



FIRE PROTECTION PRODUCTS



- WET ALARM VALVES
- BUTTERFLY VALVES
- GATE VALVES
- POST INDICATORS
- CHECK VALVES
- FLOWMETER SYSTEMS
- TEST & DRAIN VALVES
- SPRINKLERS



FIRE PROTECTION PRODUCTS

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WET ALARM VALVES



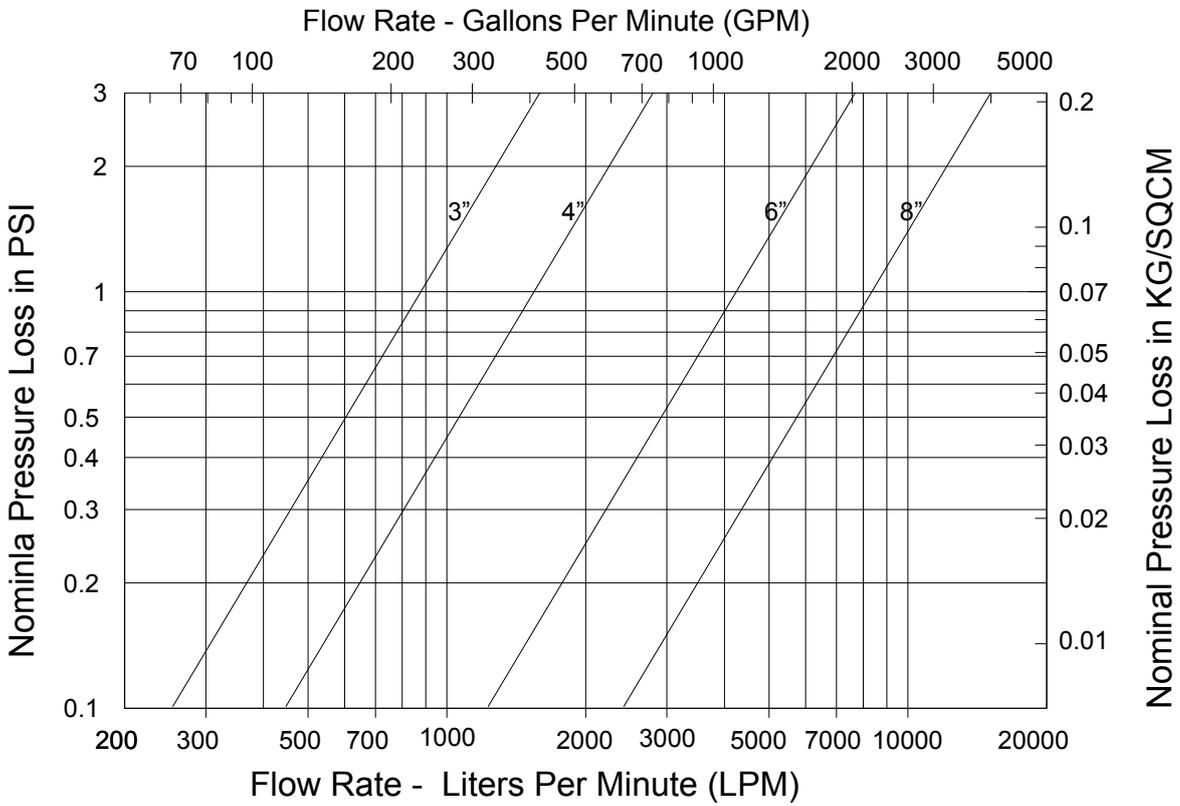
Size : 3", 4", 6" & 8"
Max. Working Pressure : 17.5 bar (250 PSI)*
Mounting : Vertical
Flange Connection : ANSI B16.42 #150
Trim : Galvanised
Coating : Red Paint
Factory Hydrostatic Test Pressure : 35 bar (500PSI)

End Connection : Flange X Flange
 Flange X Groove
 Groove X Groove

*For 8", UL 17,2 bar (250 Psi), FM 13,8 bar (200 Psi)

WET ALARM VALVES

Nominal Pressure Loss vs Flow - Alarm Valve AIAV



Weight (Kg)

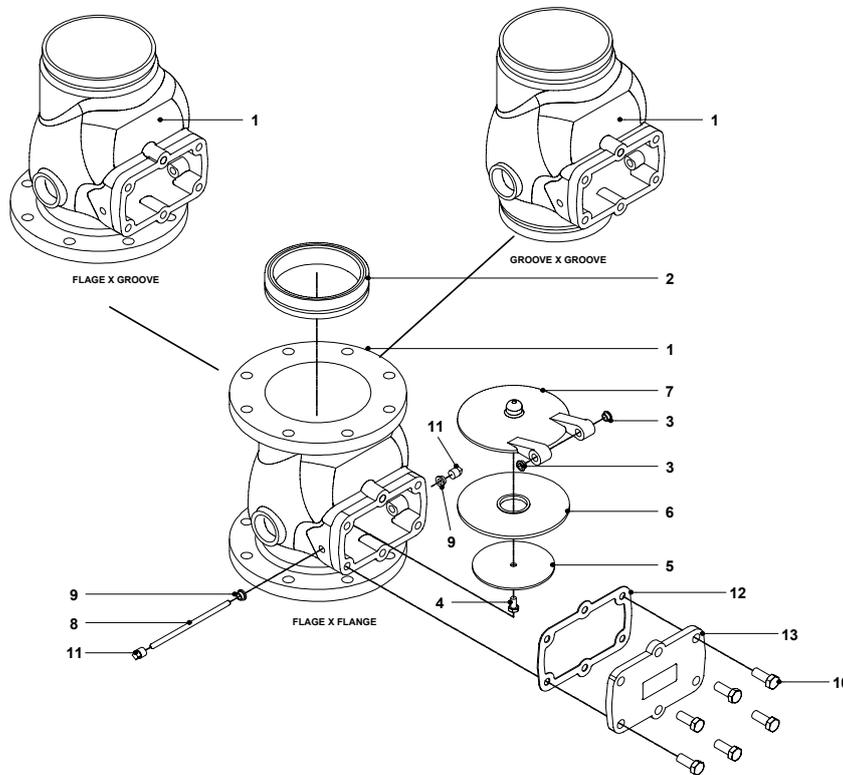
VALVE SIZE	FLANGE X FLANGE	FLANGE X GROOVE	GROOVE X GROOVE
3"	18	15	12,1
4"	27	22,1	17,3
6"	42	35,8	28
8"	65	54	44

Groove Pipe Size

SIZE	PIPE OD (mm)
3"	89
4"	114,3
6"	165,1
6"	168,3
8"	219,1

WET ALARM VALVES

Alarm Valve AIAV



ITEM	DESCRIPTION	MATERIAL SPECIFICATION	SIZE			
			3"	4"	6"	8"
1	HOUSING (FLANGE X FLANGE)	DUCTILE IRON	1	1	1	1
1	HOUSING (FLANGE X GROOVE)	DUCTILE IRON	1	1	1	1
1	HOUSING (GROOVE X GROOVE)	DUCTILE IRON	1	1	1	1
2	SEAT	BRONZE	1	1	1	1
3	CLAPPER BUSH	BRASS	2	2	2	2
4	HEX. HEAD BOLT	STAINLESS STEEL	1	1	1	4
5	RUBBER CLAMP	STAINLESS STEEL	1	1	1	1
6	RUBBER SEAT	NEOPRENE RUBBER	1	1	1	1
7	CLAPPER	DUCTILE IRON	1	1	1	1
8	HINGE PIN	STAINLESS STEEL	1	1	1	1
9	BODY BUSH	BRASS	2	2	2	2
10	HEX. HEAD BOLT	STEEL	4	4	6	6
11	SQ. HEAD PLUG	FORGED STEEL	2	2	2	2
12	COVER GASKET	NEOPRENE RUBBER	1	1	1	1
13	COVER	DUCTILE IRON	1	1	1	1



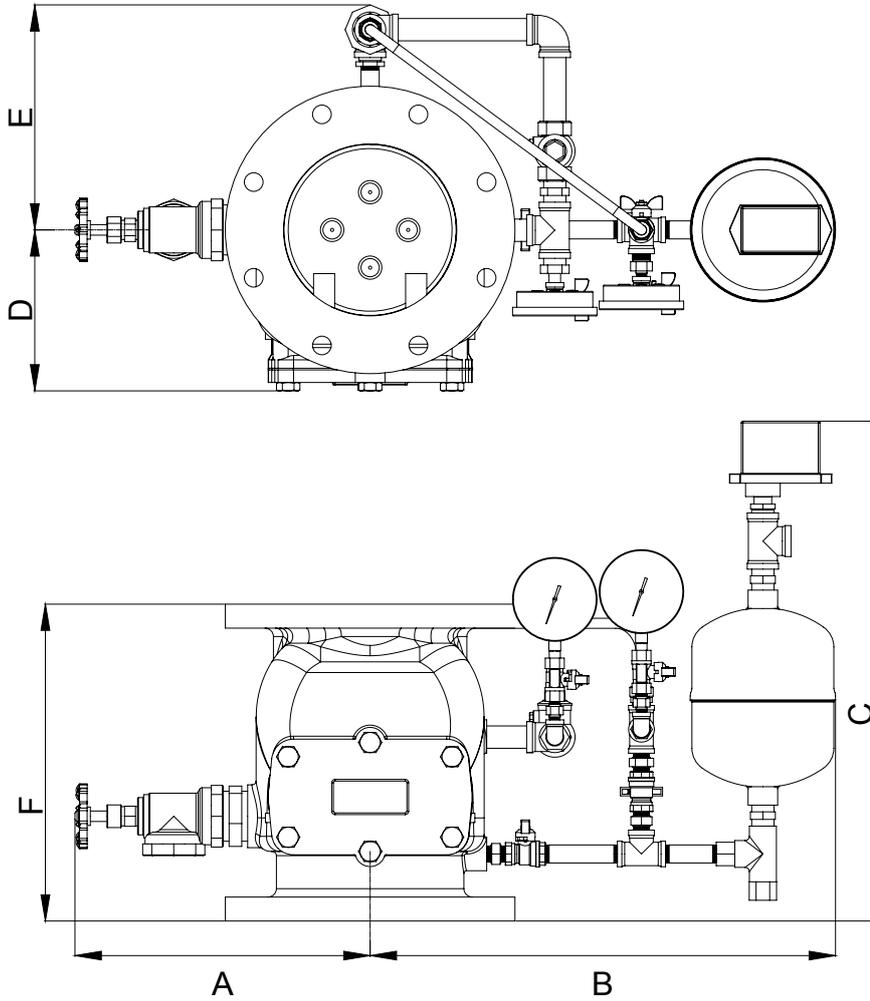
WET ALARM VALVES

Assemblies with FM Trim

ITEM NO.	DESCRIPTION	SIZE	QUANTITY PER ALARM VALVE SIZE			
			8"	6"	4"	3"
1	HEX NIPPLE	3/4"	4	4	5	2
2	TEE	3/4"	3	3	3	2
3	ELBOW	3/4"	2	2	2	-
3	ELBOW	1/2"	-	-	-	2
4	PIPE NIPPLE	3/4" X 150 MM LONG	1	-	-	-
4	PIPE NIPPLE	3/4" X 130 MM LONG	-	1	-	-
4	PIPE NIPPLE	3/4" X 100 MM LONG	-	-	1	-
4	PIPE NIPPLE	1/2" X 100 MM LONG	-	-	-	1
5	PIPE NIPPLE	3/4" X 100 MM LONG	1	-	-	-
5	PIPE NIPPLE	3/4" X 80 MM LONG	-	1	-	-
6	PIPE NIPPLE	1/2" X 100 MM LONG	1	-	-	1
6	PIPE NIPPLE	1/2" X 80 MM LONG	-	1	1	-
7	UNION	3/4"	1	1	1	-
7	UNION	1/2"	-	-	-	1
8	SWING CHECK VALVE	3/4"	1	1	1	-
8	SWING CHECK VALVE	1/2"	-	-	-	1
9	PIPE NIPPLE	3/4" X 70MM LONG	1	1	-	-
9	PIPE NIPPLE	3/4" X 60MM LONG	-	-	1	-
9	PIPE NIPPLE	1/2" X 70MM LONG	-	-	-	1
10	BALL VALVE	1/2"	2	2	2	2
11	REDUCING HEX NIPPLE	3/4" X 1/2"	-	-	-	1
12	REDUCING HEX NIPPLE	3/4" X 1/4"	1	1	1	1
13	REDUCING HEX NIPPLE	1/2" X 1/4"	1	1	1	1
14	BALL VALVE	1/4"	2	2	2	2
15	HEX NIPPLE	1/4"	2	2	2	2
16	ELBOW	1/4"	2	2	2	2
17	PRESSURE GUAGE	1/4"	2	2	2	2
18	ALARM TEST LINE ASSEMBLY	1/2"	-	-	-	1
18	ALARM TEST LINE ASSEMBLY	1/2"	-	-	1	-
18	ALARM TEST LINE ASSEMBLY	1/2"	-	1	-	-
18	ALARM TEST LINE ASSEMBLY	1/2"	1	-	-	-
19	REDUCING BUSH	3/4" X 1/2"	2	2	2	1
20	RESTRICTION NOZZLE ASSEMBLY	'AYVAZ' MAKE	1	1	1	1
21	'Y' TYPE STRAINER	3/4"	1	1	1	1
22	PLUG	1/2"	1	1	1	1
23	SPRINKLER ALARM	'AYVAZ' MAKE TYPE 'A'	1	1	1	1
23	SPRINKLER ALARM	'AYVAZ' MAKE TYPE 'B'	1	1	1	1
24	HEX NIPPLE	2"	1	1	1	-
24	HEX NIPPLE	1-1/4"	-	-	-	1
25	ANGLE VALVE	2"	1	1	1	-
25	ANGLE VALVE	1-1/4"	-	-	-	1
26	PIPE NIPPLE	1/2" X 60MM LONG	2	2	2	2
27	PIPE NIPPLE	3/4" X 80MM LONG	1	1	1	1
28	HEX NIPPLE	1/2"	3	3	3	5
29	TEE	1/2"	2	2	2	3
30	PRESSURE SWITCH (OPTIONAL)	1/2" END CONNECTION	1	1	1	1
31	RETARD CHAMBER, MODEL - RC9	'AYVAZ' MAKE	1	1	1	1
32	HEX NIPPLE	3/4"	1	1	1	1

