



FIRE PROTECTION



PRODUCT CATALOGUE

www.galaxyvalves.com



GALAXY

Make Fluid Control to be Adaptive And Energy Efficient

WHO WE ARE

TIANJIN GALAXY VALVE CO.,LTD established in 2003 in TIANJIN, CHINA, has now become an outstanding manufacturer devoted to providing innovative and reliable system solutions in diversified markets, like Fire Protection, Data Center, HVAC, Waterworks, Marine, etc.

With our customized design, larger than 50-acre production-facility, more than 600 employees, we are ready to take part in global cooperation and competition in a larger scale and deeper extent.

Now, Galaxy proudly operates from two facilities in Tianjin China and Rayong, Thailand.

OUR VISION

"Quality First, Brand Ascends to Glory." Through our unwavering commitment and continuous improvement, we aspire to be your foremost and most trusted choice. Furthermore, it would be a source of immense pride for us if we could contribute to making your work more energy-efficient and help make the world a slightly better place.



GLOBAL PRESENCE

2



Production Facility

70+

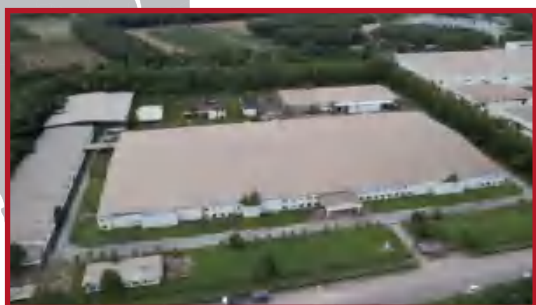
Countries & Regions
Galaxy Products Sold

Galaxy proudly operates from two facilities in Tianjin China and Rayong, Thailand.

GALAXY CHINA



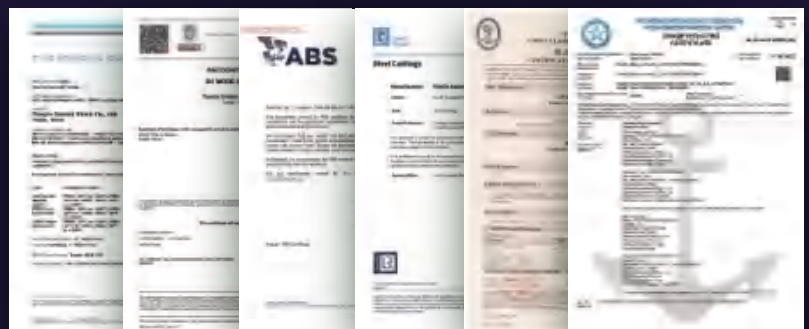
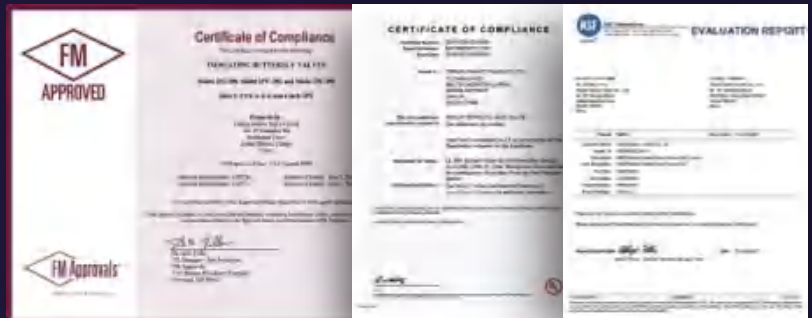
GALAXY THAILAND



CERTIFICATES

Product quality is the foundation of an enterprise's survival. GALAXY insists on winning by quality, and constantly strive to provide world class products that are far higher than market standards for HVAC, waterworks, marine, and fire protection application.

At present, the company has passed the ISO 9001 quality system certification, ISO 45001 occupational health and safety management system, ISO 14001 environmental management system certification, and has obtained approval and certification from various authoritative organizations to ensure the applicability of products and the reliability of subsequent services.



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Dubai Sports City

Make fluid control to be adaptive and energy efficient

01

GATE VALVE & INDICATOR POST



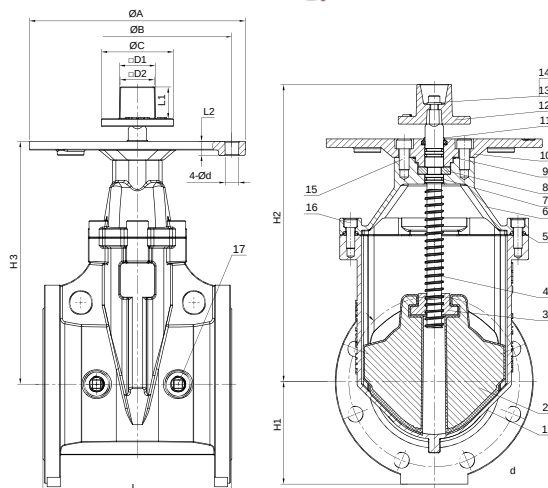
Gate Valve Resilient Seated NRS Type-Flanged-Ends

■ Fig.345PFF



Technical Specification

- Valve Standard FM1120/1130, UL262 / CUL262
- Working Pressure 365PSI
- Working Temperature 4°C ~ 70°C
- Connection Ends ANSI CLASS125 / ANSI CLASS150 / EN 1092-2 PN16



Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
3	Disc Nut	Bronze	ASTM B62 C83600
4	Stem	Stainless Steel	SS304
5	Sealing Gasket	EPDM	--
6	Bonnet	Ductile Iron	ASTM A536 65-45-12
7	O-Ring	EPDM	--
8	Split Ring	Bronze	ASTM B62 C83600
9	O-Ring	EPDM	--
10	Post Flange	Ductile Iron	ASTM A536 65-45-12
11	Dust Cover	EPDM	--
12	Square Head	Ductile Iron	ASTM A536 65-45-12
13	Screw	Carbon Steel	8.8
14	Flat Washer	Carbon Steel Galvanizing	--
15	Screw	Carbon Steel	8.8
16	Screw	Carbon Steel	12.9
17	Square Plug	Stainless Steel	SS304

Dimension

DN	INCH	φA	φB	φC	□D1	□D2	L mm	L1 mm	L2 mm	H1 mm	H2 mm	H3 mm	4-φd
50	2"	φ305	φ267	φ102	51.00	49.00	178.00	45.00	18.00	88.00	263.00	197.00	4-φ19
65	2½"	φ305	φ267	φ102	51.00	49.00	191.00	45.00	18.00	95.00	263.00	196.50	4-φ19
80	3"	φ305	φ267	φ102	51.00	49.00	203.00	45.00	18.00	100.00	293.00	224.00	4-φ19
100	4"	φ305	φ267	φ102	51.00	49.00	229.00	45.00	18.00	120.00	325.50	251.00	4-φ19
125	5"	φ305	φ267	φ102	51.00	49.00	254.00	45.00	19.50	132.50	420.00	343.00	4-φ19
150	6"	φ305	φ267	φ102	51.00	49.00	267.00	45.00	19.50	145.00	420.00	343.00	4-φ19
200	8"	φ305	φ267	φ102	51.00	49.00	292.00	45.00	18.00	175.00	506.00	422.50	4-φ19
250	10"	φ305	φ267	φ102	51.00	49.00	330.00	45.00	18.00	207.50	610.00	534.00	4-φ19
300	12"	φ305	φ267	φ102	51.00	49.00	356.00	45.00	19.50	247.50	711.00	613.00	4-φ19

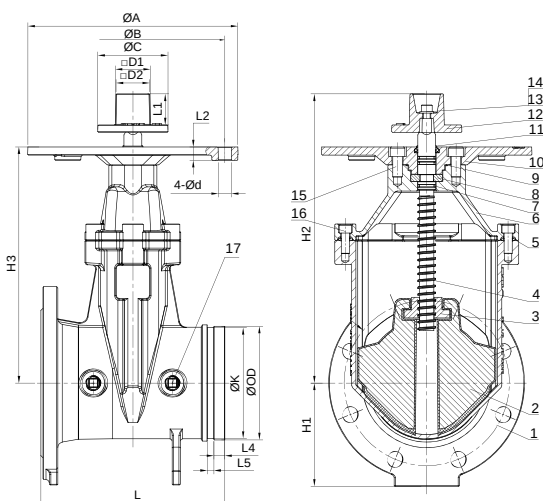
Gate Valve Resilient Seated NRS Type-Flange-Groove-Ends

■ Fig.345PFG



Technical Specification

- Valve Standard FM1120/1130, UL262 / CUL262
- Working Pressure 365PSI
- Working Temperature 4°C ~ 70°C
- Connection Ends ANSI CLASS125 / ANSI CLASS150 / EN 1092-2 PN16 / AWWA C 606



Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
3	Disc Nut	Bronze	ASTM B62 C83600
4	Stem	Stainless Steel	SS304
5	Sealing Gasket	EPDM	--
6	Bonnet	Ductile Iron	ASTM A536 65-45-12
7	O-Ring	EPDM	--
8	Split Ring	Bronze	ASTM B62 C83600
9	O-Ring	EPDM	--
10	Post Flange	Ductile Iron	ASTM A536 65-45-12
11	Dust Cover	EPDM	--
12	Square Head	Ductile Iron	ASTM A536 65-45-12
13	Screw	Carbon Steel	8.8
14	Flat Washer	Carbon Steel Galvanizing	--
15	Screw	Carbon Steel	8.8
16	Screw	Carbon Steel	12.9
17	Square Plug	Stainless Steel	SS304

Dimension

DN	INCH	AWWA C606/VDS		φA	φB	□D1	□D2	L mm	L1 mm	L2 mm	L4 mm	L5 mm	H1 mm	H2 mm	H3 mm
		φOD	φK												
50	2"	φ60.30	φ57.15	φ305	φ267	51	49	178	45	18.0	15.88	7.93	86	263.0	197.0
65	2½"	φ73.00	φ69.09	φ305	φ267	51	49	191	45	18.0	15.88	7.93	95	263.0	196.5
80	3"	φ89.00	φ85.00	φ305	φ267	51	49	203	45	18.0	15.88	7.93	105	293.0	224.0
100	4"	φ114.30	φ110.08	φ305	φ267	51	49	229	45	18.0	15.88	9.53	120	325.5	251.0
125	5"	φ141.30	φ137.00	φ305	φ267	51	49	254	45	19.5	15.90	9.50	133	420.0	343.0
150	6"	φ168.30	φ164.00	φ305	φ267	51	49	267	45	19.5	15.88	9.53	148	420.0	343.0
200	8"	φ219.10	φ214.10	φ305	φ267	51	49	292	45	18.0	19.00	12.00	176	506.0	422.5
250	10"	φ273.00	φ268.00	φ305	φ267	51	49	330	45	18.0	19.00	12.70	208	610.0	534.0
300	12"	φ323.90	φ317.90	φ305	φ267	51	49	356	45	19.5	19.00	12.70	246	711.0	613.0

Gate Valve Resilient Seated NRS Type-Groove-Groove-Ends

■ Fig.345PGG

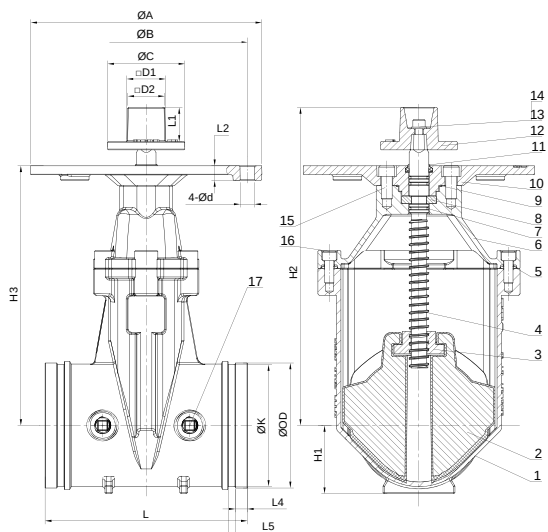


Technical Specification

- Valve Standard FM1120/1130, UL262 / CUL262
- Working Pressure 365PSI
- Working Temperature 4°C ~ 70°C
- Connection Ends AWWA C 606

Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
3	Disc Nut	Bronze	ASTM B62 C83600
4	Stem	Stainless Steel	SS304
5	Sealing Gasket	EPDM	--
6	Bonnet	Ductile Iron	ASTM A536 65-45-12
7	O-Ring	EPDM	--
8	Split Ring	Bronze	ASTM B62 C83600
9	O-Ring	EPDM	--
10	Post Flange	Ductile Iron	ASTM A536 65-45-12
11	Dust Cover	EPDM	--
12	Square Head	Ductile Iron	ASTM A536 65-45-12
13	Screw	Carbon Steel	8.8
14	Flat Washer	Carbon Steel Galvanizing	--
15	Screw	Carbon Steel	8.8
16	Screw	Carbon Steel	12.9
17	Square Plug	Stainless Steel	SS304



Dimension

DN	INCH	ΦA	ΦB	ΦC	□D1	□D2	AWWA C606		L mm	L1 mm	L2 mm	L4 mm	L5 mm	H1 mm	H2 mm	H3 mm	4-Φd
							ΦK	ΦOD									
50	2"	Φ305	Φ267	Φ102	51	49	Φ57.15	Φ60.3	178	45	18.0	15.88	7.93	43.0	263.0	197.0	4-Φ19
65	2½"	Φ305	Φ267	Φ102	51	49	Φ69.09	Φ73.0	191	45	18.0	15.88	7.93	43.0	263.0	196.5	4-Φ19
80	3"	Φ305	Φ267	Φ102	51	49	Φ84.94	Φ88.9	203	45	18.0	15.88	7.93	51.0	293.0	224.0	4-Φ19
100	4"	Φ305	Φ267	Φ102	51	49	Φ110.08	Φ114.3	229	45	18.0	15.88	9.53	61.0	325.5	251.0	4-Φ19
125	5"	Φ305	Φ267	Φ102	51	49	Φ137.00	Φ141.3	254	45	19.5	15.90	9.50	86.0	420.0	343.0	4-Φ19
150	6"	Φ305	Φ267	Φ102	51	49	Φ164.00	Φ168.3	267	45	19.5	15.88	9.53	90.0	420.0	343.0	4-Φ19
200	8"	Φ305	Φ267	Φ102	51	49	Φ214.10	Φ219.1	292	45	18.0	19.00	12.00	112.5	506.0	422.5	4-Φ19
250	10"	Φ305	Φ267	Φ102	51	49	Φ268.00	Φ273.0	330	45	18.0	19.00	12.70	156.5	610.0	534.0	4-Φ19
300	12"	Φ305	Φ267	Φ102	51	49	Φ317.90	Φ323.9	356	45	19.5	19.00	12.70	183.5	711.0	613.0	4-Φ19

Gate Valve Resilient Seated NRS Type-MJ-MJ Ends

■ Fig.345PJ

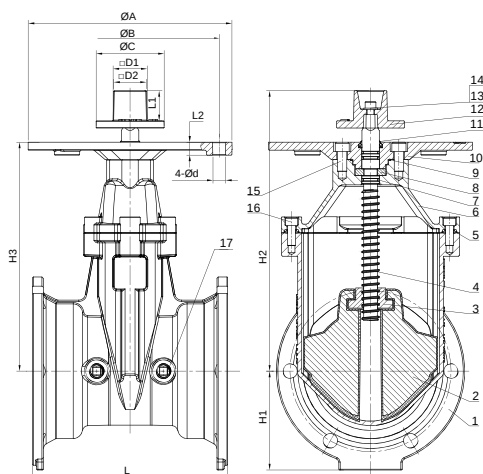


Technical Specification

• Valve Standard	FM1120/1130, UL262 / CUL262
• Working Pressure	365PSI
• Working Temperature	4°C ~ 70°C
• Connection Ends	ANSI / AWWA C111 / A21.11-00

Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
3	Disc Nut	Bronze	ASTM B62 C83600
4	Stem	Stainless Steel	SS304
5	Sealing Gasket	EPDM	--
6	Bonnet	Ductile Iron	ASTM A536 65-45-12
7	O-Ring	EPDM	--
8	Split Ring	Bronze	ASTM B62 C83600
9	O-Ring	EPDM	--
10	Post Flange	Ductile Iron	ASTM A536 65-45-12
11	Dust Cover	EPDM	--
12	Square Head	Ductile Iron	ASTM A536 65-45-12
13	Screw	Carbon Steel	8.8
14	Flat Washer	Carbon Steel Galvanizing	--
15	Screw	Carbon Steel	8.8
16	Screw	Carbon Steel	12.9
17	Square Plug	Stainless Steel	SS304



Dimension

DN	INCH	φA	φB	φC	□D1	□D2	L mm	L1 mm	L2 mm	H1 mm	H2 mm	H3 mm	4-φd
80	3"	φ305	φ267	φ102	51	49	241	45	18.0	105.0	293.0	224.0	4-φ19
100	4"	φ305	φ267	φ102	51	49	254	45	18.0	120.0	325.5	251.0	4-φ19
150	6"	φ305	φ267	φ102	51	49	292	45	19.5	148.0	420.0	343.0	4-φ19
200	8"	φ305	φ267	φ102	51	49	318	45	18.0	172.5	506.0	422.5	4-φ19
250	10"	φ305	φ267	φ102	51	49	375	45	18.0	204.5	610.0	534.0	4-φ19
300	12"	φ305	φ267	φ102	51	49	378	45	20.0	232.0	711.0	613.0	4-φ19

Gate Valve Resilient Seated NRS Type-Flanged-MJ Ends

■ Fig.345PFJ

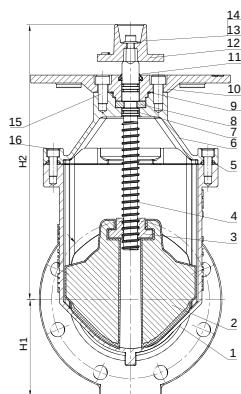
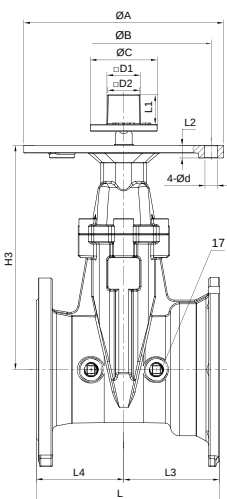


Technical Specification

• Valve Standard	FM1120/1130, UL262 / CUL262
• Working Pressure	365PSI
• Working Temperature	4°C ~ 70°C
• Connection Ends	ANSI 125 / ANSI 150 / EN 1092-2 PN16 / ANSI / AWWA C 111 / A21.11-00

Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
3	Stem Nut	Bronze	ASTM B62 C83600
4	Stem	Stainless Steel	SS304
5	Sealing Gasket	EPDM	--
6	Bonnet	Ductile Iron	ASTM A536 65-45-12
7	O-Ring	EPDM	--
8	Split Ring	Bronze	ASTM B62 C83600
9	O-Ring	EPDM	--
10	Post Flange	Ductile Iron	ASTM A536 65-45-12
11	Dust Cover	EPDM	--
12	Square Head	Ductile Iron	ASTM A536 65-45-12
13	Screw	Carbon Steel	8.8
14	Flat Washer	Carbon Steel Galvanizing	--
15	Screw	Carbon Steel	8.8
16	Screw	Carbon Steel	12.9
17	Square Plug	Stainless Steel	SS304

