	432	1835	2290	635	577.9	25.4	16-Φ31.8	37.5	37.5
20"	500	457	1830	2380	710	635	28.6	20-Φ31.8	42	42
24"	600	508	2030	2830	836	749.3	30.1	20-Φ34.9	50	50

150 Pounds of Gate Valve (Z45XFF)



Z45XFF

- Design Standard: AWWA C515 / ASME B16.42 / ASME B16.10
- Connection Ends: ASME B16.42
- Working Pressure: 300PSI
- Temperature Range: 0°C- 80°C



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	Handwheel	ASTM A536, 65-45-12	
9	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
10	Flat Washer	Carbon Steel Zinc Plated	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	
19	Plug	ASTM B584-06a C89833	

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

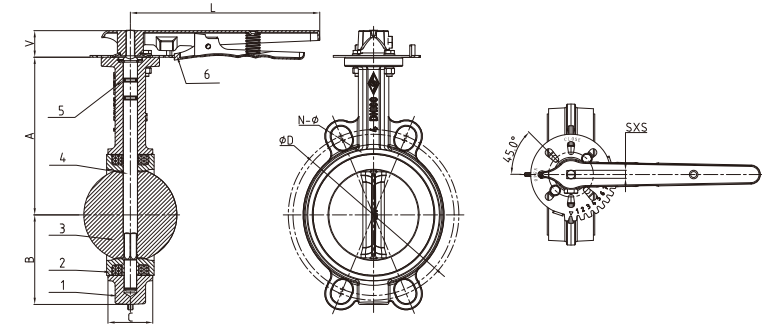
DN		Dimensions(mm)						
Inch	mm	L	H	D	D1	C	n-ΦL	d(Z45XRF)
2"	50	178	254	152	120.7	19	4-Φ19.1	92
2.5"	65	190	275	180	139.7	22.3	4-Φ19.1	105
3"	80	203	301	190	152.4	23.8	4-Φ19.1	140
4"	100	229	355	230	190.5	23.8	8-Φ19.1	157
5"	125	254	393	255	215.9	23.8	8-Φ22.2	186
6"	150	267	448	279	241.3	25.4	8-Φ22.2	216
8"	200	292	548	343	298.5	28.6	8-Φ22.2	270
10"	250	330	626	406	362	30.2	12-Φ25.4	324
12"	300	356	722	483	431.8	31.8	12-Φ25.4	381

MSS SP-67 Wafer Butterfly Valve
(D71XK)



D71XK

- Design Standard: MSS SP-67
- Face to Face dimension: ISO 5752 Series 20
- Top Flange Standard: ISO 5211
- Connection Ends: ASME B16.42 CL 150
- Working Pressure: 300PSI
175PSI, 200PSI and 250PSI available upon request
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	ASTM A536, 65-45-12	
2	Seat	EPDM	NBR, PTFE
3	Disc	ASTM A536, 65-45-12	AISI 304, AISI 316, ASTM B148 C95400
4	Stem	AISI 420	AISI 304, AISI 316, AISI 431
5	O-Ring	NBR	EPDM
6	Lever	Carbon Steel	

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

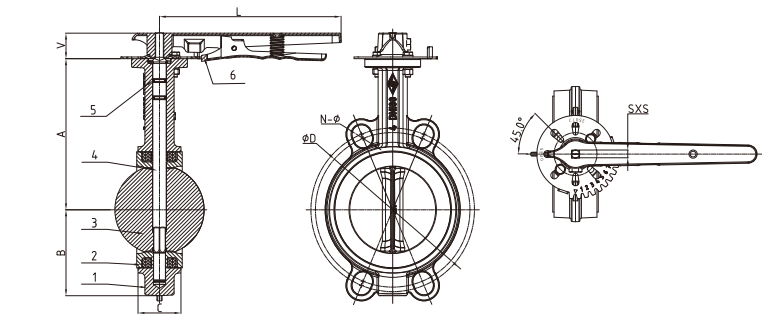
DN		Dimensions(mm)								
Inch	mm	A	B	C	D	V	N-Ø	SXS	L	ISO5211
1.5"	40	138	64.5	33	98.4	30	4-φ 15.9	9X9	212	F05
2"	50	140.5	64.5	43	120.7	30	4-φ 19.1	9X9	212	F05
2.5"	65	153	72	46	139.7	30	4-φ 19.1	9X9	212	F05
3"	80	172	86	46	152.4	30	4-φ 19.1	9X9	212	F05
4"	100	176	100	52	190.5	30	8-φ 19.1	9X9	212	F05
5"	125	191	112	56	215.9	30	8-φ 22.2	14X14	256	F07
6"	150	202.5	128	56	241.3	30	8-φ 22.2	14X14	256	F07
8"	200	243.5	164	60	298.5	39	8-φ 22.2	17X17	373	F10
10"	250	273	194	68	362	39	12-φ 25.4	22X22	373	F10
12"	300	311	223	78	431.8	39	12-φ 25.4	22X22	373	F10

MSS SP-67 Wafer Butterfly Valve
With Long Neck (D71XKL)



D71XKL

- Design Standard: MSS SP-67
- Face to Face dimension: ISO 5752 Series 20
- Top Flange Standard: ISO 5211
- Connection Ends: ASME B16.42 CL 150
- Working Pressure: 300PSI
175PSI, 200PSI and 250PSI available upon request
- 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	Seat	EPDM	NBR, PTFE
3	Disc	ASTM A536, 65-45-12	AISI 304, AISI 316, ASTM B148 C95400
4	Stem	AISI 420	AISI 304, AISI 316, AISI 431
5	O-Ring	NBR	EPDM
6	Lever	Carbon Steel	

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	V	N-Ø	SXS	L	ISO5211
1.5"	40	150	64.5	33	98.4	30	4-φ 15.9	9X9	212	F05
2"	50	161	64.5	43	120.7	30	4-φ 19.1	9X9	212	F05
2.5"	65	175	72	46	139.7	30	4-φ 19.1	9X9	212	F05
3"	80	181	86	46	152.4	30	4-φ 19.1	9X9	212	F05
4"	100	200	100	52	190.5	30	8-φ 19.1	9X9	212	F05
5"	125	213	112	56	215.9	30	8-φ 22.2	14X14	256	F07
6"	150	226	128	56	241.3	30	8-φ 22.2	14X14	256	F07
8"	200	260	164	60	298.5	39	8-φ 22.2	17X17	373	F10
10"	250	292	194	68	362	39	12-φ 25.4	22X22	373	F10
12"	300	337	223	78	431.8	39	12-φ 25.4	22X22	373	F10

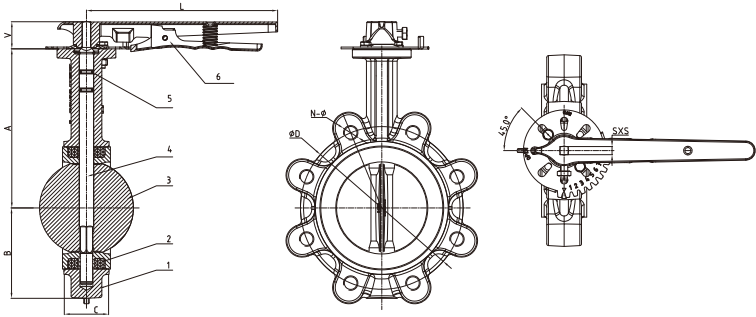
MSS SP-67 Lugged Wafer
Butterfly Valve (D71XLK)



D71XLK

- Design Standard: MSS SP-67
- Connection Ends: ASME B16.42 CL 150
- Working Pressure: 300PSI
175PSI, 200PSI and 250PSI available upon request
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with
ANSI/AWWA C550

DN		Dimensions(mm)								
Inch	mm	A	B	C	D	V	N-Ø	SXS	L	ISO5211
1.5"	40	138	64.5	33	98.4	30	4-1/2	9X9	212	F05
2"	50	140.5	64.5	43	120.7	30	4-5/8	9X9	212	F05
2.5"	65	153	72	46	139.7	30	4-5/8	9X9	212	F05
3"	80	157.5	86	46	152.4	30	4-5/8	9X9	212	F05
4"	100	176	100	52	190.5	30	8-5/8	9X9	212	F05
5"	125	191	112	56	215.9	30	8-3/4	14X14	256	F07
6"	150	202.5	128	56	241.3	30	8-3/4	14X14	256	F07
8"	200	243.5	162	60	298.5	39	8-3/4	17X17	373	F10
10"	250	273	194	68	362	39	12-7/8	22X22	373	F10
12"	300	311	223	78	431.8	39	12-7/8	22X22	373	F10