WET ALARM VALVES

Flange X Flange

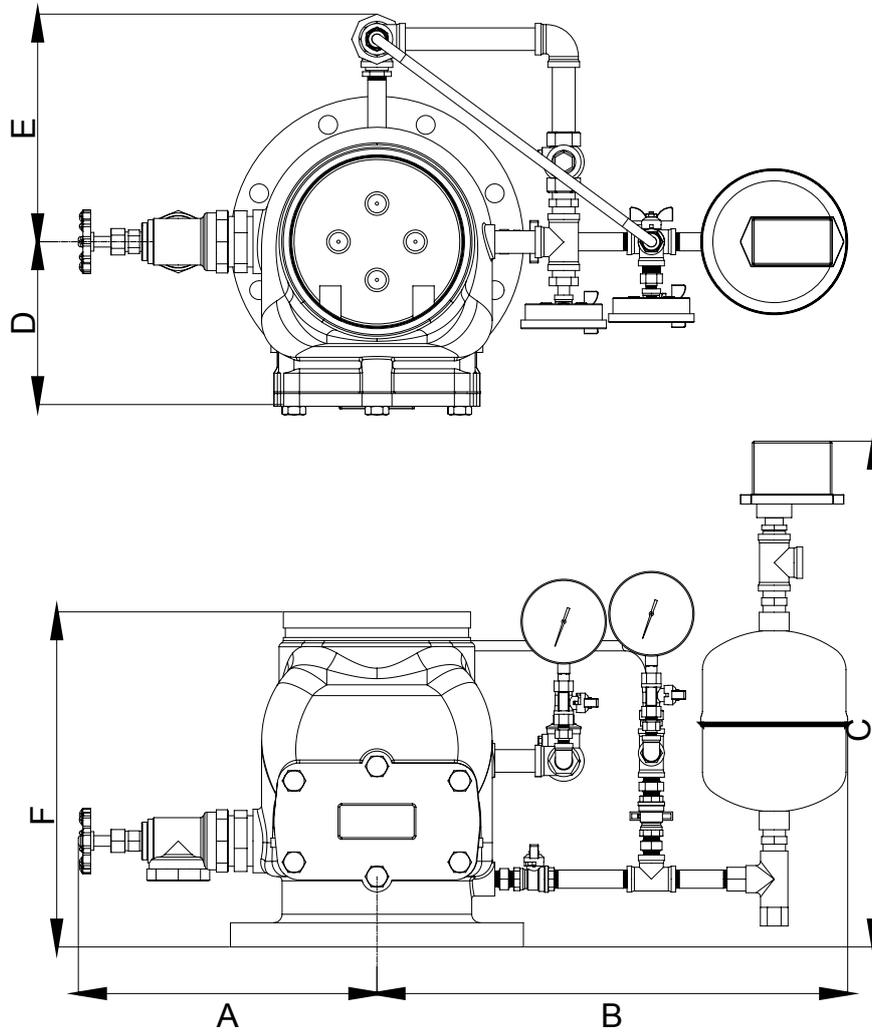


SIZE	3"	4"	6"	8"
A	279	312	331	350
B	482	488	510	551
C	588	588	588	597
D	127	140	173	192
E	201	219	234	269
F	262	274	315	378

DIMENSIONS are approx. and in millimeters.

WET ALARM VALVES

Flange X Groove

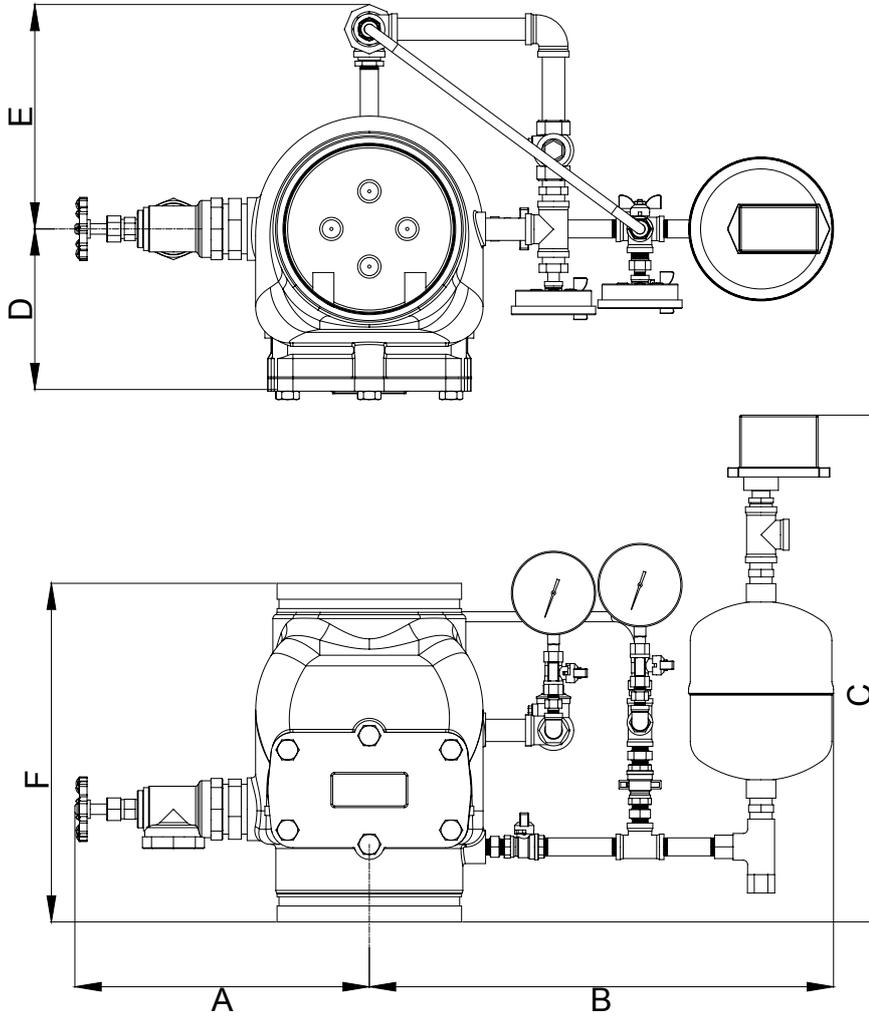


SIZE	3"	4"	6"	8"
A	279	312	331	350
B	482	488	510	551
C	588	588	588	597
D	127	140	173	204
E	201	219	234	269
F	275	291.3	316.8	395.2

DIMENSIONS are approx. and in millimeters.

WET ALARM VALVES

Groove X Groove



SIZE	3"	4"	6"	8"
A	279	312	331	350
B	482	488	510	551
C	593	596	596	607
D	127	140	173	204
E	201	219	234	269
F	280	300	324	405

DIMENSIONS are approx. and in millimeters.

WET ALARM VALVES

Water Motor Gong / Model AG



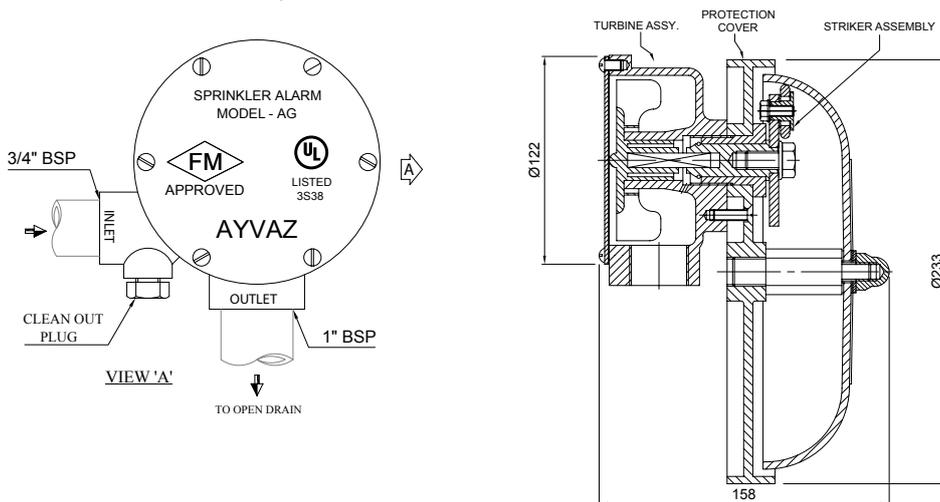
Water Working Pressure : 17.5 bar (250 PSI)

CONNECTION

Inlet : 3/4" BSPT (3/4" NPT)
Drain : 1" BSPT (1" NPT)
Gong Diameter : 205mm (8")
Gong Depth : 50mm (2")
Coating : Red Paint
Weight : 3.0 kg

SPRINKLER WATER MOTOR GONG MODEL - AG

AYVAZ Sprinkler Alarm is a hydraulically driven mechanical bell. It does sound a continuous alarm when the sprinkler system operates. The impeller and drive shaft are energy efficient, made from light weight nonmetallic material and do not require any external lubrication. The gong, protection cover and motor housing are made of corrosion resistant aluminium alloy.



Retarding Chamber / Model RC9



Water Working Pressure : 17.5 bar (250 PSI)
Material : Stainless Steel
Connection : 3/4" BSPT (F)
Weight : 2.6 kg

For use with AYVAZ Alarm Valve Model AIAV

RETARDING CHAMBER AYVAZ-RC9

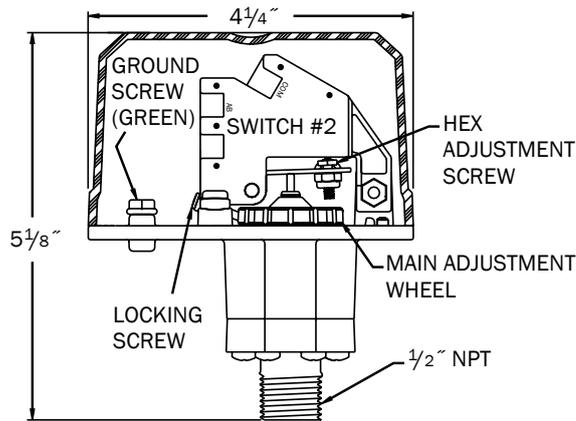
Retarding Chamber is used with Alarm Valve Trim in the system. It is a holding tank to prevent activation of the Sprinkler Alarm during water pressure surge, but permits the activation of alarm on sustained flow. The Retarding Chamber is part of UL Listed and FM Approved Alarm Valve Trim. The Retarding Chamber is made of stainless steel material and rated for 17.5 bar pressure.

ALARM PRESSURE SWITCHES

Model EPS10



EPS10 Series switches are designed for use in wet, dry, deluge and pre-action automatic sprinkler systems to indicate a discharge from a sprinkler.



Specifications

Maximum Operating Pressure : 300 psi

Maximum Adjustment

Pressure Range : 4 to 20 psi
Differential : Approximately 3 psi throughout range)
Factory Setting : Operates at rising pressure 4 to 8 psi
Switch Contact Ratings : EPS10-1: One set SPDT (Form C)
 EPS10-2: Two sets SPDT (Form C) 1 0.0 A,
 1/2 H P @ 125/250 VAC
 2.5 A @ 6/12/24 VDC

Pressure Connection

Operating Temperature Range : Indoor or outdoor use: -40°F to 160°F (-40°C to 71°C)
Cover Tamper Switch : UL Models: Optional P/N 546-8000 ULC Models: Factory Installed
Enclosure : Rated UL 4x, NEMA 4 for indoor or outdoor use

Shipping Weight : 1.2 lbs. (0,54 kg)

Service Use : Automatic Sprinkler: NFPA 13 One or Two Family Dwelling: NFPA 13D Residential Occupancies up to 4 Stories: NFPA 13R National Fire Alarm Code: NFPA 72

