FLUID TECH®

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Fluid Tech Solutions

Valve Solutions







FLUID TECH®

FIRE PROTECTION VALVES CATALOG

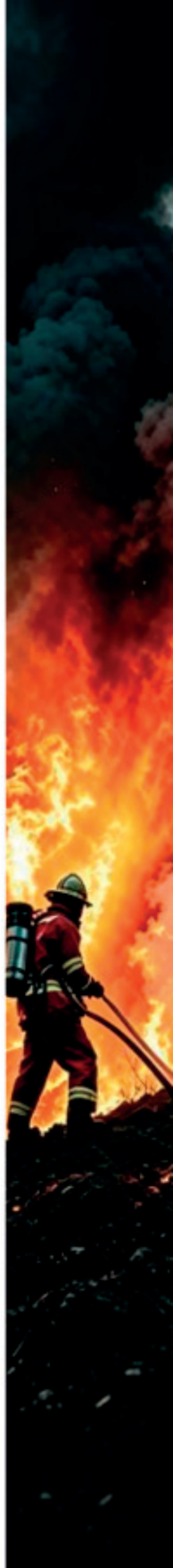
PROFESSIONAL PRODUCTS & SIMPLIFIED PROCUREMENT

FLUID TECH PIPING SYSTEMS (TIANJIN) CO.,LTD

FLUID TECH®

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FLUID TECH®



ABOUT US

WHO ARE WE?

Founded in Tianjin in 2018, Fluid Tech is Northern China's leading integrated manufacturer and exporter of full-range piping systems for Fire Protection, HVAC, and Waterworks. Operating ISO, SGS, and TÜV-certified production hubs across strategic domestic manufacturing bases, we deliver one-stop procurement, custom OEM manufacturing, and engineering-grade fluid conveying solutions worldwide.

Brand Slogan: Connecting Safety, Delivering Excellence Worldwide

CORPORATE CULTURE

Purpose: Your One-Stop Partner in Piping & Fluid Solutions

Mission: Securing Infrastructure, Safeguarding Lives

Vision: Empower Clients, Lead the Industry

Core Values: Customer First, Team Second, Enterprise Third

1.CORE PRODUCT PORTFOLIO

Fittings & Couplings: Grooved couplings & fittings, malleable iron galvanized & black fittings, butt-welding, carbon steel press fittings.

Valves & Accessories: Fire protection valves, waterworks & industrial valves, steel pipe nipples/sockets, pipe hangers, seismic bracing, and fire-fighting accessories.

2.END-TO-END ONE-STOP SERVICES

One-Stop Procurement: Full-category integration (fittings, valves, supports) eliminates multi-vendor overhead, reducing overall sourcing time and costs.

End-to-End Delivery: Unified scheduling, strict QC inspection, optimized container loading, and efficient global freight management.

Technical Empowerment: Free fluid system consulting, engineering guidance, sample testing, market research, and 24/7 global response.

ABOUT US

QUALITY ASSURANCE SYSTEM

1.Smart Manufacturing: Fully automated lines equipped with DISA D3 molding lines, FONDARC intelligent sand mixing, high-precision molds, and automatic threading/grooving.

2. Superior Surface Coating:

Hot-Dip Galvanizing (HDG): Thickness ≥ 70μm (exceeds ASTM A153 standard).

Electro-Galvanizing (EG): Thickness ≥ 35μm, uniform and dense.

Electrophoretic & Epoxy Powder Coating: 360seamless anti-corrosion compliant with international fire & waterworks codes.

2.100% Quality Inspection: CNC-qualified lab with spectrometers, metallographic microscopes, tensile testers, and CMM. 100% mandatory pressure and air-tightness testing prior to delivery.

CERTIFICATIONS & SPECIFICATIONS

Heavy-Duty Certified Series (Premium Engineering): Tailored for high-standard tenders and safety projects. Certified by UL / FM (USA), SIRIM (Malaysia), WRAS (UK), ISO, SGS, and TÜV.

Medium-Duty Standard Series (Cost-Effective Commercial): Complies with universal global standards with qualified wall thickness and stable pressure resistance. Ideal for commercial projects and regional distribution.

LANDMARK PROJECTS & PARTNERS

Domestic Landmarks: Beijing National Stadium (Bird's Nest), National Aquatics Centre (Water Cube), Beijing Daxing Int'l Airport, Canton Tower.

Global Projects: Super high-rise complexes in Middle East/SE Asia, industrial park fluid systems in Europe/Americas, global MEP & fire protection projects.

Key Partners: China State Construction (CSCEC), POWERCHINA, China Water Affairs, China Gas, Shenzhen Gas, Kunlun Lubricant, plus Tier-1 global distributors and EPC construction groups.

FLUID TECH®



CERTIFICATE



LABORATORY TESTING EQUIPMENT



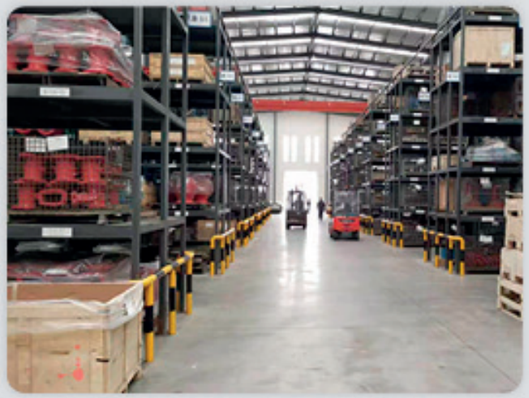





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WORKSHOP ENVIRONMENT








APPLICATION SCENARIOS









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SHIPPING RECORDS





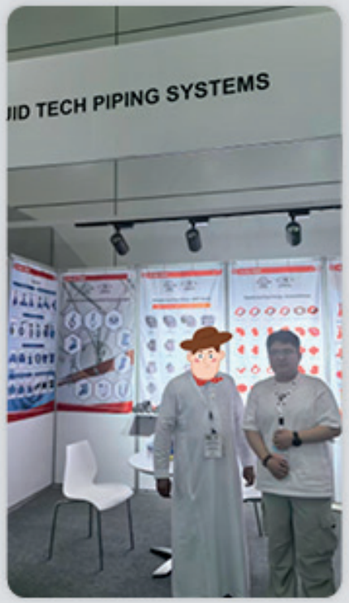



CUSTOMER GROUP PHOTO AT THE EXHIBITION

























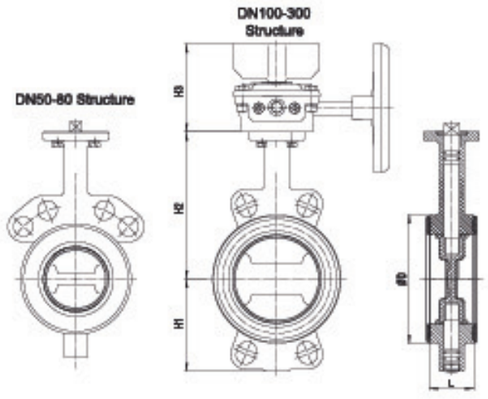
PRODUCT INTRODUCTION

WAFER BUTTERFLY VALVE WITH TAMPER SWITCH

Technical data

- Certificate: FM Approved / UL Listed
- Sizs: DN50~DN300
- Working pressure: PN16/PN25
- Valve standard: EN593
- Flange standard: ASME-B16.1 Class125 and EN1092-2
- Top Flange standard: EN ISO 5211
- Temperature range: 0~80C
- Suitable for indoor and outdoor use





Name of parts	Material
Body	Ductile iron
Plug	EPDM
Driven shaft	1Cr17Ni2
Disc	Ductile iron and EPDM
Actuating shaft	1Cr17Ni2
Bearing bush	Bronze
O-rings	EPDM
Gear operator	Ductile iron and steel

Valve Material List

Dimensions		Pressure rating	Size(mm)					
DN	inch	psi	ΦD	L	H1	H2	H3	Top Flange
50	2	362	91	43	70	125	H3	F05
65	2.5	362	108	46	76	143.5	103	F05
80	3	362	124	46	94	151	103	F05
100	4	362	150	52	108	172	103	F07
125	5	362	178	56	127	190	103	F07
150	6	362	205	56	139	202	103	F07
200	8	232	260	60	175	255	103	F07
250	10	232	313	68	210	265	109	F10
300	12	232	364	78	238	285	109	F10

FLUID TECH®

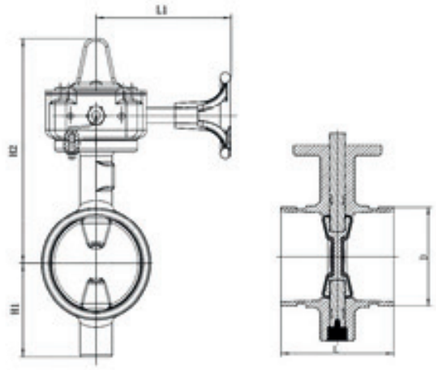
GROOVED INDICATING BUTTERFLY VALVE

- Certificate: FM Approved UL Listed
- Standard: AWWA C515
- Test: Factory hydro test 450 psi
- Temperature: 0°C to 100°C
- W.pressure: 300 psi
- Surface: Epoxy coating as Ral3000

Valve Material List

Body	Ductile iron as A536, 65-45-12	Shaft	SS431
Disc	Ductile iron + EPDM / NBR	Signal gearbox	Housing /cover: ductile iron
Worm	Carbon steel or Ductile iron	Handwheel	Ductile iron as A536, 65-45-12





Dimensions

Spec			Size					Code
Inch	DN	D/mm	A	B	H	L1	L	
2"	50	60.3	92	60	60	136	81	201060
2-1/2"	65	73	106	69	60	136	97	201073
3OD	65	76.1	106	69	60	136	97	201076
3"	80	88.9	112	80	60	136	97	201089
4"	100	114.3	130	95	60	136	116	201114
5.5OD	125	139.7	152	111	60	136	148	201140
5"	125	141.3	152	111	60	136	148	201141
6.5OD	150	165.1	165	125	60	136	148	201165
6"	150	168.3	165	125	60	136	148	201168
JIS 8"	200	216.3	195	157	80	190	133	201216
8"	200	219.1	195	157	80	190	133	201219

BUTTERFLY VALVE WITH GEARBOX-GROOVED END

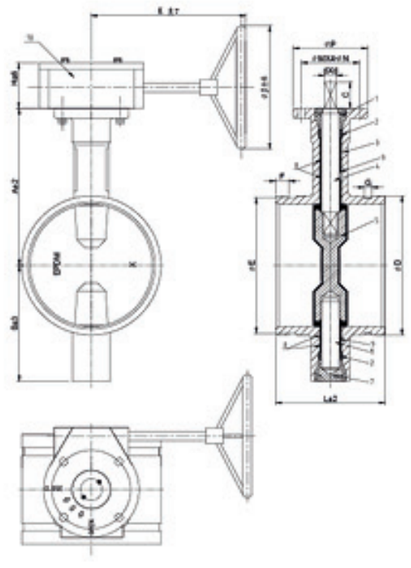
Technical Features

- Groove Standard: ANSI/AWWA C606 or Metric Standard Clear
- Waterway design
- Sizes: 2", 2½", 3", 4", 5", 6", 8", 10", 12"
- Maximum Working Pressure: 300 PSI
- Maximum Testing Pressure: 600 PSI
- Pressure conforms to UL1091 & ULC/ ORD-C1091 & FM 1112
- Working Temperature Range: 0~80°C /32~176° F
- Coating Details: Epoxy coated or coating upon request
- Ductile iron disc-EPDM Encapsulated
- Top Flange Standard: ISO 5211
- Certified lead-free by NSF /ANSI 61 & NSF/ ANSI 372 is available
- Application: Indoor & Outdoor Use, Fire inflow water, drain pipe, high-rising building fire fighting system, industrial factory building fire protection system