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	ASTM A536, 65-45-12	
2	Seat	EPDM	NBR, PTFE
3	Disc	ASTM A536, 65-45-12	AISI 304, AISI 316, ASTM B148 C95400
4	Stem	AISI 420	AISI 304, AISI 316, AISI 431
5	O-Ring	NBR	EPDM
6	Lever	Carbon Steel	

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

MSS SP-67 Wafer Butterfly Valve
(D71X4, D371X4)

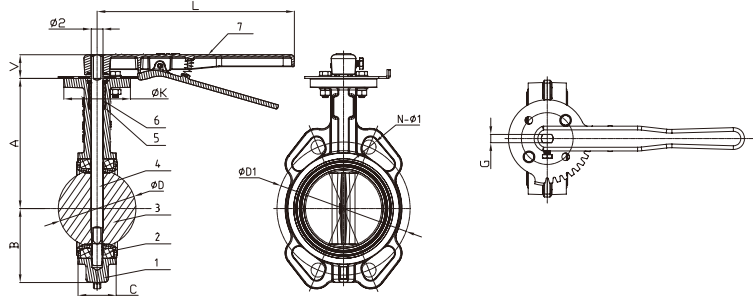


D71X4

NSF/ANSI 61 NSF/ANSI 372

Rubber Seat with Backing
Cartridge Style

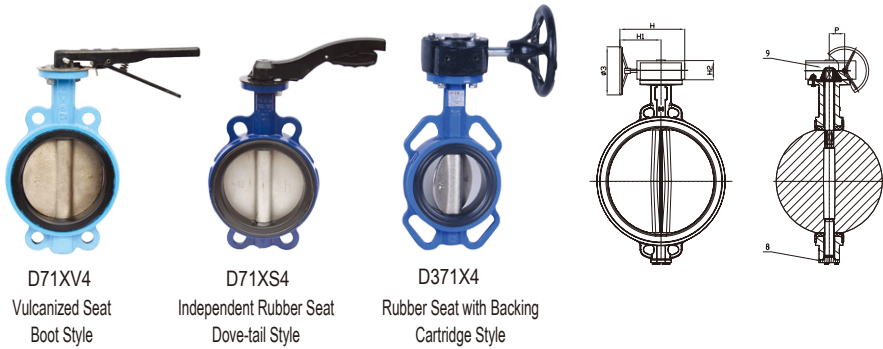
- Design Standard: MSS SP-67
- Connection Ends: ASME B16.1 CL 125, ASME B16.5 CL 150
- Top Flange Standard: ISO 5211
Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: 300PSI
175PSI, 200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with
ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	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
8	Shaft Cover (DN400~800)	ASTM A536, 65-45-12	
9	Gear Box	ASTM A536, 65-45-12	

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	Ø3	H	H1	H2	P	
1.5"	40	138	64.5	32	33	43.9	14	90	9.45	267	98.5	4-Ø15.9	F07	150	206	158	52	43.5	
2"	50	140.5	64.5	32	43	53.9	14	90	9.53	267	120.7	4-Ø19.1	F07	150	206	158	52	43.5	
2.5"	65	153	72	32	46	65.2	14	90	9.53	267	139.7	4-Ø19.1	F07	150	206	158	52	43.5	
3"	80	157.5	86	32	46	79.7	14	90	9.53	267	152.4	4-Ø19.1	F07	150	206	158	52	43.5	
4"	100	176	100	32	52	105	16	90	11.14	267	190.5	8-Ø19.1	F07	150	206	158	52	43.5	
5"	125	191	112	32	56	130	16	90	11.14	267	215.9	8-Ø22.2	F07	150	206	158	52	43.5	
6"	150	202.5	128	32	56	156	20	90	12.7	267	241.3	8-Ø22.2	F07	150	206	158	52	43.5	
8"	200	243.5	162	45	60	206.7	26	125	20.6	356	298.5	8-Ø22.2	F10	300	310	239	69	62.5	
10"	250	273	194	45	68	253.3	26	125	20.6	490	362	12-Ø25.4	F10	300	310	239	69	62.5	
12"	300	311	223	45	78	301.9	28	125	22.1	490	431.8	12-Ø25.4	F10	300	307	229	73	77.5	
14"	350	340	267	48	78	333.9	31.6	150	22.1	-	476.3	12-Ø25.4	F12	300	307	229	73	77.5	
16"	400	400	319.5	48	102	389.6	33.2	175	27	-	539.8	16-Ø25.4	F14	380	418	288	110	120	
18"	450	422	345.4	48	114	441	38.1	175	27	-	577.9	16-Ø28.6	F14	380	418	288	110	120	
20"	500	480	380	70.2	127	492.4	41.2	210	-	-	635	20-Ø28.6	F16	380	465	215	123	185	
24"	600	562	441	70.2	154	592.8	50.6	210	-	-	749.3	20-Ø31.8	F16	380	500	215	129	185	
28"	700	575	505	70.2	165	695	63.4	300	-	-	864	28-Ø35.1	F25	380	543	213	132	218	
30"	750	660	550	70.2	165	744	63.4	300	-	-	914.4	28-Ø31.8	F25	380	543	213	132	218	
32"	800	667	577	70.2	190	795.7	63.4	300	-	-	977.9	28-Ø41.4	F25	380	543	213	132	218	

MSS SP-67 Lugged Wafer Butterfly Valve (D71XLV4, D371XLV4)

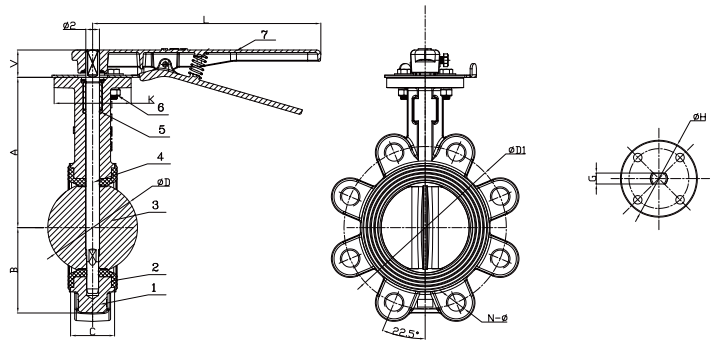
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D71XLV4

NSF/ANSI 61 NSF/ANSI 372

- Design Standard: MSS SP-67
- Connection Ends: ASME B16.42 CL 150
- 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: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



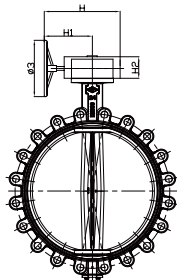
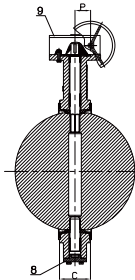
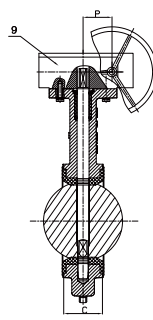
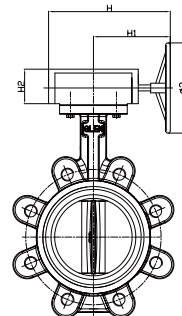
MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Seat	EPDM Vulcanized on Valve Body	EPDM/NBR Vulcanized on Valve Body; Soft Seat in EPDM/NBR;
3	Disc	ASTM A536, 65-45-12	AISI 304, AISI 316, AL-Bronze UNC 95400
4	Stem	DN50~350: AISI 420, One-Piece Stem Design DN400~800: AISI 431, Two-Piece Stem Design	AISI 304, AISI 316, AISI 416, AISI 431
5	O-Ring	NBR	EPDM
6	Bushing	DN40~DN350: Nylon 1010 DN400~DN800: Lubricating Bronze	PTFE
7	Lever	ASTM A536, 65-45-12	Aluminum
8	Shaft Cover	ASTM A536, 65-45-12	
9	Gear	ASTM A536, 65-45-12	