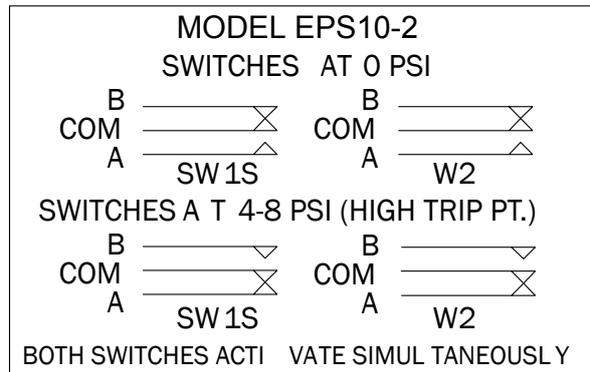
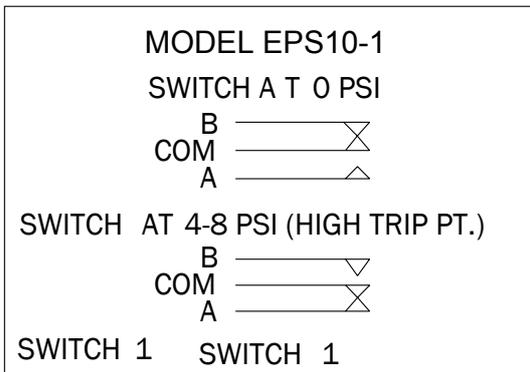
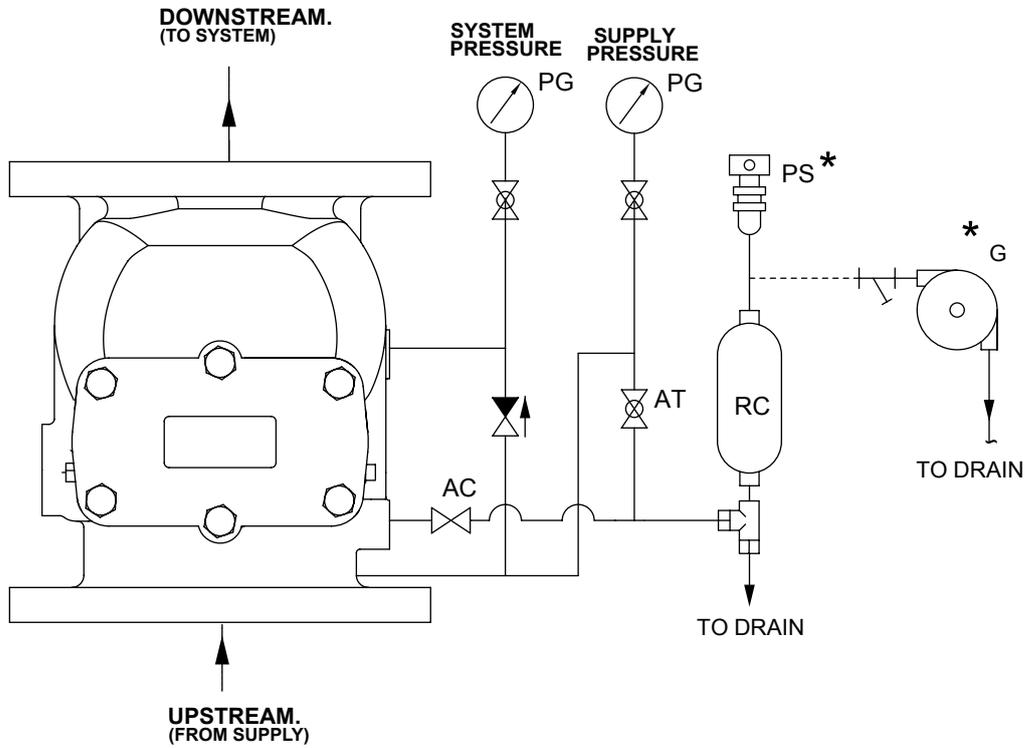
Warranty : 3 years
Dimensions : 5.12" H x 3.325" W x 4.250" L
 (13.0 cm x 8.4 cm x 10.8 cm)

Manufactured by System Sensor who have the FM Approval and UL Listing



ALARM PRESSURE SWITCHES

Typical Sprinkler Applications



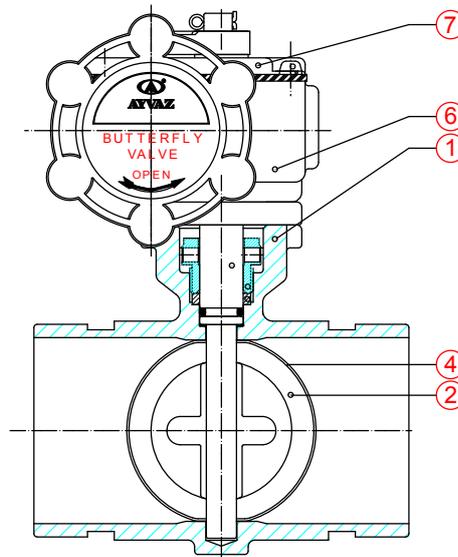
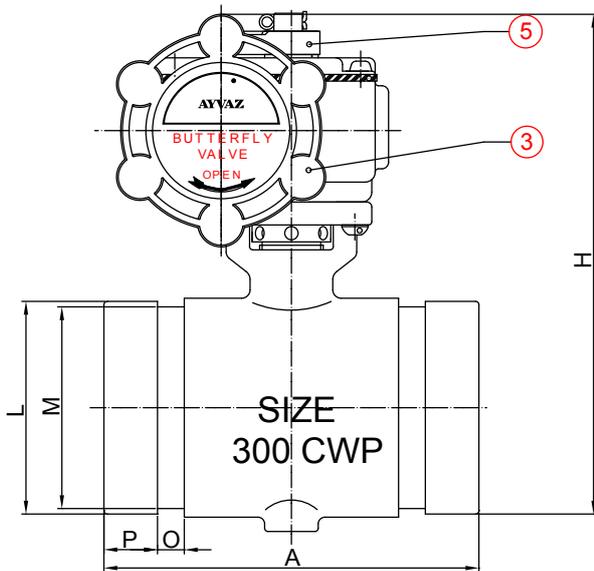
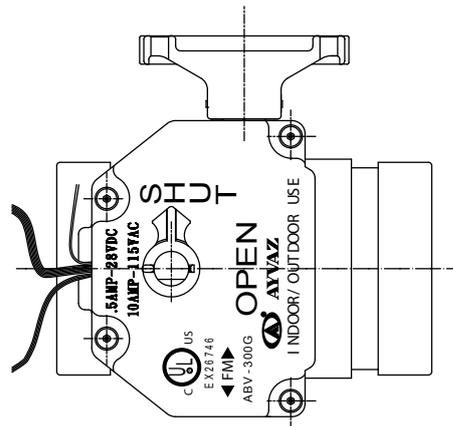
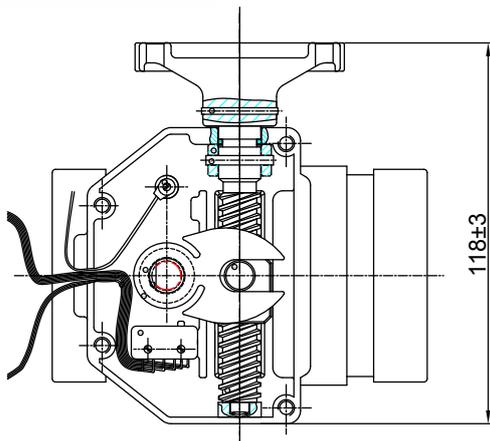
BUTTERFLY VALVES

Bronze Grooved Butterfly Valve / Model ABV-300G



Size : 1 1/4" - 2 1/2"
Working Pressure : 20.7 bar (300psi)
Max. Test Pressure : 41.2 bar (600psi)
Working Temperature : 0-80°C (32-176°F)

FM Approved & UL Listed for indoor and outdoor service.





BUTTERFLY VALVES

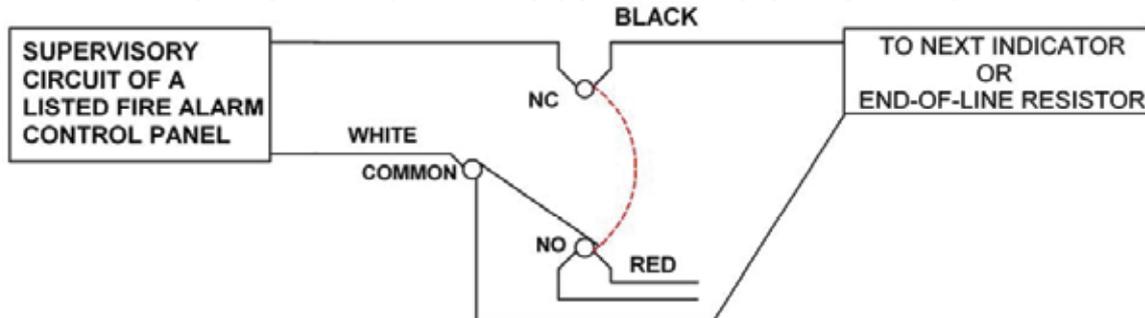
MATERIAL LIST		
NO.	PART	MATERIAL
1	BODY	BRONZE ASTM 584 C83600
2	DISC	SS304 SHEET STAMPING
3	HANDWHEEL	ASTM A216 WCB/ DUCTILE IRON ASTM A536
4	SEAT	ASTM D2000 VITON
5	INDICATOR	POWDER METAL FD0205 95HT
6	HOUSING	FORGED BRASS JIS C3771 (REF. ASTM C37700)
7	COVER	FORGED BRASS JIS C3771 (REF. ASTM C37700)

DIMENSIONS (mm)				
SIZE	1-1/4"	1-1/2"	2"	2-1/2"
A	98	102	104	114
H	132.2	138.9	154.2	167.2
P	15.88	15.88	15.88	15.88
O	7.95	7.95	7.95	7.95
M	38.99	45.09	57.15	69.09
L	42.4	48.3	60.3	73
Weight (Kg)	1.8	1.9	2.2	2.8

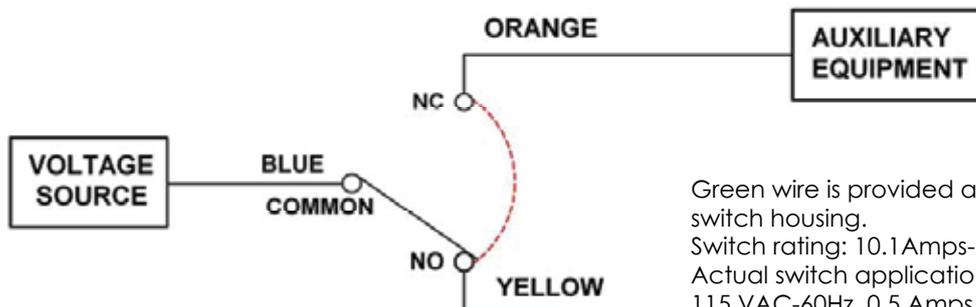
Grooved ends to AWWA C606 for steel pipe.

WIRING DIAGRAM SWITCH SHOWN POSITION WITH VALVE IN FULL OPEN

SWITCH 1 : DUAL LEADS SOLDERED TO SWITCH TABS



SWITCH 2 : SINGLE LEADS SOLDERED TO SWITCH TABS



Green wire is provided as ground for the switch housing.
 Switch rating: 10.1Amps-125/250VAC-60Hz
 Actual switch application rating: 10 Amps/ 115 VAC-60Hz, 0.5 Amps/28 VDC

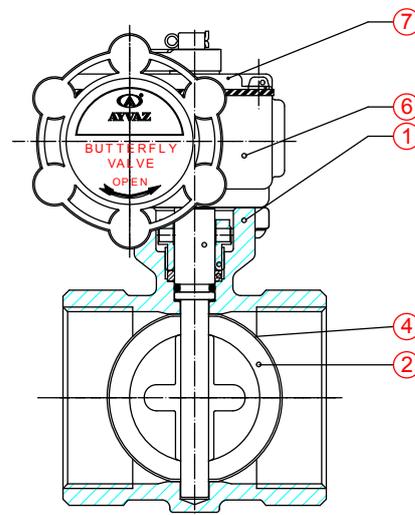
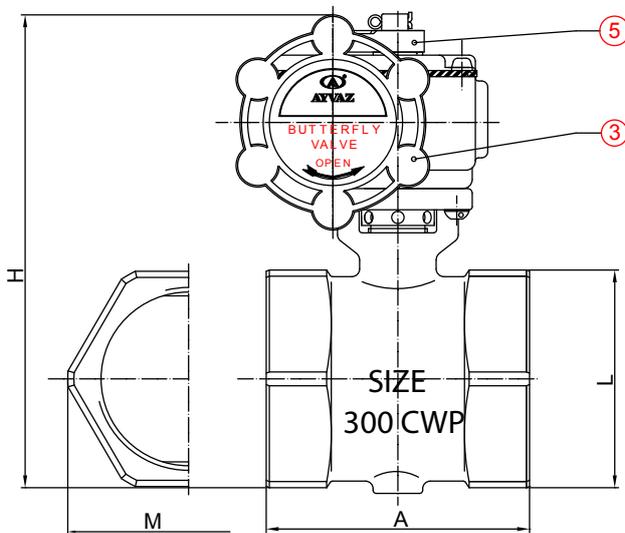
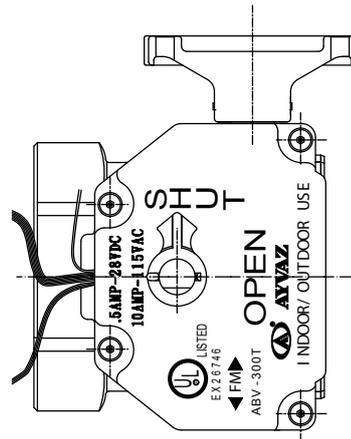
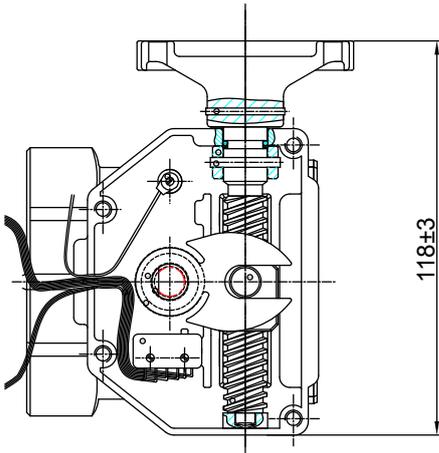
BUTTERFLY VALVES

Bronze Threaded Butterfly Valve / Model ABV-300T



Size : 1" - 2 1/2"
Working Pressure : 20.7 bar (300psi)
Max. Test Pressure : 41.2 bar (600psi)
Working Temperature : 0-80°C (32-176°F)

FM Approved & UL Listed for indoor and outdoor service.