Valve Material List

NO.	Description	Material
1	Upper Shaft Sealing Nut	WCB
2	Shaft Seal	EPDM
3	Body	Ductile Iron
4	Upper Shaft	416 Stainless Steel
5	Disc+Rubber Seat	Ductile Iron+EPDM
6	Lower Shaft	416 Stainless Steel
7	Lower Shaft Sealing Nut	WCB
8	Stem Bushing	PTFE/C95400
9	O-Ring	EPDM
10	Gear box	



Dimensions

Size	A	B	C	D	E	F	G	H	K		J	P	M	N	d	L
2"	110	85	36	60.3	57.15	15.9	7.9	111	153	218	127	86	90	70	9	10	81 / 88
2 ½"	125	95	32	73 / 76.1	69.1 / 72.3	15.9	7.9	111	153	218	152	90	70	9	10	96.4
3"	140	100	32	88.9	84.9	15.9	7.9	111	153	218	152	90	70	9	11	97
4"	160	100	32	114.3	110.1	15.9	9.5	111	153	218	152	90	70	9	14	115.1
5"	170	125	32	139.7 / 141.3	135.5 / 137	15.9	9.5	111	153	218	152	90	70	9	14	132.4 / 148
6"	190	140	32	165.1 / 168.3	160.9 / 164	15.9	9.5	111	153	218	200	90	70	9	16	132.4 / 148
8"	230	175	32	219.1 / 216.3	214.4 / 211.6	19	11.1	126	210	252	300	125	102	12	19	133 / 147.4
10"	260	200	63	267.4 / 273	262.6 / 268.3	19	12.7	161	249		350	125	102	12	30.5	159
12"	300	240	77	318.5 / 323.8	312.9 / 318.3	19	12.7	161	249		350	150	125	14	33	165

BUTTERFLY VALVE WITH LEVER -GROOVED END

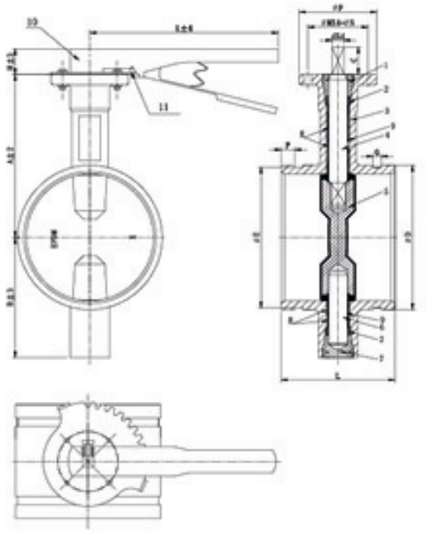
Technical Features

- Groove Standard: ANSI/AWWA C606 or Metric Standard Clear Waterway design
- Sizes: 2", 2½", 3", 4", 5", 6", 8"
- Maximum Working Pressure: 300 PSI
- Maximum Testing Pressure: 600 PSI
- Pressure conforms to UL 1091 & ULC/ ORD-C1091 & FM 1112
- Working Temperature Range: 0~80° C/32~176° F
- Coating Details: Epoxy coated or coating upon request
- Ductile iron disc- EPDM Encapsulated
- Top Flange Standard: ISO 5211
- Certified lead-free by NSF/ ANSI 61 & NSF/ANSI 372 is available
- Application: Indoor & Outdoor Use, Fire inflow water, drain pipe, high-rising building fire fighting system, industrial factory building fire protection system



Valve Material List

NO.	Description	Material
1	Upper Shaft Sealing Nut	WCB
2	Shaft Seal	EPDM
3	Body	Ductile Iron
4	Upper Shaft	416 Stainless Steel
5	Disc+Rubber Seat	Ductile Iron+EPDM
6	Lower Shaft	416 Stainless Steel
7	Lower Shaft Sealing Nut	WCB
8	Stem Bushing	PTFE/C95400
9	O-ring	EPDM
10	Lever	Malleable Iron



Dimensions

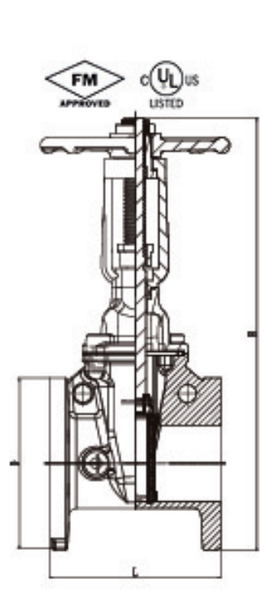
Size	A	B	C	D	E	F	G	H	K		J	P	M	N	d	L
2"	110	85	36	60.3	57.15	15.9	7.9	111	153	218	127	86	90	70	9	10	81 / 88
2 ½"	125	95	32	73 / 76.1	69.1 / 72.3	15.9	7.9	111	153	218	152	90	70	9	10	96.4
3"	140	100	32	88.9	84.9	15.9	7.9	111	153	218	152	90	70	9	11	97
4"	160	100	32	114.3	110.1	15.9	9.5	111	153	218	152	90	70	9	14	115.1
5"	170	125	32	139.7 / 141.3	135.5 / 137	15.9	9.5	111	153	218	152	90	70	9	14	132.4 / 148
6"	190	140	32	165.1 / 168.3	160.9 / 164	15.9	9.5	111	153	218	200	90	70	9	16	132.4 / 148
8"	230	175	32	219.1 / 216.3	214.4 / 211.6	19	11.1	126	210	252	300	125	102	12	19	133 / 147.4
10"	260	200	63	267.4 / 273	262.6 / 268.3	19	12.7	161	249		350	125	102	12	30.5	159
12"	300	240	77	318.5 / 323.8	312.9 / 318.3	19	12.7	161	249		350	150	125	14	33	165

FLANGED OS&Y GATE VALVE C515

Technical Features

- Flange Standard: ASME/ANSI B 16.1 Class 125
- ASME/ANSI B 16.42 Class 150
- BS EN 1092-2 PN 16
- GB/T9113.1
- Sizes: 2"(FM)
- 2.5",3",4",5",6",8",10",12"(FM UL)
- 14",16",18",20",24"
- Face to Face Standard : ASME B 16.10
- Approvals: UL, CUL, FM, NSF /ANSI 61 & NSF /ANSI 372, VDS, CCC
- Maximum Working Pressure: 300PSI
- Maximum Testing Pressure: 600 PSI
- Pressure conforms to FM 1120 /1130, UL 262, ULC /ORD C262-92
- Working Temperature Range: 0~80° C/32~176° F
- Coating Details: Epoxy or Coating upon request
- NPT plug on body with 2 operating nuts
- Certified lead-free by NSF /ANSI 61 & NSF /ANSI 372 is available





Valve Material List

Body	Ductile iron as A536, 65-45-12
Resilient wedge disc	Ductile iron as A536, 65-45-12 + EPDM
Yoke	Ductile iron as A536, 65-45-12
Bonnet	Ductile iron as A536, 65-45-12
Stem	SS304/SS316/SS420/SS431
Handwheel	Ductile iron as A536, 65-45-12

Dimensions

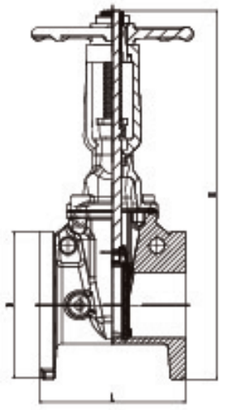
Spec		Pressure	Size				Bolts	Code
Inch	DN	Psi	L	H min	H max	D		
2	50	300	178	420	482	152	4 x 3/4"	E001050
2 1/2	65	300	190	435	505	178	4 x 3/4"	E001065
3	80	300	203	500	584	191	4 x 3/4"	E001080
4	100	300	229	580	687	229	8 x 3/4"	E001100
6	150	300	267	770	951	279	8 x 7/8"	E001150
8	200	300	292	930	1136	343	8 x 7/8"	E001200
10	250	300	33	1125	1383	406	12 x 1"	E001250
12	300	300	356	1295	1604	483	12 x 1"	E001300

FLANGED OS&Y GATE VALVE TABLE E

Technical Features

- Certificate: FM Approved / UL Listed
- Standard: ASME B16.1
- Connection: Flanged as Table E
- Test: Factory hydro test 24 bar
- Temperature: 0° C to 100° C
- W. pressure: 300Psi
- Surface: Epoxy coating as Ral3000





Valve Material List

Body	Ductile iron as A536, 65-45-12	Bonnet	Ductile iron as A536, 65-45-12
Resilient wedge disc	Ductile iron as A536, 65-45-12 + EPDM	Stem	SS304/SS316
Yoke	Ductile iron as A536, 65-45-12	Handwheel	Ductile iron as A536, 65-45-12

Dimensions

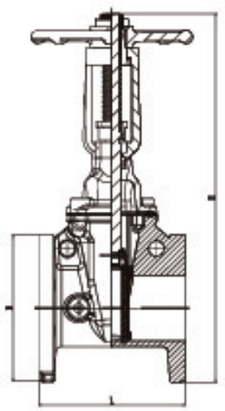
Spec		Pressure	Size				Bolts	Code
Inch	DN	Psi	L	H min	H max	D		
2	50	300	178	420	482	152	4 x 3/4"	C501A050
2 1/2	65	300	190	435	505	178	4 x 3/4"	C501A065
3	80	300	203	500	584	191	4 x 3/4"	C501A080
4	100	300	229	580	687	229	8 x 3/4"	C501A100
6	150	300	267	770	951	279	8 x 7/8"	C501A150
8	200	300	292	930	1136	343	8 x 7/8"	C501A200
10	250	300	33	1125	1383	406	12 x 1"	C501A250
12	300	300	356	1295	1604	483	12 x 1"	C501A300

FLANGED OS&Y GATE VALVE PN16

Technical Features

- Certificate: FM Approved / UL Listed
- Standard: EN1171
- Connection: Flanged as BS EN 1092-2
- Test: Factory hydro test 24 bar
- Temperature: 0° C to 100° C
- W. pressure: 300Psi
- Surface: Epoxy coating as Ral3000





Valve Material List

Body	Ductile iron as EN-GYS-450-10	Bonnet	Ductile iron as A536, 65-45-12
Resilient wedge disc	Ductile iron as EN-GYS-450-10 + EPDM	Stem	SS304/SS316
Yoke	Ductile iron as EN-GYS-450-10	Handwheel	Ductile iron as A536, 65-45-12

Dimensions

Spec		Pressure	Size				Bolts	Code
Inch	DN	Psi	L	H min	H max	D		
2	50	300	150	420	482	165	4 x 3/4"	E002050
2 1/2	65	300	170	435	505	185	4 x 3/4"	E002065
3	80	300	180	500	584	200	4 x 3/4"	E002080
4	100	300	190	580	687	220	8 x 3/4"	E002100
6	150	300	210	770	951	285	8 x 7/8"	E002150
8	200	300	250	930	1136	340	8 x 7/8"	E002200
10	250	300	250	1125	1383	405	12 x 1"	E002250
12	300	300	270	1295	1604	460	12 x 1"	E002300