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



D371XLV4



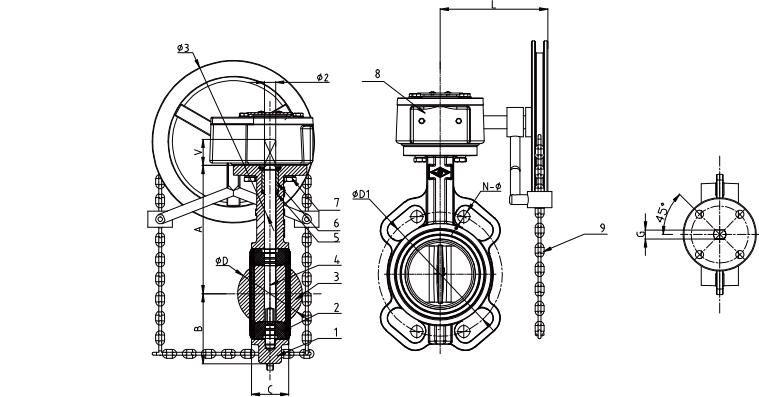
DN		Dimensions(mm)																
Inch	mm	A	B	V	C	ØD	Ø2	ØK	G	L	ØD1	N-M	ISO5211	Ø3	H	H1	H2	P
2"	50	140.5	64.5	32	43	53.9	14	90	9.53	267	120.7	4-5/8	F07	150	206	158	52	43.5
2.5"	65	153	72	32	46	65.2	14	90	9.53	267	139.7	4-5/8	F07	150	206	158	52	43.5
3"	80	157.5	86	32	46	79.7	14	90	9.53	267	152.4	4-5/8	F07	150	206	158	52	43.5
4"	100	176	100	32	52	105	16	90	11.14	267	190.5	8-5/8	F07	150	206	158	52	43.5
5"	125	191	112	32	56	130	16	90	11.14	267	215.9	8-3/4	F07	150	206	158	52	43.5
6"	150	202.5	128	32	56	155.8	20	90	12.7	267	241.3	8-3/4	F07	150	206	158	52	43.5
8"	200	243.5	162	45	60	206.7	26	125	20.6	355.6	298.5	8-3/4	F10	300	310	239	69	62.5
10"	250	273	194	45	68	253.3	26	125	20.6	355.6	362	12-7/8	F10	300	310	239	69	62.5
12"	300	311	223	45	78	301.9	28	125	22.1	490	431.8	12-7/8	F10	300	307	229	73	77.5
14"	350	340	267	48	78	333.9	31.6	150	22.1	-	476.3	12-1	F12	300	307	229	73	77.5
16"	400	400	319.5	48	102	389.6	33.2	175	27	-	539.8	16-1	F14	380	418	288	110	120
18"	450	422	345.4	48	114	441	38.1	175	27	-	577.9	16-1 1/8	F14	380	418	288	110	120
20"	500	480	380	70.2	127	492.4	41.2	210	-	-	635	20-1 1/8	F16	380	465	215	123	185
24"	600	562	441	70.2	154	592.8	50.6	210	-	-	749.3	20-1 1/4	F16	380	500	215	129	185

MSS SP-67 Wafer Butterfly Valve
with Sprocket Gearbox (D371X205)



D371X205

- Design Standard: MSS SP-67
- Face to Face dimension: ISO 5752 Series 20
- Top Flange Standard: ISO 5211
- Connection Ends: ASME B16.1 CL 125, ASME B16.5 CL 150
- Working Pressure: 300PSI,
- Working Temperature: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	BODY	ASTM A536, 65-45-12	
2	O-Ring	NBR	EPDM
3	Disc	ASTM A536, 65-45-12	AISI 304/316, C95400
4	Drive Shaft	DN50-DN350: 420 DN400-DN600: 431	AISI 304, AISI 316, AISI 431
5	O-Ring	NBR	EPDM
6	Bushing	DN50-DN350: nylon DN400-DN600: ZCuZn38Mn2Pb2	PTFE
7	Hex Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
8	Gearbox	Body:ASTM A536, 65-45-12, With Carbon Parts	Signal, with AISI 304parts
9	Iron Chain	Carbon Steel Zinc Plated	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	A	B	C	φ D	φ D1	N-Ø	φ 2	V	G	ISO 5211	L	φ 3
2"	50	140.5	64.5	43	53.9	120.7	4- φ 19	14	32	9.53	F05	132	200
2.5"	65	153	72	46	65.2	139.7	4- φ 19	14	32	9.53	F05	132	200
3"	80	157.5	86	46	79.7	152.4	4- φ 19	14	32	9.53	F05	132	200
4"	100	176	100	52	105	190.5	8- φ 19	16	32	11.4	F05	132	200
5"	125	191	112	56	130	215.9	8- φ 23	16	32	11.4	F07	132	200
6"	150	202.5	128	56	156	241.3	8- φ 23	20	32	12.7	F07	132	200
8"	200	243.5	162	60	206.7	298.5	8- φ 23	26	45	20.6	F10	225	290
10"	250	273	194	68	253.3	362	12- φ 25	26	45	20.6	F10	225	290
12"	300	311	223	78	301.9	431.8	12- φ 25	28	45	22.1	F10	215	290
14"	350	340	267	78	333.9	476.3	12- φ 28.5	31.6	48	22.1	F12	215	290
16"	400	400	320	102	389.6	539.8	16- φ 28.5	33.2	48	27	F14	270	410
18"	450	422	345	114	441	577.9	16- φ 32	38.1	48	27	F14	270	410
20"	500	480	380	127	492.4	635	20- φ 32	41.2	70.2	-	F16	318	410
24"	600	562	441	154	592.8	749.3	20- φ 35	50.6	70.2	-	F16	333	410

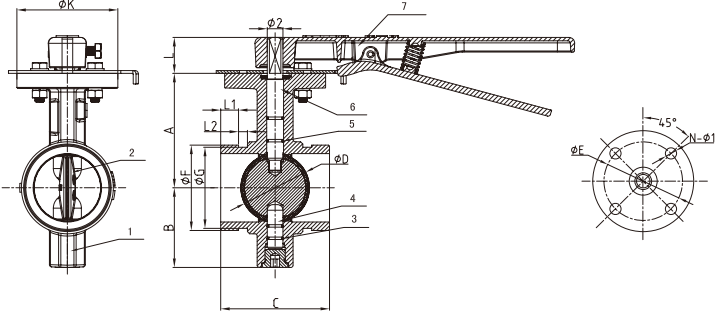
Grooved Butterfly Valve
(D81X4, D381X4)



D81X4

NSF/ANSI 61 NSF/ANSI 372

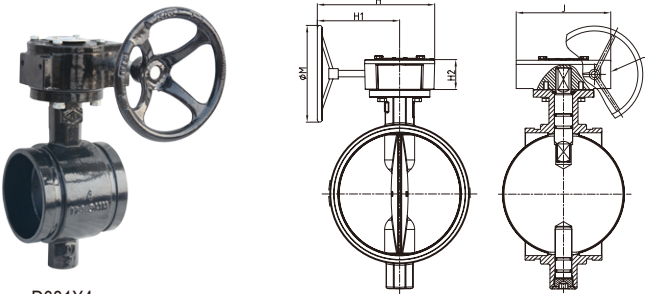
- Design Standard: MSS SP-67
- Connection Ends: Groove to AWWA C606
- Top Flange Standard: ISO 5211
Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: 300PSI
175PSI, 200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	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	Gear Box	ASTM A536, 65-45-12	

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



D381X4

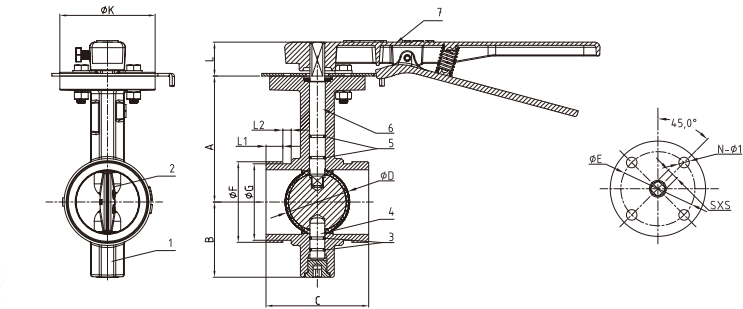
DN		Dimensions(mm)																	
Inch	mm	A	B	C	ΦF	ΦG	L1	L2	L	ΦK	H	H1	H2	J	ΦM	Φ2	ISO 5211	ΦE	N-Φ1
2"	50	89	65	81	60.3	57.15	15.88	7.93	32	90	206	158	52	114	150	14	F07	70	4-Φ10
2.5"	65	102	71	97	73.0	69.09	15.88	7.93	32	90	206	158	52	114	150	14	F07	70	4-Φ10
3"	80	109	81	97	88.9	84.94	15.88	7.93	32	90	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.