BUTTERFLY VALVES

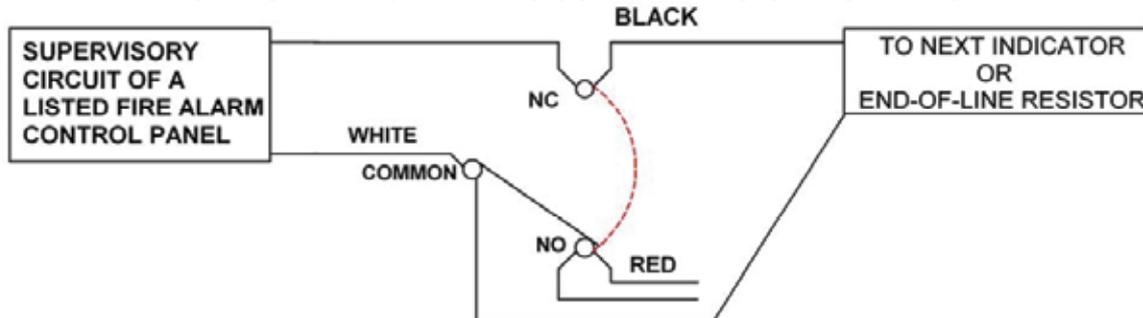
MATERIAL LIST		
NO.	PART	MATERIAL
1	BODY	BRONZE ASTM 584 C83600
2	DISC	SS304 SHEET STAMPING
3	HANDWHEEL	ASTM A216 WCB/ DUCTILE IRON ASTM A536
4	SEAT	ASTM D2000 VITON
5	INDICATOR	POWDER METAL FD0205 95HT
6	HOUSING	FORGED BRASS JIS C3771 (REF. ASTM C37700)
7	COVER	FORGED BRASS JIS C3771 (REF. ASTM C37700)

DIMENSIONS (mm)					
SIZE	1"	1-1/4"	1-1/2"	2"	2-1/2"
A	54	66.7	73	82.6	114
H	125.4	130.2	142.1	155.6	167.2
L	39.7	49.2	55.6	70	86.5
M	44.5	55	60.3	79	96
Weight (Kg)	1.6	1.7	1.8	2.4	3.4

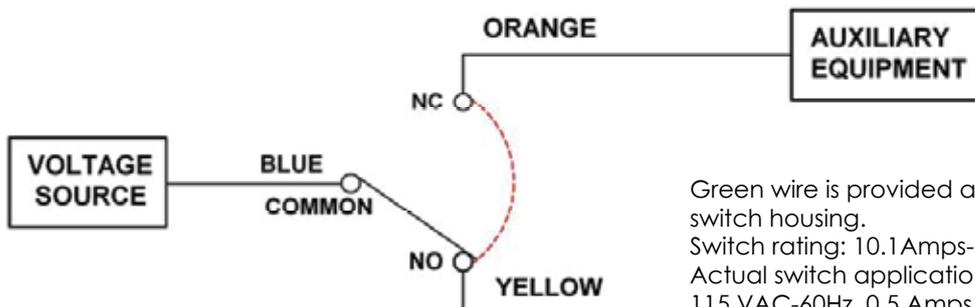
Grooved ends to AWWA C606 for steel pipe.

WIRING DIAGRAM SWITCH SHOWN POSITION WITH VALVE IN FULL OPEN

SWITCH 1 : DUAL LEADS SOLDERED TO SWITCH TABS



SWITCH 2 : SINGLE LEADS SOLDERED TO SWITCH TABS



Green wire is provided as ground for the switch housing.
 Switch rating: 10.1Amps-125/250VAC-60Hz
 Actual switch application rating: 10 Amps/ 115 VAC-60Hz, 0.5 Amps/28 VDC

BUTTERFLY VALVES

Grooved Butterfly Valve / Model ABV-G300

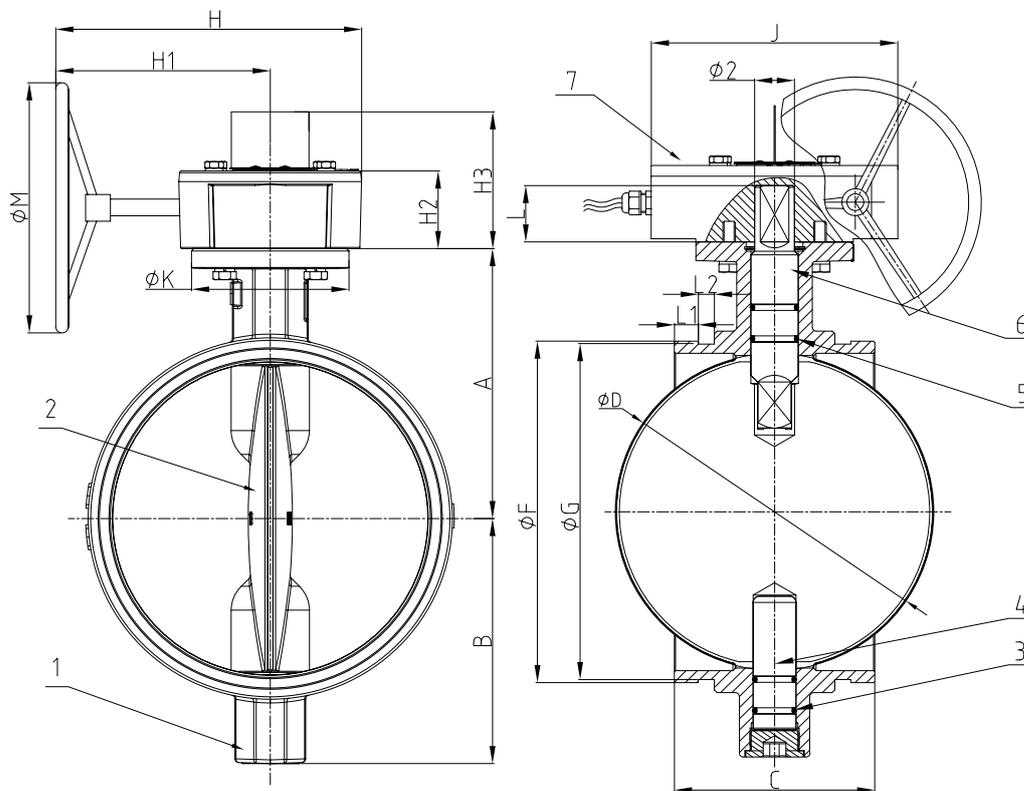


Size : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"
Working Pressure : 20.6 bar (300psi)
Max. Test Pressure : 41.2 bar (600psi)
Working Temperature : 0-80°C (32-176°F)

Compatible with IPS Pipe
 UL Listed for indoor and outdoor service.

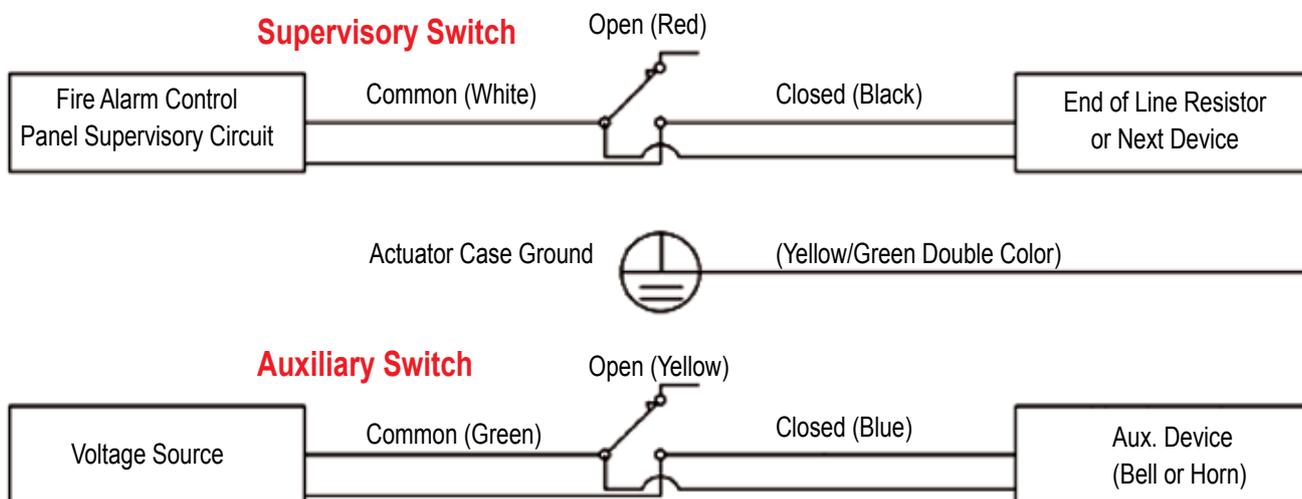
Material List

No	Part	Material	ASTM Specification
1	Valve Body	Ductile Iron	ASTM A536, 65-45-12
2	Disc	Ductile Iron	ASTM A536, 65-45-12 & EPDM
3	O-Ring	NBR	Commercial
4	Stem	Stainless Steel	AISI 431
5	O-Ring	NBR	Commercial
6	Stem	Stainless Steel	AISI 431
7	Signal Gear Box	Ductile Iron	ASTM A536, 65-45-12



BUTTERFLY VALVES

Wiring Diagram



Dimensions - Weights

SIZE		DIMENSIONS (mm)								
		A	B	C	ØD	ØF	ØG	L1	L2	L
DN50	2"	89	65	81	50,3	60,3	57,15	15,88	7,93	32
DN65	2 1/2"	102	71	97	60,8	73	69,09	15,88	7,93	32
DN65	2 1/2"	102	71	97	60,8	76,1	72,26	15,88	7,93	32
DN80	3"	109	81	97	76	88,9	84,94	15,88	7,93	32
DN100	4"	128	95	116	98,5	114,3	110,08	15,88	9,53	32
DN125	5"	141	111	148	122,6	139,7	135,48	15,88	9,53	32
DN125	5"	141	111	148	122,6	141,3	137,03	15,88	9,53	32
DN150	6"	153	133	148	148	165,1	160,9	15,88	9,53	32
DN150	6"	153	133	148	148	168,3	163,96	15,88	9,53	32
DN200	8"	184	164	133	199	219,1	214,4	19,05	11,1	45
DN250	10"	216	196	159	252	273	268,28	19,05	12,7	45
DN300	12"	254	226	165	300,5	323,9	318,29	19,05	12,7	45

SIZE		DIMENSIONS (mm)									WEIGHTS (kg)
		ØK	H	H1	H2	H3	J	ØM	Ø2	ISO 5211	
DN50	2"	90	208	151	65	108	147	150	14	F07	6,33
DN65	2 1/2"	90	208	151	65	108	147	150	14	F07	7,08
DN65	2 1/2"	90	208	151	65	108	147	150	14	F07	7,08
DN80	3"	90	208	151	65	108	147	150	14	F07	7,57
DN100	4"	90	208	151	65	108	147	150	16	F07	9,02
DN125	5"	90	208	151	65	108	147	150	16	F07	11,95
DN125	5"	90	208	151	65	108	147	150	16	F07	11,95
DN150	6"	90	208	151	65	108	147	150	20	F07	15,31
DN150	6"	90	208	151	65	108	147	150	20	F07	15,31
DN200	8"	125	298	223	77	121	184	200	26	F10	24,13
DN250	10"	125	298	223	77	121	184	200	26	F10	34,80
DN300	12"	125	298	224	77	121	184	250	28	F10	48,21

BUTTERFLY VALVES

Wafer / Lug Butterfly Valve



Wafer / Lug

Model ABV-W250 / L250

Size : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"
Working Pressure : 17.2 bar (250psi)
Max. Test Pressure : 34.4 bar (500psi)
Working Temperature : 0-80°C (32-176°F)

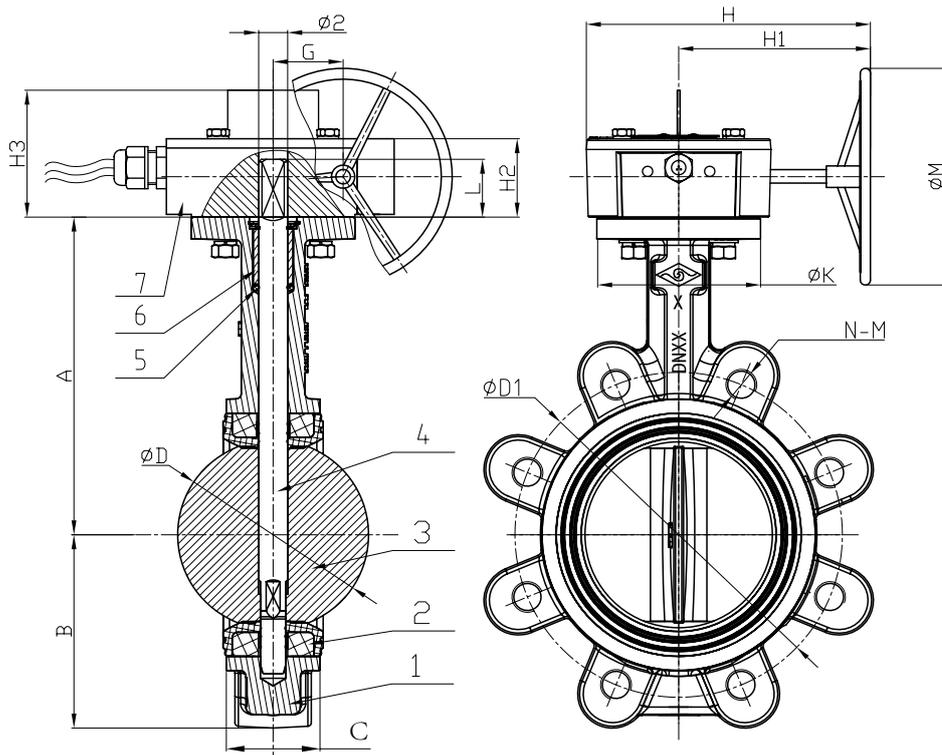
Model ABV- W300 / L300

Size : 2", 2 1/2", 3", 4", 5", 6", 8"
Working Pressure : 20.6 bar (300psi)
Max. Test Pressure : 41.2 bar (600psi)
Working Temperature : 0-80°C (32-176°F)

UL Listed for indoor and outdoor service.