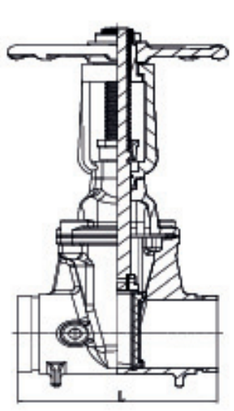
FLUID TECH®

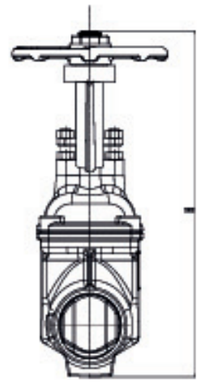
GROOVED OSY GATE VALVE

Technical Features

- Groove Standard: Metric or ANSI/AWWA C606
- Face to Face Standard: ASME B16.10
- Sizes: 2"(FM)
- 2.5",3",4",5",6",8",10",12"(FM UL)
- Approvals: UL, CUL, FM, NSF /ANSI 61 & NSF /ANSI 372
- Maximum Working Pressure: 300PSI
- Maximum Testing Pressure: 600 PSI
- Pressure conforms to FM 1120 /1130， UL 262， ULC /ORD C262-92
- Working Temperature Range: 0~80° C/32~176° F
- Coating Details: Epoxy or Coating upon request
- NPT plug on body with 2 operating nuts
- Certified lead-free by NSF /ANSI 61 & NSF /ANSI 372 is available







Valve Material List

Body	Ductile iron as A536, 65-45-12
Resilient wedge disc	Ductile iron as A536, 65-45-12 + EPDM
Yoke	Ductile iron as A536, 65-45-12
Bonnet	Ductile iron as A536, 65-45-12
Stem	SS304/SS304/SS420/SS431
Handwheel	Ductile iron as A536, 65-45-12

Dimensions

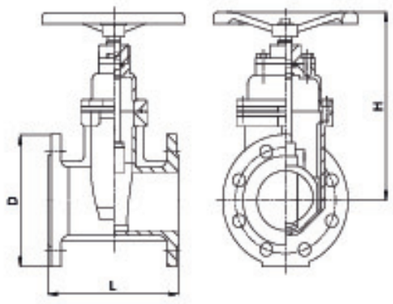
Spec			Pressure	Size			Ref. No.
Inch	DN	mm	Psi	L	H min	H max	
2"	50	60.3	350	178	420	482	E003060
2-1/2"	65	73	350	190	435	505	E003073
30D	65	76.1	350	190	435	505	E003076
3"	80	88.9	350	203	500	584	E003089
4"	100	114.3	350	229	580	687	E003114
6.50D	150	165.1	350	267	770	951	E003165
6"	150	168.3	350	267	770	951	E003168
8"	200	219.1	350	292	930	1136	E003219
10"	250	273	350	330	1125	1383	E003273
12"	300	323.8	350	356	1295	1604	E003324

FLANGED NRS GATE VALVE C515

Technical Features

- Certificate: FM Approved / UL Listed
- Standard: ASME B16.1
- Connection: Flanged as ANSI125/150
- Test: Factory hydro test 24 bar
- Temperature: 0° C to 100° C
- W. pressure: 300Psi
- Surface: Epoxy coating as Ral3000





Valve Material List

Body	Ductile iron as EN-GYS-450-10	Bonnet	Ductile iron as EN-GYS-450-10
Resilient wedge disc	Ductile iron as EN-GYS-450-10 + EPDM	Stem	SS304/SS316/SS420/SS431
Yoke	Brass as B124 C37000	Handwheel	Ductile iron as EN-GYS-450-10

Dimensions

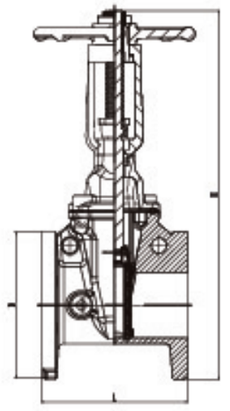
Spec		Pressure	Size			Bolts	Code
Inch	DN	Psi	L	H	D		
2	50	300	178	254	165	4 x 3/4"	E004050
2 1/2	65	300	190	275	185	4 x 3/4"	E004065
3	80	300	203	301	200	4 x 3/4"	E004080
4	100	300	229	355	220	8 x 3/4"	E004100
6	150	300	267	448	285	8 x 7/8"	E004150
8	200	300	292	548	340	8 x 7/8"	E004200
10	250	300	330	626	405	12 x 1"	E004250
12	300	300	356	722	460	12 x 1"	E004300

GROOVED NRS GATE VALVE

Technical Features

- Certificate: FM Approved / UL Listed
- Standard: UL 262/AWWA C515
- Connection: Flanged as ASME B16.1
- Test: Factory hydro test 450 psi
- Temperature: 0° C to 100° C
- W. pressure: 350 psi
- Surface: Epoxy coating as Ral3000





Valve Material List

Body	Ductile iron as A536, 65-45-12	Bonnet	Ductile iron as A536, 65-45-12
Resilient wedge disc	Ductile iron as A536, 65-45-12 +EPDM	Stem	SS304/SS316/SS420/SS431
Yoke	Brass as B124 C37000	Handwheel	Ductile iron as A536, 65-45-12

Dimensions

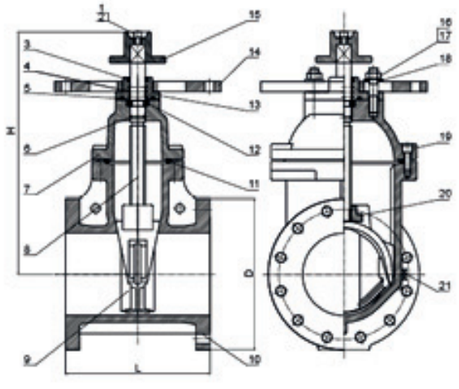
Spec			Pressure	Size		Ref. No.
Inch	DN	mm	Psi	L	H	
2"	50	60.3	350	178	254	E006060
2-1/2"	65	73	350	190	275	E006073
3OD"	65	76.1	350	190	275	E006076
3"	80	88.9	350	203	301	E006089
4"	100	114.3	350	229	355	E006114
6.5OD"	150	165.1	350	267	448	E006165
6"	150	168.3	350	267	448	E006168
8"	200	219.1	350	292	548	E006219
10"	250	273	350	330	626	E006273
12"	300	323.8	350	356	722	E006324

RESILIENT WEDGE NRS GATE VALVE-FLANGED END

Technical Features

- Flange Standard: ASME/ANSI B 16.1 Class 125
- ASME/ANSI B 16.42 Class 150
- BS EN 1092-2 PN 16
- GB/T9113.1
- Sizes: 2"(FM)
- 2.5",3",4",5",6",8",10",12" (FM UL)
- 14",16",18",20",24"
- Face to Face Standard: ASME B16.10
- Approvals: UL, CUL, FM, NSF /ANSI 61 & NSF /ANSI 372， VDS, CCC
- Maximum Working Pressure: 300PSI
- Maximum Testing Pressure: 600PSI
- Pressure conforms to FM 1120 /1130， UL 262， ULC / ORD C262-92
- Working Temperature Range: 0-80° C /32-176F
- Coating Details: Epoxy or Coating upon request
- NPT plug on body with 2 operating nuts
- Certified lead-free by NSF /ANSI 61 & NSF /ANSI 372 is available





Valve Material List

NO.	Name	Material	Standard
1	Flat Washer	Steel 1045 or Stainless Steel 304	ASTM B148
2	Inner Hexagon Screw	Steel 1045 or Stainless Steel 304	ASTMA536 Grade 65-45-12
3	Sealing Gland	EPDM	
4	O-Ring	EPDM	ASTMA536 Grade 65-45-12+ASTM D2000
5	Sealing Ring	EPDM	ASTM A536 Grade 65-45-12
6	O-Ring	EPDM	ASTM D2000
7	Bonnet	Ductile Iron	Bolt/ Stainless Steel 304/ASTM A276
8	Stem	Stainless Steel 304	ASTMA536 Grade 65-45-12
9	Disc	Ductile Iron +EPDM	Nut / Stainless Steel 304/ASTMA276
10	Body	Ductile Iron	Flat Washer /Stainless Steel 304/ASTMA276
11	Sealing Ring	EPDM	Bolt/ Stainless Steel 304 /ASTM A276
12	Retaining Ring	C95400	ASTM A536 Grade 65-45-12
13	Gland	Ductile Iron	ASTM B148
14	Terminal Pad	Ductile Iron	ASTM A276
15	Link Block	Ductile Iron	ASTM A276
16	Nut	Stainless Steel 304 or Steel 1045	ASTM B148
17	Studs	Stainless Steel 304 or Steel 1045	ASTM B148
18	Washer	Steel 1045	ASTM A351
19	Inner Hexagon Screw	Steel 1045	ASTM A276
20	Master Screw	C95400	ASTM D2000
21	Plug	C95400	

Dimensions

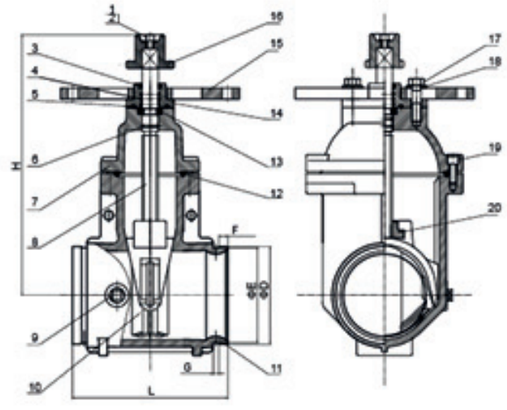
Size	DN	L	D	H
2 ½"	65	190	178	292
3"	80	203	191	322
4"	100	229	229	342
5"	125	254	254	412
6"	150	267	279	448
8"	200	292	343	534
10"	250	330	406	635
12"	300	356	483	720

RESILIENT WEDGE NRS GATE VALVE-GROOVED END

Technical Features

- Groove Standard: Metric or ANSI /AWWA C606
- Face to Face Standard: ASME B16.10
- Sizes: 2"(FM)
- 2.5",3",4",5",6",8",10",12"(FM UL)
- Approvals: UL, CUL, FM, NSF /ANSI 61 & NSF /ANSI 372
- Maximum Working Pressure: 300PSI
- Maximum Testing Pressure: 600PSI
- Pressure conforms to FM 1120 / 1130， UL 262， ULC /ORD C262-92
- Working Temperature Range: 0-80° C/32-176° F
- Coating Details: Epoxy or Coating upon request
- NPT plug on body with 2 operating nuts
- Certified lead-free by NSF /ANSI 61 & NSF /ANSI 372 is available