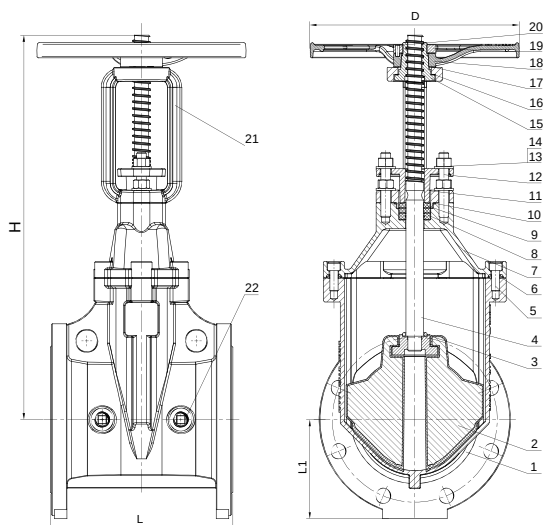


Dimension

DN	INCH	ΦA	ΦB	ΦC	□D1	□D2	L mm	L1 mm	L2 mm	L4 mm	L3 mm	H1 mm	H2 mm	H3 mm	4-Φd
80	3"	Φ305	Φ267	Φ102	51	49	222.0	45	18.0	101.5	120.5	105.0	293.0	224.0	4-Φ19
100	4"	Φ305	Φ267	Φ102	51	49	242.0	45	18.0	114.5	127.0	120.0	325.5	251.0	4-Φ19
150	6"	Φ305	Φ267	Φ102	51	49	279.5	45	19.5	133.5	146.0	148.0	420.0	343.0	4-Φ19
200	8"	Φ305	Φ267	Φ102	51	49	305.0	45	18.0	146.0	159.0	176.0	506.0	422.5	4-Φ19
250	10"	Φ305	Φ267	Φ102	51	49	352.5	45	18.0	165.0	187.5	204.5	610.0	534.0	4-Φ19
300	12"	Φ305	Φ267	Φ102	51	49	367.0	45	19.5	178.0	189.0	247.0	711.0	613.0	4-Φ19

Gate Valve Resilient Seated OS&Y Type-Flanged Ends

■ Fig.341FF



Technical Specification

- Valve Standard FM1120/1130, UL262 / CUL262
- Working Pressure 365PSI
- Working Temperature 4°C ~ 70°C
- Connection Ends ANSI CLASS125 / ANSI CLASS150 / EN 1092-2 PN16

Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
3	O-Ring	EPDM	--
4	Stem	Stainless Steel	SS304
5	Screw	Carbon Steel	12.9
6	Sealing Gasket	EPDM	--
7	Bonnet	Ductile Iron	ASTM A536 65-45-12
8	Sealing Ring	EPDM	--
9	Packing	PTFE	--
10	O-Ring	EPDM	--
11	Gland	Ductile Iron	ASTM A536 65-45-12
12	Stud	Stainless Steel	SS304
13	Flat Washer	Stainless Steel	SS304
14	Nut	Stainless Steel	SS304
15	Stem Nut	Bronze	ASTM B62
16	Gasket	Steel	ASTM B16
17	Gasket	Steel	ASTM B16
18	Handwheel	Ductile Iron	ASTM A536 65-45-12
19	Lock Nut	Stainless Steel	ASTM A351 CF8
20	Lock Screw	Stainless Steel	SS304
21	Bracket	Ductile Iron	ASTM A536 65-45-12
22	Square Plug	Stainless Steel	SS304

Dimension

DN	INCH	L mm	D mm	L1 mm	H (Close)	H (Open)
50	2"	178	160	88.0	341.0	409
65	2½"	191	160	95.0	341.0	409
80	3"	203	220	100.0	379.0	463
100	4"	229	220	120.0	420.0	522
125	5"	254	280	132.5	562.0	715
150	6"	267	306	145.0	562.0	715
200	8"	292	370	175.0	708.5	913
250	10"	330	420	207.5	861.0	1118
300	12"	356	445	247.5	1000.0	1300

Gate Valve Resilient Seated OS&Y Type-Flanged-Groove Ends

■ Fig.341FG

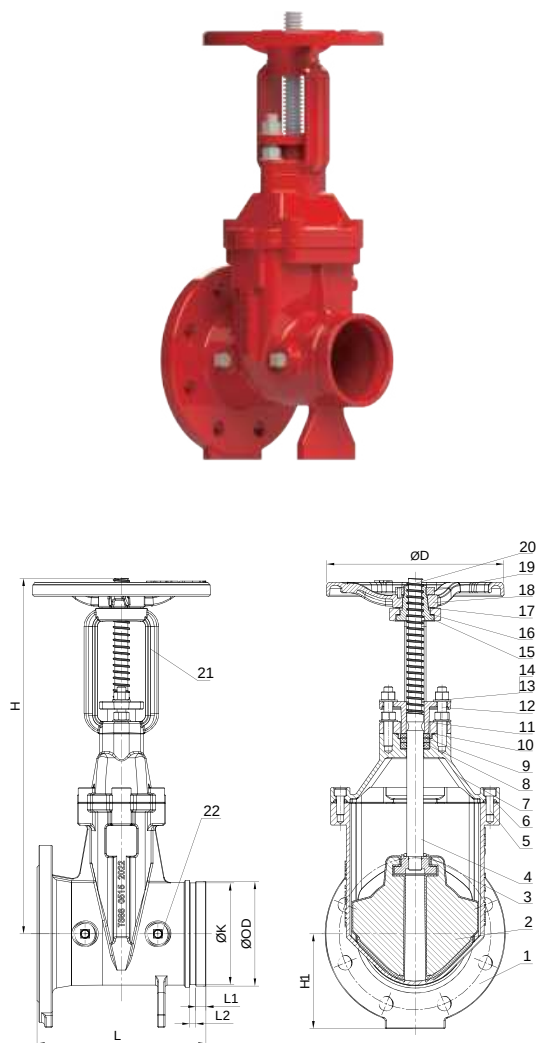


Technical Specification

- Valve Standard FM1120/1130, UL262 / CUL262
- Working Pressure 365PSI
- Working Temperature 4°C ~ 70°C
- Connection Ends ANSI CLASS125 / ANSI CLASS150 / EN 1092-2 PN16 / AWWA C606

Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
3	O-Ring	EPDM	--
4	Stem	Stainless Steel	SS304
5	Screw	Carbon Steel	12.9
6	Sealing Gasket	EPDM	--
7	Bonnet	Ductile Iron	ASTM A536 65-45-12
8	Sealing Ring	EPDM	--
9	Packing	PTFE	--
10	O-Ring	EPDM	--
11	Gland	Ductile Iron	ASTM A536 65-45-12
12	Stud	Stainless Steel	SS304
13	Flat Washer	Stainless Steel	SS304
14	Nut	Stainless Steel	SS304
15	Stem Nut	Bronze	ASTM B62
16	Gasket	Steel	ASTM B16
17	Gasket	Steel	ASTM B16
18	Handwheel	Ductile Iron	ASTM A536 65-45-12
19	Lock Nut	Stainless Steel	ASTM A351 CF8
20	Lock Screw	Stainless Steel	SS304
21	Bracket	Ductile Iron	ASTM A536 65-45-12
22	Square Plug	Stainless Steel	SS304



Dimension

DN	INCH	H (Close) mm	H (Open) mm	AWWA C606		L mm	L1 mm	L2 mm	H1 mm	φD
				φOD	φK					
50	2"	341.0	409	φ60.3	φ57.15	178	15.88	7.93	86	φ160
65	2½"	341.0	409	φ73.0	φ69.09	191	15.88	7.93	95	φ160
80	3"	379.0	463	φ89.0	φ85.00	203	15.88	7.93	105	φ220
100	4"	420.0	522	φ114.3	φ110.80	229	15.88	9.53	120	φ220
125	5"	562.0	715	φ141.3	φ137.00	254	15.88	9.53	133	φ280
150	6"	562.0	715	φ168.3	φ164.00	267	15.88	9.53	148	φ306
200	8"	708.5	913	φ219.1	φ214.10	292	19.00	12.00	176	φ370
250	10"	861.0	1118	φ273.0	φ268.00	330	19.00	12.70	208	φ420
300	12"	1000.0	1300	φ323.9	φ317.90	356	19.00	12.70	246	φ445

Gate Valve Resilient Seated OS&Y Type-Groove-Groove Ends

■ Fig.341GG

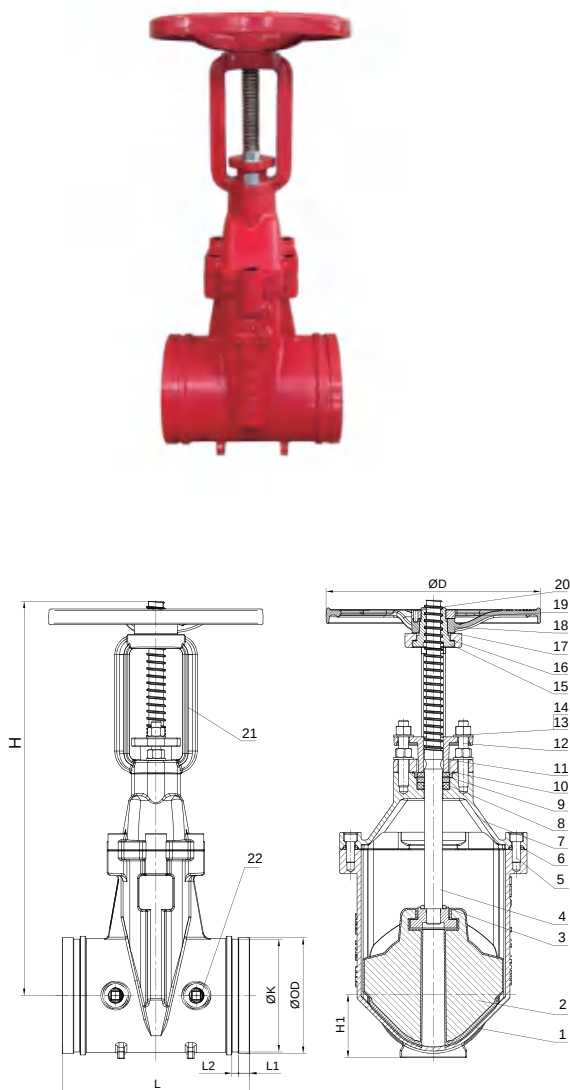


Technical Specification

- Valve Standard FM1120/1130, UL262 / CUL262
- Working Pressure 365PSI
- Working Temperature 4°C ~ 70°C
- Connection Ends AWWA C606

Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
3	O-Ring	EPDM	--
4	Stem	Stainless Steel	SS304
5	Screw	Carbon Steel	12.9
6	Sealing Gasket	EPDM	--
7	Bonnet	Ductile Iron	ASTM A536 65-45-12
8	Sealing Ring	EPDM	--
9	Packing	PTFE	--
10	O-Ring	EPDM	--
11	Gland	Ductile Iron	ASTM A536 65-45-12
12	Stud	Stainless Steel	SS304
13	Flat Washer	Stainless Steel	SS304
14	Nut	Stainless Steel	SS304
15	Stem Nut	Bronze	ASTM B62
16	Gasket	Steel	ASTM B16
17	Gasket	Steel	ASTM B16
18	Handwheel	Ductile Iron	ASTM A536 65-45-12
19	Lock Nut	Stainless Steel	ASTM A351 CF8
20	Lock Screw	Stainless Steel	SS304
21	Bracket	Ductile Iron	ASTM A536 65-45-12
22	Square Plug	Stainless Steel	SS304



Dimension

DN	INCH	H (Close) mm	H (Open) mm	AWWA C606		L mm	L1 mm	L2 mm	H1 mm	φD
				φK	φOD					
50	2"	341.0	409	φ57.15	φ60.3	178	7.93	15.88	43.0	φ160
65	2½"	341.0	409	φ69.09	φ73.0	191	7.93	15.88	43.0	φ160
80	3"	379.0	463	φ84.94	φ88.9	203	7.93	15.88	51.0	φ220
100	4"	420.0	522	φ110.08	φ114.3	229	9.53	15.88	61.0	φ220
125	5"	562.0	715	φ137.00	φ141.3	254	9.53	15.88	86.0	φ280
150	6"	562.0	715	φ164.00	φ168.3	267	9.53	15.88	90.0	φ306
200	8"	708.5	913	φ214.10	φ219.1	292	12.00	19.00	123.0	φ370
250	10"	861.0	1118	φ268.00	φ273.0	330	12.70	19.00	156.5	φ420
300	12"	1000.0	1300	φ317.90	φ323.9	356	12.70	19.00	183.5	φ445

Gate Valve Resilient Seated OS&Y Type-MJ-MJ Ends

■ Fig.341JJ

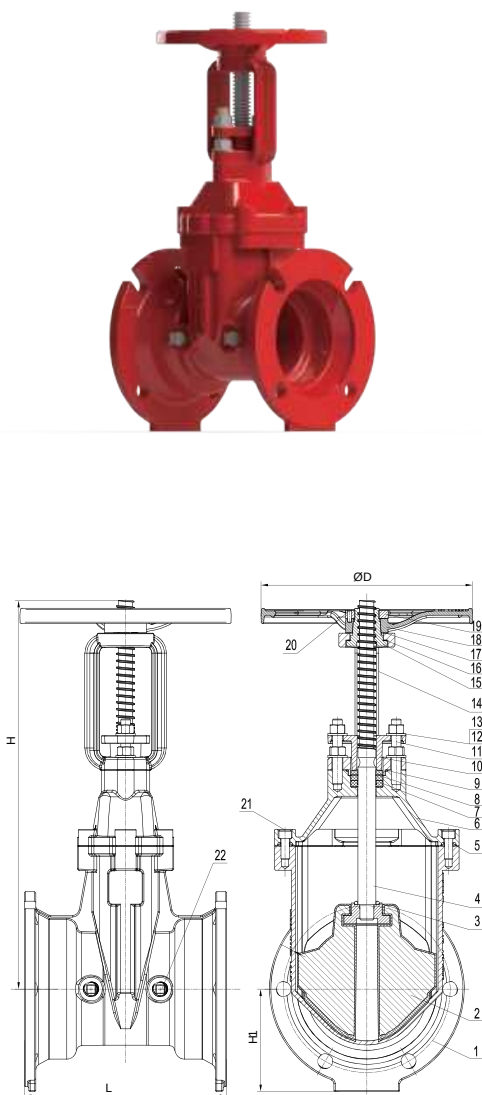


Technical Specification

• Valve Standard	FM1120/1130, UL262 / CUL262
• Working Pressure	365PSI
• Working Temperature	4°C ~ 70°C
• Connection Ends	ANSI 125 / ANSI 150 / EN 1092-2 PN16 / ANSI / AWWA C 153 / A21.11-00

Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
3	O-Ring	EPDM	--
4	Stem	Stainless Steel	SS304
5	Sealing Gasket	EPDM	--
6	Bonnet	Ductile Iron	ASTM A536 65-45-12
7	Seal Ring	EPDM	--
8	Packing	PTFE	--
9	O-Ring	EPDM	--
10	Gland	Ductile Iron	ASTM A536 65-45-12
11	Stud	Stainless Steel	SS304
12	Flat Washer	Stainless Steel	SS304
13	Nut	Stainless Steel	SS304
14	Bracket	Ductile Iron	ASTM A536 65-45-12
15	Stem Nut	Bronze	ASTM B62
16	Gasket	Steel	ASTM B16
17	Gasket	Steel	ASTM B16
18	Handwheel	Stainless Steel	ASTM A536 65-45-12
19	Lock Nut	Stainless Steel	CF8
20	Lock Screw	Stainless Steel	SS304
21	Screw	Carbon	12.9
22	Square Plug	Stainless Steel	SS304



Dimension

DN	INCH	L mm	φD	H1 mm	H (Close) mm	H (Open) mm
80	3"	241	φ220	105.0	379.0	463
100	4"	254	φ220	120.0	420.0	522
150	6"	292	φ306	148.0	562.0	715
200	8"	318	φ370	172.5	708.5	913
250	10"	375	φ420	204.5	861.0	1118
300	12"	378	φ445	232.0	1000.0	1300

Gate Valve Resilient Seated OS&Y Type-Flanged-MJ Ends

■ Fig.341FJ

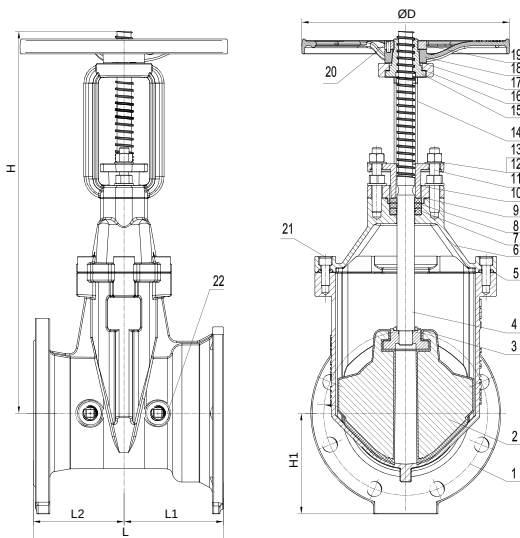


Technical Specification

• Valve Standard	FM1120/1130, UL262 / CUL262
• Working Pressure	365PSI
• Working Temperature	4°C ~ 70°C
• Connection Ends	ANSI 125 / ANSI 150 / EN 1092-2 PN16 / ANSI / AWWA C 111 / A21.11-00

Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
3	O-Ring	EPDM	--
4	Stem	Stainless Steel	SS304
5	Sealing Gasket	EPDM	--
6	Bonnet	Ductile Iron	ASTM A536 65-45-12
7	Seal Ring	EPDM	--
8	Packing	PTFE	--
9	O-Ring	EPDM	--
10	Gland	Ductile Iron	ASTM A536 65-45-12
11	Stud	Stainless Steel	SS304
12	Flat Washer	Stainless Steel	SS304
13	Nut	Stainless Steel	SS304
14	Bracket	Ductile Iron	ASTM A536 65-45-12
15	Stem Nut	Bronze	ASTM B62
16	Gasket	Steel	ASTM B16
17	Gasket	Steel	ASTM B16
18	Handwheel	Stainless Steel	ASTM A536 65-45-12
19	Lock Nut	Stainless Steel	CF8
20	Lock Screw	Stainless Steel	SS304
21	Screw	Carbon	12.9
22	Square Plug	Stainless Steel	SS304



Dimension

DN	INCH	φD	L mm	L1 mm	L2 mm	H1 mm	H (Close) mm	H (Open) mm
80	3"	φ220	222.0	120.5	101.5	105.0	379.0	463
100	4"	φ220	242.0	127.0	114.5	120.0	420.0	522
150	6"	φ306	279.5	146.0	133.5	148.0	562.0	715
200	8"	φ370	305.0	159.0	146.0	176.0	708.5	913
250	10"	φ420	352.5	187.5	165.0	204.5	861.0	1118
300	12"	φ445	367.0	189.0	178.0	247.0	1000.0	1300