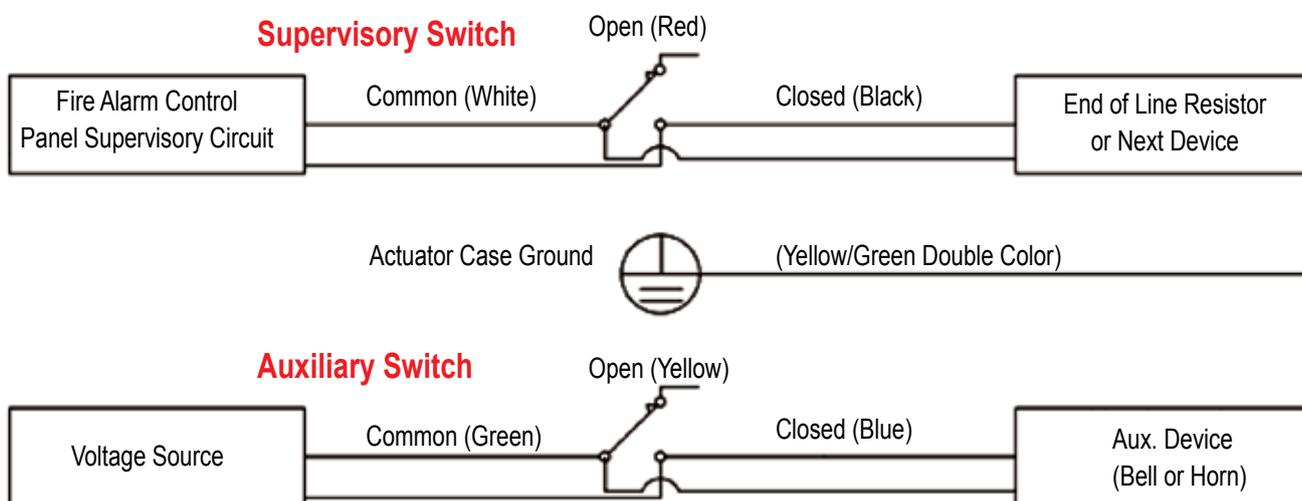
Material List

No	Part	Material	ASTM Specification
1	Body	Ductile Iron	ASTM A536, 65-45-12
2	Seat	EPDM	Commercial
3	Disc	Ductile Iron	ASTM A536, 65-45-12
4	Stem	Stainless Steel	AISI 420
5	O-Ring	NBR	Commercial
6	Bushing	PTFE	Commercial
7	Signal Gear Box	Ductile Iron	ASTM A536, 65-45-12



BUTTERFLY VALVES

Wiring Diagram



Dimensions - Weights

SIZE		DIMENSIONS (mm)							
		A	B	C	N-M	ØD1	M	H	H1
2"	50	140.5	64.5	43	4-M16	125	150	208	151
2.5"	65	153	72	46	4-M16	145	150	208	151
3"	80	157.5	86	46	8-M16	160	150	208	151
4"	100	176	100	52	8-M16	180	150	208	151
5"	125	191	112	56	8-M16	210	150	208	151
6"	150	202.5	128	56	8-M20	240	150	208	151
8"	200	243.5	162	60	12-M20	295	200	298	223
10"	250	273	194	68	12-M24	355	200	298	223
12"	300	311	223	78	12-M24	410	250	299	224

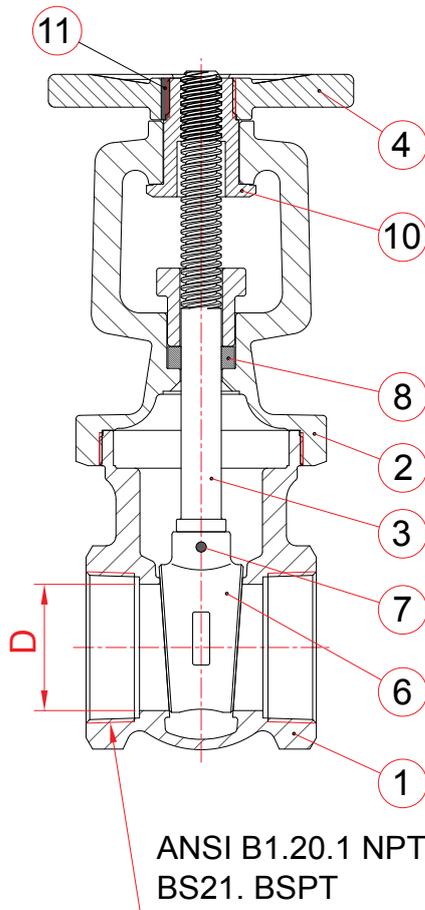
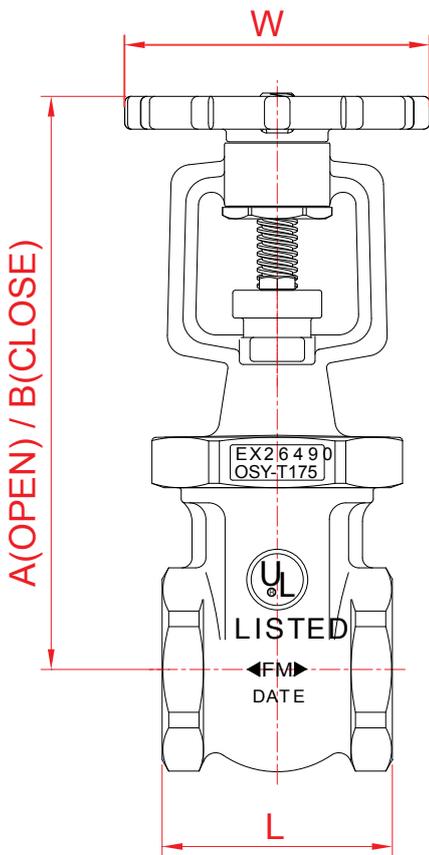
SIZE		DIMENSIONS (mm)								WEIGHTS (kg)
		H2	H3	K	G	ØD	Ø2	L	ISO 5211	
2"	50	65	108	90	59	53.9	14	32	F07	8,22
2.5"	65	65	108	90	59	65.2	14	32	F07	8,99
3"	80	65	108	90	59	79.7	14	32	F07	10,32
4"	100	65	108	90	59	105	16	32	F07	11,81
5"	125	65	108	90	59	129.8	16	32	F07	13,75
6"	150	65	108	90	59	155.8	20	32	F07	14,98
8"	200	77	121	125	75	207	26	45	F10	29,71
10"	250	77	121	125	75	253.3	26	45	F10	38,45
12"	300	77	121	125	75	301.9	28	45	F10	52,68

OUTSIDE SCREW & YOKE BRONZE GATE VALVES

Bronze Threaded OS&Y Gate Valve / Model OSY-T175



Size : 3/4", 1", 1 1/4", 1 1/2", 2"
Working Pressure : 12 bar (175psi)
Max. Test Pressure : 24 bar (350psi)
Working Temperature : 0 - 80°C



OUTSIDE SCREW & YOKE BRONZE GATE VALVES

Material List

No	Part	Specification
1	Body	Bronze ASTM C83600
2	Bonnet	Bronze ASTM C83600
3	Stem	Brass
4	Handwheel	Cast Iron
5	Packing Gland	Bronze ASTM C83600
6	Disc	Bronze ASTM C83600
7	Disc Pin	Stainless Steel AISI 304
8	Gland Packing	Graphite
9	Stud	Steel
10	Yoke Bushing	Brass
11	Set Screw	Steel

Dimensions - Weights

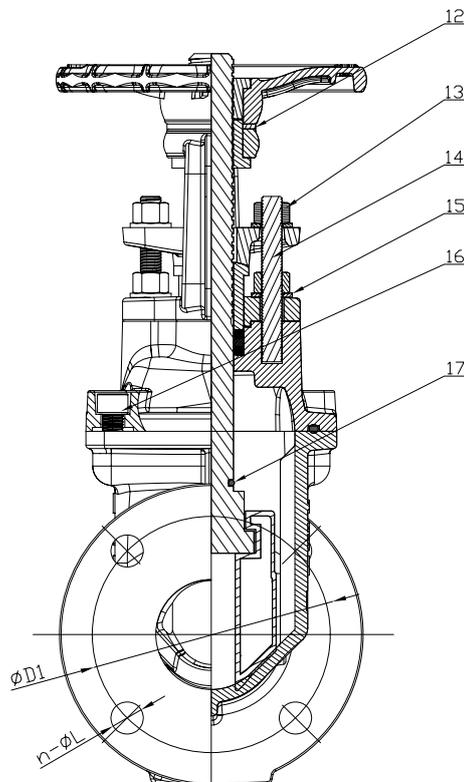
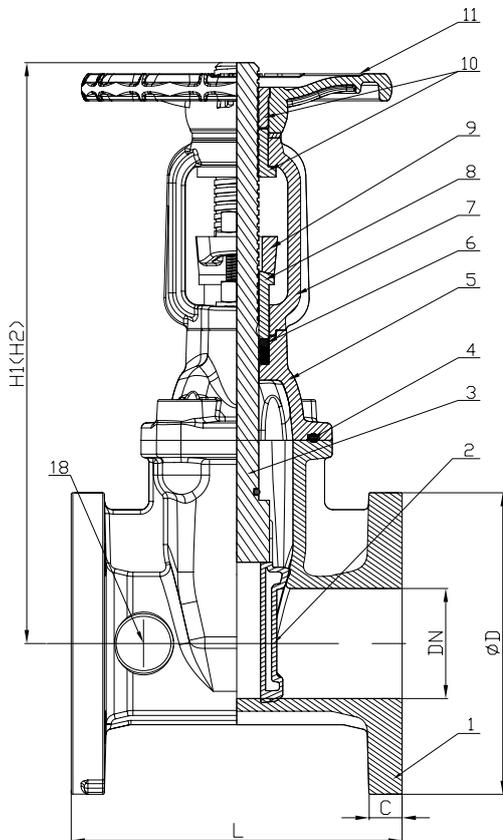
SIZE		DIMENSIONS (mm)				WEIGHTS (kg)
		A(open)	B(closed)	L	W	
DN20	3/4"	173	145.5	59	80	1.4
DN25	1"	196,5	163	69	80	1.8
DN32	1 1/4"	220,5	181,5	75	80	2.5
DN40	1 1/2"	243	197	82	100	3.24
DN50	2"	276	227	90,5	120	4.74

OUTSIDE SCREW & YOKE GATE VALVES

Resilient Wedge OS&Y Gate Valve / Model OSY-300FF



- Size** : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"
- Working Pressure** : 20,7 bar (300psi)
- Max. Test Pressure** : 41,4 bar (600psi)
- Working Temperature** : 0 - 80°C
- Connection** : Flange diameter and thickness according to ANSI B16.1 Class 125, EN1092-2 PN10 or EN1092-2 PN16
- Specifications** : Design and dimensions conform to AWWA C515
- Corrosion Protection** : Fusion bonded epoxy coating in accordance with ANSI/AWWA C550 for both interior and exterior surface.
- Features** : Pre-notched, stainless steel stem for easy attachment of supervisory switch





OUTSIDE SCREW & YOKE GATE VALVES

Material List

No	Part	Material	ASTM Specification
1	Valve Body	Ductile Iron	ASTM A536, 65-45-12
2	Wedge Disc	Ductile Iron	ASTM A536, 65-45-12 & EPDM
3	Stem	Stainless Steel	AISI 420
4	Bonnet Gasket	EPDM	Commercial
5	Bonnet	Ductile Iron	ASTM A536, 65-45-12
6	Stem Packing	EPDM	Commercial
7	Yoke	Ductile Iron	ASTM A536, 65-45-12
8	Stem Bushing	Brass	HPb59-1
9	Gland	Ductile Iron	ASTM A536, 65-45-12
10	Stem Nut	Brass	HPb59-1
11	Handwheel	Ductile Iron	ASTM A536, 65-45-12
12	Washer	Brass	HPb59-1
13	Gland Nut	Carbon Steel	Zinch Plated
14	Stud	Carbon Steel	Zinch Plated
15	Flat Washer	Carbon Steel	Zinch Plated
16	Nut	Carbon Steel	Zinch Plated
17	O-Ring	EPDM	Commercial
18	Plug	Bronze	ASTM B583 C89833

Dimensions - Weights

SIZE		DIMENSIONS (mm)					L	
		A	B	C	N-M	ØD1	PN10/16	ANSI
DN50	2"	178	348	400	152	16	150	178
DN65	2 1/2"	190	373	440	175	17,5	170	190
DN80	3"	203	408	490	191	19,1	180	203
DN100	4"	229	471	573	229	19,1	190	229
DN125	5"	254	541	665	254	19,1	200	254
DN150	6"	267	601	755	279	19,1	210	267
DN200	8"	292	774	975	343	22,2	230	292
DN250	10"	330	939	1193	406	23,8	250	330
DN300	12"	356	1065	1370	483	25,4	270	356

SIZE		DIMENSIONS (mm)						WEIGHTS (kg)
		D1			n-ØL			
		ANSI	PN16	PN10	ANSI	PN16	PN10	
DN50	2"	120,7	125		4-Ø19,1			14,7
DN65	2 1/2"	139,7	145		4-Ø19,1			17,7
DN80	3"	152,4	160		4-Ø19,1	8-Ø19,1		23,1
DN100	4"	190,5	180		8-Ø19,1	8-Ø19,1		31,6
DN125	5"	215,9	210		8-Ø22,2	8-Ø19,1		42,2
DN150	6"	241,3	240		8-Ø22,2	8-Ø23		53,2
DN200	8"	298,5	295		8-Ø22,2	12-Ø23	8-Ø23	91,3
DN250	10"	362	355	350	12-Ø25,4	12-Ø28	12-Ø23	134,6
DN300	12"	431,8	410	400	12-Ø25,4	12-Ø28	12-Ø23	200

Note : Size 5" is only UL listed

Valve flange drilling (size and location of holes) allows mating with the following flange types:

ANSI= ANSI B16.1 Class 125

PN16=DIN 2501, EN 1092 - PN16, BS 4504

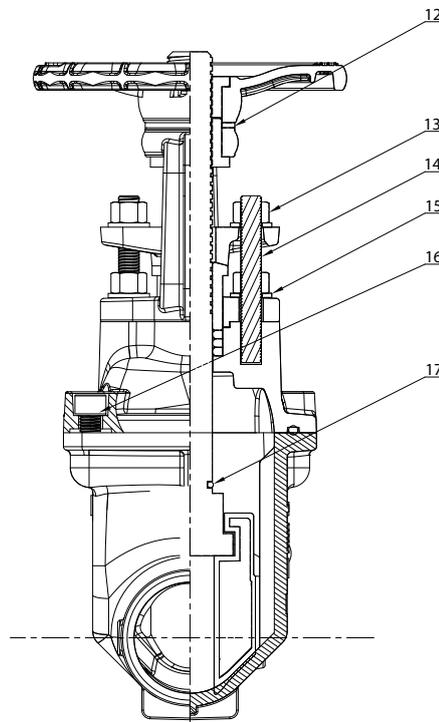
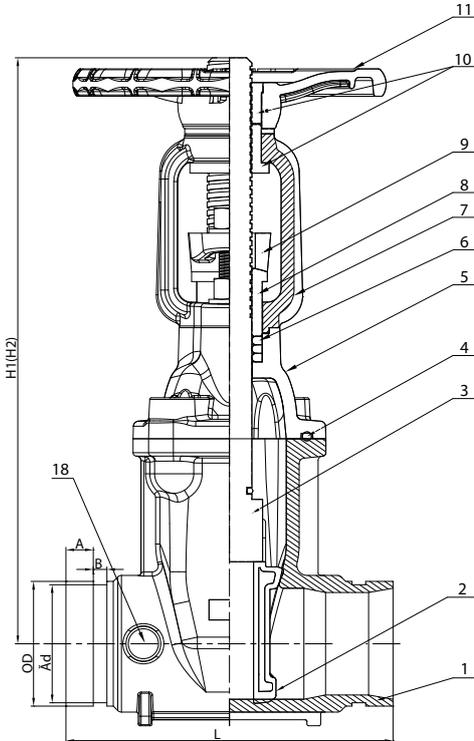
PN10=DIN 2501, EN 1092 - PN10, BS 4504

OUTSIDE SCREW & YOKE GATE VALVES

Resilient Wedge OS&Y Gate Valve / Model OSY-300GG



- Size** : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"
- Working Pressure** : 20,7 bar (300psi)
- Max. Test Pressure** : 41,4 bar (600psi)
- Working Temperature** : 0 - 80°C
- Connection** : Grooved metric or AWWA C606 standard
- Specifications** : Design and dimensions conform to AWWA C515
- Corrosion Protection** : Fusion bonded epoxy coating in accordance with ANSI/AWWA C550 for both interior and exterior surface.
- Features** : Pre-notched, stainless steel stem for easy attachment of supervisory switch





OUTSIDE SCREW & YOKE GATE VALVES

Material List

No	Part	Material	ASTM Specification
1	Valve Body	Ductile Iron	ASTM A536, 65-45-12
2	Wedge Disc	Ductile Iron	ASTM A536, 65-45-12 & EPDM
3	Stem	Stainless Steel	AISI 420
4	Bonnet Gasket	EPDM	Commercial
5	Bonnet	Ductile Iron	ASTM A536, 65-45-12
6	Stem Packing	EPDM	Commercial
7	Yoke	Ductile Iron	ASTM A536, 65-45-12
8	Stem Bushing	Brass	HPb59-1
9	Gland	Ductile Iron	ASTM A536, 65-45-12
10	Stem Nut	Brass	HPb59-1
11	Handwheel	Ductile Iron	ASTM A536, 65-45-12
12	Washer	Brass	HPb59-1
13	Gland Nut	Carbon Steel	Zinch Plated
14	Stud	Carbon Steel	Zinch Plated
15	Flat Washer	Carbon Steel	Zinch Plated
16	Nut	Carbon Steel	Zinch Plated
17	O-Ring	NBR	Commercial
18	Plug	Bronze	ASTM B583 C89833

Dimensions - Weights

SIZE		Pipe OD (mm)	DIMENSIONS (mm)						WEIGHTS (kg)
			L	H1(Close)	H1(Open)	d	A	B	
DN50	2"	60.3	178	348	400	57,2	15,9	7,9	11,4
DN65	2 1/2"	73.0	190	373	440	69,1	15,9	7,9	12,5
		76.1				72,3			
DN80	3"	88.9	203	408	490	84,9	15,9	7,9	16,9
DN100	4"	114.3	229	471	573	110,1	15,9	9,5	24,2
DN125	5"	139.7	254	541	665	135,5	15,9	9,5	33,5
		141.3				137			
DN150	6"	165.1	267	601	755	160,9	15,9	9,5	41,3
		168.3				164			
DN200	8"	219.1	292	774	975	214,4	19,1	11,1	73,7
DN250	10"	273.0	330	939	1193	268,3	19,1	12,7	124,3
DN300	12"	323.9	356	1065	1370	318,3	19,1	12,7	174,5

Note : Size 5" is only UL listed

SUPERVISORY SWITCHES

OS&Y Supervisory Switch / Model OSY2



The AYVAZ OSY2 is used to monitor the open position of an Outside Screw and Yoke (OS&Y) type gate valve.

Features

- NEMA 3R-rated enclosure
- User-friendly mounting bracket fits newer valve yokes
- Single side conduit entry does not require right angle fittings
- Adjustable length actuator eliminates the need for cutting the shaft
- Accommodates up to 12 AWG wire
- Three position switch monitors vandal and valve close signals
- Two SPDT contacts are enclosed in a durable terminal block for added strength
- 100 percent synchronization activates both alarm panel and local bell simultaneously

Specifications

Maximum Operating Pressure : 300 psi

Maximum Adjustment

Pressure Range : 4 to 20 psi

Differentially : Approximately 3 psi throughout range)

Factory Setting : Operates at rising pressure 4 to 8 psi

Switch Contact Ratings : EPS10-1: One set SPDT (Form C)

EPS10-2: Two sets SPDT (Form C) 1 0.0 A,

½ H P @ 125/250 VAC

2.5 A @ 6/12/24 VDC

Pressure Connection : ½" NPT male glass reinforced nylon

Operating Temperature Range : Indoor or outdoor use: -40°F to 160°F (-40°C to 71°C)

Cover Tamper Switch : UL Models: Optional P/N 546-8000 ULC Models: Factory Installed

Enclosure : Rated UL 4x, NEMA 4 for indoor or outdoor use

Shipping Weight : 1.2 lbs. (.54 kg)

Service Use

: Automatic Sprinkler: NFPA 13 One or Two Family

Dwelling: NFPA 13D Residential Occupancies up to 4 Stories:

NFPA 13R National Fire Alarm Code: NFPA 72

Warranty

: 3 years

Dimensions

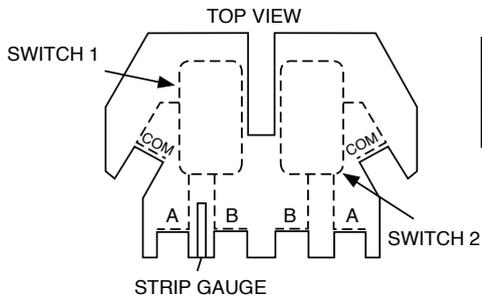
: 5.12" H × 3.325" W × 4.250" L

(13.0 cm × 8.4 cm × 10.8 cm)



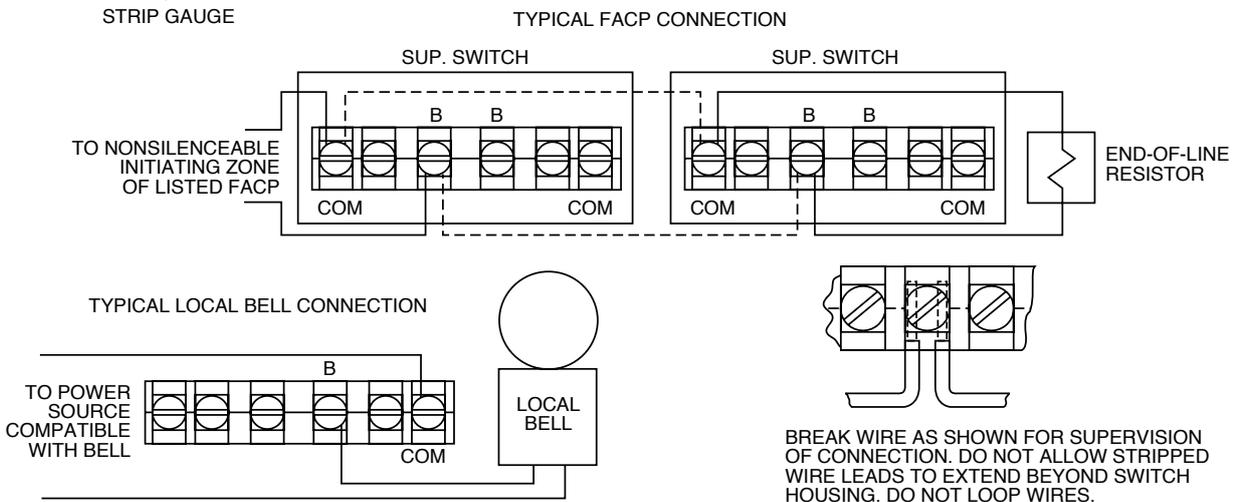
SUPERVISORY SWITCHES

Electrical Connections for OSY2



CONTACT RATINGS	
125/250 VAC	10 AMPS
24 VDC	2.5 AMPS

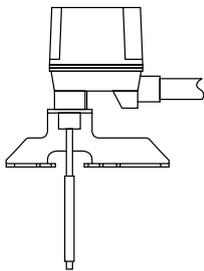
NOTE: COMMON AND B CONNECTIONS WILL CLOSE WHEN VALVE MOVES 1/5 OF ITS TOTAL TRAVEL DISTANCE.



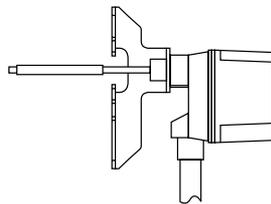
BREAK WIRE AS SHOWN FOR SUPERVISION OF CONNECTION. DO NOT ALLOW STRIPPED WIRE LEADS TO EXTEND BEYOND SWITCH HOUSING. DO NOT LOOP WIRES.

OSY2 Mounting

The following are examples of acceptable mounting positions:

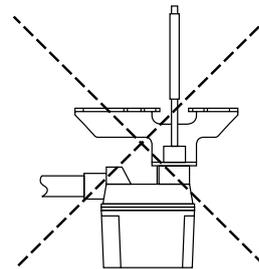


Actuator Vertical (Down)



Actuator Horizontal

The following mounting position is **not acceptable**:



Actuator Vertical (Pointing Up)

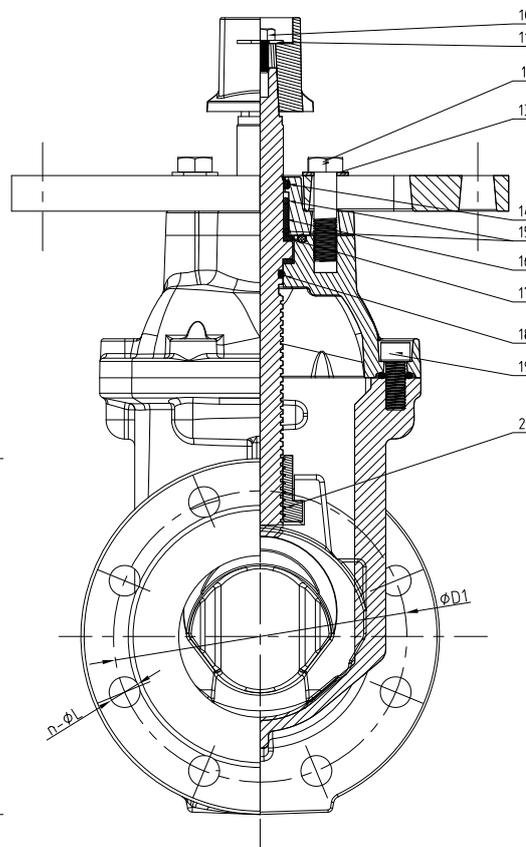
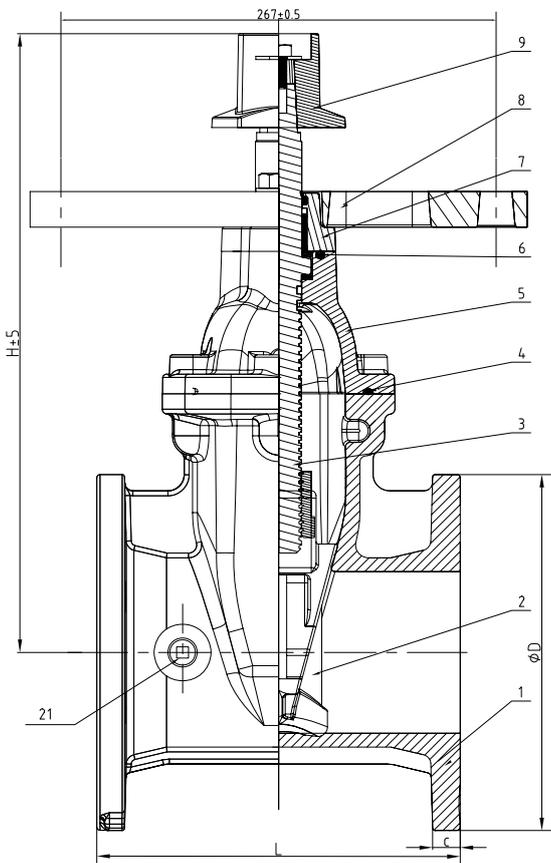
NON-RISING STEM GATE VALVES

Resilient Wedge NRS Gate Valve / Model NRS-300FF



- Size** : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"
- Operation** : For use with A-VPI or A-WPI indicator posts
- Remark** : No post flange supplied with 2", 2 1/2" & 3", and size 2" is FM approved only and size 5" is UL listed only
- Working Pressure** : 20,7 bar (300psi)
- Max. Test Pressure** : 41,4 bar (600psi)
- Working Temperature** : 0 - 80°C
- Connection** : Flange diameter and thickness according to ANSI B16.1 Class 125, EN1092-2 PN10 or EN1092-2 PN16
- Specifications** : Design and dimensions conform to AWWA C515
- Corrosion Protection** : Fusion bonded epoxy coating in accordance with ANSI/AWWA C550 for both interior and exterior surface.