Grooved Butterfly Valve
(D81X4-BL, D381X4-BL)

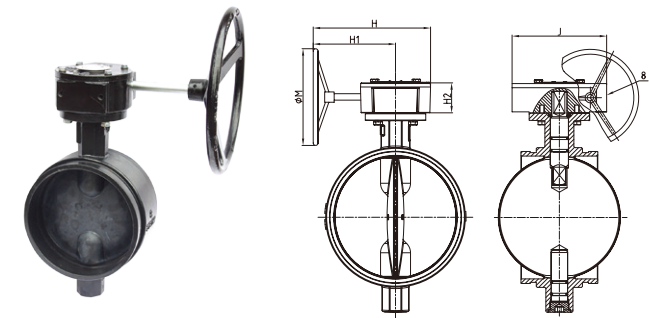


- D81X4-BL
- Design Standard: MSS SP-67
 - Connection Ends: Groove to AWWA C606
 - Top Flange Standard: ISO 5211
Stem drive by keys, parallel or diagonal square or flat head
 - Working Pressure: 300PSI
175PSI, 200PSI and 250PSI available upon request
 - Temperature Range: 0°C- 80°C
 - Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION			
Part No.	Part	Standard Specification	Options
1	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	Gear Box	ASTM A536, 65-45-12	

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



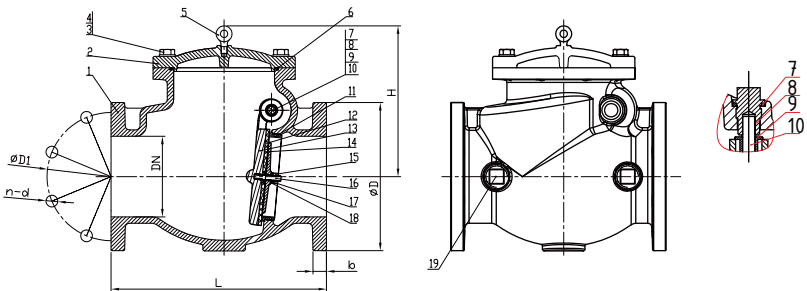
DN		Dimensions(mm)																	
Inch	mm	A	B	C	ΦF	ΦG	L1	L2	L	ΦK	H	H1	H2	J	ΦM	SXS	ISO 5211	ΦE	N-Φ1
2"	50	100	65	81	60.3	57.15	15.88	7.93	32	90	206	158	52	114	150	11X11	F07	70	4-Φ10
2.5"	65	115	71	97	73.0	69.09	15.88	7.93	32	90	206	158	52	114	150	11X11	F07	70	4-Φ10
3"	80	113	81	97	88.9	84.94	15.88	7.93	32	90	206	158	52	114	150	11X11	F07	70	4-Φ10
4"	100	145	95	116	114.3	110.08	15.88	9.53	32	90	206	158	52	114	150	14X14	F07	70	4-Φ10
5"	125	141	111	148	141.3	137.03	15.88	9.53	32	90	206	158	52	114	150	14X14	F07	70	4-Φ10
6"	150	177	133	148	168.3	163.96	15.88	9.53	32	90	206	158	52	114	150	17X17	F07	70	4-Φ10
8"	200	200	164	133	219.1	214.4	19.05	11.10	45	125	310	239	69	167	300	17X17	F10	102	4-Φ12
10"	250	280	196	159	273.0	268.28	19.05	12.70	45	125	310	239	69	167	300	22X22	F10	102	4-Φ12
12"	300	300	226	165	323.9	318.29	19.05	12.70	45	125	307	229	73	190	300	22X22	F10	102	4-Φ12

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

AWWA C508 Swing Check Valve
(H44X2/H44T2)



- H44X2
- NSF/ANSI 61 NSF/ANSI 372
- Connection Ends: Flange to ASME B16.1 CL 125
 - Working Pressure: 300PSI
200PSI and 250PSI available upon request
 - Temperature Range: Rubber Seal: 0°C- 80°C,
Metal Seal: -10°C- 200°C
 - Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



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.

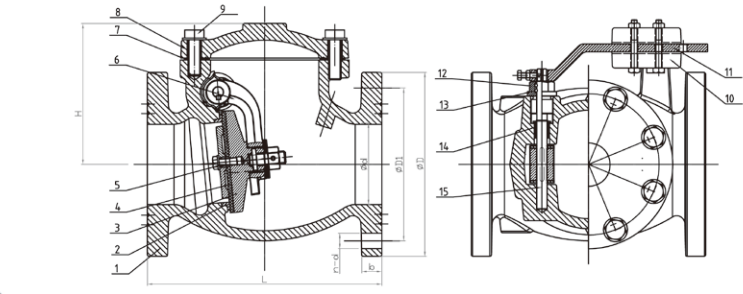
Swing Check Valve with Weight & Lever
(H44XW)



H44XW

NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	ASTM A536, 65-45-12	Cast Iron A126 CL B
2	Seat Ring	Bronze ASTM B62 (Pressed Fit)	AISI 304, AISI 316 Pressed Fit or Threaded
3	Disc	ASTM A536, 65-45-12	
4	Disc Sealing Ring	EPDM	AISI 304, AISI 316, Bronze ASTM B62
5	Bolt	AISI 304	AISI 316
6	Clapper Arm	ASTM A536, 65-45-12	
7	Bonnet Gasket	EPDM	
8	Bonnet	Cast Iron A126 CL B	ASTM A536, 65-45-12
9	Bolt	Carbon Steel Zinc Plated	AISI 316
10	Weight	Cast Iron A126 CL B	ASTM A536, 65-45-12
11	Lever	Carbon Steel Zinc Plated	
12	Nut	Brass ASTM B36	
13	O-Ring	NBR	EPDM
14	Hinge Bushing	Brass ASTM B36	
15	Hinge Pin	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
		Standard	Optional					
2"	50	203	203	152	120.5	16.5	4-Φ19.1	145
2.5"	65	216	254	178	139.5	19	4-Φ19.1	157
3"	80	241	278	191	152.5	19	4-Φ19.1	173
4"	100	292	330	229	190.5	24	8-Φ19.1	176
6"	150	356	406	279	241.5	25.5	8-Φ22.2	238
8"	200	495	495	343	298.5	28.5	8-Φ22.2	273
10"	250	622	622	406	362	30.5	12-Φ25.4	329
12"	300	698	660	483	432	32	12-Φ25.4	358
14"	350	787	—	533	476	35	12-Φ28.5	470
16"	400	914	—	597	540	36.5	16-Φ28.5	535

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

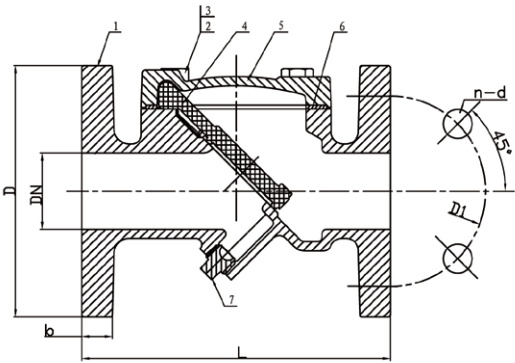
Rubber Disc Swing Check Valve
(H44J)



H44J

NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
3	Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
4	Disc	Carbon Steel+EPDM	Carbon Steel+NBR
5	Bonnet	ASTM A536, 65-45-12	
6	Bonnet Gasket	EPDM	
7	Plug	Malleable Iron Galvanized	Bronze ASTM B584

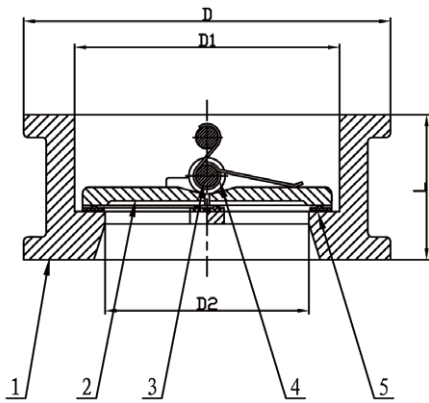
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)				
Inch	mm	L	D	D1	b	n-Φd
2"	50	203	152	120.5	16	4-Φ19.1
2.5"	65	216	178	139.5	17.5	4-Φ19.1
3"	80	241	191	152.5	19	4-Φ19.1
4"	100	292	229	190.5	24	8-Φ19.1
5"	125	330	254	216	24	8-Φ22.2
6"	150	356	279	241.5	25.5	8-Φ22.2
8"	200	495	343	298.5	28.5	8-Φ22.2
10"	250	622	406	362	30.5	12-Φ25.4
12"	300	698	483	432	32	12-Φ25.4

Double Door Wafer Check Valve
(DH77X)



OC2700.7CL



DH77X



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: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	ASTM A536, 65-45-12	
2	Disc	ASTM A536, 65-45-12	AISI 304, AISI 316, 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.