Valve Material List

NO.	Name	Material	Standard
1	Flat Washer	Steel 1045 or Stainless Steel 304	ASTMA276 or ASTM B148
2	Hexagon Socket Screw	Steel 1045 or Stainless Steel 304	ASTMA536 Grade 65-45-12
3	Sealing Ring	EPDM	
4	O-Ring	EPDM	ASTMA536 Grade 65-45-12+ASTM D2000
5	Sealing Ring	EPDM	ASTMA536 Grade 65-45-12
6	O-Ring	EPDM	ASTM D2000
7	Bonnet	Ductile Iron	Bolt/Stainless Steel 304/ASTMA276 or 1045， ASTMA29
8	Stem	Stainless Steel 304 or C95400	ASTMA536 Grade 65-45-12
9	Plug	Stainless Steel 304 or C95400	Nut/Stainless Steel 304/ASTMA276 or 1045， ASTMA29
10	Disc	Ductile Iron +EPDM	Flat Washer / Stainless Steel 304 / ASTMA276 or 1045， ASTMA29
11	Body	Ductile Iron	Bolt/ Stainless Steel 304/ASTMA276 or 1045， ASTMA29
12	Sealing Ring	EPDM	ASTMA536 Grade 65-45-12
13	Retaining Ring	C95400	ASTMB148
14	Gland	Ductile Iron	Stainless Steel 304/ASTMA276 or 1045，ASTMA29
15	Post Flange	Ductile Iron	ASTM B148
16	Wrench Nut	Ductile Iron	ASTMB148
17	Bolt	Stainless Steel 304 or Steel 1045	ASTMB148
18	Washer	Stainless Steel 304 or Steel 1045	CF8/CF8M or C95400/ASTMA351 or ASTM B148
19	Hexagon Socket Screw	Steel 1045 or Stainless Steel 304	ASTMA276
20	Stem Nut	CF8 or C95400	ASTM D2000

Dimensions

Size	DN	L	F	D	E	G	H
2 ½"	65	190	15.9	73	69.1	7.9	292
				76.1	72.3		
3"	80	203	15.9	88.9	84.9	7.9	322
4"	100	229	15.9	114.3	110.1	9.5	342
5"	125	254	15.9	139.7	135.5	9.5	412
				141.3	137		
6"	150	267	15.9	165.1	160.8	9.5	448
				168.3	163.9		
8"	200	292	19	216.3	211.6	11.1	534
				219.1	214.3		
10"	250	330	19	273	268.3	12.7	635
12"	300	356	19	323.9	318.3	12.7	720

FLANGED SWING CHECK VALVE

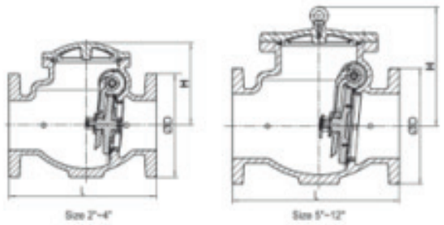
Technical Features

- Certificate: FM Approved / UL Listed
- Sizs: 2-12
- Working pressure: 300psi
- Valve standard: AWWA C508
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0~80°C



Valve Material List

Name of parts	Material
Body	Ductile iron
Seat Ring	Bronze
Disc Sealing Ring	EPDM
Disc Plate	SS304
Disc	Ductile iron
Clapper Arm	Ductile iron
Bonnet Gasket	EPDM
Bonnet	Ductile iron
Hinge Pin	SS304
Hinge Bushing	Bronze
Hinge Plug	SS304



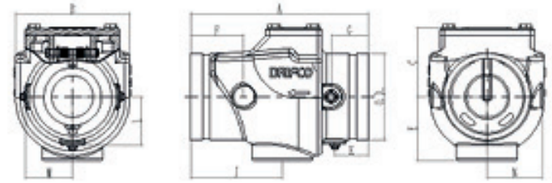
Dimensions

Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	ΦD	L	H
50	2	300	152	203	125
65	2.5	300	178	254	139
80	3	300	191	279	153
100	4	300	229	330	184
125	5	300	254	356	275
150	6	300	279	406	289
200	8	300	343	495	352
250	10	300	406	559	411
300	12	300	483	660	480

GROOVED SWING CHECK VALVE



- Certificate: FM Approved / UL Listed
- Standard: UL 312/AWWA C508
- Connection: Grooved as AWWA C606
- Test: Factory hydro test 450 psi
- Temperature: 0°C to 100°C
- W.pressure: 300 psi
- Surface:Epoxy coating as Ral3000



Valve Material List

Body	Ductile iron as A536, 65-45-12	Hinge pin	AISI 420
Disc	SS304+EPDM	Disc	Ductile iron as A536, 65-45-12 + EPDM (8" to 12")
Seat ring	Bronze as ASTM B62 C83600 / SS304	Plug	Galvanized malleable iron / SS Steel

FLANGED SWING CHECK VALVE



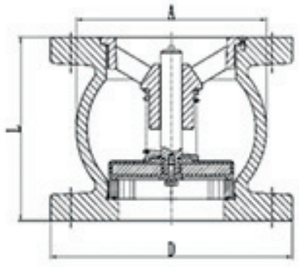
- Certificate: UL Listed
- Standard: UL 312/AWWA C508
- Connection: Flanged as ANSI125/150
- Test: Factory hydro test 450 psi
- Temperature: 0°C to 100°C
- W.pressure: 300 psi
- Surface: Epoxy coating as Ral3000

Valve Material List

Body	Ductile iron as A536, 65-45-12	Hinge pin	AISI420
Disc	SS304+EPDM	Disc	Ductile iron as A536, 65-45-12 + EPDM (8 to 12)
Seat ring	Bronze as ASTM B62 C83600 / SS304	Plug	Galvanized malleable iron / SS Steel

SILENT CHECK VALVE





Technical data

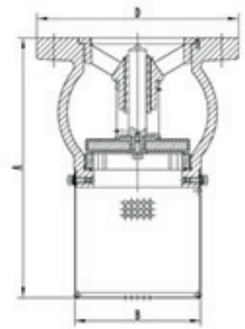
Product Type: Silent Check Valve
Sizes: 2", 2½", 3", 4", 5", 6", 8", 10", 12"
Flange Standard: PN16 (BS EN 1092-2)
Maximum Working Pressure: 232 PSI
Maximum Testing Pressure: 464 PSI (twice the working pressure, industry standard)
Working Temperature Range: 0~80° C / 32~176° F
Coating Details: Epoxy coated or coating upon request
Applications: Used in one-way flow pipeline systems to prevent water backflow, with low noise performance for fire protection and water supply systems.

Name of parts	Material
Body	Ductile iron
Spring	Stainless Stell
Disc	Ductile iron+EPDM
Support	Bronze/Ductile iron
Shaft	Stainless Stell

Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	D	L	A
50	2	300	152	100	98
65	2.5	300	178	120	124
80	3	300	191	140	146
100	4	300	229	170	180
125	5	300	254	200	220
150	6	300	279	230	256
200	8	300	343	288	330

FOOT VALVE





Technical data

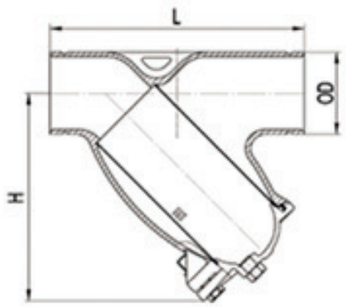
Product Type: Foot Valve
Sizes: 2", 2½", 3", 4", 5", 6", 8", 10", 12"
Flange Standard: ASME/ANSI B 16.1 Class 125
Maximum Working Pressure: 300 PSI
Maximum Testing Pressure: 600 PSI (twice the working pressure, industry standard)
Working Temperature Range: 0~80° C / 32~176° F
Coating Details: Epoxy coated or coating upon request
Applications: Installed at the end of suction pipelines in water pump systems to prevent backflow and maintain prime, suitable for water supply and fire protection systems.

Name of parts	Material
Body	Ductile iron
Bonnet	Ductile iron
Disc	Ductile iron+EPDM
Support	Bronze/DI
Shaft	Stainless Stell
Spring	Stainless Stell

Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	D	A	B
50	2	300	152	153	83
65	2.5	300	178	195	103
80	3	300	191	237	120
100	4	300	229	295	143
150	6	300	279	431	196
200	8	300	343	574	248

GROOVED Y STRAINER





Technical data

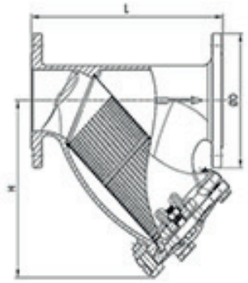
Certificate: UL Listed
Product Name: Grooved Y Strainer
Size Range: 2" ~ 8"
Rated Working Pressure: 362 PSI
Groove Connection Standard: AWWA C606
Working Temperature: 0°C ~ 80°C
Maximum Test Pressure: 724 PSI
Surface Coating: Epoxy resin coating, customized coating available
Feature: Compact structure, easy installation and cleaning
Application: Fire protection, water supply and industrial piping system

Name of parts	Material
Body	Ductile iron
Cover	Ductile iron
Gasket	EPDM
Screen	SS304
Plug	Bronze

Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	OD	L	H
50	2	362	60.3	230	154
65	2.5	362	73	290	201
			76.1		
80	3	362	88.9	310	210
100	4	362	114.3	350	269
125	5	362	139.7	400	320
			141.3		
150	6	362	165.1	480	357
			168.3		
200	8	362	219.1	550	442

FLANGED Y STRAINER





Technical data

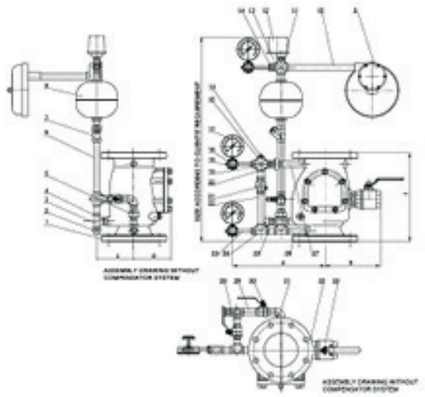
Certificate: UL Listed
Product Type: Flanged Y Strainer
Size Range: 2" ~ 12"
Working Pressure: 232 PSI
Flange Standard: PN10 / PN16
Working Temperature: 0° C ~ 80° C
Max Test Pressure: 464 PSI
Surface Coating: Epoxy coated, custom coating optional
Key Features: Stable performance, easy disassembly & cleaning
Application: Fire protection, water supply and drainage pipeline systems

Name of parts	Material
Body	Ductile iron
Cover	Ductile iron
Gasket	EPDM
Screen	SS304
Plug	Bronze

Dimensions		Pressure rating	Size(mm)		
DN	inch	PN	D	L	H
50	2	PN10/16	165	230	154
65	2.5	PN10/16	185	290	201
80	3	PN10/16	200	310	210
100	4	PN10/16	220	350	269
125	5	PN10/16	250	400	320
150	6	PN10/16	285	480	357
200	8	PN10/16	340	550	442

WET ALARM CHECK VALVE





Product Features

Designed expressly for wet pipe fire sprinkler systems
Working pressure rated to 300 psi (20.7 bar)
Flange and Groove end can be choosen
Size from 2"-12"
FM & UL approved

Technical Features

Working pressure: 300PSI
Flange Standard: ASME/ANSI B16.1 Class 125
ASME/ANSI B16.42 Class 150
BS EN 1092-2PN16
GB/T9113.1
Groove Standard: AWWA C606
ISO6182-12
Working Temperature Range:4~70° C/ 39.2~158° F
Coating Details: Epoxy coated or coating upon request

Applications in Fire Protection

This system is applicable to the places with the ambient temperature from 4'C to 70'C, This system is generally installed in the places with fire hazards. like the hotel. shopping mall. hospital. theater, office building, conference center, warehouse. high-rise building and underground garage

Product Description

APC wet alarm check valve consists of wet alarm valve, retard chamber, pressure gauges, water motor alarm, pressure switch drain valve and filter etc
Alarm Check Valves act as a water flow alarm initiating device in wet pipe sprinkler systems. When water flows in the sprinkler system due to the operation of one or more automatic fire sprinklers, the alarm valve opens allowing continuous flow of water into the system, which will activate water motor bell and pressure switches
The design of the Alarm Check Valve allows for installation under both variable and constant supply pressureconditions. The valve trim incorporates a bypass between the water supply and the wet pipe system. When pressure surges in the waters supply occur, the trim allows a small amount of water to bypass the clapper limiting the potential of false alarms.