Size 4"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.





NON-RISING STEM GATE VALVES

Material List

No	Part	Material	ASTM Specification
1	Valve Body	Ductile Iron	ASTM A536, 65-45-12
2	Wedge Disc	Ductile Iron	ASTM A536, 65-45-12 & EPDM
3	Stem	Stainless Steel	AISI 431
4	Bonnet Gasket	EPDM	Commercial
5	Bonnet	Ductile Iron	ASTM A536, 65-45-12
6	O-Ring	NBR	Commercial
7	Gland	Ductile Iron	ASTM A536, 65-45-12
8	Post Flange	Ductile Iron	ASTM A536, 65-45-12
9	Square Operating Nut	Ductile Iron	ASTM A536, 65-45-12
10	Bolt	Carbon Steel	Zinch Plated
11	Flat Washer	Carbon Steel	Zinch Plated
12	Bolt	Carbon Steel	Zinch Plated
13	Flat Washer	Carbon Steel	Zinch Plated
14	Ring Wiper	EPDM	Commercial
15	O-Ring	NBR	Commercial
16	Axis Guide	Brass	HPb59-1
17	Washer	Brass	HPb59-1
18	O-Ring	NBR	Commercial
19	Bolt	Carbon Steel	Zinch Plated
20	Wedge Nut	Brass	HPb59-1
18	Plug	Bronze	ASTM B584 C89833

Dimensions - Weights

SIZE		DIMENSIONS (mm)				L	
		A	B	C	N-M	PN10/16	ANSI
DN50	2" ³	178	278	152	16	150	178
DN65	2 1/2" ³	190	300	178	17,5	170	190
DN80	3" ³	203	321	191	19,1	180	203
DN100	4"	229	395	229	19,1	190	229
DN125	5"	254	432	254	19,1	200	254
DN150	6"	267	475	279	19,1	210	267
DN200	8"	292	585	343	22,2	230	292
DN250	10"	330	656	406	23,8	250	330
DN300	12"	356	751	483	25,4	270	356

SIZE		DIMENSIONS (mm)					WEIGHTS (kg)	
		D1			n-ØL			
		ANSI	PN16	PN10	ANSI	PN16		PN10
DN50	2"	120,7	125		4-Ø19,1		12,9	
DN65	2 1/2"	139,7	145		4-Ø19,1		15,9	
DN80	3"	152,4	160		4-Ø19,1	8-Ø19,1	20,9	
DN100	4"	190,5	180		8-Ø19,1	8-Ø19,1	35,7	
DN125	5"	215,9	210		8-Ø22,2	8-Ø19,1	44,6	
DN150	6"	241,3	240		8-Ø22,2	8-Ø23	54,2	
DN200	8"	298,5	295		8-Ø22,2	12-Ø23	8-Ø23	86,1
DN250	10"	362	355	350	12-Ø25,4	12-Ø28	12-Ø23	117,2
DN300	12"	431,8	410	400	12-Ø25,4	12-Ø28	12-Ø23	180

Note-1: FM Approved only

Note-2: UL Listed only

Note-3: No post plate - flange supplied , UL Listed as NRS-232300FF

Valve flange drilling (size and location of holes) allows mating with the following flange types:

ANSI= ANSI B16.1 Class 125

PN16=DIN 2501, EN 1092 - PN16, BS 4504

PN10=DIN 2501, EN 1092 - PN10, BS 4504

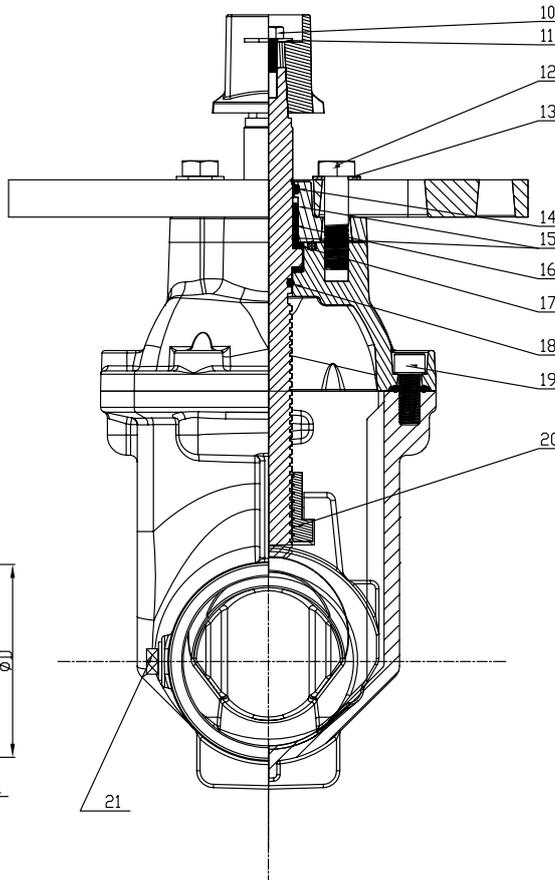
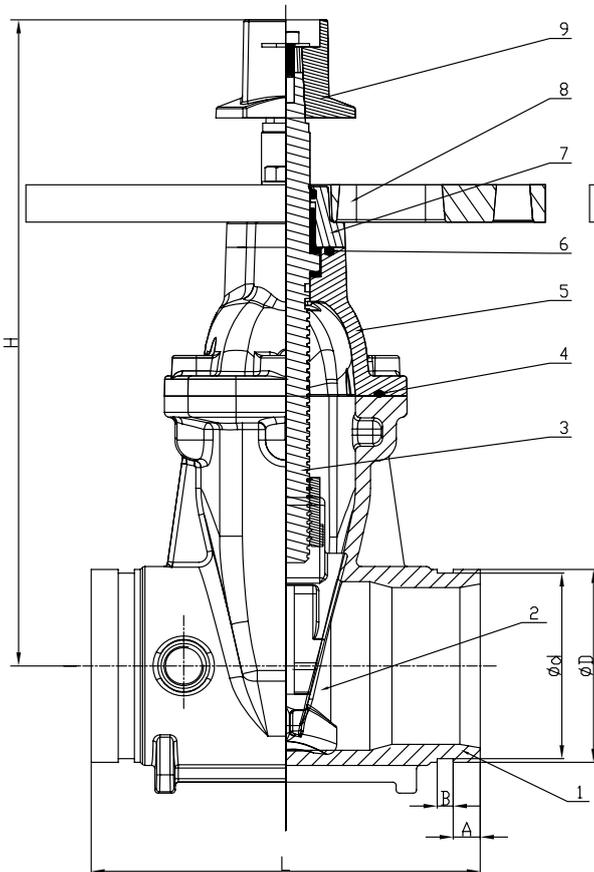
NON-RISING STEM GATE VALVES

Resilient Wedge NRS Gate Valve / Model NRS-300GG



- Size** : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"
- Operation** : For use with A-VPI or A-WPI indicator posts
- Remark** : No post flange supplied with 2", 2 1/2" & 3", and size 2" is FM approved only and size 5" is UL listed only
- Working Pressure** : 20.7 bar (300psi)
- Max. Test Pressure** : 41.4 bar (600psi)
- Working Temperature** : 0 - 80°C
- Connection** : Grooved metric or AWWA C606 standard
- Specifications** : Design and dimensions conform to AWWA C515
- Corrosion Protection** : Fusion bonded epoxy coating in accordance with ANSI/AWWA C550 for both interior and exterior surface.

Size 2"~3" with 1pc of 3/8" bronze NPT tapping plug, size 4"~5" with 1pc of 1/2" bronze NPT tapping plug, size 6"~12 with 1pc of 3/4" bronze NPT tapping plug.





NON-RISING STEM GATE VALVES

Material List

No	Part	Material	ASTM Specification
1	Valve Body	Ductile Iron	ASTM A536, 65-45-12
2	Wedge Disc	Ductile Iron	ASTM A536, 65-45-12 & EPDM
3	Stem	Stainless Steel	1Cr17Ni2
4	Bonnet Gasket	EPDM	Commercial
5	Bonnet	Ductile Iron	ASTM A536, 65-45-12
6	O-Ring	NBR	Commercial
7	Gland	Ductile Iron	ASTM A536, 65-45-12
8	Post Flange	Ductile Iron	ASTM A536, 65-45-12
9	Square Operating Nut	Ductile Iron	ASTM A536, 65-45-12
10	Bolt	Carbon Steel	Zinch Plated
11	Flat Washer	Carbon Steel	Zinch Plated
12	Bolt	Carbon Steel	Zinch Plated
13	Flat Washer	Carbon Steel	Zinch Plated
14	Ring Wiper	EPDM	Commercial
15	O-Ring	NBR	Commercial
16	Axis Guide	Brass	HPb59-1
17	Washer	Brass	HPb59-1
18	O-Ring	NBR	Commercial
19	Bolt	Carbon Steel	Zinch Plated
20	Wedge Nut	Brass	HPb59-1
21	Plug	Bronze	ASTM B584 C89833

Dimensions - Weights

SIZE		DIMENSIONS (mm)						WEIGHT KG.
		L	H	D	d	A	B	
DN50	¹ 2"	178	278	60,3	57,2	15,9	7,9	9,9
DN65	¹ 2 1/2"	190	296	73	69,1	15,9	7,9	10,9
				76,1	72,3			
DN80	¹ 3"	203	322	88,9	84,9	15,9	7,9	15,4
DN100	4"	229	395	114,3	110,1	15,9	9,5	28,1
DN125	² 5"	254	432	139,7	135,5	15,9	9,5	35,9
				141,3	137			
DN150	6"	267	475	165,1	160,9	15,9	9,5	42,4
				168,3	164			
DN200	8"	295	585	219,1	214,4	19	11,1	68,4
DN250	10"	330	656	273	268,3	19	12,7	105,4
DN300	12"	356	751	323,9	318,3	19	12,7	156,1

Note-1: No post plate - flange supplied

Note-2: UL Listed only (with post flange)

POST INDICATOR

Vertical Type Post Indicator / Model A-VPI



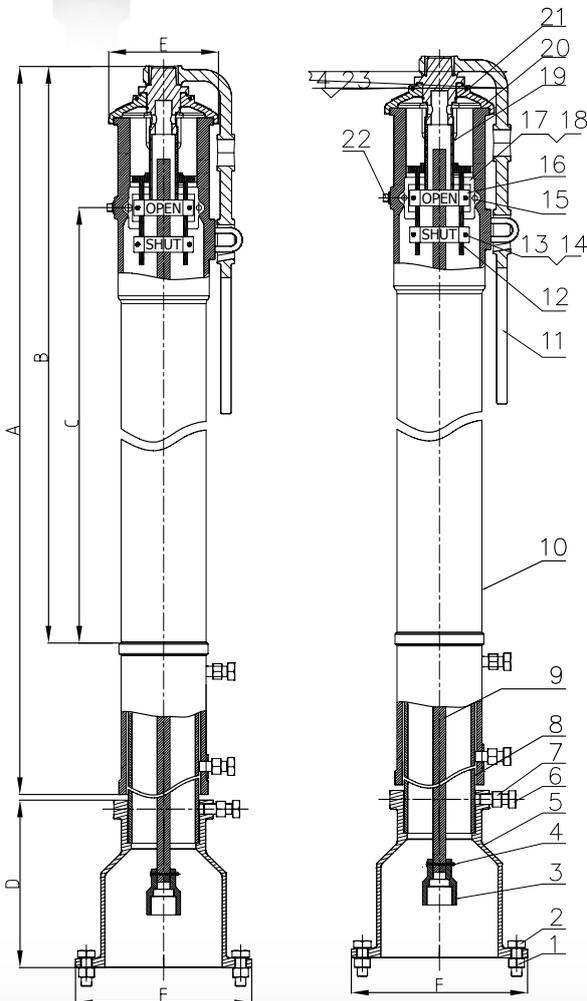
Vertical indicator post provides a means to operate a buried or otherwise inaccessible valve and able to indicate the open or shut position of the valve.

For use with 4" to 12" NRS indicating post gate valve

Weight: 90 kg.(198,36lbs.)