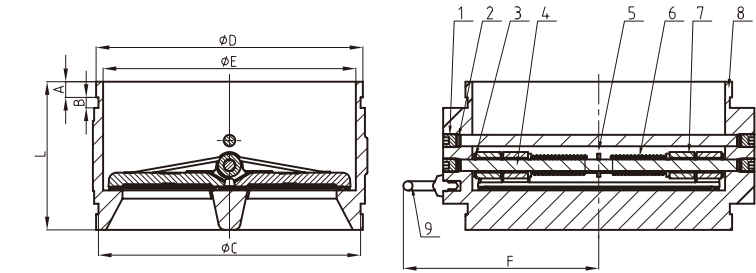
DN		Dimensions(mm)			
Inch	mm	L	D	D1	D2
2"	50	54	102	64	46
2.5"	65	54	121	78	60
3"	80	57	134	94	70
4"	100	64	162	117	84
5"	125	70	192	145	115
6"	150	76	217	170	134
8"	200	95	273	224	184
10"	250	108	328	265	220
12"	300	143	407	310	260
14"	350	184	449	360	302
16"	400	192	511	410	350
18"	450	203	544	450	385

Double Door Grooved Check Valve
(DH87X)



DH87X

- Connection Ends: Groove to AWWA C606
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

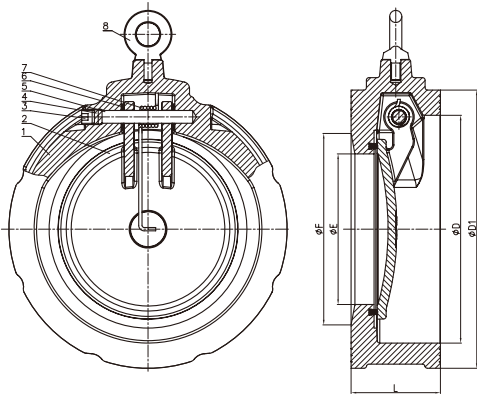


Single Door Wafer Check Valve
(DH74X)



DH74X

- Connection Ends: ASME B16.1 CL 125, ASME B16.5 CL 150
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	ASTM A536, 65-45-12	
2	Disc	AISI 304	AISI 316, AL-Bronze UNC 95400
3	Screw	Carbon Steel	AISI 304, AISI 316
4	Gasket	EPDM	NBR
5	Stem	AISI 420	AISI 304, AISI 316, AISI 416
6	Gasket	PTFE	
7	Spring	AISI 304	AISI 316
8	Lifting Hook	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	L	D	E	F	D1
2"	50	44.5	64	33	60	107
2.5"	65	48.0	79	42.9	73	127
3"	80	51.0	94	52.4	83.5	142
4"	100	57.0	118	76	106	162
5"	125	63.5	147	95	128	192
6"	150	70.0	178.5	118	150	218
8"	200	73.0	235	163.5	200	273
10"	250	79.0	281	194	238	329
12"	300	86.0	335	241.5	287	384

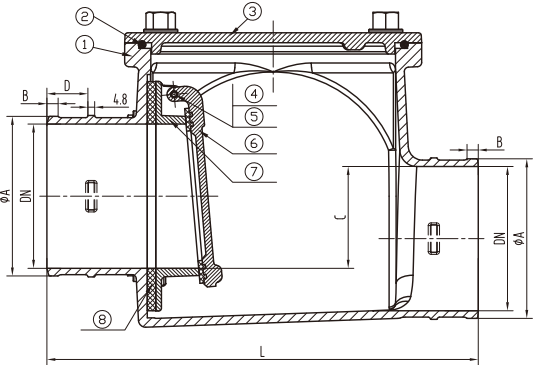
Backwater Valve
(HSB4X)



HSB4X



- Connection Ends: ASTM A888
- Working Pressure: 175PSI
- Temperature Range: 0°C - 80°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.

MSS SP-126 Silent
Check Valve (HC41X)

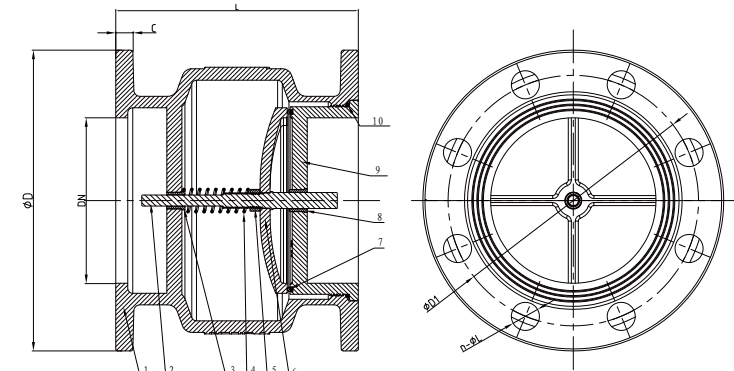


OC2700.7CL

HC41X

NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	ASTM A536, 65-45-12	
2	Stem	AISI 420	AISI 304, AISI 316, AISI 431
3	Hinge Bushing	ASTM B62	
4	Spring	AISI 304	AISI 316
5	Nut	AISI 304	AISI 316
6	Disc	ASTM A536, 65-45-12 Bronze Plated	
7	O-Ring	EPDM	NBR
8	Hinge Bushing	ASTM B62	
9	Seat	ASTM A536, 65-45-12 Bronze Plated	
10	O-Ring	NBR	EPDM

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	C	n-ΦL
2"	50	120	152	120.5	16	4-Φ19.1
2.5"	65	135	178	139.5	17.5	4-Φ19.1
3"	80	155	191	152.5	19	4-Φ19.1
4"	100	165	229	190.5	24	8-Φ19.1
5"	125	190	254	216	24	8-Φ22.2
6"	150	210	279	241.5	25.5	8-Φ22.2
8"	200	260	343	298.5	28.5	8-Φ22.2
10"	250	285	406	362	30.5	12-Φ25.4
12"	300	315	483	432	32	12-Φ25.4

Flanged Y-Type Strainer
(V4)

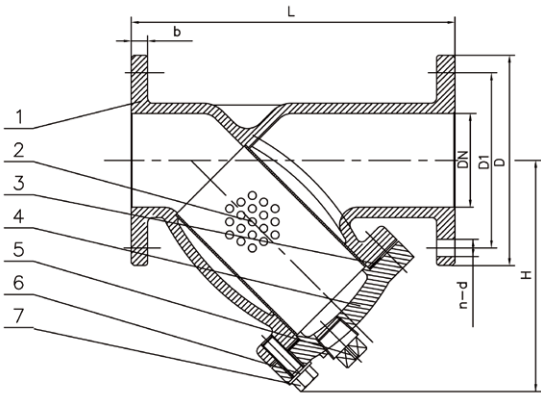


OE3072.7

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: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	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	16	4-Φ19.1	155
2.5"	65	254	178	139.5	17.5	4-Φ19.1	165
3"	80	257	191	152.5	19	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

Threaded Y-Type Strainer
(V1)

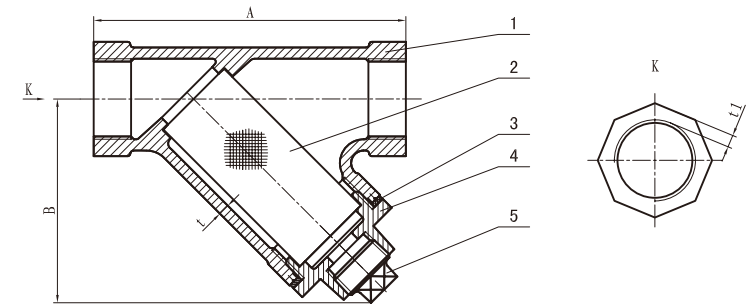


OE3072.7

V1

NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: Thread to ANSI/ASME B1.20.1
- Working Pressure: 500PSI
- Coating: Painting



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Body	ASTM A536, 65-45-12	
2	Screen	AISI 304	AISI 316
3	Sealing Washer	Graphite + Acanthopore Plate	PTFE
4	Cover	ASTM A536, 65-45-12	
5	Plug	Malleable Iron Galvanized	

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

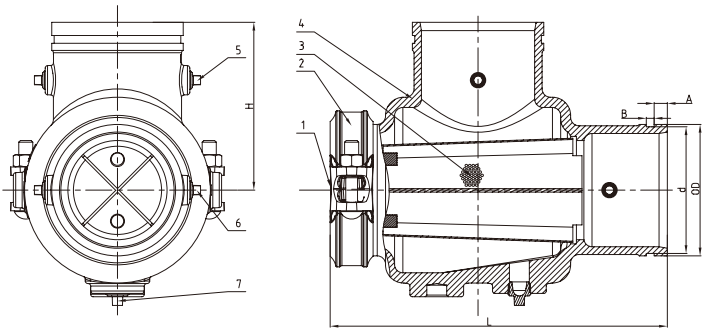
DN		Dimensions(mm)				
Inch	mm	A	B(max)	Plug	t	t1
1/4"	8	81	55	1/4"	2.4	2.4
3/8"	10	81	57	1/4"	2.5	2.5
1/2"	15	81	70	3/8"	2.54	2.54
3/4"	20	95	72	3/8"	3	3
1"	25	102	78	1/2"	4.06	4.06
1 1/4"	32	127	92	1/2"	4.83	4.83
1 1/2"	40	146	118	1/2"	4.83	4.83
2"	50	177	120	1/2"	5.59	5.59
2 1/2"	65	234	136	3/4"	5.59	5.59
3"	80	254	150	3/4"	5.59	5.59