Indicator Post Indicator Post-Underground Type

■ Fig.G388



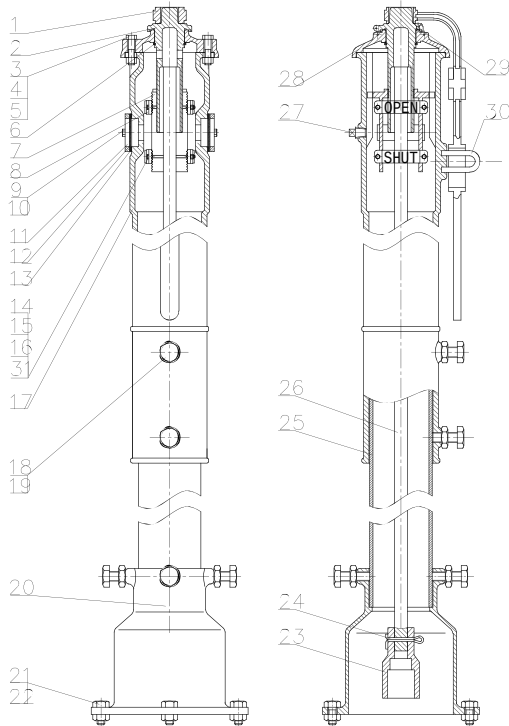
Technical Specification

• Valve Standard

AWWA C550

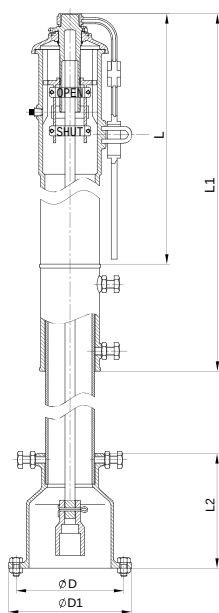
Material Specification

No.	Part	Material	Specification
1	Wrench	Ductile Iron	ASTM A536 65-45-12
2	Drive Nut	Bronze	ASTM B62
3	Hex Bolt	Steel	ASTM A105
4	Hex Nut	Steel	ASTM A105
5	Flat Washer	Steel	ASTM A105
6	External Circlip	Al	AISI 606
7	Indicator Indicating Stand	Bronze	ASTM B62
8	Indicator Indicating Dial	Al	ASTM B108
9	Hex Bolt	Stainless Steel	ASTM SS304
10	Flat Washer	Stainless Steel	ASTM SS304
11	Window Cover	Carbon Steel	ASTM A307B
12	Window	Lexan-un Stablize	--
13	Window Gasket	EPDM	--
14	Stud	Steel	ASTM A105
15	Washer	Steel	ASTM A105
16	Hex Nut	Steel	ASTM A105
17	Barrel	Ductile Iron	ASTM A536 65-45-12
18	Hex Bolt	Steel	ASTM A105
19	Hex Nut	Steel	ASTM A105
20	Pedestal	Cast Iron	ASTM A126B
21	Hex Bolt	Steel	ASTM A105
22	Hex Nut	Steel	ASTM A105
23	Coupler	Ductile Iron	ASTM A536 65-45-12
24	Cotter	Stainless Steel	ASTM SS304
25	Support Barrel	Steel	ASTM A53
26	Stem	Steel	AISI 1045
27	Plug	Steel	ASTM SS304
28	Top Cover	Cast Iron	ASTM A126B
29	Cross Recessed Countersunk Head Screw	Carbon Steel	ASTM A307B
30	Locking Nose	Carbon Steel	ASTM A307B
31	Flat Washer	Steel	ASTM A105



Indicator Post Indicator Post-Underground Type

■ Fig.G388

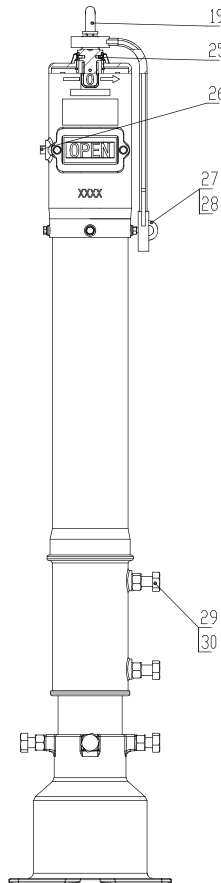
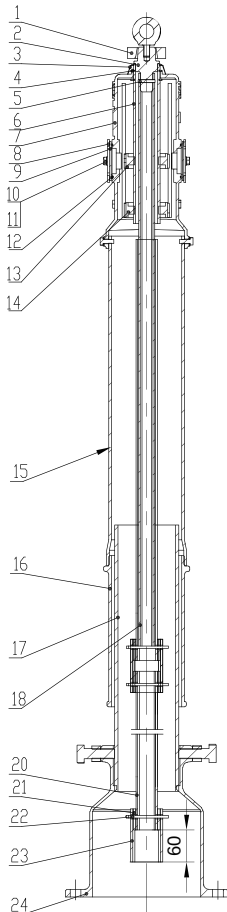


Dimension

DN	INCH	L mm	L1 mm	L2 mm	ØD	ØD1
50	2"	1002	1267	284	Ø267	Ø305
65	2½"	1002	1267	284	Ø267	Ø305
80	3"	1002	1267	284	Ø267	Ø305
100	4"	1002	1267	284	Ø267	Ø305
125	5"	1002	1267	284	Ø267	Ø305
150	6"	1002	1267	284	Ø267	Ø305
200	8"	1002	1267	284	Ø267	Ø305
250	10"	1002	1267	284	Ø267	Ø305
300	12"	1002	1267	284	Ø267	Ø305

Indicator Post Underground Type

■ Fig.G345



Material Specification

No.	Part	Material	Specification
1	Wrench	Ductile Iron	ASTM A536 65-45-12
2	Drive Square	Ductile Iron	ASTM A536 65-45-12
3	Dust Cap	EPDM	--
4	External Circlip	Steel	65Mn
5	Pin	Galvanized Carbon Steel Stainless Steel	-- SS304
6	Operating Screw	Stainless Steel	ASTM SS304
7	Upper Barrel	Ductile Iron	ASTM A536 65-45-12
8	Window Cover	Carbon Steel	ASTM A307B
9	Window	Lexan-un Stablized	--
10	Hex Bolt	Galvanized Carbon Steel Stainless Steel	-- SS304
11	Plat Washer	Galvanized Carbon Steel Stainless Steel	-- SS304
12	Seal Ring	EPDM	--
13	Open Indicator	Al	ASMT2024
14	Shut Indicator	Al	ASMT2024
15	Lower Barrel--First	Ductile Iron	ASTM A536 65-45-12
16	Lower Barrel --Second	Ductile Iron	ASTM A536 65-45-12
17	Support Barrel	Steel	ASTM A53
18	Square Tube	Steel	AISI 1045 (Galvanize Surface)
19	Hoisting Ring	Steel	ASTM A105
20	Square Tube	Steel	AISI 1045 (Galvanize Surface)
21	Square Tube	Steel	AISI 1045 (Galvanize Surface)
22	Cotter	Galvanized Carbon Steel Stainless Steel	-- SS304
23	Square Tube	Steel	AISI 1045 (Galvanize Surface)
24	Pedestal	Ductile Iron	ASTM A536 65-45-12
25	Screw	Galvanized Carbon Steel Stainless Steel	-- SS304
26	Plug	Stainless Steel	ASTM SS304
27	Screw	Galvanized Carbon Steel Stainless Steel	-- SS304
28	Hex Nut	Galvanized Carbon Steel Stainless Steel	-- SS304
29	Hex Bolt	Galvanized Carbon Steel Stainless Steel	-- SS304
30	Hex Nut	Galvanized Carbon Steel Stainless Steel	-- SS304

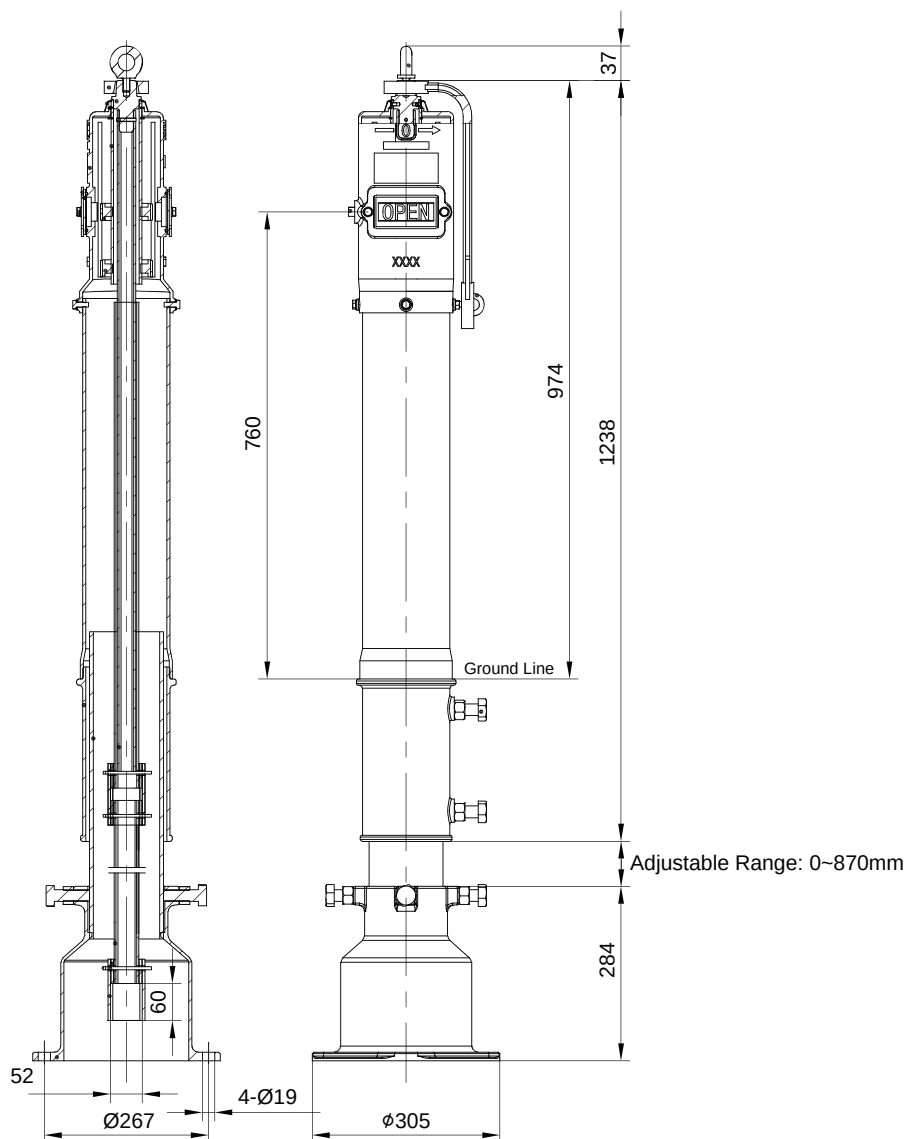
Indicator Post Underground Type

■ Fig.G345



Dimension

Pipe Size is DN100 ~ DN300 (4" ~ 12").



Size (mm)	50	65	80	100	125	150	200	250	300
Number Of Opening Turns Fig.322 Series	11.5	13.0	16.0	20.0	25.0	30.0	20.0	25.0	30.0
Number Of Opening Turns Fig.345P Series	11.5	13.0	16.0	20.0	25.0	30.0	16.7	20.8	25.0

Indicator Post Indicator Post-Underground Type

■ Fig.G322



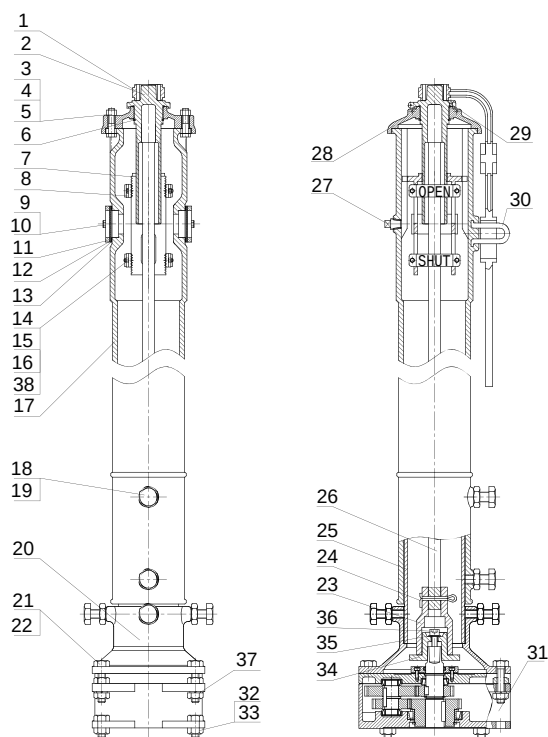
Technical Specification

• Valve Standard

AWWA C550

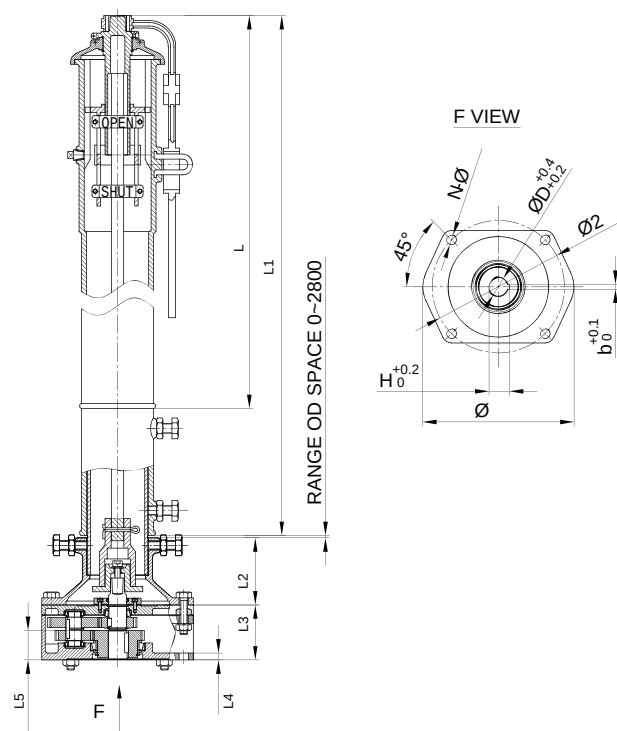
Material Specification

No.	Part	Material	Specification
1	Locking Wrench	Ductile Iron	ASTM A536 65-45-12
2	Operating Nut	Stainless Steel	ASTM A351 CF8
3	Hex Bolt	Steel	ASTM A105
4	Hex Nut	Steel	ASTM A105
5	Flat Washer	Steel	ASTM A105
6	External Circlip	Al	AISI 606
7	Indicator Stand	Stainless Steel	ASTM A351 CF8
8	Indicator Panel	Al	ASTM B108
9	Hex Bolt	Stainless Steel	ASTM SS304
10	Flat Washer	Stainless Steel	ASTM SS304
11	Window Gland	Carbon Steel	ASTM A307B
12	Window	Lexan-un Stablize	--
13	Window Gasket	EPDM	--
14	Stud	Steel	ASTM A105
15	Spring Washer	Steel	ASTM A105
16	Hex Nut	Steel	ASTM A105
17	Barrel	Ductile Iron	ASTM A536
18	Hex Bolt	Steel	ASTM A105
19	Hex Nut	Steel	ASTM A105
20	Pedestal	Cast Iron	ASTM A126B
21	Hex Bolt	Steel	ASTM A105
22	Hex Nut	Steel	ASTM A105
23	Crane Coupling	Ductile Iron	ASTM A536
24	Cotter Pin	Stainless Steel	ASTM SS304
25	Stand Pipe	Steel	ASTM A53
26	Stem	Steel	AISI 1045
27	Plug	Steel	ASTM SS304
28	Top Cover	Cast Iron	ASTM A126B
29	Screw	Stainless Steel	ASTM SS304
30	Locking Nose	Carbon Steel	ASTM A307B
31	Reducer	Ratrs	--
32	Hex Bolt	Steel	ASTM A105
33	Hex Nut	Steel	ASTM A105
34	Square Head	Ductile Iron	ASTM A536
35	Washer	Steel	ASTM SS304
36	Hex.Socket Cap Screw	Steel	ASTM SS304
37	Washer	Steel	ASTM SS304
38	Washer	Steel	ASTM SS304



Indicator Post Indicator Post-Underground Type

■ Fig.G322

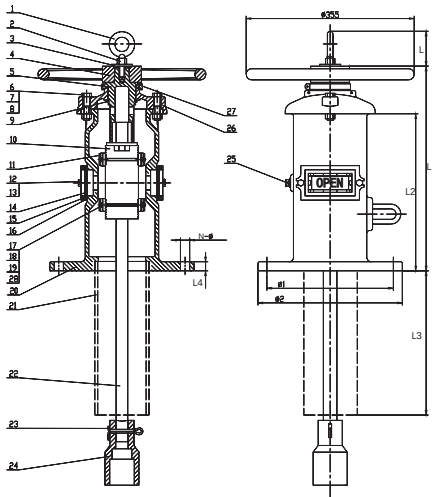


Dimension

DN	INCH	φD mm	H mm	b mm	φ	φ2	N-φ	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm
350	14"	φ38	41	10	φ305	φ267	4-φ20	1039	1035	135	114	14	63
400	16"	φ38	41	10	φ305	φ267	4-φ20	1039	1035	135	114	14	63
450	18"	φ45	49	14	φ305	φ267	4-φ20	1039	1035	135	114	14	63
500	20"	φ45	49	14	φ305	φ267	4-φ20	1039	1035	135	114	14	63
600	24"	φ48	52	14	φ305	φ267	4-φ20	1039	1035	135	114	14	63

Indicator Post Indicator Post-Wall Type

■ Fig.W388



Technical Specification

• Valve Standard

AWWA C550

Specification

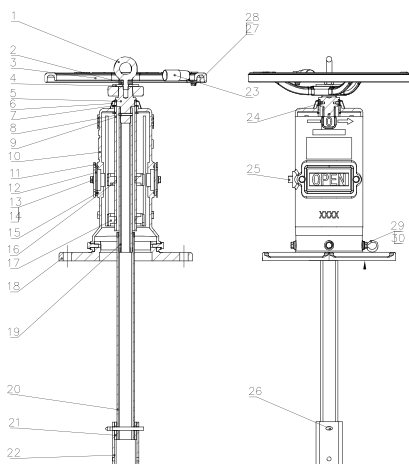
No.	Part	Material	Specification
1	Lifting Eye Bolt	Steel	ASTM A105
2	Hex Nut	Steel	ASTM A105
3	Washer	Stainless Steel	AISI 304
4	Hand Wheel	Ductile Iron	ASTM A536 65-45-12
5	Operating Nut	Stainless Steel	ASTM A351 CF8
6	Hex Screw	Steel	ASTM A105
7	Hex Nut	Steel	ASTM A105
8	Washer	Steel	ASTM A105
9	External Circlip	Al	AISI 606
10	Indicator Stand	Stainless Steel	ASTM A351 CF8
11	Indicator Panel	Al	ASTM B108
12	Hex Nut	Stainless Steel	AISI 304
13	Washer	Stainless Steel	AISI 304
14	Window	Lexan-un Stablized	--
15	Window Cover	Carbon Steel	ASTM A307B
16	Seal Ring	EPDM	--
17	Stud	Steel	ASTM A105
18	Washer	Steel	ASTM A105
19	Hex Nut	Steel	ASTM A105
20	Barrel	Cast Iron	ASTM A126B
21	Stand Pipe	Steel	ASTM A53
22	Stem	Steel	AISI 1045
23	Cotter Pin	Stainless Steel	ASTM SS304
24	Crane Coupling	Ductile Iron	ASTM A536 65-45-12
25	Plug	Stainless Steel	AISI 304
26	Cover	Cast Iron	ASTM A126B
27	Cross Recessed Countersunk Head Screw	Stainless Steel	AISI 304
28	Washer	Steel	ASTM A105