Installation

This instrument shall be installed in places where is easy to observe and access. Install The wet alarm valve vertically on the pipes which have been properly tested for its pressure and cleaned. Please note that the arrow for water flow direction is pointing upwards. Reserve enough operation space for repair and maintenance before installation.
Step1: Clean the system pipe network completely before installation. Ensure that the inner wall of the pipes is coated with rust-proof layer and there is no dreg or dirt in the pipes.

FLUID TECH®

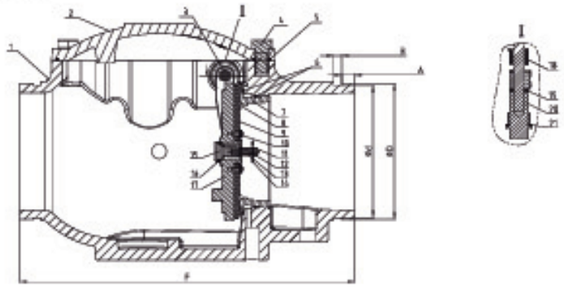
Step2. in order to facilitate the observation of the pipe in which an alarm occurs, it is recommended to discharge the water fro man open port or have the water discharge state easy to be observed before installation.
Step3: Check whether there is any damage at the joint between the wet alarm valve and the flange, check whether the seal is in good condition and whether the valve disc moves flexibly, carry out the leakage test with a pressure of two times of the rated working pressure. After the test, the valve disc shall be free of leakage, If there is any problem, replace the spare parts or clear the trouble before assembling the parts together.
Step4: Turn the pressure gauge to the position where the reading is clearly visible.
Step5: The pressure switch shall be installed on the top of the delayer. This pressure switch must be installed vertically and could only be used indoors. After installation, check if it acts reliably.
Step6: The water motor alarm shall be installed on the top of the delayer, after installation, check if it acts reliably.
Step7: With the exception of support from the trim piping, the ratard chamber will also be binded by a clamp with the piping to avoid any movement or looseness

Size	a	b	c	d
2"	340	205	145	110
2.5'	340	205	145	110
3"	340	205	145	110
4"	342	205	160	136
5"	349	250	180	162
6"	349	274	180	162
8"	415	290	205	195
10"	475	340	240	235
12"	495	368	270	270

NO	Name	QTY	Material	Standard
1	Alarm Valve Body	1	Ductile Iron	ASTM A-536 Grade 65-45-12
2	Office, Retard	1	C954	ASTM B148
3	Tee	2	SS304	ASTM A276
4	Nipple	6	SS304	ASTM A276
5	Union	1	SS304	ASTM A276
6	Nipple	1	SS304 / Steel	ASTM A276/1045
7	Y Strainer	1	SS304	ASTM A276
8	Retard Chamber	1	Steel	1045,ASTM 1045
9	Reducer Bushing	1	SS304	ASTM A276
10	Reducer Bushing	1	SS304	ASTM A276
11	Pressure Switch	1	ZSJY1.6BP	Assembly
12	Cross	1	SS304	ASTM A276
13	Nipple	1	SS304/ Steel	ASTM A276/1045,ASTM A29
14	Gong Assembly	1	MH-SLJL-00	Assembly
15	Plug	1	SS304/C954	ASTM A276/1045,ASTM B148
16	Cross	2	SS304	ASTM A276
17	Pressure Gauge	3	PFE-00A 600SPI	Assembly
18	3-way Valve Gauge	3	C954	ASTM B148
19	Plug	3	Steel/C954	ASTM 1045 A276/B148
20	Orifice, Retard	1	C954	ASTM B148
21	Check Valve	1	SS304	ASTM A276
22	Nipple	1	SS304 / Steel	ASTM A276/1045,ASTM A29
23	Nipple	3	SS304 / Steel	ASTM A276/1045,ASTM A29
24	Tee	2	SS304	ASTM A276
25	Nipple	4	SS304 / Steel	ASTM A276/1045,ASTM A29
26	Nipple	1	SS304 /Steel	ASTM A27611045,ASTM A29
27	Nipple	1	SS304/Steel	ASTM A276/1045,ASTM A29
28	Ball Valve	1	SS304	ASTM A276
29	Nipple	1	SS304 / Steel	ASTM A276/1045,ASTM A29
30	Ball Valve	1	SS304	ASTM A276
31	Elbow	2	SS304	ASTM A276
32	Nipple	1	SS304	ASTM A276
33	Ball Valve	1	SS304	ASTM A276

GROOVED WET ALARM CHECK VALVE





- Connection Ends: Groove to ISO 6182
- Working Pressure: PN16
- Temperature Range: 0C-80°C
- Coating: Painting or Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

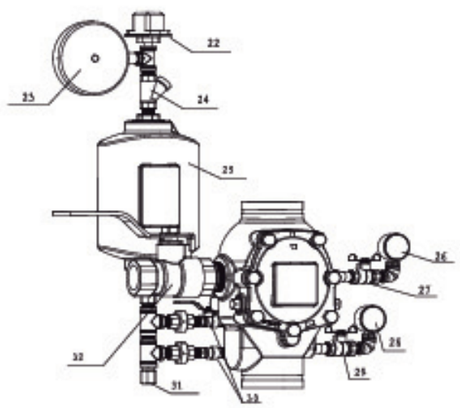
MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Valve Body	EN-GJS-450-10
2	Bonnet	EN-GJS-450-10
3	Pin	SS304
4	Hex Bolt	Carbon Steel Zinc Plated
5	Body Gasket	EPDM
6	O-Ring	NBR
7	Seat	C83600
8	Gasket	EPDM
9	Disc Gland	SS304
10	Slotted Screw	SS304
11	Hexagonal Nut	SS304
12	Adjusting Screw	SS304
13	Core Tube	SS304
14	Core Board	SS304
15	Disc Core	C89833
16	O-Ring	NBR
17	Disc	C83600
18	Spring	SS304
19	Sealing Fillet Gasket	PTFE
20	Sealing Plug	SS304
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	114.3	15.88	7.93	84.94	88.9	320.3
4"	100	159	15.88	9.53	110.08	114.3	382
6"	150	165.1	15.88	9.53	154.5	159	406.4
		168.3	15.88	9.53	160.9	165.1	406.4
		219.1	15.88	9.53	163.96	168.3	406.4
8"	200	88.9	19.05	11.1	214.4	219.1	446

External Accessories			
Part No.	Part	Part No.	Part
22	Pressure Switch	28	Pressure Gauge
23	Alarm	29	Ball Valve
24	Strainer	30	Drip Valve
25	Retard Chamber	31	Locking Balve
26	Pressure Gauge	32	Check Ball Valve
27	Ball Valve		



WET ALARM CHECK VALVE



Purpose

Alarm Check Valve is core element in wet pipe fire sprinkler systems. it serves a dual purpose which prevents a reverse flow of water (non-return), also provides for the use of the water motor gong. Meanwhile, in the event of variable pressure condition,false alarm is prevented with provision of retard chamber at the external bypass.

Performance Parameters

Standard: ANSI/BS/GB
Connection: Flange as ANSI B16.1/EN 1092-2
Installation:Vertical
Test: Factory hydro test 350 psi (2.4MPa)
Temperature: 4°C to 70%°C
W. pressure: 175/300 psi (1.21/2.07MPa)
Surface: FBE coating as AWWA C550

Technical parameters

Model	ZSFZ80	ZSFZ100	ZSFZ125	ZSFZ150	ZSFZ200	ZSFZ250
Norminial diameter(mm)	80	100	125	150	200	250
Working pressure(MPa)	1.6MPa					
Sealed test(MPa)	3.2MPa					
Strength test(MPa)	6.4MPa					
Flow rate(L/min)	15<Q<60					
Retard alarm time(s)	5-90					
Friction resistance(MPa)	<0.035					

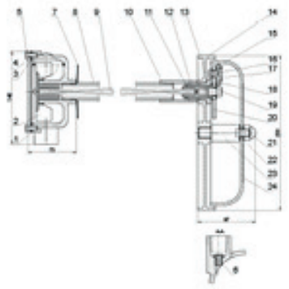
Body	Ductile iron	Cover	Ductile iron
Disc	Ductile iron/brass+EPDM	Stem	SS304/galvanized pipe
Seat	Bronze/Cast iron	Accessories	Standard trim & accessories, Retard chamber Alarm pressure switch, Water motor gong, etc.

Main dimensions(mm)

Model Strength test	Working Pressure(MPa)	Strength test Pressure(MPa)	Strength test Pressure(MPa)	Diametre (mm)	Height (mm)	Flange diametre(mm)	Flange screw hole diametre(mm)	Screw hole specification(mm)
ZSFZ80	1.6	3.2	6.4	80	230	200	160	8*18
ZSFZ100				100	235	220	180	8*18
ZSFZ125				125	245	250	210	8*18
ZSFZ150				150	250	285	240	8*22
ZSFZ200				200	290	340	295	12*22
ZSFZ250				250	430	405	355	12*26

WATER MOTOR GONG





Connections for Installation

Water Pipe Connection

Inlet port: Connect to clean water supply pipeline with threaded/flange fitting.

Outlet port: Link to downstream water distribution or drainage pipeline.

Install shut-off valve at inlet for flow control and maintenance isolation.

Fit filter before water motor inlet to prevent impurity blockage.

Electrical Connection

Connect power cable to motor terminal box per voltage specification.

Equip with overload, short-circuit and leakage protection devices.

Strictly implement grounding connection for safety insulation.

Wire match load current, avoid overheating and line aging.

Gong Mechanical Connection

Fix gong assembly to water motor output shaft with coupling/fastener.

Adjust mounting position to ensure flexible rotation and no friction collision.

Fasten all bolts tightly with anti-loosening gaskets to prevent vibration loosening.

Mounting & Auxiliary Connection

Secure water motor gong unit on firm bracket/base.

Keep pipeline layout smooth, avoid sharp bending and excessive stress.