Grooved Diversion Strainer
(V8D)



V8D

- Connection Ends: Groove to AWWA C606
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Cap	ASTM A536, 65-45-12
2	Coupling	ASTM A536, 65-45-12
3	Screen	AISI 304
4	Body	ASTM A536, 65-45-12
5	Plug	Malleable Iron Galvanized
6	Plug	Malleable Iron Galvanized
7	Plug	Malleable Iron Galvanized

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

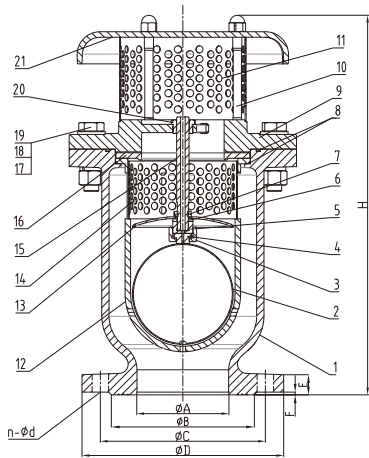
DN		Dimensions(mm)					
Inch	mm	L	H	OD	d	A	B
8"	200	483	229	219	214.4	19.1	12.7
10"	250	584	279	273	268.3	19.1	12.7
12"	300	679	336	324	318.3	19.1	12.7
14"	350	726	365	377	371.1	23.8	12.7

Compound High Speed
Air Bleeding Valve
(ZFGP4X)



ZFGP4X

- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C - 55°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	Ball	AISI 304	
3	Nut	Brass HPb59-1	
4	Gasket	EPDM	
5	Nut	Brass HPb59-1	
6	Rubber Pad	EPDM	
7	Nut	AISI 304	AISI 316
8	O-Ring	NBR	
9	Bonnet	ASTM A536, 65-45-12	
10	Screw	AISI 304	
11	Protective Shield	AISI 304	
12	Floating Ball Cap	ASTM A536, 65-45-12	
13	Lift Cover	AISI 304	
14	Floating Ball Cover Net	AISI 304	
15	Stem	AISI 304/ H62	
16	Gasket	EPDM	
17	Hex Nut	Carbon Steel Zinc Plated	AISI 304, AISI316
18	Washer	Carbon Steel Zinc Plated	AISI 304, AISI316
19	Hex Bolt	Carbon Steel Zinc Plated	AISI 304, AISI316
20	Guide Sleeve	H62	
21	Draft Hood	ASTM A536, 65-45-12	

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

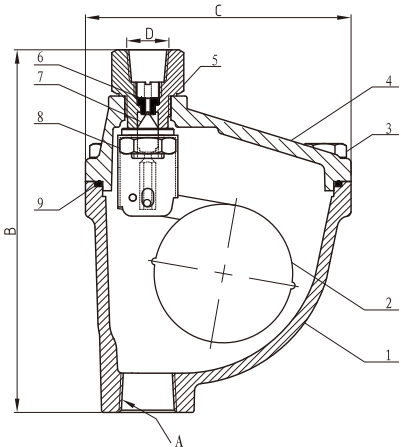
DN		Dimensions(mm)							
Inch	mm	A	B	C	D	n-φd	E	F	H
2"	50	50	99	125	165	4-φ19	19	3	320
2.5"	65	65	118	145	185	4-φ19	19	3	320
3"	80	80	132	160	200	8-φ19	19	3	336
4"	100	100	156	180	220	8-φ19	19	3	415
6"	150	150	211	240	285	8-φ23	19	3	540
8"	200	200	266	295	340	8-φ23	20	3	660

Micro Air Bleeding Valve
(ARVX)



ARVX

- Connection Ends: ASME B1.20.1
- Working pressure: 300PSI
- Temperature Range: 0°C - 55°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



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.

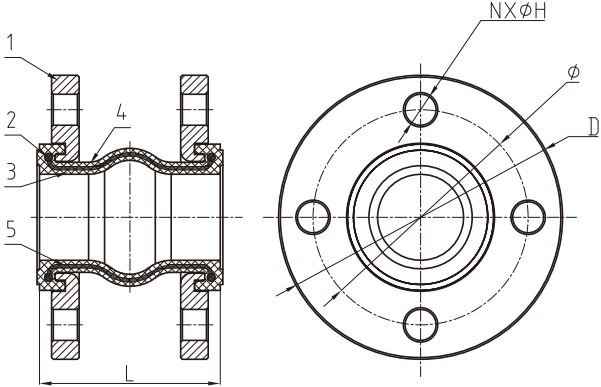
DN		Dimensions(mm)			
Inch	mm	A	B	C	D
1/2"	15	1/2-14NPT	157	115	3/8-18NPT
3/4"	20	3/4-14NPT	157	115	3/8-18NPT
1"	25	1-11.5NPT	157	115	3/8-18NPT
1 1/4"	32	1-1/4-11.5NPT	157	115	3/8-18NPT
1 1/2"	40	1-1/2-11.5NPT	157	115	3/8-18NPT

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: 0°C - 80°C
- Vacuum Capacity: 700MM/HG

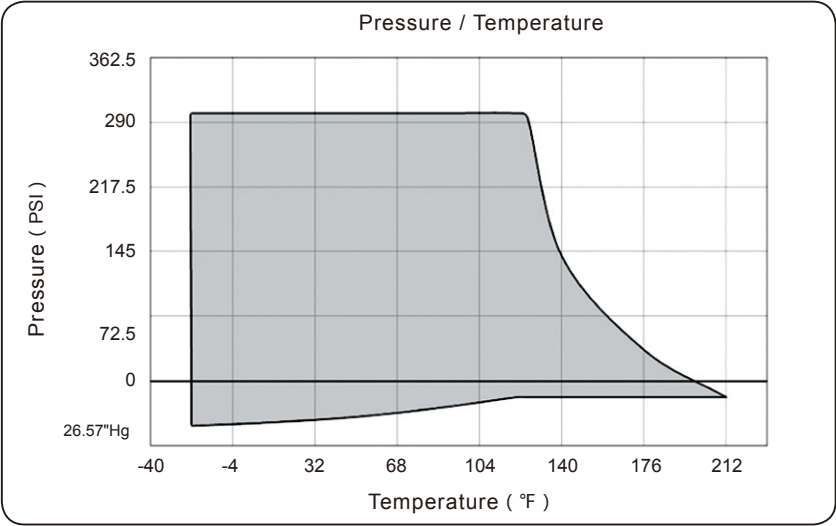


MATERIAL SPECIFICATION

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

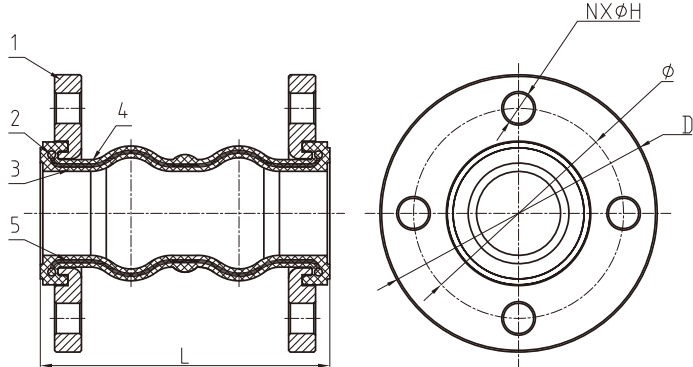


Flexible Rubber Joint Twin Sphere
Electroplated Carbon Steel Flange
Connection (XTQ2RF)



XTQ2RF

- Connection Ends: Flange Drilling to ASME B16.5 CL150
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C - 80°C
- Vacuum Capacity: 650MM/HG