Dimension

DN	INCH	L mm	L1 mm	L2 mm	L3 mm	L4 mm	N-φ	φ1	φ2
50	2"	74	432	332	305	19	4-φ20	φ267	φ305
65	2½"	74	432	332	305	19	4-φ20	φ267	φ305
80	3"	74	432	332	305	19	4-φ20	φ267	φ305
100	4"	74	432	332	305	19	4-φ20	φ267	φ305
125	5"	74	432	332	305	19	4-φ20	φ267	φ305
150	6"	74	432	332	305	19	4-φ20	φ267	φ305
200	8"	74	432	332	305	19	4-φ20	φ267	φ305
250	10"	74	432	332	305	19	4-φ20	φ267	φ305
300	12"	74	432	332	305	19	4-φ20	φ267	φ305

Indicator Post Wall Type

■ Fig.W345

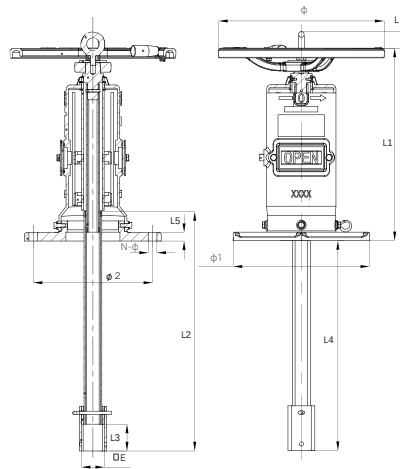


Specification

No.	Part	Material	Specification
1	Hoisting Ring	Steel	ASTM A105
2	Hex Nut	Steel	ASTM A105
3	Hand Wheel	Ductile Iron	ASTM A536 65-45-12
4	Hand Wheel Gasket	Stainless Steel	ASTM SS304
5	Drive Square	Ductile Iron	ASTM A536 65-45-12
6	Dust Cap	EPDM	--
7	External Circlip	Steel	65Mn
8	Pin	Galvanized Carbon Steel Stainless Steel	-- SS304
9	Drive Stem	Stainless Steel	ASTM SS304
10	Upper Barrel	Ductile Iron	ASTM A536 65-45-12
11	Window Cover	Carbon Steel	ASTM A307B
12	Window	Lexan-un Stablized	--
13	Hex Bolt	Galvanized Carbon Steel Stainless Steel	-- SS304
14	Plat Washer	Galvanized Carbon Steel Stainless Steel	-- SS304
15	Seal Ring	EPDM	--
16	Open Indicator	AI	ASTM 2024
17	Shut Indicator	AI	ASTM 2024
18	Post Flange	Ductile Iron	ASTM A536 65-45-12
19	Square Tube	Carbon Steel	AISI 1045 (Galvanize Surface)
20	Square Tube	Carbon Steel	AISI 1045 (Galvanize Surface)
21	Square Tube	Carbon Steel	AISI 1045 (Galvanize Surface)
22	Square Tube	Carbon Steel	AISI 1045 (Galvanize Surface)
23	Handle	--	--
24	Screw	Galvanized Carbon Steel Stainless Steel	-- SS304
25	Plug	Stainless Steel	ASTM SS304
26	Cotter	Galvanized Carbon Steel Stainless Steel	-- SS304
27	Washer	Galvanized Carbon Steel Stainless Steel	-- SS304
28	Screw	Galvanized Carbon Steel Stainless Steel	-- SS304
29	Screw	Galvanized Carbon Steel Stainless Steel	-- SS304
30	Hex Nut	Galvanized Carbon Steel Stainless Steel	-- SS304

Indicator Post Wall Type

■ Fig.W345



Dimension

DN	INCH	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	N-φ	φ	φ1	φ2	□E
50	2"	37	431	840	60	775	18	4-φ19	φ370	φ305	φ267	52
65	2½"	37	431	840	60	775	18	4-φ19	φ370	φ305	φ267	52
80	3"	37	431	840	60	775	18	4-φ19	φ370	φ305	φ267	52
100	4"	37	431	840	60	775	18	4-φ19	φ370	φ305	φ267	52
125	5"	37	431	840	60	775	18	4-φ19	φ370	φ305	φ267	52
150	6"	37	431	840	60	775	18	4-φ19	φ370	φ305	φ267	52
200	8"	37	431	840	60	775	18	4-φ19	φ370	φ305	φ267	52
250	10"	37	431	840	60	775	18	4-φ19	φ370	φ305	φ267	52
300	12"	37	431	840	60	775	18	4-φ19	φ370	φ305	φ267	52

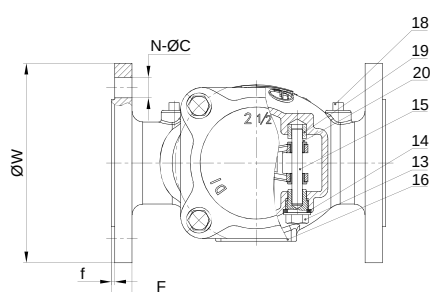
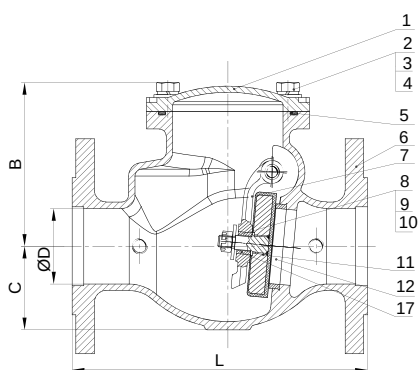
02

GHECK VALVE



Swing Check Valve Resilient Seated Flanged Ends

■ Fig.55FF



Technical Specification

- Valve Standard AWWA C508 / AWWA C550
- Working Pressure 200PSI / 250PSI / 300PSI
- Working Temperature -10°C ~ 120°C
- Flanged Ends ANSI B16.1 CLASS125 / B16.42 CLASS150 / B16.1 CLASS250 / EN1092 PN10/PN16 / Table D / Table E / CI250 (DN65 ~ DN300) / EN1092 PN25 (DN50 ~ DN125, DN200 ~ DN300)

Material Specification

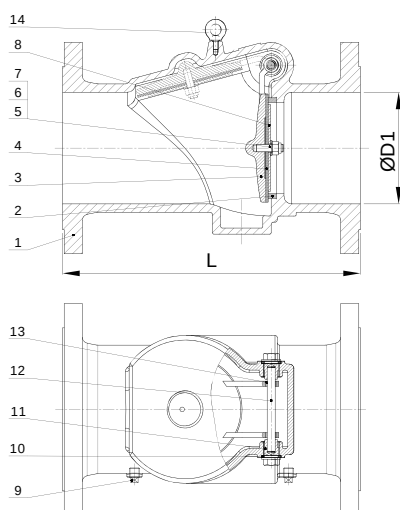
No.	Part	Material	Specification
1	Cover	Ductile Iron	ASTM A536 65-45-12
2	Hexagon Head Bolts	Carbon Steel	GR.8.8
3	Washer	Carbon Steel	--
4	Spring Washer	Carbon Steel	--
5	O-Ring	EPDM	--
6	Body	Ductile Iron	ASTM A536 65-45-12
7	Rocker	Ductile Iron	ASTM A536 65-45-12
8	Hexagonal Slot Thin Nut	Stainless Steel	SS304
9	Washer	Stainless Steel	SS304
10	Split Pin	Stainless Steel	SS304
11	Disc	Stainless Steel+ Carbon Steel+EPDM	SS304
12	Seat	Brass	B271 C84400
13	Shaft Hole Plug	Stainless Steel	SS304
14	Plug The Gasket	EPDM	--
15	Radial Spindle	Stainless Steel	SS304
16	Scutcheon	Stainless Steel	SS304
17	Swing Arm Sleeve	Bronze	B150 C63000
18	Plug	Stainless Steel	SS304
19	AXle Hole Sleeve	Bronze	B150 C63000
20	Shaft Sleeve	Bronze	B150 C63000

Dimension

DN	INCH	B mm	C mm	φD	L mm	φW
50	2"	130	66	φ54	203	φ165
65	2½"	141	72	φ65	254	φ185
80	3"	145.5	85	φ82	279	φ200
100	4"	158.5	106	φ100	330	φ230
125	5"	212	120	φ125	356	φ255
150	6"	222	136	φ150	406	φ285
200	8"	265	163.5	φ200	495	φ345
250	10"	303	200	φ250	559	φ405
300	12"	333	248.5	φ300	660	φ485

Swing Check Valve Resilient Seated Flanged Ends

■ Fig.58FF



Technical Specification

• Valve Standard	AWWA C508 / AWWA C550
• Working Pressure	365PSI
• Working Temperature	-10°C ~ 120°C
• Flanged Ends	ANSI B16.1 CLASS125 / B16.42 CLASS150 / B16.1 CLASS250 / EN1092-2 PN10 / PN16 / BS10 Table D / Table E

Material Specification

No.	Part	Material	Specification
1	Body	Stainless Steel	SS304
		Ductile Iron	ASTM A536 65-45-12
2	Seat	Brass	B271 C83600
3	Disc	Ductile Iron	ASTM A536 65-45-12
4	Sealing Ring	EPDM	--
5	Set Screw	Stainless Steel	SS304
6	Locking Nut	Stainless Steel	SS304
7	Plain Washer	Stainless Steel	SS304
8	Disc Retainer	Stainless Steel (DN50 ~ DN150)	SS304
		Ductile Iron (DN200 ~ DN300)	ASTM A536 65-45-12
9	Screw Plug	Stainless Steel	SS304
10	Washer	EPDM	--
11	Screw Plug	Stainless Steel	SS304
12	Shaft	Stainless Steel	SS304
13	Bushing	Bronze	B150 C63000
14	Eye Bolt	Stainless Steel (DN150 ~ DN300)	SS304

Dimension

DN	INCH	L mm	φD1
50	2"	203	φ52
65	2½"	222	φ62
80	3"	241	φ76
100	4"	305	φ103
125	5"	356	φ120
150	6"	394	φ148
200	8"	457	φ198
250	10"	533	φ248
300	12"	610	φ300

Swing Check Valve Resilient Seated Grooved Ends

■ Fig.58GG-GGP

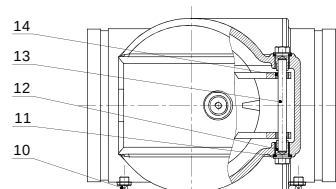
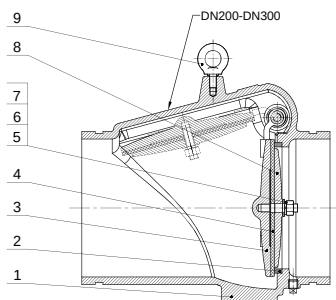


Technical Specification

• Valve Standard	AWWA C550 / AWWA C508
• Working Pressure	365PSI
• Working Temperature	-10°C ~ 120°C
• Connection Ends	AWWA C 606 / BG/T 8260

Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Seat	Bronze	B271 S83600
3	Disc	Ductile Iron	ASTM A536 65-45-12
4	Seal Ring	EPDM	--
5	Set Screw	Stainless Steel	SS304
6	Hexagon Nut	Stainless Steel	SS304
7	Plain Washer	Stainless Steel	SS304
8	Disc Retainer	Stainless Steel (DN50 ~ DN150) Ductile Iron (DN200 ~ DN300)	SS304 ASTM A536 65-45-12
9	Eyebolt (8" 10" 12")	Stainless Steel	SS304
10	Plug	Stainless Steel	SS304
11	Plug The Gasket	EPDM	--
12	Shaft Hole Plug	Stainless Steel	SS304
13	Shaft	Stainless Steel	SS304
14	Bushing	Bronze	B150 C63000



Swing Check Valve Resilient Seated Grooved Ends

■ Fig.58GG-GGP

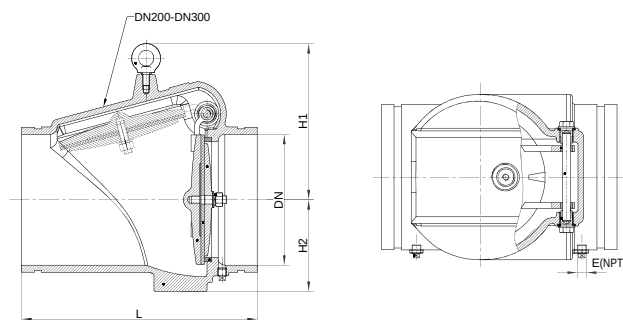


Fig.58GG

Dimension

DN	INCH	L mm	H1 mm	H2 mm	E
50	2"	169	80	63	1/4"
65	2½"	203	85	68	1/4"
80	3"	213	93	75	1/4"
100	4"	245	103	87	1/4"
125	5"	267	121	95	1/4"
150	6"	292	140	110	1/4"
200	8"	356	237	137	1/4"
250	10"	432	277	161	1/4"
300	12"	495	309	184	1/4"

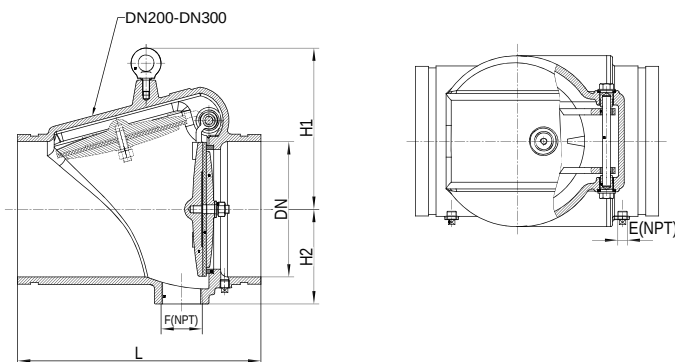


Fig.58GGP

Dimension

DN	INCH	L mm	H1 mm	H2 mm	E	F
50	2"	169	80	63	1/4"	1"
65	2½"	203	85	68	1/4"	1½"
80	3"	213	93	75	1/4"	1½"
100	4"	245	103	87	1/4"	2"
125	5"	267	121	95	1/4"	2"
150	6"	292	140	110	1/4"	2"
200	8"	356	237	137	1/4"	2"
250	10"	432	277	161	1/4"	2"
300	12"	495	309	184	1/4"	2"

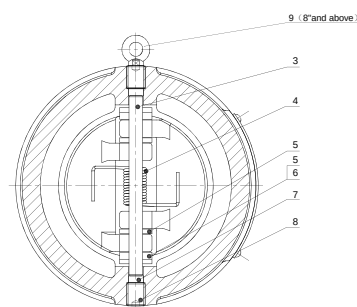
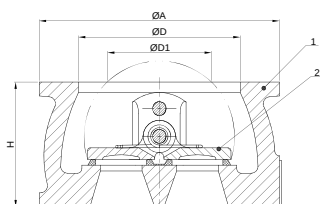
Check Valve Resilient Seated Wafer Ends

■ Fig.50W



Technical Specification

- Valve Standard API 594
- Working Pressure 175PSI / 200PSI / 250PSI / 300PSI
- Working Temperature -10°C ~ 120°C
- Connection Ends ASME B16.1 Class125
/ BS EN 1092-2 PN10/PN16
/ JISB2239 10K (DN50 ~ DN80)
/ AS2129 TableD / TableE (DN100 ~ DN300)



Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron+EPDM	ASTM A536 65-45-12
2	Disc	Ductile Iron	ASTM A536 65-45-12
		Stainless Steel	ASTM A351 CF8 / CF8M
		Bronze	C95400
3	Stem	Stainless Steel	SS304 / SS316
4	Spring	Stainless Steel	SS304
5	Washer	Stainless Steel+PTFE	SS304
6	Gasket	Stainless Steel+PTFE	SS304
7	Sealing	EPDM	--
8	Plug	Blackening Of Carbon Steel	--
9	Lift Ring	Carbon Steel	--

Dimension

DN	INCH	H mm	φD	φD1	φA
50	2"	54	φ51	φ45	φ107
65	2½"	60	φ69	φ63	φ127
80	3"	67	φ78	φ66	φ142
100	4"	67	φ94	φ92	φ161
125	5"	83	φ115	φ120	φ192
150	6"	95	φ134	φ143	φ218
200	8"	127	φ182	φ177	φ273
250	10"	140	φ220	φ229	φ328
300	12"	181	φ260	φ251	φ380

03

STRAINER



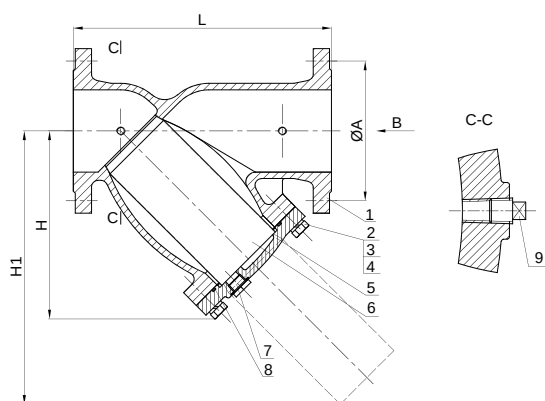
Y Strainer Flange-Flange Ends

■ Fig.70FF



Technical Specification

- Valve Standard AWWA C550
- Working Pressure 200PSI / 250PSI / 300PSI
- Working Temperature -10°C ~ 120°C
- Connection Ends ASME B16.1 Class125 / B16.42 CLASS150/B16. / EN1092-2 PN10/PN16/PN25 / BS10 Table D / Table E



Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Bolt	Carbon Steel	GR.8.8
3	Washer	Galvanized Carbon Steel	--
4	Washer	Galvanized Carbon Steel	--
5	Cover	Ductile Iron	ASTM A536 65-45-12
6	Screen	Stainless Steel	SS304
7	Plug	Galvanized Carbon Steel	--
8	O-Ring	EPDM	--
9	Test Screw	Steel	ASTM B16

Dimension

DN	INCH	L mm	H mm	H1 mm	ØA
50	2"	203.2	130	195	φ125
65	2½"	254	158	240	φ145
80	3"	260	175	270	φ160
100	4"	308.1	202	320	φ180
125	5"	398.3	290	425	φ210
150	6"	471.4	334	495	φ240
200	8"	549.4	391	570	φ295
250	10"	654.1	460	700	φ355
300	12"	762	590	840	φ410

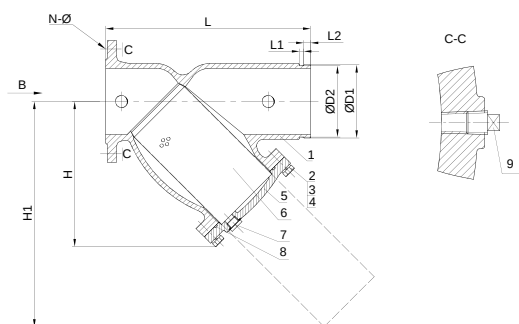
Y Strainer Flange-Groove Ends

■ Fig.70FG



Technical Specification

- Valve Standard AWWA C550
- Working Pressure 200PSI / 250PSI / 300PSI
- Working Temperature -10°C ~ 120°C
- Connection Ends ASME B16.1 Class125 / B16.42 CLASS150
/ B16.CLASS250 / EN1092-2 PN10/PN16/PN25
/ BS10 Table D / Table E / AWWA C 606
/ VDS2100



Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Bolt	Carbon Steel Galvanized	GR.8.8
3	Washer	Carbon Steel Galvanized	--
4	Washer	Carbon Steel Galvanized	--
5	Cover	Ductile Iron	ASTM A536 65-45-12
6	Screen	Stainless Steel	SS304
7	Screw Plug	Carbon Steel Galvanized	--
8	O-Ring	EPDM	--
9	Test Screw	Steel	ASTM B16