Reserve maintenance space for later inspection, repair and part replacement。

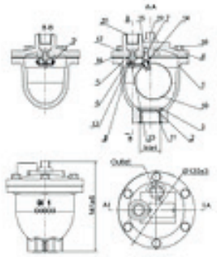
Material List

NO	Name	Material
1	Driver Shell	Aluminium Alloy
2	Impeller	Delrin
3	Sealing Gasket	Epdm
4	Cover	1045 or SS304
5	Bolt	1045 or SS304
6	Nozzle	C954
7	Gasket	1566
8	Support Pipe	1045 or SS304
9	Drive Shaft	Aluminium Alloy
10	Sleeve	1045 or SS304
11	Intemal Circlips	SS304
12	Drive Shaft Adaptor	Delrin
13	Supporting Screw	Aluminium Alloy or SS304
14	Bell Seat	Aluminium Alloy
15	Gong	Aluminium Alloy
16	Bolt	Aluminium Alloy or 1045
17	Support Nut	Aluminium Alloy
18	Striker	Phenolic Resin
19	Bolt	Aluminium Alloy or SS304
20	Joint	Aluminium Alloy
21	Screw Nut	Aluminium Alloy or SS304
22	Gasket	Delrin
23	Supporting Post	Aluminium Alloy or SS304
24	Tag	Paper

FLUID TECH®

AIR RELEASING VALVE NPT THREADED TYPE





Technical Features

Inlet Size: 1"

The inlets of the valves are 1-11 1/2NPT Or R. 1.

the outlets of the valves are 1/2-14NPT Or R. 1/2

Design Standard: in accordance with UL2573/FM1344

Test Standard:Pressure conforms to UL2573 /FM1344

Working Temperature Range: 0~100° C /32-212° F

Working Pressure:175PSI

Test Pressure:Leakage Test 7PSI/263PSI

Strength Test 350PSI

Advantages:This valve can ensure the excellent leak tightness and good venting capabilities under the rate working pressure

Application:Use in wet pipe sprinkler systems, or with horizontal split case pumps

Connections for Installation

The inlet connections shall be made using the external threads of tapered pipe thread 1-11 1/2NPT conforming to the standard ASME B 1.20.1-2013, and the outlet connections shall be made using the external threads of tapered pipe thread1/2-14NPT conforming to the standard ASME B 1.20.1-2013

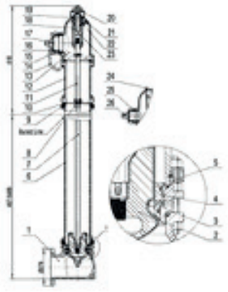
The inlet connections shall be made using the external threads of tapered pipe thread Rc 1 conform to the standard ISO7-1-1994,and the outlet connections shall be made using the extemal threads of tapered pipe thread Rc 1/2 conforming to the standard ISO 7-1-1994.

Valve Material List

S/N	Description of Parts	Materials
1	Valve Body	Ductile Iron
2	Filter Screen	SS316
3	Gasket Ring	Carbon Steel
4	Bonnet	Ductile Iron
5	Yoke	SS316
6	Valve Seat	SS316
7	Bolt	SS316
8	Valve Shaft	SS316
9	E Type Retainer Ring	SS304
10	Ball	SS316
11	Large Protective Cover	Plastic
12	Lever	SS316
13	Poppet	EPDM
14	Spring Washer	SS316
15	Hex Socket Head Bolt	SS304
16	Asbestos-free Gasket	CN-705
17	Spring Washer	Carbon Steel
18	Bolt	Carbon Steel
19	Plug	Ductile Iron
20	Small Protective Cover	Plastic

DRY BARREL HYDRANT





Technical data

Type: Dry barrel fire hydrant
Working pressure: Standard fire service pressure rating
Material: Ductile iron body, corrosion-resistant coating
Inlet connection: Flange / Threaded connection
Outlet connection: Multiple fire hose outlets with cap
Operating temperature: Suitable for freezing climate
Drainage system: Automatic internal drainage to prevent frost cracking
Design standard: Fire protection industry standard specification

Connections for Installation

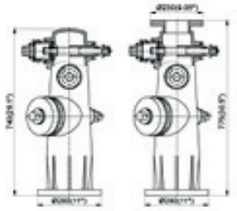
1.Underground inlet pipe connect with hydrant base flange firmly, ensure sealing without leakage.
2.Install isolation valve on water supply pipeline for maintenance and cut-off control.
3.Keep pipeline gradient reasonable to avoid water accumulation.
4.Fix hydrant vertically on concrete foundation, keep stable and upright.
5.All outlet nozzles keep sealed with original caps before use.
6.Check drainage function after installation to ensure no frost damage in winter.

Valve Material List

NO.	Name of parts	Material
1	Base	Ductile Iron ASTM A536
2	Base Vlave Disc	EPDM, Encapsulated Ductile Iron
3	Base Vlave Flange	Ductile Iron ASTM A536
4	Drain Ring	Bronze ASTM B62 C83600
5	Valve Seat Ring	Bronze ASTM B62 C83600
6	Lower Barrel	Ductile Iron ASTM A536
7	Lower Stem Rod	Carbon Steel AISI 1045
8	Breakable Stem Rod Coupling	304 Stainless Steel
9	Breakable Flange	Ductile Iron ASTM A536
10	Barrel Gasket	EPDM
11	Upper Stem Rod	Carbon Steel AISI 1045
12	Upper Barrel	Ductile Iron ASTM A536
13	Bonnet	Ductile Iron ASTM A536
14	Chain Set	Electro Zinc Plated Steel
15	4/4.5 Pumper Nozzle	Bronze ASTM B62 C83600
16	4/4.5 Pumper Nozzle Gasket	EPDM
17	4/4.5 Pumper Nozzle Cap	Ductile Iron ASTM A536
18	Operating Nut	Bronze ASTM B62 C83600
19	Thrust Nut	Bronze ASTM B62 C83600
20	Weather shield	Ductile Iron ASTM A536
21	Plug Screw NPT1/8	304 Stainless Steel
22	Anti-Friction Washer	POM
23	Nut	304 Stainless Steel
24	Lock Plate	304 Stainless Steel
25	2.5 Pumper Nozzle	Bronze ASTM B62 C83600
26	2.5 Pumper Nozzle Cap	Ductile Iron ASTM A536

WET HYDRANT MODEL NO. MH-1511 1511A 1512 1512A





Technical Features

Design Standard: AWWA C503
External Thread Standard: NFPA 1963 2.5"-7 5NH / 4"-4NH / 4.5"-4NH
Water Inlet Flange Standard: ASTM B16 5 Class150 6" / DIN2501 PN16 DN150
Maximum Working Pressure:250PSI
Monitor Flange Standard: ASTM B16.5 Class150 4"/ DIN2501 PN16 DN100
Working Temperature Range:0~80° C/32~176° F

General Technical Information

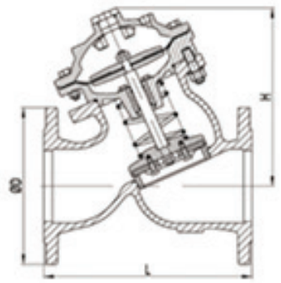
Model Number	Hose Outlet Size	Pumper Nozzle Size	Monitor	Approval
MH-1511	2X2.5"	1X4.5"	N/A	FM/UL
MH-1511A	2X2.5"	1X4.5"	YES	UL
MH-1512	2X2.5"	1X4"	N/A	UL
MH-1512A	2X2.5"	1X4"	YES	UL

Valve Material List

NO	Name	QTY	Material
1	Main Body	1	Ductile iron
2	Nut	3	C954
3	2.5"Bolt	2	SS304/C954
4	4.5"Bolt	1	SS304/C954
5	Stem cap	3	Ductile iron
6	Bolt	3	SS304
7	2.5"Tray	2	Ductile iron/SS304/C954
8	4.5"Tray	1	Ductile iron/SS304/C954
9	2.5"Sealing rubber sheet	2	EPDM
10	4.5"Sealing rubber sheet	1	EPDM
11	2.5"Platen	2	Ductile iron/SS304/C954
12	4.5"Platen	1	Ductile iron/SS304/C954
13	2.5"Outlet	2	C954
14	4 .5"Outlet	1	C954
15	2.5"Outlet cover	2	Ductile iron
16	4.5"Outlet cover	1	Ductile iron
17	2.5"Cover gasket	2	EPDM
18	4.5"Cover gasket	1	EPDM
19	Cotter pin	3	SS304
20	Slotted nut	3	SS304
21	Cover chain		Gr.B

DELUGE VALVE





Technical data

Size: 2"-12"
Working pressure: 300psi
Flange standard: ASME-B16.1 Class125
Temperature range: 0 - 80° C
Body material: Ductile Iron
Trim material: Stainless Steel
End connection: Flanged
Operation type: Diaphragm actuated
Media: Fire water, clean liquid
Sealing material: EPDM
Pressure test: Hydrostatic tested
Application: Fire protection deluge sprinkler system

Name of parts	Material
Body	Ductile iron
Seat Ring	SS304
Gland of Main Dsic	SS304
Main Gasket	EPDM
Main Disc	SS304
Spring	SS420J2
Stem	SS304
Middle Bonnet	Ductile iron
Bushing	Bronze
Bottom Gland	SS304
Diaphragm	EPDN
Up Gland	SS304
Up Bonnet	Ductile iron
Cap Plug	SS304
Bolt	SS304

Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	Φ D	L	H
50	2	300	152	203	170
65	2.5	300	178	216	195
80	3	300	191	241	210
100	4	300	229	292	250
125	5	300	254	330	290
150	6	300	279	356	350
200	8	300	343	495	420
250	10	300	406	622	550
300	12	300	483	698	645

ZSFM DELUGE ALARM VALVE



Purpose

Deluge valve refers to a control valve that reaches automatic water supply by controlling the fire water pipeline and can be opened by electric, hydraulic, pneumatic and mechanical means. The working principle and function of the deluge alarm valve is that it can control the flow of the fire storage water in the fire pipe of the building towards the sprinkler head according to the fire situation. it is a kind of timely and efficient fire valve.General rain deluge alarm valves are designed with hydraulic alarm bell, ball valve, needle valve and pressure switch valve parts.
It is widely applied in various open-type system (open-type sprinkler is installed at the side pipe) such as deluge system, water curtain system and water mist system.

Performance Parameters

Standard: ANSI/BS/GB
Connection: Flange as ANSI B16.1/EN 1092-2
Installation:Vertical
Test: Factory hydro test 350 psi (2.4MPa)
Temperature: 4°C to 70%°C
W. pressure: 175/300 psi (1.21/2.07MPa)
Surface: FBE coating as AWWA C550

Technical parameters

Model	ZSFZM65	ZSFZM80	ZSFZM100	ZSFZM125	ZSFZM150	ZSFZM200	ZSFZM250	ZSFZM300
Norminial diameter(mm)	65	80	100	125	150	200	250	300
Working pressure(MPa)	1.6MPa							
Sealed test(MPa)	3.2MPa							
Strength test(MPa)	6.4MPa							
Flow rate(L/min)	15<Q<60							
Retard alarm time(s)	5-90							
Friction resistance(MPa)	<0.035							

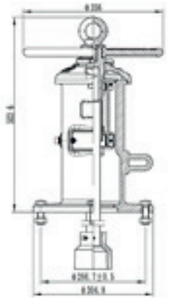
Body	Ductile iron	Cover	Ductile iron
Disc	Ductile iron/brass+EPDM	Stem	SS304/galvanized pipe
Seat	Bronze/Cast iron	Accessories	Standard trim & accessories, Retard chamber Alarm pressure switch, Water motor gong, etc.

Main dimensions(mm)

Model Strength test	Working Pressure(MPa)	Strength test Pressure(MPa)	Strength test Pressure(MPa)	Diametre (mm)	Flange diametre(mm)	Flange screw hole diametre(mm)	Screw hole specification(mm)
ZSFZM65	1.6	3.2	6.4	DN65	185	145	8*18
ZSFZM80				DN80	200	160	
ZSFZM100				DN100	220	180	
ZSFZM125				DN125			
ZSFZM150				DN150	285	240	8*22
ZSFZM200				DN200	340	295	12*22
ZSFZM250				DN250	405	355	12*26
ZSFZM300				DN300	460	410	12*26

WALL INDICATOR POST





Specification

Indicates if the valve is in the open or shut position.
Used to operate a valve installed behind a wall.
With a 12" O.D. post flange to mount on a wall.
Operated by hand wheel.
Can be supplied to open left or right.