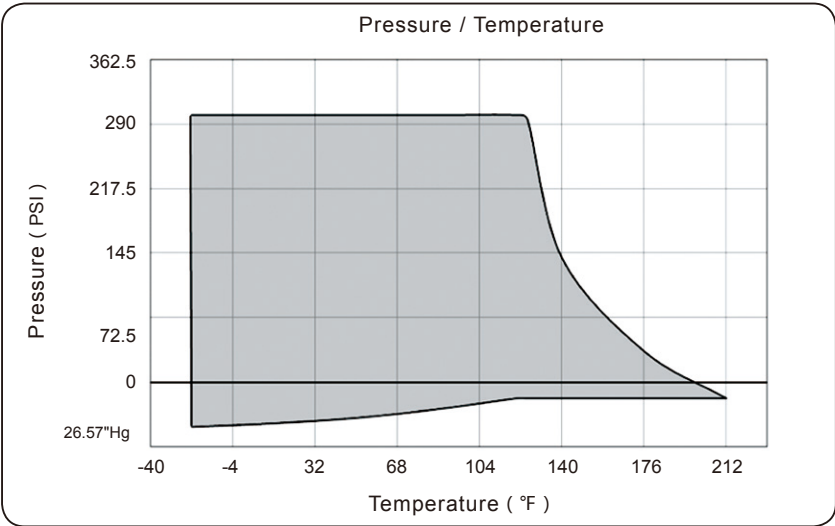


MATERIAL SPECIFICATION

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

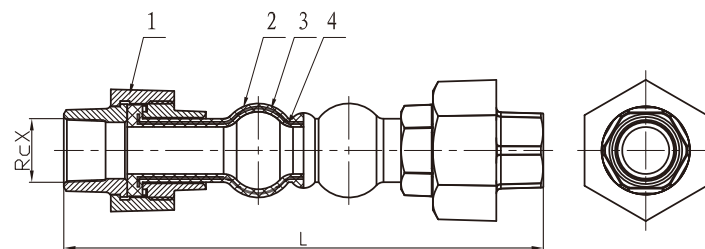


Flexible Rubber Joint Twin Sphere Union-Screw End Connection(XTQ2L)



XTQ2L

- Thread: ASME B1.20.1
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C - 80°C
- Vacuum Capacity: 500MM/HG

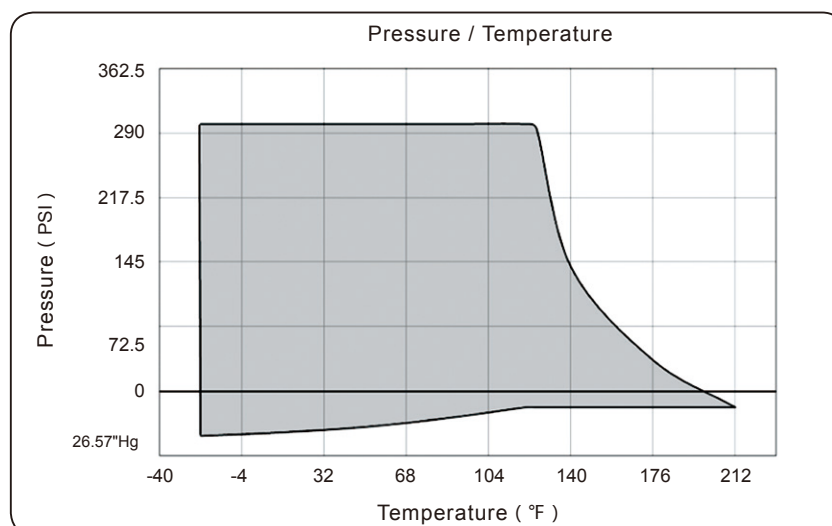


MATERIAL SPECIFICATION

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



Hydraulic Control Valve

• Statement

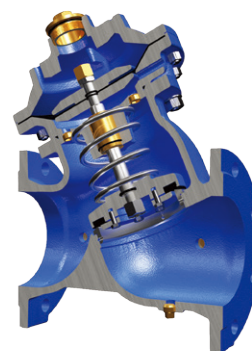
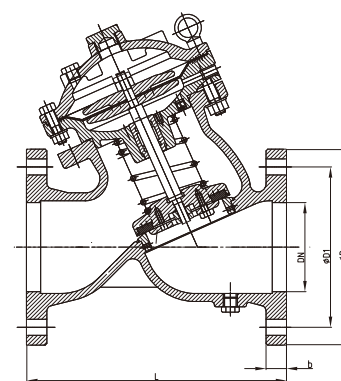
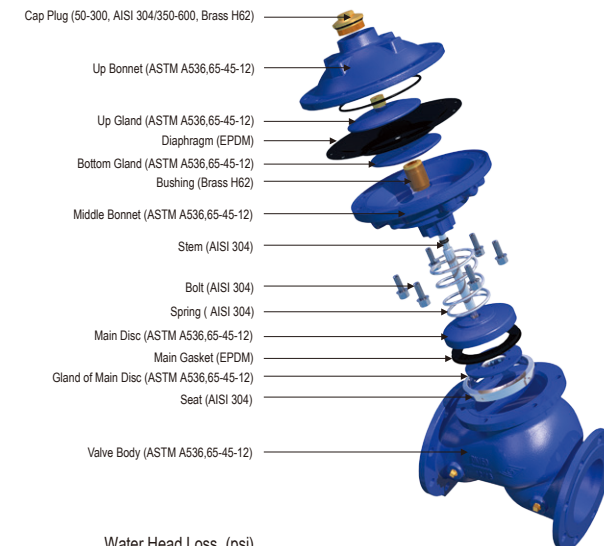
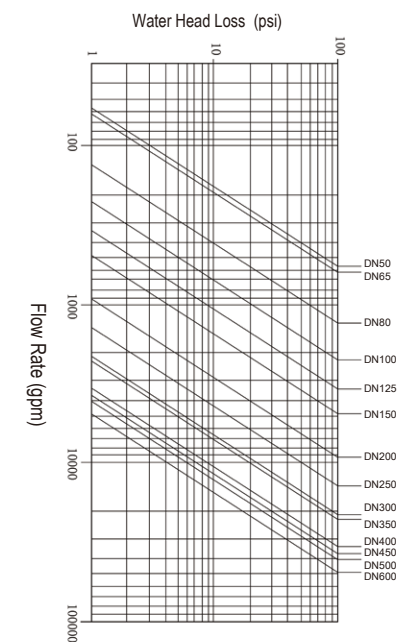
The hydraulic control valve was initially originated in Holand, Israel and Denmark, used for agricultural irrigation. Later the product was introduced into the United Sates, Canada and Asian countries. It was from the 1990s when the product first entered China, and ever since its entrance it gets rapidly developped and widely applied in different industrie aside from irrigation.

The hydraulic control valve produced by Jinan Meide is new style that absorbed the essence of other well-known brands which makes it better in energy saving, consumption reducing and accurate adjusting achieving. The MECH brand hydraulic control valves have been widely used in China, Europe and South East Asian countries in pipe system of irrigation, water supplying, fire protection and air conditioning which has medium of water under 80°C or other medium with similar physical and chemical property as water.

• Specifications

Basic Valve: Y-Type Direct-flow
Connection Ends: Flange to ASME B16.1 CL 125
Temperature Range: 0°C- 80°C
Working Pressure: 300PSI
Testing Standard: API 598

• Flow Diagram of Basic Valve



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-φ L
2"	50	206	170	152	120.5	16	4-φ 19.1
2.5"	65	211	195	178	139.5	17.5	4-φ 19.1
3"	80	249	215	191	152.5	19	4-φ 19.1
4"	100	320	255	229	190.5	24	8-φ 19.1
6"	150	414	360	279	241.5	25.5	8-φ 22.2
8"	200	500	450	343	298.5	28.5	8-φ 22.2
10"	250	605	550	406	362	30.5	12-φ 25.4
12"	300	724	645	483	432	32	12-φ 25.4
16"	400	991	790	597	540	38.5	16-φ 28.5