Dimension

DN	INCH	L mm	H mm	H1 mm	PN16		L1 mm	L2 mm
					φD1	φD2		
50	2"	203.2	130	195	φ60.3	φ57	8	15.9
65	2½"	254	158	240	φ73/φ76.1	φ69.7/φ72	8	15.9
80	3"	260	175	270	φ88.9	φ84.7	8	15.9
100	4"	308.1	202	320	φ114.3	φ109.8	9.5	15.9
125	5"	398.3	290	425	φ139.7/φ141.3	φ135.2/φ136.8	9.5	15.9
150	6"	471.4	334	495	φ165.1/φ168.3	φ160.5/φ163.7	9.5	15.9
200	8"	549.4	391	570	φ219.1	φ214.1	11	19
250	10"	654.1	459.4	700	φ273	φ268	12.7	19
300	12"	762	590	840	φ323.9	φ317.9	12.7	19

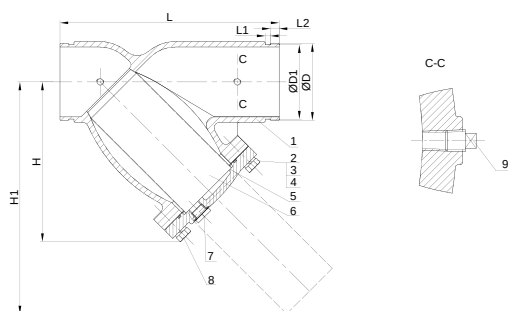
Y Strainer Groove-Groove Ends

■ Fig.70GG



Technical Specification

• Valve Standard	AWWA C550
• Working Pressure	200PSI / 250PSI / 300PSI
• Working Temperature	-10°C ~ 120°C
• Connection Ends	AWWA C 606 / VDS2100



Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	--
2	Bolt	Galvanized Carbon Steel	GR.8.8
3	Washer	Galvanized Carbon Steel	--
4	Washer	Galvanized Carbon Steel	--
5	Cover	Ductile Iron	--
6	Screen	Stainless Steel	SS304
7	Plug	Galvanized Carbon Steel	--
8	O-Ring	EPDM	--
9	Test Screw	Steel	ASTM B16

Dimension

DN	INCH	L mm	H mm	H1 mm	PN16		L1 mm	L2 mm
					φD1	φD2		
50	2"	230	130	195	φ60.3	φ57	8	15.9
65	2½"	254	158	240	φ73/φ76.1	φ69.7/φ72	8	15.9
80	3"	272.4	175	270	φ88.9	φ84.7	8	15.9
100	4"	308.1	202	320	φ114.3	φ109.8	9.5	15.9
125	5"	398.3	290	425	φ139.7/φ141.3	φ135.2/φ136.8	9.5	15.9
150	6"	471.4	334	495	φ165.1/φ168.3	φ160.5/φ163.7	9.5	15.9
200	8"	549.4	391	570	φ219.1	φ214.1	11	19
250	10"	654.1	459.4	700	φ273	φ268	12.7	19
300	12"	762	590	840	φ323.9	φ317.9	12.7	19

04

BUTTERFLY VALVE



Wafer Butterfly Valve With Signal Gear Box

■ Fig.25W



Technical Specification

• Valve Standard	FM1112 / UL1091
• Face To Face Standard	ISO5752
• Test Standard	FM1112 / UL1091
• Working Pressure	200PSI / 250PSI / 300PSI
• Working Temperature	-20°C ~ 100°C
• Connection Ends	BS EN1092-2 / ASME B16.42 Class150

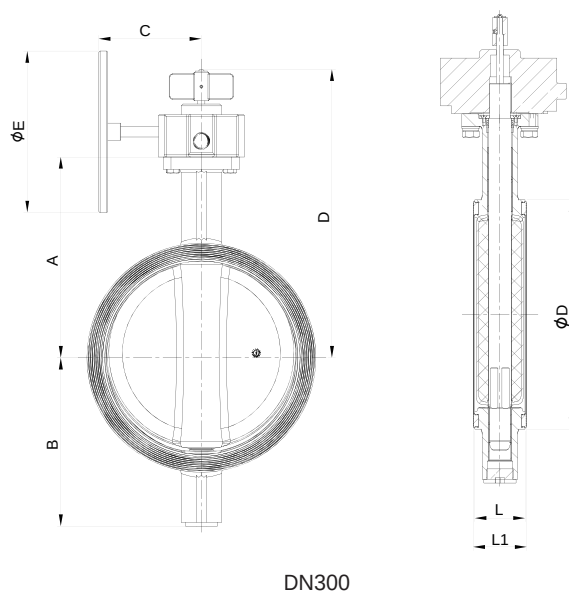
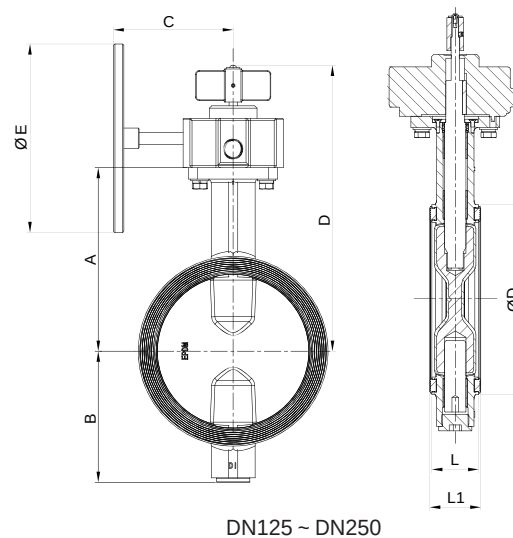
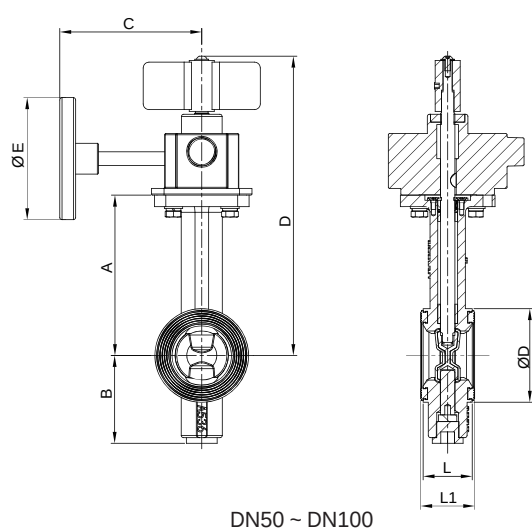
Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Upper Shaft Gland Cross Recessed	Galvanized Carbon Steel	--
3	Countersunk Head Screw	Galvanized Carbon Steel	--
4	Short Shaft Sleeve	Bronze (DN50 ~ DN100) Carbon Steel (DN125 ~ DN300)	C63000 --
5	O-Ring	EPDM	--
6	Long Shaft Sleeve	Bronze (DN50 ~ DN100) Carbon Steel (DN125 ~ DN300)	C63000 --
7	Upper Shaft	Stainless Steel	SS410
8	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
9	Lower Shaft	Stainless Steel	SS410
10	Hex Socket Plug	Stainless Steel	SS304
11	Sealing Ring	EPDM	--
12	Hexagon Head Bolt	Stainless Steel	SS304
13	Spring Gasket	Stainless Steel	SS304
14	Flat Gasket	Stainless Steel	SS304
15	Half-round Key	Steel	45#
16	Electrical Turbine Box	Ductile Iron	GGG40
17	Indicator	Ductile Iron	ASTM A536 65-45-12
18	Hexagon Flat End Setting Screw	Galvanized Carbon Steel	--
19	Adjusting Washer (DN50, DN100)	EPDM	--
20	Hex Socket Round Head Screw	Stainless Steel	SS304
21	Large Falt Pad Class A	Stainless Steel	SS304



Wafer Butterfly Valve With Signal Gear Box

■ Fig.25W



Dimension

DN	INCH	A mm	B mm	C mm	D mm	L mm	L1 mm	φD	φE
50	2"	140.5	77.0	110	262.4	43	47	φ82	φ108
65	2½"	152.5	80.0	110	274.5	46	51	φ97	φ108
80	3"	157.5	87.0	110	279.5	46	51	φ109	φ108
100	4"	176.0	108.0	110	298.0	52	57	φ140	φ108
125	5"	191.0	131.5	133	318.8	56	61	φ165	φ150
150	6"	202.5	143.5	133	330.3	56	61	φ198	φ150
200	8"	243.5	174.0	187	379.3	62	67	φ252	φ250
250	10"	273.0	207.5	187	409.0	68	73	φ304	φ250
300	12"	311.0	261.0	187	465.0	78	83	φ355	φ250

Lugged Butterfly Valve With Signal Gear Box

■ Fig.25L

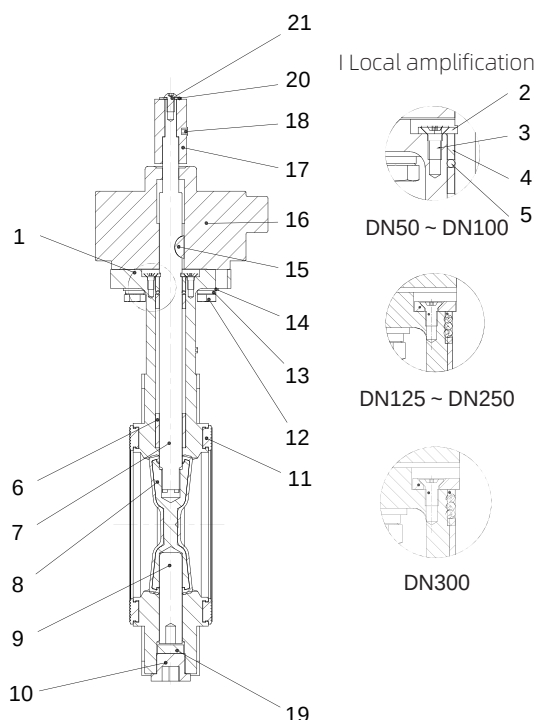


Technical Specification

- Valve Standard FM1112 / UL1091
- Face To Face Standard ISO5752
- Test Standard FM1112 / UL1091
- Working Pressure 200PSI / 250PSI / 300PSI
- Working Temperature -20°C ~ 100°C
- Connection Ends BS EN1092-2 / ASME B16.42 Class150

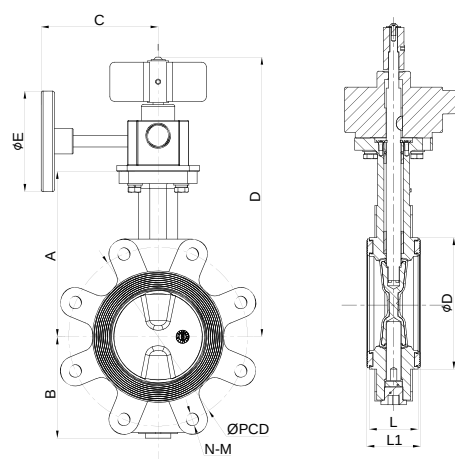
Material Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Upper Shaft Gland Cross Recessed	Galvanized Carbon Steel	--
3	Countersunk Head Screw	Galvanized Carbon Steel	--
4	Short Shaft Sleeve	Bronze/Carbon Steel	C63000/--
5	O-Ring	EPDM	--
6	Long Shaft Sleeve	Bronze/Carbon Steel	C63000/--
7	Upper Shaft	Stainless Steel	SS410
8	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
9	Lower Shaft	Stainless Steel	SS410
10	Hex Socket Plug	Stainless Steel	SS304
11	Sealing Ring	EPDM	--
12	Hexagon Head Bolt	Stainless Steel	SS304
13	Spring Gasket	Stainless Steel	SS304
14	Flat Gasket	Stainless Steel	SS304
15	Half-Round Key	Steel	45#
16	Electrical Turbine Box	Ductile Iron	GGG40
17	Indicator	Ductile Iron	ASTM A536 65-45-12
18	Hexagon Flat End Setting Screw	Galvanized Carbon Steel	--
19	Adjusting Washer (DN50, DN100)	EPDM	--
20	Large Falt Pad Class A	Stainless Steel	SS304
21	Hex Socket Round Head Screw	Stainless Steel	SS304

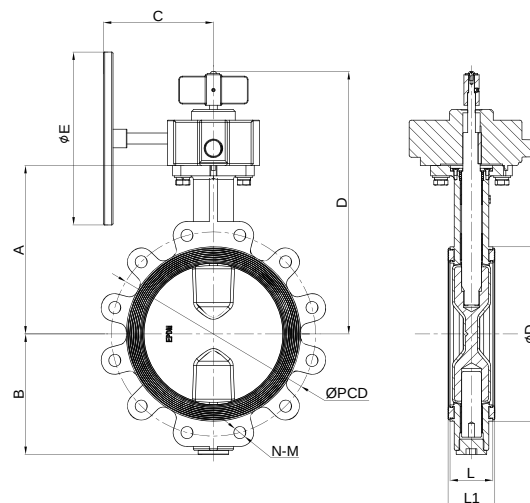


Lugged Butterfly Valve With Signal Gear Box

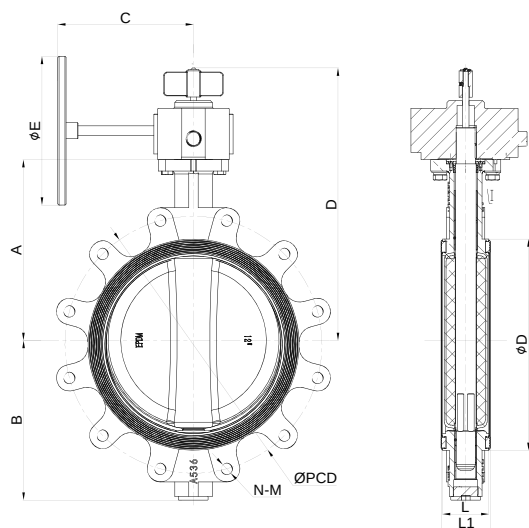
■ Fig.25L



DN50 ~ DN100



DN125 ~ DN250



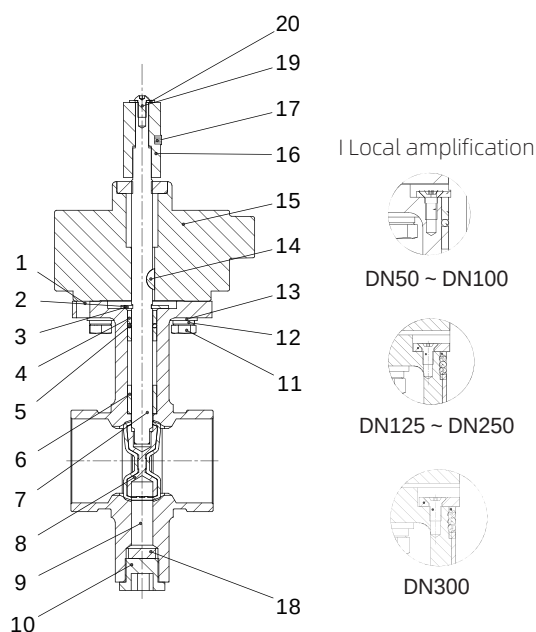
DN300

Dimension

DN	INCH	A mm	B mm	C mm	D mm	L mm	L1 mm	φD	φE	EN 1092-2 PN16		ASME B16.42 CL150	
										PCD	N-M	PCD	N-M
50	2"	140.5	77.0	110	262.4	43	47	φ82	φ108	φ125	4-M16	φ120.7	4-5/8-11 UNC
65	2½"	152.5	80.0	110	274.5	46	51	φ97	φ108	φ145	4-M16	φ139.7	4-5/8-11 UNC
80	3"	157.5	87.0	110	279.5	46	51	φ109	φ108	φ160	8-M16	φ152.4	4-5/8-11 UNC
100	4"	176.0	108.0	110	298.0	52	57	φ140	φ108	φ180	8-M16	φ190.5	8-5/8-11 UNC
125	5"	191.0	131.5	133	313.5	56	61	φ165	φ150	φ210	8-M16	φ215.9	8-3/4-10 UNC
150	6"	202.5	144.0	133	319.0	56	61	φ198	φ150	φ240	8-M20	φ241.3	8-3/4-10 UNC
200	8"	243.5	173.5	187	379.0	62	67	φ252	φ250	φ295	12-M20	φ298.5	8-3/4-10 UNC
250	10"	273.0	207.5	187	409.0	68	73	φ304	φ250	φ355	12-M24	φ362.0	12-7/8-9 UNC
300	12"	311.0	261.0	187	465.0	78	83	φ355	φ250	φ410	12-M24	φ431.8	12-7/8-9 UNC

Grooved Butterfly Valve With Signal Gear Box

■ Fig.25GG



Technical Specification

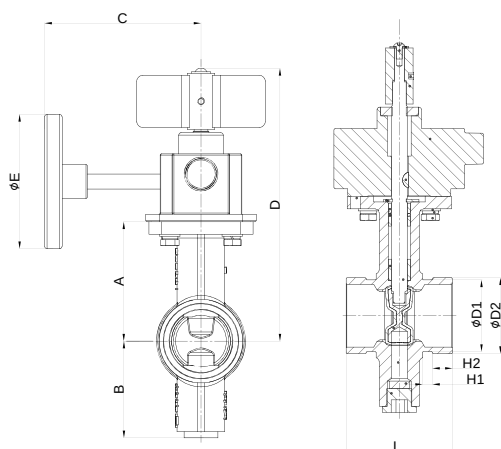
• Valve Standard	FM1112 / UL1091
• Face To Face Standard	MSS-SP67 Long
• Test Standard	FM1112 / UL1091
• Working Pressure	200PSI / 250PSI / 300PSI
• Working Temperature	-20°C ~ 100°C
• Connection Ends	AWWA C606 / VDS 2100

Material Specification

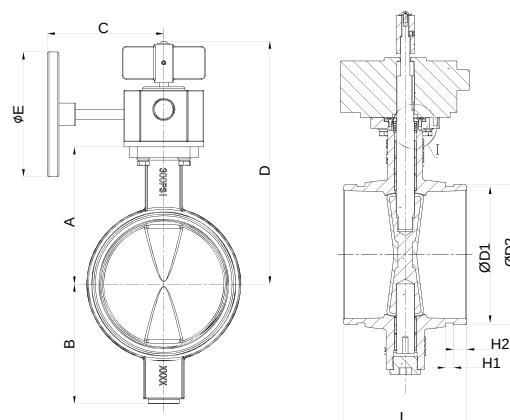
No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Upper Shaft Gland	Galvanized Carbon Steel	--
	Cross Recessed		--
3	Countersunk Head Screw	Galvanized Carbon Steel	--
4	Short Shaft Sleeve	Bronze (DN50 ~ DN100) Carbon Steel (DN125 ~ DN300)	C63000 --
5	O-Ring	EPDM	--
4	Long Shaft Sleeve	Bronze (DN50 ~ DN100) Carbon Steel (DN125 ~ DN300)	C63000 --
7	Upper Shaft	Stainless Steel	SS410
8	Disc	Ductile Iron+EPDM	ASTM A536 65-45-12
9	Lower Shaft	Stainless Steel	SS410
10	Hex Socket Plug	Stainless Steel	SS304
11	Hexagon Head Bolt	Stainless Steel	SS304
12	Spring Gasket	Stainless Steel	SS304
13	Flat Gasket	Stainless Steel	SS304
14	Half-Round Key	Steel	45#
15	Electrical Turbine Box	Ductile Iron	GGG40
16	Indicator Hexagon Flat	Ductile Iron	ASTM A536 65-45-12
17	End Setting Screw	Galvanized Carbon Steel	--
18	Rear Axle Pad (DN50, DN100) Hex Socket Flat	EPDM	--
19	Round Head Screw	Stainless Steel	SS304
20	Large Flat Pad Class A	Stainless Steel	SS304