Name of parts	Material
Body	Cast iron/Ductile iron
Cover	Cast iron/Ductile iron
Operating Nut	Bronze C83600
Target Carrier Nut	Bronze C83600
OPEN Sign	Cast Aluminium
SHUT Sign	Cast Aluminium
Window Class	Plexiglas
Gasket	EPDM
Plug	Carbon Steel ASTM A105/A105M
Snap Ring	Carbon Steel AISI1066
Eye Bolt	Carbon Steel ASTM A105/A105M
Hand wheel OD356	Ductile iron
Extension Rod	Carbon Steel ASTM A1045
Coupling	Ductile iron
Bolt	Carbon Steel ASTM A105/A105M
Nut	Carbon Steel ASTM A105/A105M
Plain	Carbon Steel ASTM A105/A105M
Lead Ring	
Pin	SS304

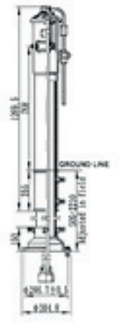
Connections for Installation

Mount the unit firmly onto solid wall surface with expansion bolts.
Keep vertical installation and ensure level alignment.
Run internal signal cable through reserved conduit into the post.
Connect signal wires strictly follow wiring diagram, ensure correct polarity.
Seal cable entry point to prevent dust and moisture ingress.
Fasten all mounting screws tightly and check indicator operation after installation.

FLUID TECH®

VERTICAL INDICATOR POST





Specification

Indicates if the valve is in the open or shut position.
The indicator post provides a means to operate a buried
or other wise inaccessible valve.
The wrench fits over a "U" bracket on the barrel, and may
be fixed with a padlock to secure the operating wrench to
the barrel.
Can be supplied to open left or right.

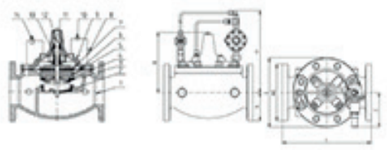
Product Description

Vertical Indicator Post is a fire protection accessory for indicating underground valve status. Made of ductile iron with anti-corrosion finish, it features solid structure and weather resistance. Vertical ground-mounted design enables clear open/closed position display, easy installation and remote visibility. Widely applied in municipal, industrial and fire pipeline systems.

Name of parts	Material
Body	Cast iron/Ductile iron
Cover	Cast iron/Ductile iron
Operating Nut	Bronze C83600
Target Carrier Nut	Bronze C83600
OPEN Sign	Cast Aluminium
SHUT Sign	Cast Aluminium
Window Class	Plexiglas
Gasket	EPDM
Plug	Carbon Steel ASTM A105/A105M
Snap Ring	Carbon Steel AISI1066
Eye Bolt	Carbon Steel ASTM A105/A105M
Wrench	Ductile iron
Extension Rod	Carbon Steel ASTM A1045
Coupling	Ductile iron
Base Flange	Ductile iron
Telescoping Barrel	Carbon Steel ASTM A53
Bolt	Carbon Steel ASTM A105/A105M
Nut	Carbon Steel ASTM A105/A105M
Plain	Carbon Steel ASTM A105/A105M
Lead Ring	
Pin	SS304

PRESSURE REDUCING VALVE



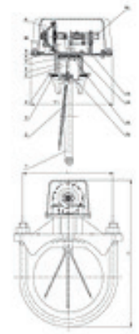


NO.	Name of parts	Material
1	Base	Ductile Iron AS1831 500-7
2	valve seat	Stainless Steel 304
3	Valve plate	Stainless Steel 304
4	seal gasket	EPDM AS1646
5	valve disk	Ductile Iron AS1831 500-7
6	diaphragm	EPDM+Nylon
7	Diaphragm plate	Ductile Iron AS1831 500-7
8	Filter	Stainless Steel 304
9	Valve cover	Ductile Iron AS1831 500-7
10	Needle	Stainless Steel 304
11	Guiding plug	Stainless Steel 304
12	Valve shaft	Stainless Steel 304
13	Spring	Stainless Steel 304
14	Pilot-Relief valve	Stainless Steel 304

Dimensions		Pressure rating	Size(mm)						
DN	inch	psi	Φ D	L	H	A	B	C	E
50	2	300	152	230	294	82.5	152	155	134
65	2-1/2	300	178	290	298	92.5	170	190	134
80	3	300	191	310	310	100	197	233	134
100	4	300	229	360	320	110	234	270	134
150	6	300	279	500	352	158	311	378	134
200	8	300	343	610	382	190	377	496	134

WATER FLOW SWITCH&VANE-TYPE WATERFLOW INDICATOR





Technical Features

Size:DN50-DN250/2"-10"
Working Pressure:450PS1 & 300PS
Sensitivity:
FM: 1.No-alarm flow ≤ 15L/min
2.Alam fow >15L/min, ≤ 75L/min
UL: 1.No-alarm flow ≤ 15L/min
Alarm flow >15L/min, ≤ 37.5L/min
Capacity of Switch Contacts:
AC 1251250V 8A
DC 24V 3A
DC 30V 2.5A
Working Temperature Range:0~49° C/32~120.2° F
Steel Pipe:SCH10-40
0-90 Seconds Field Replaceable Retard

Technical Information

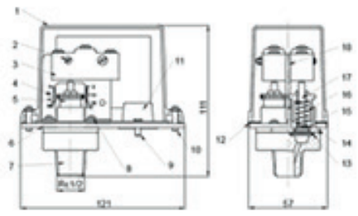
I.Overview
The vane type water flow switch use in wet pipe systems only
Water flow in the pipe deflects a vane, which produces a switched
output usually after a specified delay
II.Main Components
ZSJZ series water flow indicator is mainly composed of the saddle
blade rack,bottom plate, outer cover, Air delay device micro-switch,
junction box.etc.
The main outline drawing is shown in Figure 1 Qutline Drawing
Main dimensions of water flow indicator are shown in Table 1
Materials of the main components are shown in Table 2

Dimensions

Size	Nominal Pipe Size OD.(mm)	L(mm)	M(mm)
2"	60.3	85	188
2.5"	73/76.1	92	200
3"	88.91	106	220
4"	14.3	134	245
5"	141.3 / 139.7	162	272
6"	168.3/165.1	189.5	298
8"	219.1/216.3	240	350
10"	273	293	405

PRESSURE SWITCH





Technical Features

Dimension:121mm(4 3/4")*57mm(2 1/4")*111mm(4 3/8")
Wiring Inlet Size: 1/2" NPT
Differential Pressure Setting: 1 PSI (cannot be adjusted after consignment)
Maximum Working Pressure: 300PSI
Switch Contact: double SPDT
Contact Capacity: 15 Amps under 125/250 VAC, 2.5 Amps under 30 VDC
Dust Proof and Waterproof Lever: IP66
Working Temperature Range:-40~60° C/-40~140° F
Tamper proof fasteners on outer cover

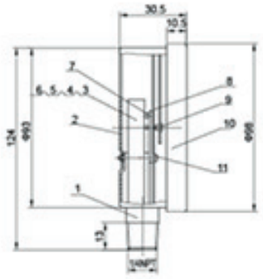
Technical Specifications

NO	Name	QTY	Material
1	Outer Cover	1	YZAlSi11Cu3
2	Bolt	2	Q235
3	2-Micro Switch	2	Assembly
4	Calibration Sticker	1	PET
5	Regulating Screw	1	Reinforced Nylon
6	Base	1	Q235
7	Joint	1	Reinforced Nylon
8	Galvanized Inner Plum Tapping Screw	2	20Mn
9	Green Slotted Screw with Hexagon Head	1	Q235
10	Tamper-proofing Screw	2	D667
11	incoming Line Coil	1	PE-LD
12	Gasket Seal	1	EPDM
13	Diaphragm	2	EPDM
14	Connecting Base	1	Reinforced Nylon
15	Flat Washer	2	06Cr18Ni11Ti
16	Regulating Spring	2	60Si2MnA
17	Pushrod	2	Reinforced Nylon
18	Bracket	1	Q235

FLUID TECH®

PRESSURE GAUGE





Technical Features

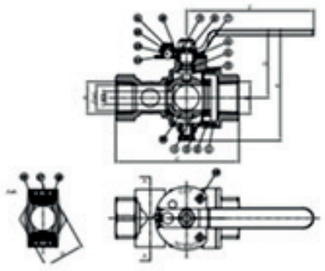
Pressure Gauge for Fire Protection system
Designed and manufactured in accordance with FM2311
Test Standard: FM2311
Working Temperature Range: 0~80° C/ 32~176° F
Wiring Inlet Size: 1/4" NPT
Nominal Pressure: 0-300PSI, Model No.PFE-00B
0-600PS1. Model No.PFE-00A
Approvals:FM approved

Technical Specifications

NO	Name	Material
1	Base	HPb59-1
2	Watchcase	1008
3	Spring pipe	Qsn0.8-2
4	Rivet	HPb59-1
5	Connecting rod	H62
6	Free end	H62
7	inner core combination	HPb59-1
8	Dial plate	HPb59-1
9	Pointer component	Al
10	Watchcase	PC
11	Rivet column	HPb59-1

TEST& DRAIN VALVE





Technical Features

HC-125-STR
Positive positioning of handle
for OFF, TEST. Or DRAIN
Only2 threaded connections
Large,integral sight glass on
both sides
½"(nominal)test orifce

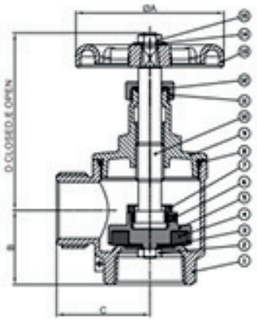
A/B (Orifice)	Orifice	Port	A	B	C	D	H
1"	1/2"	1.024"	100	48	58	123	145
1-1/4"	1/2"	1.024"	127	67	77	165	20
2"	1/2"	1.575"	6.57'	3.5"	6.34"	5.8"	2.28"

NO	DESCRIPTION	MATERIALS	NO	DESCRIPTION	MATERIALS
1	BODY	C37700	11	CAP	C37700
2	BODY CAP	C37700	12	SPRING	SST304
3	SEAT	PTFE	13	STEEL BALL	SST304
4	BALL	C37700	14	INDICATOR PLATE	STEEL
5	STEM	C37700	15	PLUG	C37700
6	O-RING	NBR	16	WASHER	NBR
7	LEVER	STEEL	17	STGHT GLASS	LEXAN
8	NUT	STEEL	18	RETAININGRG	C37700
9	GLAND PACKING	PTFE	19	STOP SCREW	SST304
10	GLAND	C37700			

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ANGLE HOSE VALVE F&M





Technical Features

HC-101(DWG.J281)
ANGLE HOSE VALVE
300lb.RATED
Used with a Fire Hose Rack Assembly
Or as a Fire Dept. outlet connection
FEMALE XMALE

Standard equipment:
Female NPT inlet x male hose thread
Outlet forge brass valve
Red hand wheel.