※ Electromagnetic Control Valve



SK710X

SK710X1

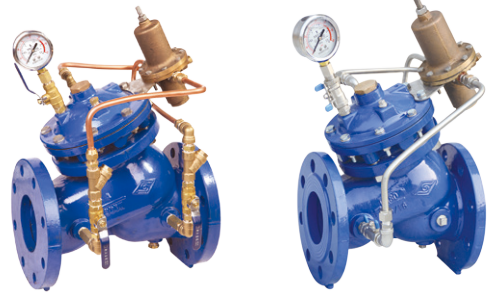
※ Pressure Reducing Valve



SK720X

SK720X1

※ Pressure Relief & Sustaining Valve



SK730X

SK730X1

※ Surge Anticipating Valve



SK735X

※ Pump Control Valve / Slow Shut Control Valve



SK745X

※ Remote Float Control Valve



SK750X

SK750X1

※ Pressure Differential By-pass Balancing Valve



SK780X

SK780X1

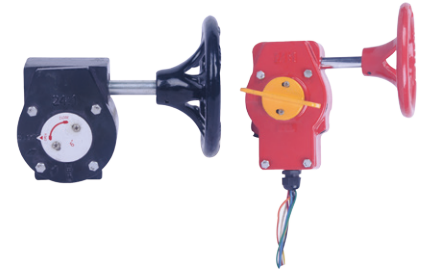
※ T Key



※ Electric Actuator



※ Butterfly Valve Gearbox



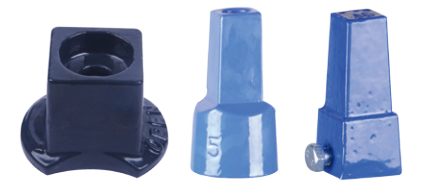
※ Butterfly Valve Lever



※ Hand Wheel



※ Operating Nut



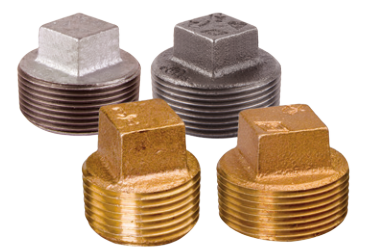
※ Gasket For Flange Connection



※ O-Ring



※ Plug



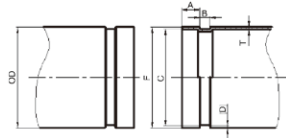
※ Fastener : Bolt, Nut, Washer



Roll Groove Dimensions

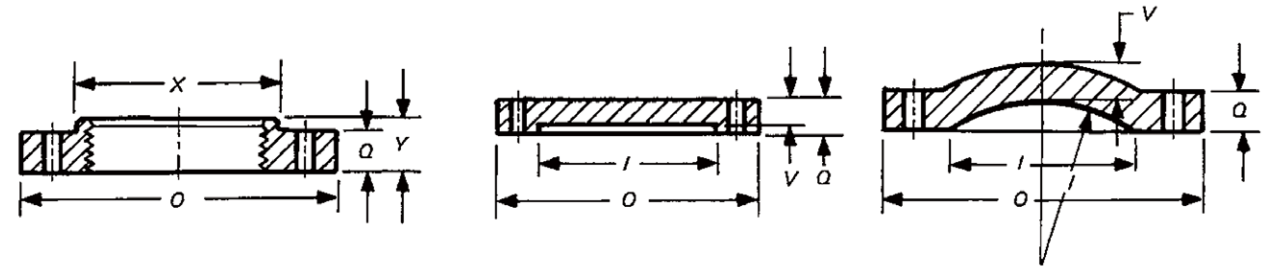


Roll Grooving Machine



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	Tolerance mm/in				Basic mm/in	Tolerance mm/in			
25	33.7	+0.41	-0.68	15.88	7.14	30.23	-0.38	1.60	34.5	1.8
1	1.327	+0.016	-0.026	0.625	0.281	1.190	-0.015	0.063	1.358	0.071
32	42.4	+0.50	-0.60	15.88	7.14	38.99	-0.38	1.60	43.3	1.8
1¼	1.669	+0.020	-0.023	0.625	0.281	1.535	-0.015	0.063	1.705	0.071
40	48.3	+0.44	-0.52	15.88	7.14	45.09	-0.38	1.60	49.4	1.8
1½	1.900	+0.017	-0.020	0.625	0.281	1.779	-0.015	0.063	1.945	0.071
50	60.3	+0.61	-0.61	15.88	8.74	57.15	-0.38	1.60	62.2	1.8
2	2.375	+0.024	-0.024	0.625	0.344	2.250	-0.015	0.063	2.449	0.071
65	73.0	+0.74	-0.74	15.88	8.74	69.09	-0.46	1.98	75.2	2.3
2½	2.875	+0.029	-0.029	0.625	0.344	2.720	-0.018	0.078	2.961	0.091
65	76.1	+0.76	-0.76	15.88	8.74	72.26	-0.46	1.99	77.7	2.3
2½	3.000	+0.030	-0.030	0.625	0.344	2.845	-0.018	0.078	3.059	0.091
80	88.9	+0.89	-0.79	15.88	8.74	84.94	-0.46	1.98	90.6	2.3
3	3.500	+0.035	-0.031	0.625	0.344	3.344	-0.018	0.078	3.567	0.091
100	108.0	+1.07	-0.79	15.88	8.74	103.73	-0.51	2.11	109.7	2.3
4	4.250	+0.042	-0.031	0.625	0.344	4.084	-0.020	0.083	4.319	0.091
100	114.3	+1.14	-0.79	15.88	8.74	110.08	-0.51	2.11	116.2	2.3
4	4.500	+0.045	-0.031	0.625	0.344	4.334	-0.020	0.083	4.575	0.091
125	133.0	+1.32	-0.79	15.88	8.74	129.13	-0.51	2.11	134.9	2.9
5	5.250	+0.052	-0.031	0.625	0.344	5.084	-0.020	0.083	5.311	0.114
125	139.7	+1.40	-0.79	15.88	8.74	135.48	-0.51	2.11	141.7	2.9
5	5.500	+0.055	-0.031	0.625	0.344	5.334	-0.020	0.083	5.579	0.114
125	141.3	+1.42	-0.79	15.88	8.74	137.03	-0.56	2.13	143.5	2.9
5	5.563	+0.056	-0.031	0.625	0.344	5.395	-0.022	0.084	5.650	0.114
150	159.0	+1.60	-0.79	15.88	8.74	154.50	-0.56	2.16	161.0	2.9
6	6.250	+0.063	-0.031	0.625	0.344	6.083	-0.022	0.085	6.339	0.114
150	165.1	+1.60	-0.79	15.88	8.74	160.8	-0.56	2.16	167.1	2.9
6	6.500	+0.063	-0.031	0.625	0.344	6.330	-0.022	0.085	6.579	0.114
150	168.3	+1.60	-0.79	15.88	8.74	163.96	-0.56	2.16	170.7	2.9
6	6.625	+0.063	-0.031	0.625	0.344	6.455	-0.022	0.085	6.720	0.114
200A	216.3	+1.60	-0.79	19.05	11.91	211.60	-0.64	2.35	219.8	2.9
8	8.516	+0.063	-0.031	0.750	0.469	8.331	-0.025	0.093	8.653	0.114
200	219.1	+1.60	-0.79	19.05	11.91	214.40	-0.64	2.34	221.5	2.9
8	8.625	+0.063	-0.031	0.750	0.469	8.441	-0.025	0.092	8.720	0.114
250A	267.4	+1.60	-0.79	19.05	11.91	262.60	-0.69	2.40	270.9	3.6
10	10.528	+0.063	-0.031	0.750	0.469	10.339	-0.027	0.095	10.665	0.142
250	273.0	+1.60	-0.79	19.05	11.91	268.28	-0.69	2.39	275.4	3.6
10	10.750	+0.063	-0.031	0.750	0.469	10.562	-0.027	0.094	10.842	0.142
300A	318.5	+1.60	-0.79	19.05	11.91	312.90	-0.76	2.77	322.0	4.0
12	12.539	+0.063	-0.031	0.750	0.469	12.319	-0.030	0.109	12.677	0.158
300	323.9	+1.60	-0.79	19.05	11.91	318.29	-0.76	2.77	326.2	4.0
12	12.750	+0.063	-0.031	0.750	0.469	12.531	-0.030	0.109	12.842	0.158
350	377.0	+1.60	-0.79	23.83	11.91	371.44	-0.76	2.77	379.5	4.5
14	14.842	+0.063	-0.031	0.938	0.469	14.623	-0.030	0.109	14.941	0.177
400	426.0	+1.60	-0.79	23.83	11.91	420.46	-0.76	2.77	428.5	4.5
16	16.772	+0.063	-0.031	0.938	0.469	16.553	-0.030	0.109	16.870	0.177
500	529.0	+1.60	-0.79	25.40	11.91	523.46	-0.76	2.77	533.0	5.0
20	20.827	+0.063	-0.031	1.000	0.469	20.608	-0.030	0.109	20.984	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) and(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	...
1 1/4	115	12.7	59	21	32	11.1	89	5/8	4	1/2	51	...
1 1/2	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	...
2 1/2	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	...
3 1/2	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.

Before installation, please carefully check whether the product information is consistent with the working conditions. If there is any difference, please consult before use; please be sure to specify the special working conditions such as high salt and high humidity environment and corrosive environment, and customize according to the 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 drainage of valves should be carried out at least once a month. Equipment with filtering functions or used in environments 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.