Grooved Butterfly Valve With Signal Gear Box

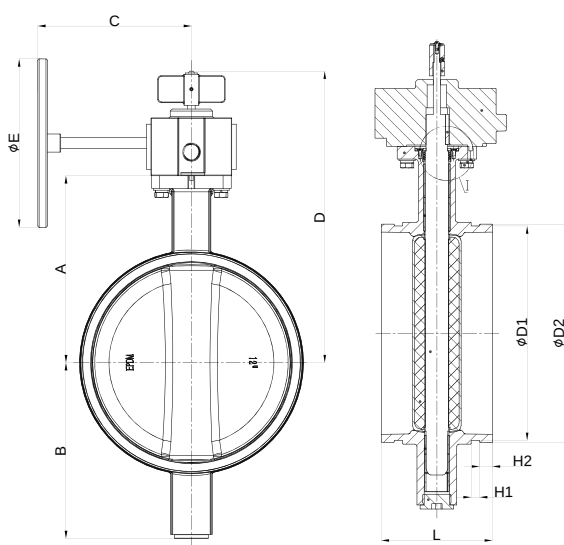
■ Fig.25GG



DN50 ~ DN100



DN125 ~ DN250



DN300

Dimension

DN	INCH	A mm	B mm	C mm	D mm	L mm	ΦE	AWWA C606				GB/T 8260			
								ΦD2	H1 mm	H2 mm	ΦD1	ΦD2	H1 mm	H2 mm	ΦD1
50	2"	95	77	110	217	84.5	Φ108	Φ60.33	7.93	15.88	Φ57.15	Φ60.30	7.93	15.88	Φ57.2
65	2½"	98	80	110	220	98.0	Φ108	Φ73.03	7.93	15.88	Φ69.09	Φ76.10	7.93	15.88	Φ72.3
80	3"	105	87	110	227	98.0	Φ108	Φ88.90	7.93	15.88	Φ84.94	Φ88.90	7.93	15.88	Φ84.9
100	4"	135	108	110	256	116.0	Φ108	Φ114.30	9.53	15.88	Φ110.08	Φ114.30	9.53	15.88	Φ110.1
125	5"	148	132	133	275	149.0	Φ150	Φ141.30	9.53	15.88	Φ137.03	Φ139.70	9.53	15.88	Φ135.5
150	6"	165	144	133	292	147.6	Φ150	Φ168.28	9.53	15.88	Φ163.96	Φ165.10	9.53	15.88	Φ160.9
200	8"	204	173	187	339	134.0	Φ250	Φ219.08	11.13	19.05	Φ214.40	Φ219.10	11.10	19.05	Φ214.4
250	10"	245	208	187	380	160.0	Φ250	Φ273.05	12.70	19.05	Φ268.28	Φ273.00	12.70	19.05	Φ268.3
300	12"	278	261	187	427	165.0	Φ250	Φ323.85	12.70	19.05	Φ318.30	Φ323.90	12.70	19.05	Φ318.3

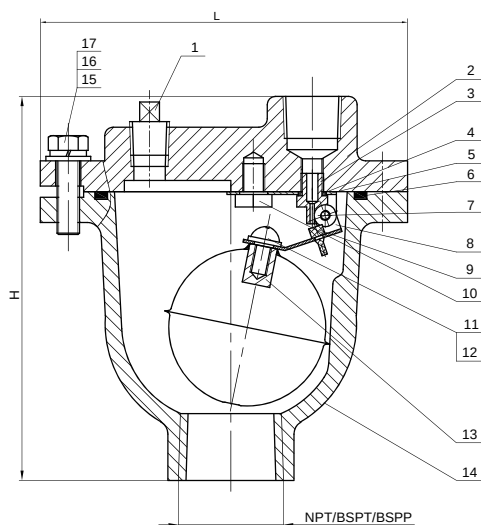
05

AIR VENT



Air Release Valve

■ Fig.9712



Technical Specification

- Valve Standard AWWA C550
- Working Pressure 200PSI
- Working Temperature -10°C ~ 120°C
- Connection Ends NPT / BSPT / BSPP

Material Specification

No.	Part	Material	Specification
1	Plug	Stainless Steel	SS304
2	Bonnet	Ductile Iron	ASTM A536 65-45-12
3	Sealing Seat	Brass	--
4	Sealing Washer	Viton/EPDM	--
5	Yoke	Stainless Steel	SS304
6	O-Ring	Viton/EPDM	--
7	Pin	Stainless Steel	SS304
8	Arm	Stainless Steel	SS304
9	Sealing Plug	Viton/EPDM	--
10	Bolt	Stainless Steel	A2-70
11	Screw	Stainless Steel	SS304
12	Snap Ring	Stainless Steel	SS201
13	Ball	Stainless Steel	SS304
14	Body	Ductile Iron	ASTM A5362
15	Bolt	Stainless Steel	A2-70
16	Spring Washer	Stainless Steel	SS304
17	Flat Washer	Stainless Steel	SS304

Dimension

DN	INCH	H mm	L mm
15	½"	140	134
20	¾"	140	134
25	1"	140	134

06

FIRE HYDRANT



Dry Barrel Fire Hydrant

■ Fig.1510

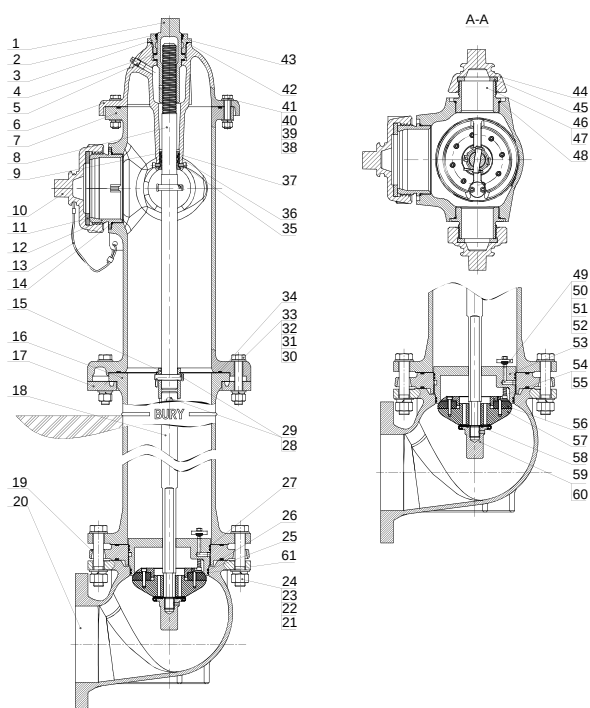


Technical Specification

• Design Standard	FM 1510 / UL 246 / AWWA C502
• Coating Standard	AWWA C550
• Nozzle Thread Standard	NFPA 1963
• Hose Nozzle	2½"-2
• Pumper Nozzle	4" or 4½"-1
• Mechanical Joint	Size: 6" ANSI / AWWA C111/A21.11 / ANSI / AWWA C153 / A21.53
• Flange End	Size: 6" ANSI Class 125 / 150 / BS EN 1092-2 PN10 / PN16
• Working Pressure	250PSI

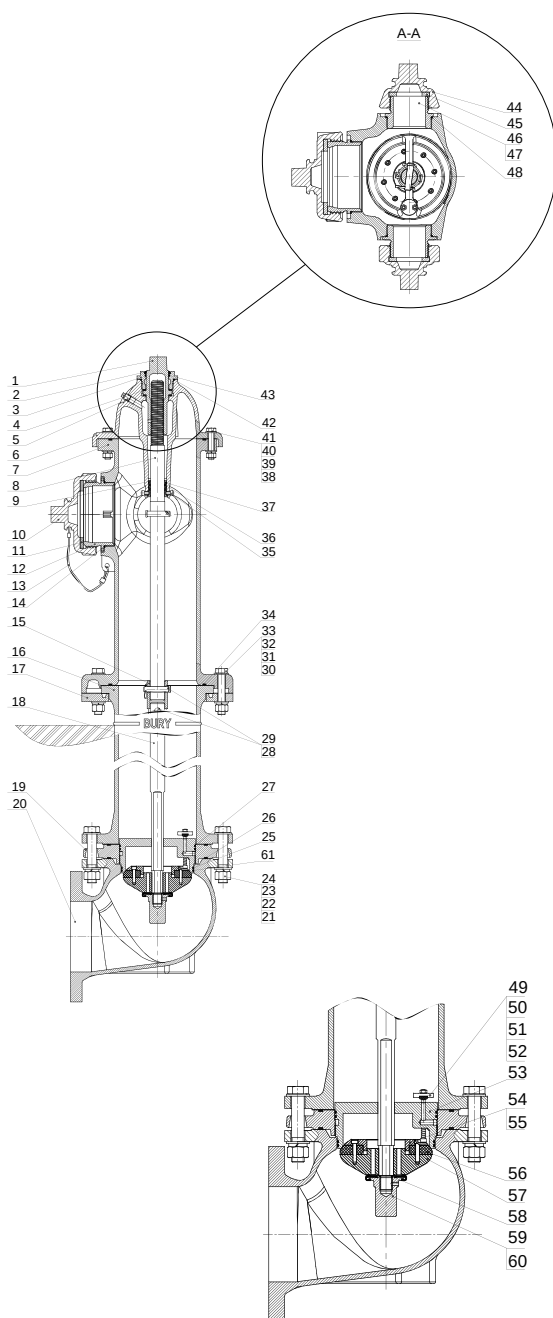
Material Specification

No.	Part	Material	Specification
1	Operating Nut	Brass	C84400
2	Dust Ring	EPDM	--
3	Lock Nut	Stainless Steel	CF8
4	Antifiction Pad	Bronze	C63000
5	Plug	Stainless Steel	SS304
6	Cover	Ductile Iron	ASTM A536 65-45-12
7	Top Body	Ductile Iron	ASTM A536 65-45-12
8	Top Shaft	Stainless Steel	SS420
9	Gland	Stainless Steel	SS304
10	Hose Nozzle Cap (4")	Ductile Iron	ASTM A536 65-45-12
	Hose Nozzle Cap (4½")	Ductile Iron	ASTM A536 65-45-12
11	Hose Nozzle Gasket (4")	EPDM	--
	Hose Nozzle Gasket (4½")	EPDM	--
12	Hose Nozzle (4")	Brass	C84400
	Hose Nozzle (4½")	Brass	C84400
13	Chain	Stainless Steel	SS304
14	O-Ring	EPDM	--
15	Coupling	Stainless Steel	SS420
16	Down Body	Ductile Iron	ASTM A536 65-45-12
17	Safety Flange	Cast Iron	HT200
18	Down Shaft	Stainless Steel	SS420
19	Drainage Ring Cover	Ductile Iron	ASTM A536 65-45-12
20	Elbow Body	Ductile Iron	ASTM A536 65-45-12
21	Hexagon Bolt	Stainless Steel	SS304



Dry Barrel Fire Hydrant

■ Fig.1510

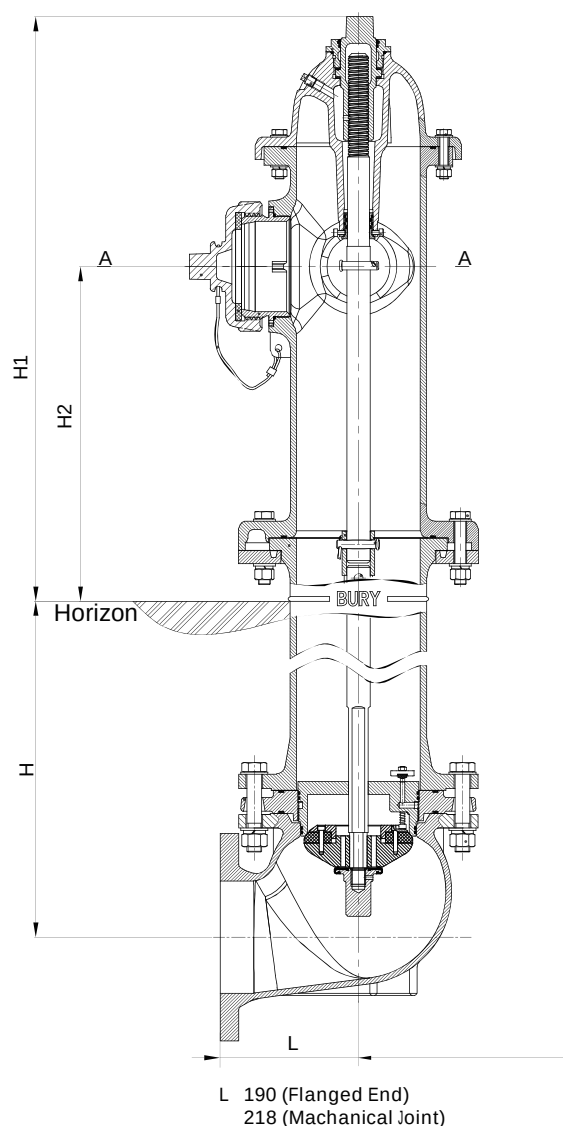


Material Specification

No.	Part	Material	Specification
22	Plain Washer	Stainless Steel	SS304
23	Lock Washer	Stainless Steel	SS304
24	Hexagon Nut	Stainless Steel	SS304
25	O-Ring	EPDM	--
26	Drain Valve Cover Seal	EPDM	--
27	O-Ring	EPDM	--
28	Pin Shaft	Stainless Steel	SS304
29	Pin	Stainless Steel	SS304
30	Hexagon Bolt	Stainless Steel	SS304
31	Plain Washer	Stainless Steel	SS304
32	Lock Washer	Stainless Steel	SS304
33	Hexagon Nut	Stainless Steel	SS304
34	Upper Plug Body Seal	EPDM	--
35	Hexagon Socket Head Cap Screws	Stainless Steel	SS304
36	O-Ring	EPDM	--
37	O-Ring	EPDM	--
38	Hexagon Bolt	Stainless Steel	SS304
39	Plain Washer	Stainless Steel	SS304
40	Lock Washer	Stainless Steel	SS304
41	Hexagon Nut	Stainless Steel	SS304
42	O-Ring	EPDM	--
43	O-Ring	EPDM	--
44	Hose Nozzle Cap	Ductile Iron	ASTM A536 65-45-12
45	Hose Nozzle Gasket	EPDM	--
46	Hose Nozzle	Brass	C84400
47	Hexagon Socket Set Screws	Stainless Steel	SS304
48	O-Ring	EPDM	--
49	Drain Valve Cover	Brass+EPDM	C84400
50	Spring	Stainless Steel	SS304
51	Hexagon Socket Head Cap Screws	Stainless Steel	SS304
52	Hex Nuts	Stainless Steel	SS304
53	Seat Ring	Brass	C84400
54	Tablet	Ductile Iron	ASTM A536 65-45-12
55	Hexagon Socket Head Cap Screws	Stainless Steel	SS304
56	Disc Seal	EPDM	--
57	Disc	Ductile Iron	ASTM A536 65-45-12
58	O-Ring	EPDM	--
59	Nut Press Ring	Ductile Iron+EPDM	ASTM A536 65-45-12
60	Hexagon Socket Set Screws	Stainless Steel	SS304
61	O-Ring	EPDM	--

Dry Barrel Fire Hydrant

■ Fig.1510



L 190 (Flanged End)
218 (Mechanical Joint)

Dimension

Burial Depth	H mm	H1 mm	H2 mm
1'	326	804	460
2'	543	804	460
3'	848	804	460
3'-6"	1001	804	460
4'-0"	1153	804	460
4'-6"	1306	804	460
5'-0"	1458	804	460
5'-6"	1611	804	460
6'-0"	1763	804	460
6'-6"	1916	804	460
7'-0"	2068	804	460

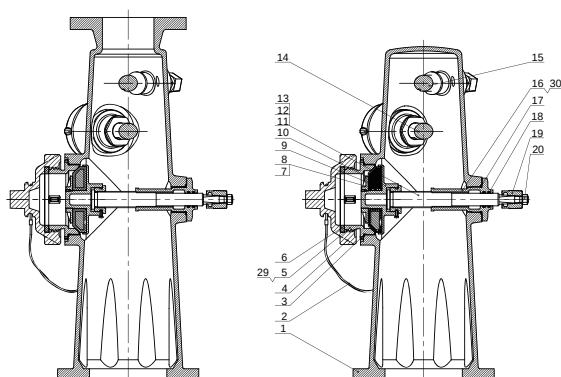
Wet Barrel Fire Hydrant

■ Fig.1511



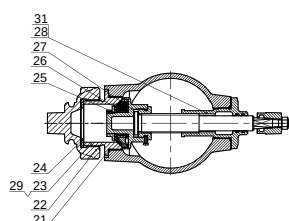
2H1PM

2H1P



2H1PM

2H1P



Technical Specification

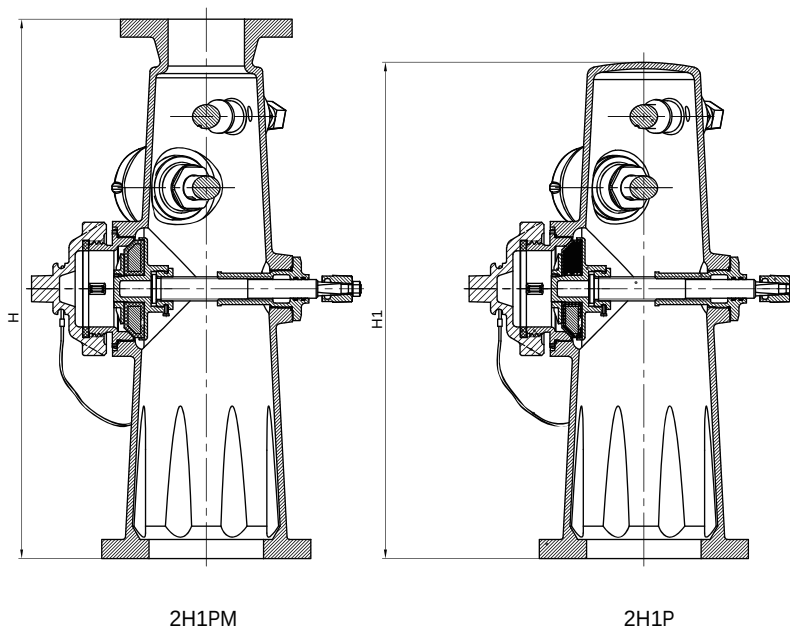
• Design Standard	FM 1511 / UL 246 / AWWA C503
• Coating Standard	AWWA C550
• Nozzle Thread Standard	NFPA 1963
• Hose Nozzle	2½"-2
• Pumper Nozzle	4" or 4½"-1
• Monitor Flange	Size: 4" ANSI Class 125/150
• Inlet Flange Connection	Size: 6" ANSI Class 125/150 BS EN 1092-2 PN10/PN16
• Working Pressure	250PSI
• Coating	The valve are with epoxy coating. Red (RAL3002)/Yellow (RAL1003)

Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Chain	Stainless Steel	SS304
3	O-Ring	EPDM	--
4	Pumper Nozzle Cap	Ductile Iron	ASTM A536 65-45-12
5	Pumper Nozzle	Brass	C84400
6	Pumper Nozzle Gasket	EPDM	--
7	4½" Gland	Stainless Steel	CF8
8	Hex. Socket Set Screws With Flat Point	Steel	A2
9	4½" Disc Sealing Ring	EPDM	--
10	4½" Disc	Steel	CF8
11	Shaft One	Stainless Steel	SS304/ SS420
12	Fasten Nut	Stainless Steel	CF8
13	Hex. Socket Cap Srew	Stainless Steel	A2-70
14	Shaft Two	Stainless Steel	SS304/ SS420
15	Shaft Three	Stainless Steel	SS304/ SS420
16	4½" Shaft Nut	Brass	C84400
17	O-Ring	EPDM	--
18	O-Ring	EPDM	--
19	Operating Nut	Stainless Steel	CF8
20	Hex Nut	Stainless Steel	A2-70
21	O-Ring	EPDM	--
22	Hose Nozzle Cap	Ductile Iron	ASTM A536 65-45-12
23	Hose Nozzle	Brass	C84400
24	Hose Nozzle Gasket	EPDM	--
25	2½" Gland	Stainless Steel	CF8
26	2½" Disc Sealing Ring	EPDM	--
27	2½" Disc	Stainless Steel	CF8
28	Shaft Two Stem Nut	Brass	C84400
29	Hex. Socket Set Screws With Flat Point	Stainless Steel	SS304
30	Hex. Socket Set Screws With Flat Point	Stainless Steel	SS304
31	Shaft Three Stem Nut	Brass	C84400

Wet Barrel Fire Hydrant

■ Fig.1511



Dimension

SIZE	H mm	H1 mm
2H1PM	720	-
2H1P	-	662.5

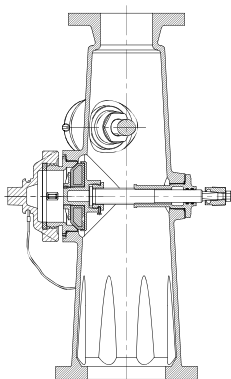
Wet Barrel Fire Hydrant

■ Fig.1511

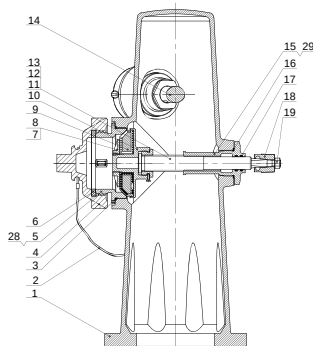


1H1PM

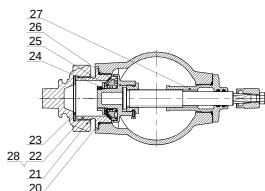
1H1P



1H1PM



1H1P



Technical Specification

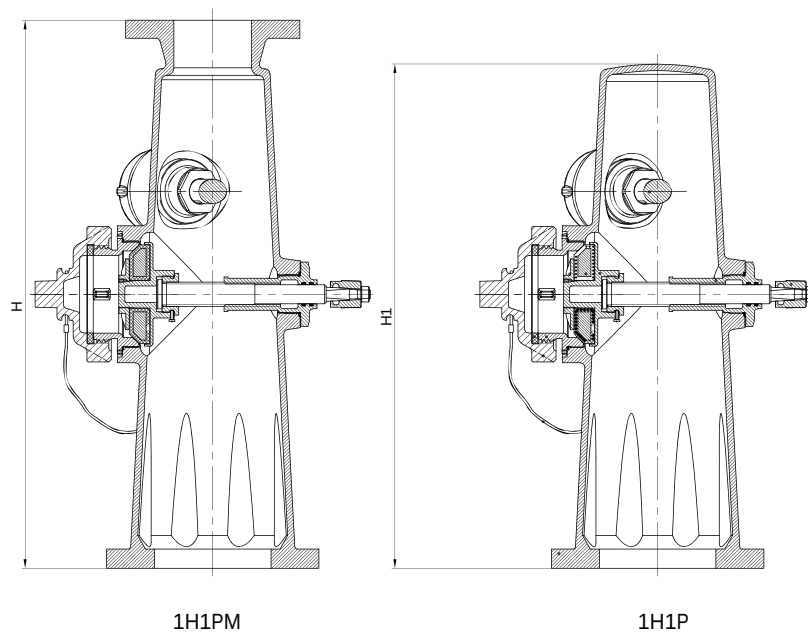
- Design Standard FM 1511 / UL 246 / AWWA C503
- Coating Standard AWWA C550
- Nozzle Thread Standard NFPA 1963
- Hose Nozzle 2½"-1
- Pumper Nozzle 4½" or 4"-1
- Monitor Flange Size: 4" ANSI Class 125/150
BS EN 1092-2 PN10/PN16
- Inlet Flange Connection Size: 6" ANSI Class 125/150
BS EN 1092-2 PN10/PN16
- Working Pressure 250PSI
- Coating The valve are with epoxy coating.
Red (RAL3002)/Yellow (RAL1003)

Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Chain	Stainless Steel	SS304
3	O-Ring	EPDM	--
4	Pumper Nozzle Cap (4", 4½")	Ductile Iron	ASTM A536 65-45-12
5	Pumper Nozzle (4", 4½")	Brass	C84400
6	Pumper Nozzle Gasket (4", 4½")	EPDM	--
7	4½" Gland	Stainless Steel	CF8
8	Hex. Socket Set Screws With Flat Point	Steel	A2
9	4½" Disc Sealing Ring	EPDM	--
10	4½" Disc	Steel	CF8
11	Shaft One	Stainless Steel	SS304/ SS420
12	Fasten Nut	Stainless Steel	CF8
13	Hex. Socket Cap Srcw	Stainless Steel	A2- 70
14	Shaft Two	Stainless Steel	SS304/ SS420
15	4½" Shaft Nut	Brass	C84400
16	O-Ring	EPDM	--
17	O-Ring	EPDM	--
18	Operating Nut	Stainless Steel	CF8
19	Hex Nut	Stainless Steel	A2- 70
20	O-Ring	EPDM	--
21	Hose Nozzle Cap	Ductile Iron	ASTM A536 65-45-12
22	Hose Nozzle	Brass	C84400
23	Hose Nozzle Gasket	EPDM	--
24	2½" Gland	Stainless Steel	CF8
25	2½" Disc Sealing Ring	EPDM	--
26	2½" Disc	Stainless Steel	CF8
27	Shaft Two Stem Nut	Brass	C84400
28	Hex. Socket Set Screws With Flat Point	Stainless Steel	SS304
29	Hex. Socket Set Screws With Flat Point	Stainless Steel	SS304

Wet Barrel Fire Hydrant

■ Fig.1511



Dimension

SIZE	H mm	H1 mm
1H1PM	720	-
1H1P	-	662.5

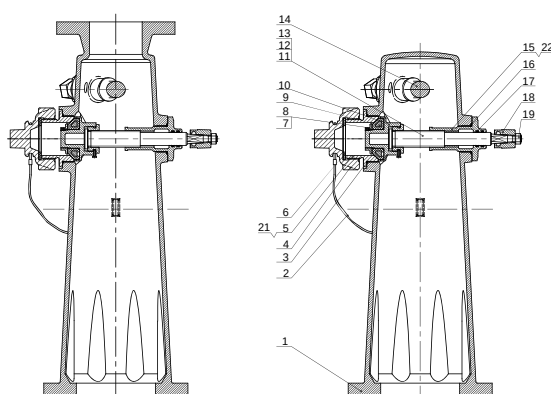
Wet Barrel Fire Hydrant

■ Fig.1511



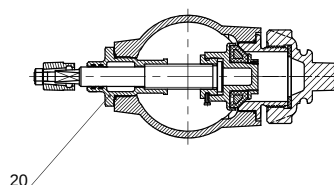
2H0PM

2H0P



2H0PM

2H0P



Technical Specification

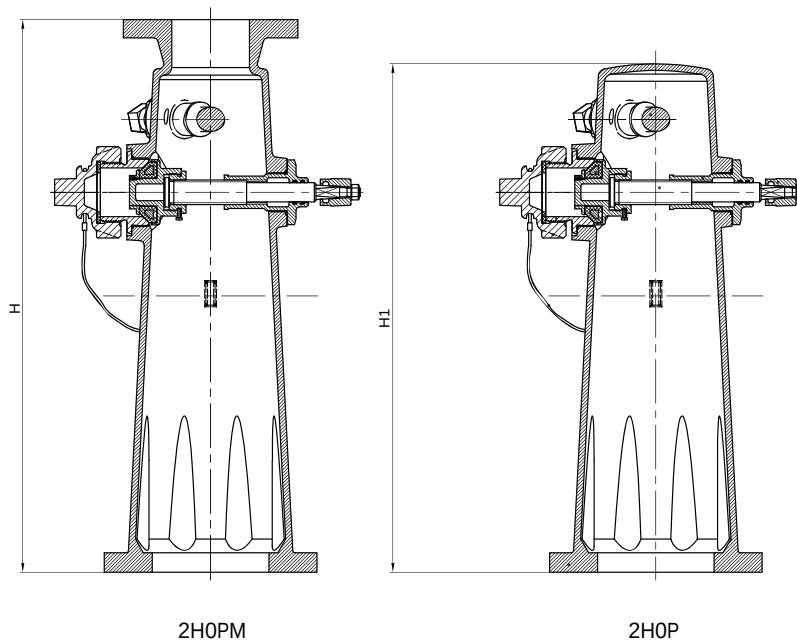
• Design Standard	FM 1511 / UL 246 / AWWA C503
• Coating Standard	AWWA C550
• Nozzle Thread Standard	NFPA 1963
• Hose Nozzle	2½"-2
• Monitor Flange	Size: 4" ANSI Class 125/150 BS EN 1092-2 PN10/PN16
• Inlet Flange Connection	Size: 6" ANSI Class 125/150 BS EN 1092-2 PN10/PN16
• Working Pressure	250PSI
• Coating	The valve are with epoxy coating. Red (RAL3002)/Yellow (RAL1003)

Specification

No.	Part	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Chain	Stainless Steel	SS304
3	O-Ring	EPDM	--
4	Pumper Nozzle Cap (4", 4½")	Ductile Iron	ASTM A536 65-45-12
5	Hose Nozzle	Brass	C84400
6	Hose Nozzle Gasket	EPDM	--
7	2½" Gland	Stainless Steel	CF8
8	Hex. Socket Set Screws With Flat Point	Steel	A2
9	2½" Disc Sealing Ring	EPDM	--
10	2½" Disc	Steel	CF8
11	Shaft Two	Stainless Steel	SS304/ SS420
12	Fasten Nut	Stainless Steel	CF8
13	Hex. Socket Cap Srew	Stainless Steel	A2- 70
14	Shaft Three	Stainless Steel	SS304/ SS420
15	Shaft Two Stem Nut	Brass	C84400
16	O-Ring	EPDM	--
17	O-Ring	EPDM	--
18	Operating Nut	Stainless Steel	CF8
19	Hex Nut	Stainless Steel	A2- 70
20	Shaft Three Stem Nut	Brass	C84400
21	Hex. Socket Set Screws With Flat Point	Stainless Steel	SS304
22	Hex. Socket Set Screws With Flat Point	Stainless Steel	SS304

Wet Barrel Fire Hydrant

■ Fig.1511



Dimension

SIZE	H mm	H1 mm
2H0PM	720	-
2H0P	-	662.5

07

WATER FLOW DETECTOR WITH RETARD



Water Flow Detector With Retard

■ Fig.1042-V



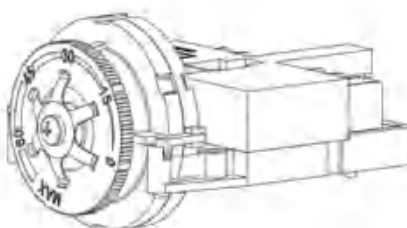
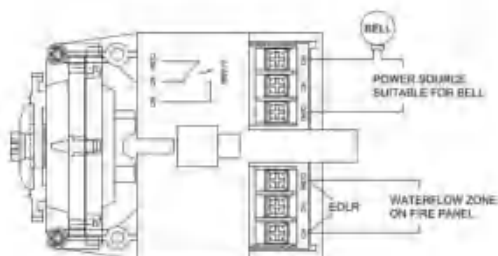
- The 1042-V shall be installed on system piping as designated on the drawing and/or as specified herein. Water flow indicators shall mount on any clear pipe span of the appropriate normal size, either a horizontal or vertical pipe. The indicators shall have a sensitivity in the range of 4-10 gallons per minute and a static pressure rating up to 450psi for 2" -8" (50mm thru 200mm) pipes. The indicator shall respond to water flow in the specified direction after a preset time that is field adjustable. The retard structure shall be a sealed mechanical pneumatic unit with visual time delay adjustment.
- Note: Cover material is Aluminum, alternative Plastic Cover.



Technical Specification

- Working Pressure Max3.1Mpa (450psi-FM)
Max2.1Mpa (300psi-UL)
- Sensitivity 15.0-37.5L/min (4-10GPM)
- Contact Rating Two sets of SPDT (Form C)
10.1A@125/250VAC
2A@24VDC
- Enclosure Rating NEMA 4- suitable for indoor/outdoor
- Compatible Pipe Steel pipe, schedule 10 through 40
- Operating Temperature 4.5°C ~ 49°C (40°F ~ 120°F)
- Maximum Surge 5.5m/s (18FPS)
- Retard Structure Time delay adjustment via rotate dial
- Two sets Micro-switch 100% synchronization
- Tamper Device Special tamper screws to prevent disassembly
- Standards GB5135.7-2018 & FM1042-2016&UL346

Typical Electrical Connections and Time Delay Adjustment



Retard Structure can be set from "0" to "MAX" position, delay time can be set from 0~90secs

Dimensions and Model

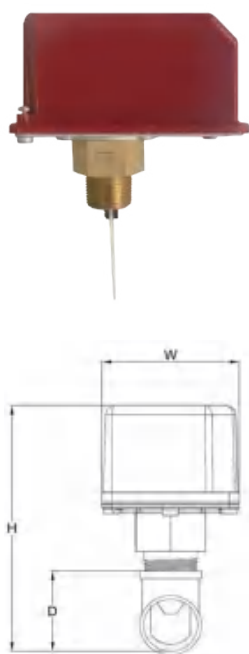
Model	Description	Pipe Size	Hole Size
1042-V-2	Vane-Type Water flow indicator	50mm (2 ")	31.8mm(1-1/4 ")
1042-V-2.5	Vane-Type Water flow indicator	65mm (2.5 ")	31.8mm(1-1/4 ")
1042-V-3	Vane-Type Water flow indicator	80mm (3 ")	50.8mm(2 ")
1042-V-4	Vane-Type Water flow indicator	100mm (4 ")	50.8mm(2 ")
1042-V-6	Vane-Type Water flow indicator	150mm (6 ")	50.8mm(2 ")
1042-V-8	Vane-Type Water flow indicator	200mm (8 ")	50.8mm(2 ")

Water Flow Detector With Retard



■ Fig.1042-T

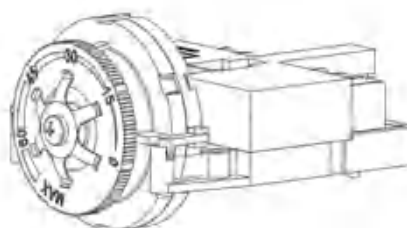
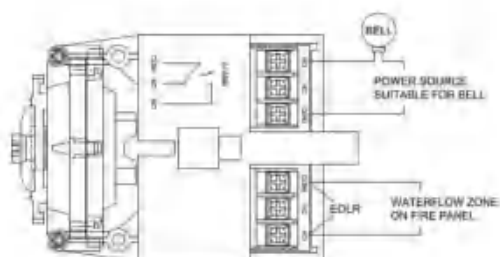
- The 1042-T shall be installed on a tee that has a 1 inch NPT branch include 1in.、 1 1/4 in.、 1 1/2 in and 2in. as designated on the drawing and/or as specified herein. Water flow indicators shall mount on any clear pipe span of the appropriate normal size, either a horizontal or vertical pipe. The indicators shall have a sensitivity in the range of 4-10 gallons per minute and a static pressure rating up to 450psi for 1" -2" (DN25 ~ DN50) pipes. The indicator shall respond to water flow in the specified direction after a preset time delay that is field adjustable. The retard structure shall be a sealed mechanical pneumatic unit with visual time delay adjustment.
- Note: Cover material is Aluminum, alternative Plastic Cover.



Technical Specification

- Working Pressure Max3.1Mpa (450psi)
- Sensitivity 15.0-37.5L/min (4-10GPM)
- Contact Rating Two sets of SPDT (Form C)
10.1A@125/250VAC
2A@24VDC
- Enclosure Rating NEMA 4- suitable for indoor/outdoor
- Compatible Pipe Steel pipe, schedule 10 through 40
- Operating Temperature 4.5°C ~ 49°C (40°F ~ 120°F)
- Maximum Surge 5.5m/s (18FPS)
- Retard Structure Time delay adjustment via rotate dial
- Two Sets Micro-switch 100% synchronization
- Tamper Device Special tamper screws to prevent disassembly
- Standards GB5135.7-2018 & FM1042-2016&UL346

Typical Electrical Connections and Time Delay Adjustment



Retard Structure can be set from "0" to "MAX" position, delay time can be set from 0~90secs

Dimensions

DN	INCH	W mm	H mm	D (Depth)
25	1"	95/4	169/7	54/2
32	1 1/4"	95/4	177/7	63/2
40	1 1/2"	95/4	184/7	69/3
50	2"	95/4	197/8	82/3

08

VALVE SUPERVISORY SWITCHES



Supervisory Switch for OS&Y Gate Valve

■ Fig.OSY-G1



Description

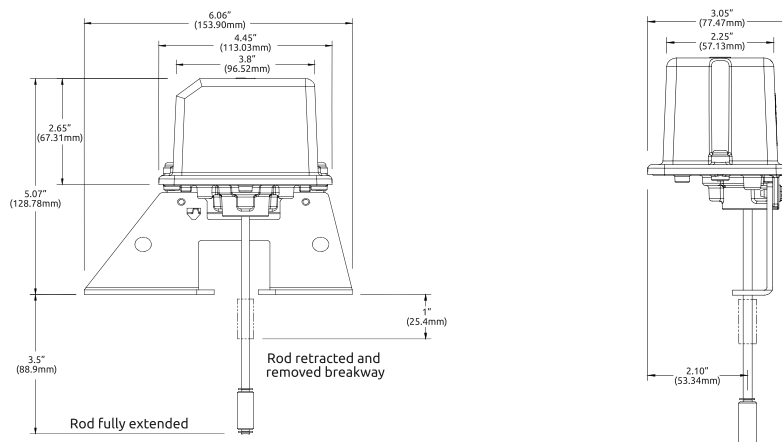
The OSY-G1 supervisory switch is installed on the Outside Screw & Yoke (OS&Y) Gate Valve and is used to monitor the open position of the valve. OSY-G1 contains one set of SPDT (Form C) contacts. These switches mount conveniently to OS&Y Gate Valves ranging from 2" to 12" diameter.

Features and Specifications

- One SPDT contact model
- Contact Rating: 10Amps (125/250 VAC) / 2Amps (24 VDC)
- Enclosure Rating: NEMA 4- suitable for indoor / outdoor
- Conduit opening of ½ "
- Special tamper screws to prevent disassembly
- Working Temperature: 0°C ~ 60°C
- Adjustable length trip rod
- 3 position switch monitors vandal and valve closed signals
- Cover Material: ABS Plastic (Aluminium cover available upon request)
- Service use on NFPA-13, NFPA-13D, NFPA-13R & NFPA-72



Dimensions



Operation Method

The OSY-G1 supervisory switch is a 3 position switch. The center position is the normal installation position. Normal is when the switch is installed on the OS&Y valve, the valve is fully open and the trip rod of the supervisory switch is in the groove of the valve stem. Closing the valve causes the trip rod to ride up out of the groove and activates the switches. Removing the supervisory switch from the valve causes the spring to pull the trip rod in the other direction and activates the switches.