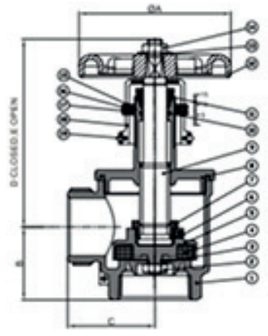
Optional Finishes:
PB-Polished Brass
RC-Rough Chrome Plated
PC-Polished Chrome Plated

	A	B	C	D	E
1 1/2"*1 1/2	100	50	63	119	145
2 1/2"*2 1/2	127	68	79	157	200

NO	DESCRIPTION	MATERIALS	NO	DESCRIPTION	MATERIALS
1	BODY	ASTM B283 C37700	9	BONNET	ASTM B283 C37700
2	NUT	ASTM B283 C37700	10	STEM	ASTM B283 C37700
3	WASHER	304	11	LOCK NUT	ASTM B283 C37700
4	SEAT SEAL	EPDM(A70)	12	O-RING	EPDM(A70)
5	HOLDER	ASTM B283 C37700	13	HANDLE WHEEL	ZL102
6	SET SCREW	304	14	WHEELWASHER	304
7	LOCK NUT	ASTM B283 C37700	15	WHEEL NUT	ASTM B283 C37700
8	O-RING	EPDM(A70)			

PRESSURE REDUCING DEVICE ANGLE VALVE





Technical Features

HC-103(DWG.J282)
Pressure Reducing Device Angle Valve
175 Lb. Rated Adjustable restriction of residual pressure up to 175 lb. Locking pin device restricts full opening of valve by untrained personnel, pin may be removed by firefighters to allow full opening of valve.
FEMALE x MALE

Standard equipment:
Female NPT inlet x male hose thread outlet forged brass valve Red hand wheel

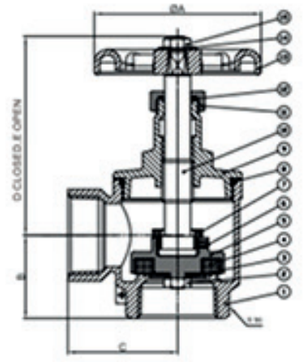
Optional Finishes:
PB-Polished Brass
RC-Rough Chrome Plated
PC-Polished Chrome Plated

	A	B	C	D	E
1 1/2"*1 1/2	100	48	58	123	145
2 1/2"*2 1/2	127	67	77	165	20

NO	DESCRIPTION	MATERIALS	NO	DESCRIPTION	MATERIALS
1	BODY	ASTM B283 C37700	11	LOCK NUT	ASTM B283 C37700
2	NUT	ASTM B283 C37700	12	HANDLE WHEEL	ZL102
3	WASHER	304	13	WHEEL WASHER	304
4	SEAT SEAL	EPDM(A70)	14	WHEEL NUT	ASTM B283 C37700
5	HOLDER	ASTM B283 C37700	15	COLLAR	ASTM B283 C37700
6	SET SCREW	304	16	WASHER	PA6
7	LOCK NUT	ASTM B283 C37700	17	SET SCREW	304
8	BONNET	ASTM B283 C37700	18	SETNUMBERS	ASTM B283 C37700
9	STEM	ASTM B283 C37700	19	WIRE	304
10	ORING	EPDM(A70)			

ANGLE HOSE VALVE F&F





Technical Features

HC-102(DWG.J281)
ANGLE HOSE VALVE
300lb.RATED
Used with a Fire Hose Rack Assembly
Or as a Fire Dept. outlet connection
DOUBLE FEMALE

Standard equipment:
Female NPT inlet and outlet forge brass valve
Red hand wheel.

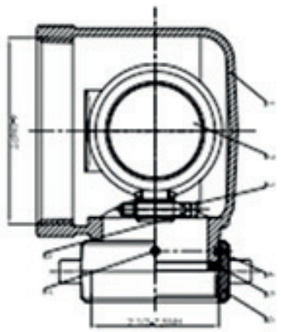
Optional Finishes:
PB-Polished Brass
RC-Rough Chrome Plated
PC-Polished Chrome Plated

	A	B	C	D	E
1 1/2"*1 1/2	100	50	66	119	145
2 1/2"*2 1/2	127	68	84	157	200

NO	DESCRIPTION	MATERIALS	NO	DESCRIPTION	MATERIALS
1	BODY	ASTM B283 C37700	9	BONNET	ASTM B283 C37700
2	NUT	ASTM B283 C37700	10	STEM	ASTM B283 C37700
3	WASHER	304	11	LOCK NUT	ASTM B283 C37700
4	SEAT SEAL	EPDM(A70)	12	O-RING	EPDM(A70)
5	HOLDER	C37700	13	HANDLE WHEEL	ZL102
6	SET SCREW	304	14	WHEEL WASHER	304
7	LOCK NUT	ASTM B283 C37700	15	WHEEL NUT	ASTM B283 C37700
8	O-RING	EPDM(A70)			

FIRE DEPARTMENT CONNECTION





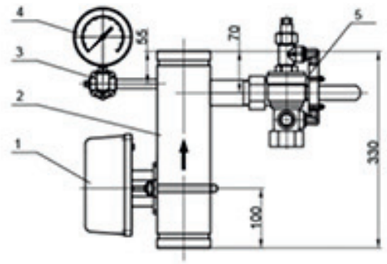
Technical Features

HC-126-SET
Fire Department Connection
Angle Body, with caps & chain and plate
Rated to 300PSISize 4"x2-1/2"x2-1/2"
UL listed and FM approval

NO	DESCRIPTION	MATERIALS	NO	DESCRIPTION	MATERIALS
1	BODY	C37700	8	O-ring	EPDM(A70+50)
2	CLAPPER	C37700			
3	HINGE PIN	C37700			
4	BALL BEARING	SST304			
5	SEALING	EPDM(A70+5)			
6	COUPLING	C37700			
7	SCREW	C46500/SST304			

RISER MANIFOLD (COMMERCIAL AND RESIDENTIAL) MODEL ZCV-A





The riser manifold ZCV.A is designed to serve as the central connection point between the water supply and the fire sprinkler piping. It integrates various components to control, monitor, and test the system.

Product Features

Compact, light weight design
Space Efficiency
Schedule 40 welded body (2" through 8")
Vertical or horizontal installation
Grooved components enable universal application
Assembled with FM&UL Approved components

Technical Features

Size: DN50-DN200 /2"-8"
Thread standard: NPT
Groove standard: AWWA C606
Maximum Working pressure: 300 PSI
Working Tempreature:4-70° C

Applications in Fire Protection

Commercial Buildings: Office buildings, shopping malls, and warehouses use this assembly to ensure a reliable and compact fire protection solution.
Residential High-Rises: It is used in multi-family residences to maintain compact sprinkler riser configurations
Industrial Facilities: Ideal for facilities with limited space but a need for robust fire protection systems

Product Description

The Riser Manifold ZCV-A is an assembled unit complete with water flow switch, pressure gauge, and test&drain as a cost-effective system riser or floor control assembly.
Test and Drain Valve installed on the riser manifold provides a simplified means for testing of water flow alarm devices and draining for feed mains. Moreover, test and drain valve reduces the risk of leaks with robust, globe-style design and offers integrated pressure relief, which has an adjustable range of 175 psi to 310 psi. Excess system pressure is exhausted internally through the valve's drain outlet.

RISER MANIFOLD (COMMERCIAL AND RESIDENTIAL) MODEL ZCV-A

Dimensions

Valve Size	End Connections	Material	End to End Take Out	Drain Size
2"(50mm)	Threaded/Grooved	Schedule 40 Steel	210mm/330mm	1"(25mm)
2-½(65mm)	Grooved	Schedule 40 Steel	330mm	1-¼(32mm)
3"(80mm)	Grooved	Schedule 40 Steel	330mm	1-¼"(32mm)
4"(100mm)	Grooved	Schedule 40 Steel	330mm	2"(50mm)
6"(150mm)	Grooved	Schedule 40 Steel	330mm	2"(50mm)
8"(200mm)	Grooved	Schedule 40 Steel	330mm	2"(50mm)

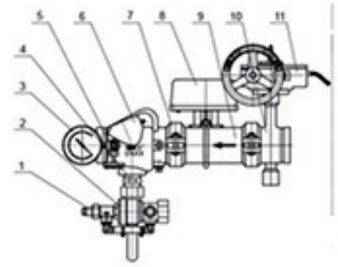
Structure Character

NO.	Name	Material	QTY
1	Water Flow Switch	Spare Parts Of Water Flow Switch	1
2	Connection Pipe	Steel/ss304	1
3	Three-way Valve	Spare Parts Of Three-way Valve	1
4	Pressure Gauge	Spare Parts Of Gauge	1
5	Test&drain Valve	Spare Parts Of Test&drain Valve	1

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RISER MANIFOLD (COMMERCIAL AND RESIDENTIAL) MODEL ZCV-B





The riser manifold ZCV-B is designed primarily for use as a floor or zone control assembly in NFPA 13 or 13R applications. t can also function as a conventional wet system riser.

Product Features

Compact, light weight design
Space Efficiency
Schedule 40 welded body (2" through 8")
Vertical or horizontal installation
Grooved components enable universal application
Assembled with FM&UL Approved components

Technical Features

Size: DN50-DN200 /2"-8"
Thread standard: NPT
Groove standard: AWWA C606
Maximum Working pressure: 300 PSI
Working Tempreature:4-70° C

Applications in Fire Protection

Commercial Buildings: Office buildings, shopping malls, and warehouses use this assembly to ensure a reliable and compact fire protection solution.
Residential High-Rises: It is used in multi-family residences to maintain compact sprinkler riser configurations
Industrial Facilities: Ideal for facilities with limited space but a need for robust fire protection systems

Product Description

The Riser Manifold ZCV-B is assembled with butterfly valve, check valve, water flow switch, pressure gauge, and test&drain as a costeffective system riser or floor control assembly.
Test and Drain Valve installed on the riser manifold provides a simplified means for testing of water flow alarm devices and draining for feed mains. Moreover, test and drain valve reduces the risk of leaks with robust, globe-style design and offers integrated pressure relief, which has an adjustable range of 175 psi to 310 psi. Excess system pressure is exhausted internally through the valve's drain outlet.

RISER MANIFOLD (COMMERCIAL AND RESIDENTIAL) MODEL ZCV-B

Dimensions

Valve Size	End Connections	Material	End to End Take Out	Drain Size
2"(50mm)	Threaded/Grooved	Schedule 40 Steel	210mm	1"(25mm)
2-½(65mm)	Grooved	Schedule 40 Steel	200mm	1-¼(32mm)
3"(80mm)	Grooved	Schedule 40 Steel	200mm	1-¼"(32mm)
4"(100mm)	Grooved	Schedule 40 Steel	240mm	2"(50mm)
6"(150mm)	Grooved	Schedule 40 Steel	250mm	2"(50mm)
8"(200mm)	Grooved	Schedule 40 Steel	330mm	2"(50mm)

Structure Character

NO.	Name	Material	QTY
1	Pressure Relief Valve	Spare Parts of Pressure Relief Valve	1
2	Test&drain Valve	Spare Parts of Test&drain Valve	1
3	Pressure Gauge	Spare Parts of Gauge	1
4	Connector	SS304	1
5	Three-way Valve	Spare Parts of Three-way Valve	1
6	Groove Check Valve	Spare Parts of Check Valve	1
7	Groove Coupling	Spare Parts of Groove Coupling	1
8	Water Flow Switch	Spare Parts of Water Flow Switch	1
9	Connection Pipe	Steel/SS304Spare Parts of Butterfly Valve	1
10	Groove Butterfly Valve	Spare Parts of Gear Box	1
11	Signal Gear Box	Spare Parts of Pressure Relief Valve	1