Installation Guide

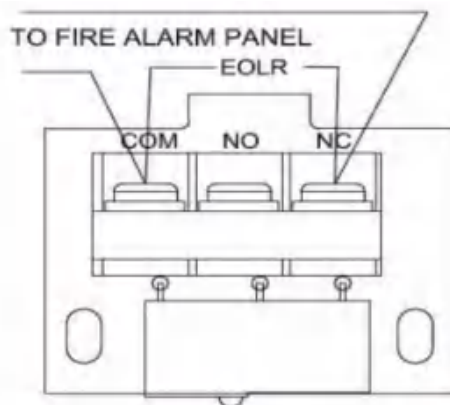
The OSY-G1 supervisory switch can be mounted on outside screw & yoke (OS&Y) gate valves between ½" and 12" in diameter. Do not install the supervisory switch with its actuating lever pointing upward as the water may leak into the switch. For narrow yoke valves, installing the valve with mounting bolts inside the yoke is recommended. However, some valves may have yokes that are too narrow for this positioning. If this is the case, position the bolts on the outside of the yoke. The supervisory switch is equipped with a ground screw inside the switch housing near the conduit for applications where grounding is required.

Supervisory Switch for OS&Y Gate Valve

■ Fig.OSY-G1



Electrical Connections



Testing

The operation of the OSY-1 supervisory switch and its associated protective monitoring system shall be tested, and maintained in accordance with all applicable local and national codes and standards and / or department of local authority. A minimum test shall consist of turning the valve wheel towards the closed position. The supervisory switch shall operate within the first two revolutions of the wheel. Fully close the valve and ensure that the supervisory switch does not restore. Fully open the valve and ensure that the supervisory switch restores to normal only when the valve is fully opened.

Fully dose the gate valve to ensure that the stem threads do not activate the switch. The switch being activated by the stem threads could result in a false valve open indication.

Supervisory Switch for Post Indicator Valve

■ Fig.PIV-G1



Description

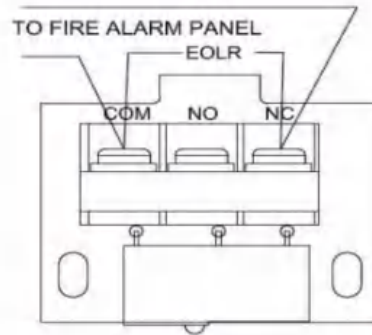
The PIV-G1 supervisory switch is used to monitor the open position of fire sprinkler control valves of the wall and yard post indicator valve. PIV-G1 supervisory switches shall be mounted so as not to interfere with the normal operation of the valve and shall be adjusted to operate with two revolutions of the valve control or when the stem has moved no more than one-fifth of the distance from its normal position. The PIV-G1 supervisory switch shall provide a side entrance for ½" conduit and incorporate a ½"NPT nipple for attachment to the valve body.

Features and Specifications

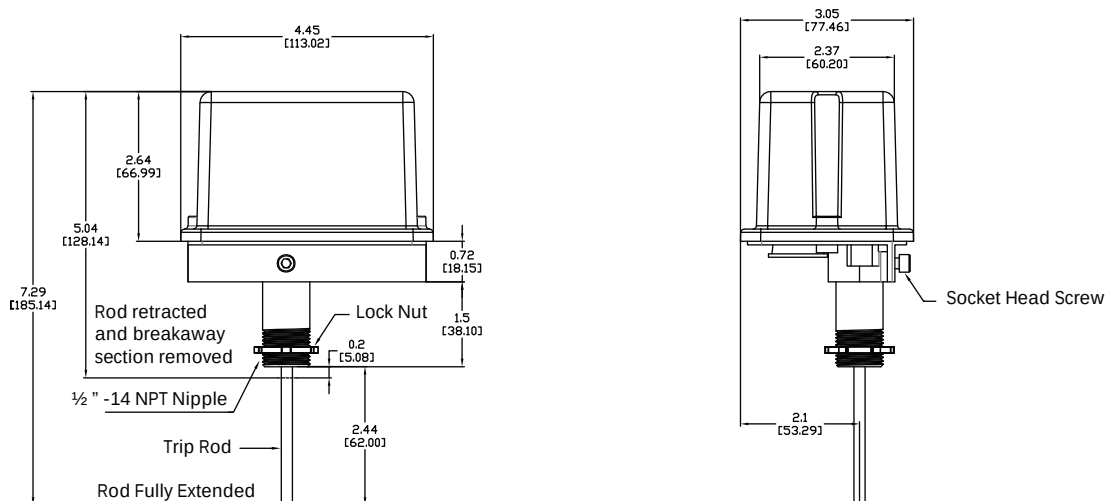
- Conforms to UL346
- Fine adjustment feature for fast & easy installation
- One SPDT contact model (Form C)
- Contact Rating: 10.1Amps (125/250 VAC) / 2Amps (24 VDC)
- Enclosure Rating: NEMA 4- suitable for indoor / outdoor
- Conduit opening of ½"
- Special tamper screws to prevent disassembly
- Working Temperature: 0°C ~ 60°C
- Cover Material: ABS Plastic (Aluminium cover available upon request)



Electrical Connections



Dimensions



09

BRASS VALVE



Brass Valve Test and Drain

■ Fig.1601

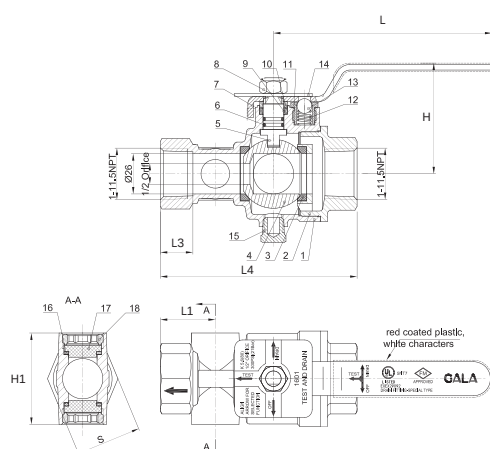


Technical Specification

- Valve Standard: Positioning Of Handle For Off Testing Or Drain
Only 2 Threaded Connections
Large, Integral Sight Glass On Both Sides
½" (Nominal) Test Orifice
K Factor: 5.6
- Working Pressure: 300PSI

Material Specification

No.	Part	Material	Specification
1	Body	Brass	C37700
2	Cap	Brass	C37700
3	Seal	PTFE	--
4	Ball	Brass	C37700
5	Stem	Brass	C37700/HPb59-1
6	O-Ring	NBR	--
7	Handle	Carbon Steel/Stainless Steel	Q235A/SS304
8	Nut	Carbon Steel/Stainless Steel	Q235A/SS304
9	Gland Packing	PTFE	--
10	Gland Ring	Brass	C37700
11	Gland Nut	Brass	C37700
12	Spring	Stainless Steel	SS302/SS304
13	Steel Ball	Stainless Steel	SS304
14	Indicator Plate	Carbon Steel/Stainless Steel	Q235A/SS304
15	Plug	Brass	C37700
16	Washer	NBR	--
17	Sight Glass	PC	--
18	Retaining Ring	Brass	C37700



Dimension

DN	INCH	L mm	L1 mm	S mm	H mm	H1 mm	L3 mm	L4 mm
25	1"	141	36	42	72	59	21	127
32	1¼"	141	36	42	72	59	21	127
40	1½"	161	40	58	89	80	21	127
50	2"	161	40	-	89	80	21	127

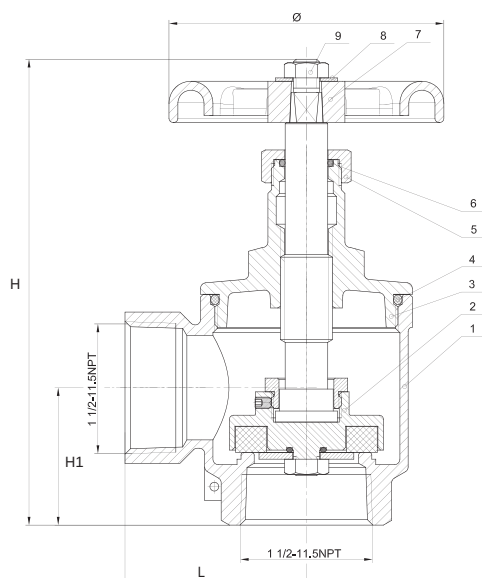
Brass Valve Hose Valve

■ Fig.1615



Technical Specification

- Valve Standard Used with a fire hose rack assembly or as a fire dept outlet connection.
FEMALE x MALE
FEMALE x MALE
GROOVE x MALE
- Standard Equipment Outlet forge brass valve
Red hand wheel
FNPSH x MNPSH (DN40, DN65)
FNPT x FNPT (DN40, DN65)
FNPSH x FNPSH (DN40, DN65)
FNPT x MNYC (DN65)
GRV x MNH (DN65)
GRV x MNYC (DN65)
MNH x MNYC (DN65)
- Working Pressure 300PSI



Material Specification

No.	Part	Material	Specification
1	Body	Brass	C37700
2	Spool Assembly	--	--
3	Bonnet	Brass	C37700
4	O-Ring	EPDM	--
5	Compress Nut	Brass	C37700
6	O-Ring	EPDM	--
7	Wheel	Ductile Iron/Al	QT400-18/ZL102
8	Washer	Stainless Steel	SS304
9	Wheel Nut	Brass/Stainless	C37700/SS304

Dimension

SIZE	L mm	H mm	H1 mm	φ
1½"x1½"	66	169	50	φ100
2½"x2½"	84	223	68	φ127

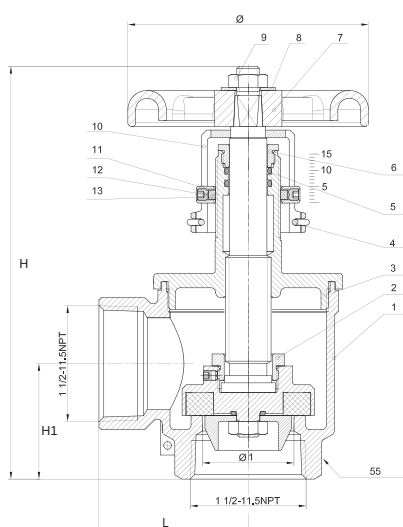
Brass Valve Pressure Reducing-Angle Valve

■ Fig.1620



Technical Specification

- Valve Standard 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
FEMALE x FEMALE
- Standard Equipment Outlet forge brass valve
Red hand wheel
FEMALE NPT x MALE NH (1½", 2½")
FEMALE NPT x FEMALE NPT (½", 2½")
Rc x M78 x 2 (2½")
- Working Pressure FM 175PSI / 300PSI
UL 175PSI



Material Specification

No.	Part	Material	Specification
1	Body	Brass	C37700
2	Spool Assembly	--	--
3	Bonnet	Brass	C37700
4	Spring Clip	Stainless Steel	SS304
5	O-Ring	EPDM	--
6	Gland Nut	Brass	C37700
7	Wheel	Al	QT400-18/ZL102
8	Washer	Stainless Steel	SS304
9	Nut	Brass/Stainless	C37700/SS304
10	Setting Indicator	Brass	C37700
11	Collar	Brass	C37700
12	Screw	Stainless Steel	SS304
13	Limit Pad	PA6	--

Dimension

SIZE	L mm	H mm	H1 mm	Φ
1½"x1½"	62	171	48	Φ100
2½"x2½"	83	231	66.5	Φ127

Brass Valve Ball Valve

■ Fig.1640

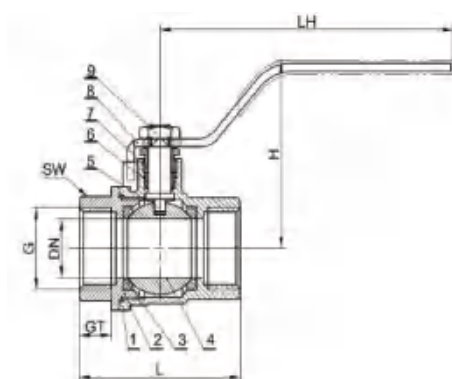


Technical Specification

- Valve Standard Brass ball valve (Full port)
Steel handle with plastic handle
FM/UL Certificated Size: 1/4", 3/8"
1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
- Working Pressure FM 300PSI / UL 600PSI

Material Specification

No.	Part	Material	Specification
1	Body	Brass	C37700
2	Bonnet	Brass	C37700
3	Seat	PTFE	--
4	Ball	Brass	C37700
5	Stem	Brass	HPb59-1
6	Packing	PTFE	--
7	Gland	Brass	HPb59-1
8	Handle	Carbon Steel	Q235A
9	Nut	Carbon Steel	Q235A



Dimension

G	DN	L mm	H mm	SW mm	Gt mm	LH mm
NPT 1/2"-14	14.5	57	51.5	25	15.5	89
NPT 3/4"-14	19.5	63	61	31	16	104
NPT 1"-11.5	24.5	75.5	63.5	38	19	117.5
NPT 1 1/4"-11.5	32	86.5	70	47	19.5	117.5
NPT 1 1/2"-11.5	40	94.2	94	53	19.5	145
NPT 2"-11.5	50	108	102	65	20	145

Fire Department Connections

■ Fig.1650



Description

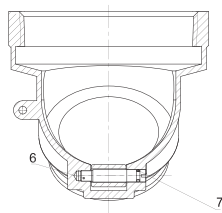
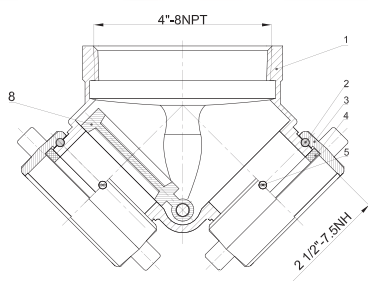
GALA FM Approved and UL listed Fire Department Connections are designed and manufactured in accordance with UL 405 - Standard for Fire Department Connections. The valve is casted from solid brass alloy to extend its service life.

Only straight type have FM/UL Approved.

Accessories haven't FM/UL Approved.

Features

- The brass seat is integrated with brass body.
- 2.5" swivels are pin lug design for easy operation.
- Compatible with local fire service requirements.
- Breakable plastic plug to prevent debris from being accidentally introduced into the water way.
- Inlet x Outlet: NSTxNPT.



Technical Specification

- Working Pressure 300PSI

Installation

The Fire Department Connection is provided with standard taper pipe threads which conforms to ANSI B2.1 and pin lug hose thread swivels for coupling hoses. Prior to installation, Apply pipe joint compound or PTFE tape on male threads, then, tighten it one full turn after tightening with hand, and make sure Connections are aligned accordance to the requirement.

Material Specification

No.	Part	Material	Specification
1	Body	Brass	C37700
2	Ball Bearing	Stainless Steel	SS304
3	Coupling	Brass	C37700
4	Sealing	EPDM	--
5	Screw	Brass/Stainless Steel	C46500/SS304
6	Hinge Pin	Brass	C37700
7	O-Ring	EPDM	--
8	Clapper	Brass	C37700

Dimension

SIZE	Type	Working Pressure	Test Pressure	Installation	Swivel Thread
4x2.5x2.5	Straight	300psi	600psi	4"F.NPT	2-F.NNH (NST)

Brass Valve Fire Department Connections

■ Fig.1650



Wall Plates

The wall plates are constructed of corrosion resistant aluminium alloy with marking "AUTO SPKR" and "FIRE DEPT CONNECTION"



Caps

The breakaway caps are supplied in heavy duty plastic or cast aluminium alloy for the protection of 2½ inlets.

Fire Department Connections

■ Fig.1652



Description

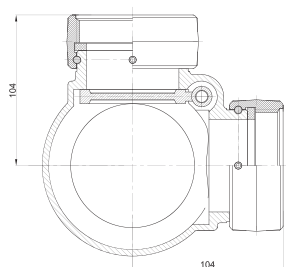
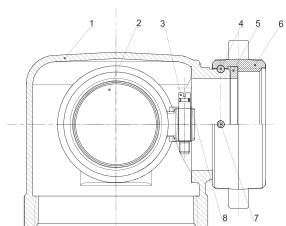
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Only straight type have FM/UL Approved.

Accessories haven't FM/UL Approved.

Features

- The brass seat is integrated with brass body.
- 2.5" swivels are pin lug design for easy operation.
- Compatible with local fire service requirements.
- Breakable plastic plug to prevent debris from being accidentally introduced into the water way.
- Inlet x Outlet: NSTxNPT.



Technical Specification

- Working Pressure 300PSI
- Size 4"x2-1/2"x2-1/2"

Installation

The Fire Department Connection is provided with standard taper pipe threads which conforms to ANSI B2.1 and pin lug hose thread swivels for coupling hoses. Prior to installation, Apply pipe joint compound or PTFE tape on male threads, then, tighten it one full turn after tightening with hand, and make sure Connections are aligned accordance to the requirement.

Material Specification

No.	Part	Material	Specification
1	Body	Brass	C37700
2	Clapper	Brass	C37700
3	Hinge Pin	Brass	C37700
4	Ball Bearing	Stainless Steel	SST304
5	Sealing	EPDM	--
6	Coupling	Brass	C37700
7	Screw	Brass/Stainless Steel	C46500/SST304
8	O-Ring	EPDM	--

Dimension

SIZE	Type	Working Pressure	Test Pressure	Installation	Swivel Thread
4x2.5x2.5	90°	300psi	600psi	4"F.NPT	2-F.NNH (NST)

Fire Department Connections

■ Fig.1652



Wall Plates

The wall plates are constructed of corrosion resistant aluminium alloy with marking "AUTO SPKR" and "FIRE DEPT CONNECTION"



Caps

The breakaway caps are supplied in heavy duty plastic or cast aluminium alloy for the protection of 2½ inlets.

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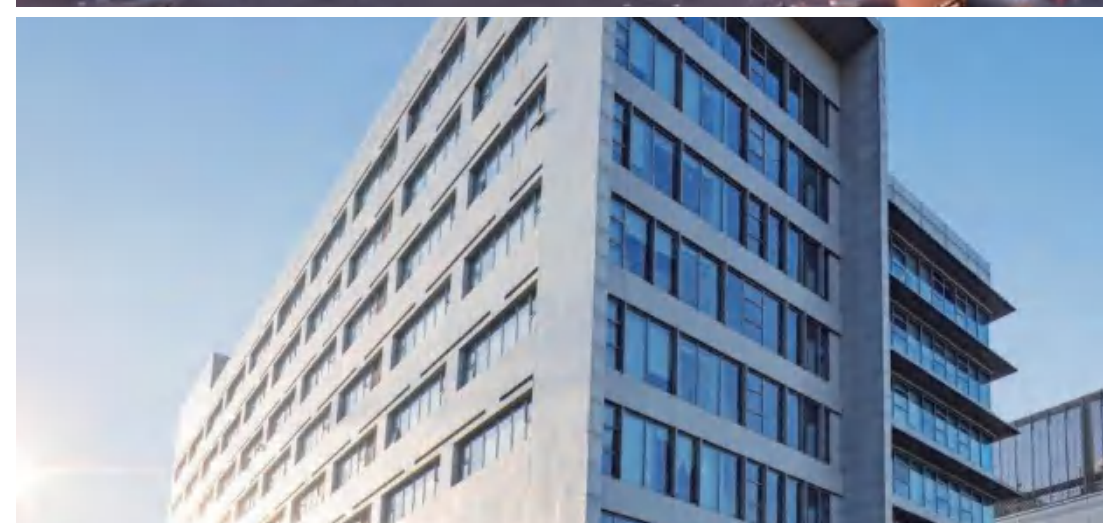
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