Field Adjustment:

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



DIMENSIONS (mm)					
A	B	C	D	E	F
1270	1006	759,5	292	190	305

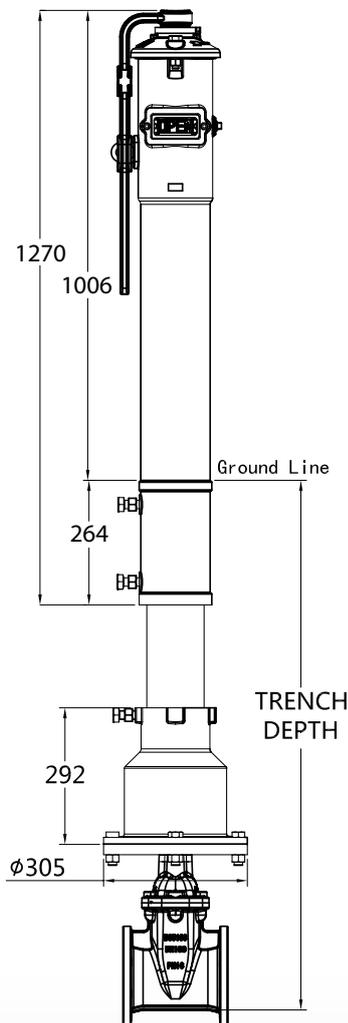
POST INDICATOR

Material List

No	Part	Material	ASTM Specification
1	Hex Nut	Carbon Steel Zinch Plated	
2	Hex Bolt	Carbon Steel Zinch Plated	
3	Socket	Ductile Iron	ASTM A536 65-45-12
4	Cotter Pin	Stainless Steel	AISI 304
5	Base Flange	Cast Iron	ASTM A126 Class B
6	Hex Bolt	Carbon Steel Zinch Plated	
7	Hex Nut	Carbon Steel Zinch Plated	
8	Stand Pipe	Carbon Steel	ASTM A53
9	Stem 1" Square	Carbon Steel	AISI 1045
10	Body	Cast Iron	ASTM A126 Class B
11	Locking Wrench	Ductile Iron	ASTM A536 65-45-12
12	Target Carrier Nut	Stainless Steel	AISI 304

No	Part	Material	ASTM Specification
13	Hex Bolt	Carbon Steel Zinch Plated	
14	Hex Nut	Carbon Steel Zinch Plated	
15	Hex Bolt	Carbon Steel Zinch Plated	
16	Target	Cast Aluminium	
17	Window Glass	Plexiglass	
18	Gasket	EPDM	
19	Operating Nut	Stainless Steel	AISI 304
20	Top Section	Cast Iron	ASTM A126 Class B
21	Snap Ring	Carbon Steel	AISI 1066
22	Plug	Malleable Iron- Galvanised	
23	Square Nut	Carbon Steel Zinch Plated	
24	Hex Bolt	Carbon Steel Zinch Plated	

Trench Depth



SIZE		Trench Depth (mm)
4"	Min	958
	Max	1808
6"	Min	1073
	Max	1923
8"	Min	1200
	Max	2050
10"	Min	1314
	Max	2164
12"	Min	1448
	Max	2298

POST INDICATOR

Wall Type Post Indicator / Model A-WPI



Wall indicator post provides a means to operate a valve installed behind a wall and able to indicate the open or shut position of the valve.

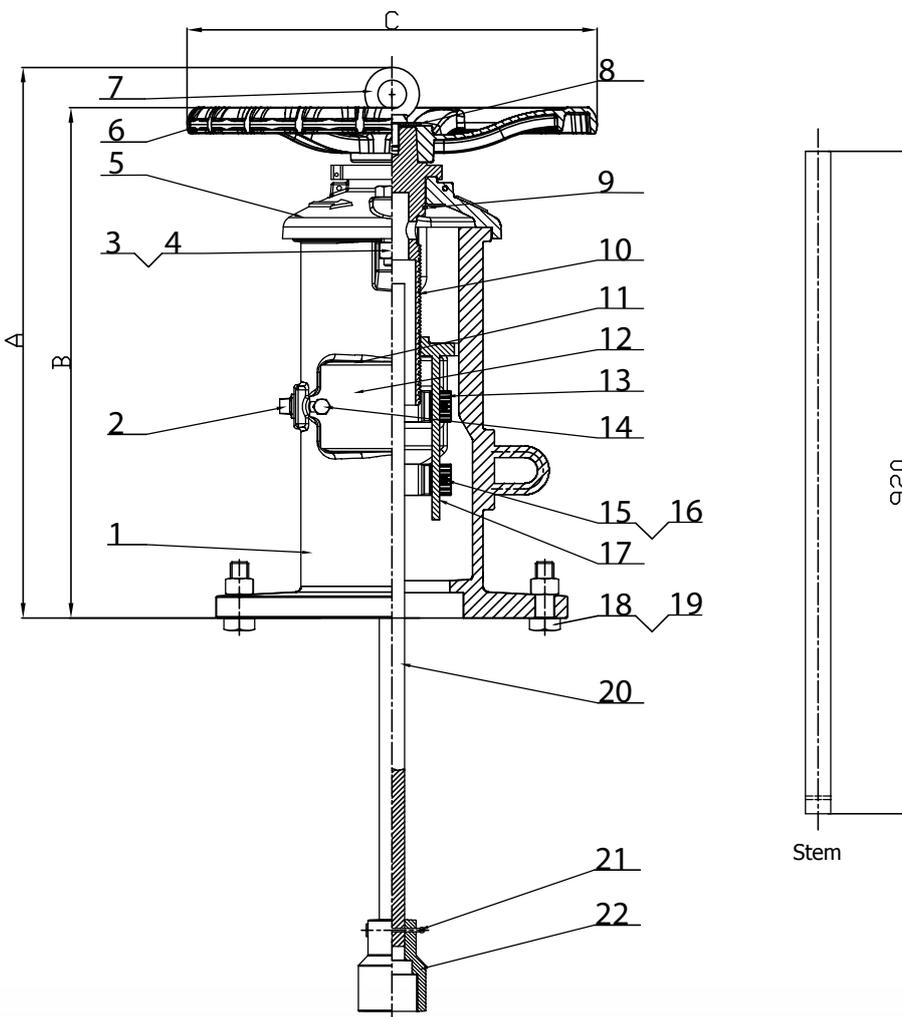
NOTE: Ensure that the non-rising stem gate valve is in the fully open position before installing the Wall Post Indicator.

For use with 4" to 12" NRS indicating post gate valve

Weight: 40,8kg.(90lbs.)

Field Adjustment:

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



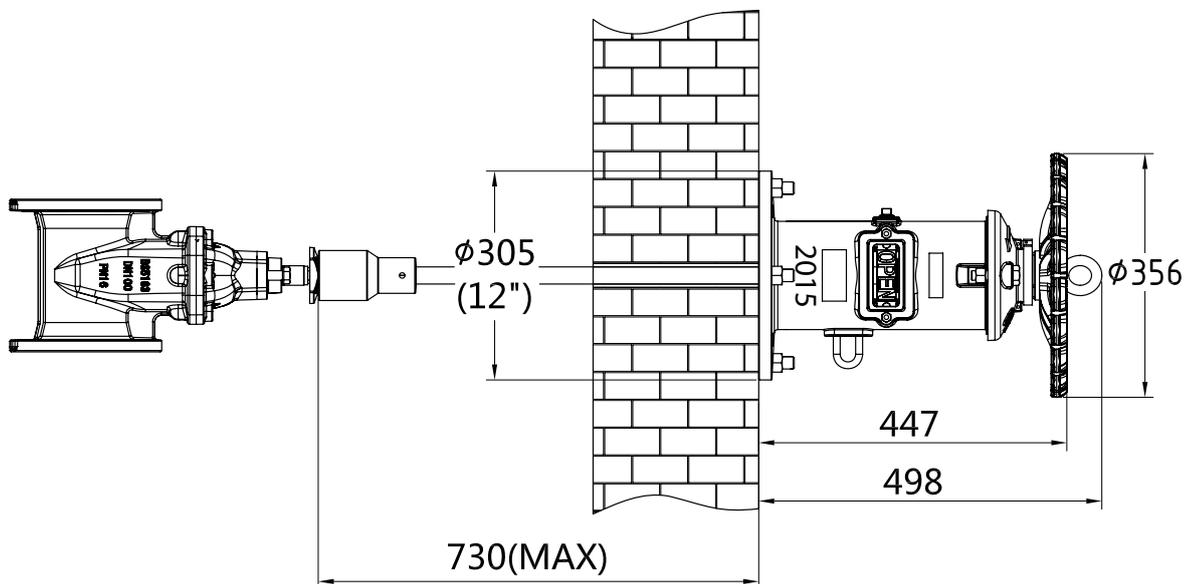
DIMENSIONS (mm)		
A	B	C
497	447	356

POST INDICATOR

Material List

No	Part	Material	ASTM Specification	No	Part	Material	ASTM Specification
1	Body	Cast Iron	ASTM A126 Class B	12	Window Glass	Plexiglass	
2	Plug	Malleable Iron-Galvanised		13	Target	Cast Aluminium	
3	Square Nut	Carbon Steel Zinch Plated		14	Hex Bolt	Carbon Steel Zinch Plated	
4	Hex Bolt	Carbon Steel Zinch Plated		15	Hex Bolt	Carbon Steel Zinch Plated	
5	Cover	Cast Iron	EN-GJL-200	16	Hex Nut	Carbon Steel Zinch Plated	
6	Hand Wheel	Ductile Iron	ASTM A536 65-45-12	17	Target Carrier Nut	Stainless Steel	AISI 304
7	Eye Bolt	Carbon Steel Zinch Plated		18	Hex Nut	Carbon Steel Zinch Plated	
8	Gasket	Carbon Steel Zinch Plated		19	Hex Bolt	Carbon Steel Zinch Plated	
9	Snap Ring	Spring Steel		20	Stem 1" Square	Carbon Steel	
10	Operating Nut	Stainless Steel	AISI 304	21	Cotter Pin	Stainless Steel	AISI 304
11	Gasket	EPDM		22	Socket	Cast Iron	ASTM A536 65-45-12

Typical Installation

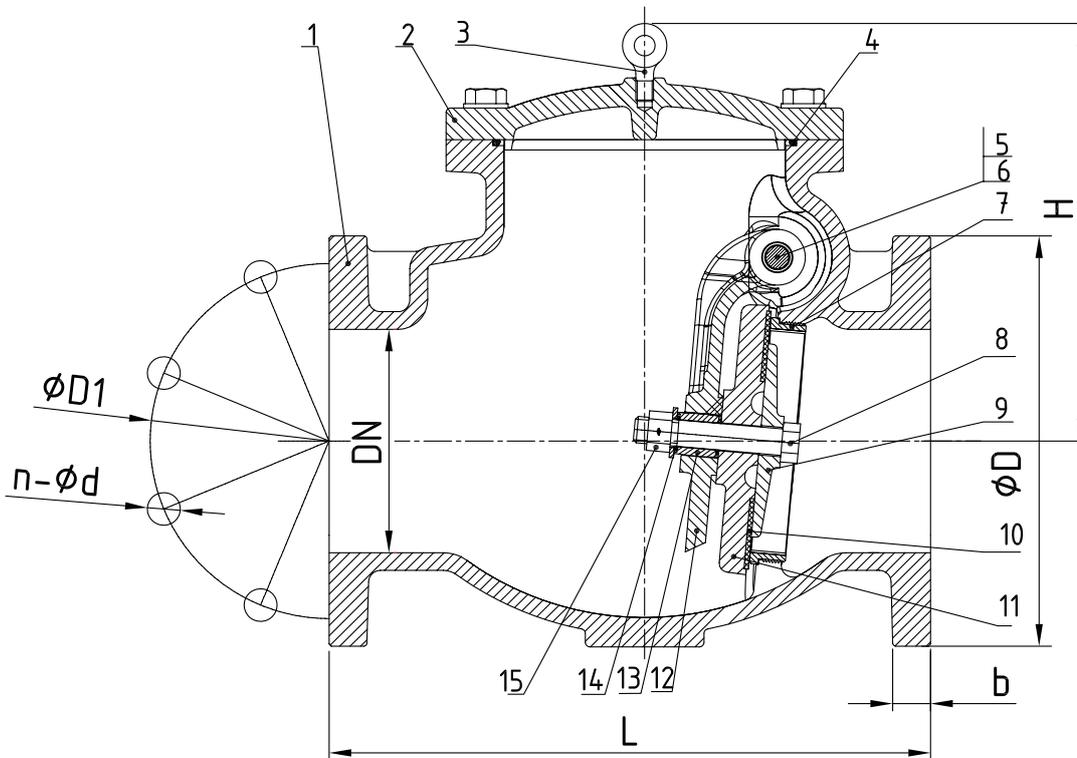


CHECK VALVES

Swing Check Valve Flanged / Model AFCV



- Size** : 2", 2 1/2", 3", 4", 6", 8", 10", 12"
- Installation** : Horizontal or vertical
- Working Pressure** : 20,7 bar (300psi)
- Max. Test Pressure** : 41,4 bar (600psi)
- Working Temperature** : 0 - 80°C
- Connection** : Flange diameter and thickness according to ANSI B16.1 Class 125, EN1092-2 PN10 or EN1092-2 PN16
- Specifications** : Complys with AWWA C508, clear waterway design.
- Seat Type** : Bronze clapper face ring and valve body seat
- Finish** : Fusion bonded epoxy coated interior & exterior





CHECK VALVES

Material List

No	Part	Material	ASTM Specification
1	Valve Body	Ductile Iron	ASTM A536 65-45-12
2	Bonnet	Ductile Iron	ASTM A536 65-45-12
3	Eye Bolt	Zinch Plated Carbon Steel	
4	O-Ring	NBR	Commercial
5	Hinge Pin	Stainless Steel	AISI 304
6	Hinge Bushing	Brass	ASTM B36
7	Seat Ring	Bronze	ASTM B62
8	Disc Seat Bolt	Stainless Steel	AISI 304
9	Retainer Washer	Bronze	ASTM B62
10	Disc Sealing Ring	EPDM	Commercial
11	Disc	Ductile Iron	ASTM A536 65-45-12
12	Clapper Arm	Ductile Iron	ASTM A536 65-45-12
13	Stud Bushing	Brass	ASTM B36
14	O-Ring	NBR	Commercial
15	Nuts	Stainless Steel	AISI 304

Dimensions - Weights

SIZE	L	D	b	H	DIMENSIONS (mm)						WEIGHTS (kg)	
					D1			n-ØL				
					ANSI	PN16	PN10	ANSI	PN16	PN10		
DN50	2"	203	152	16	133	120,5	125		4-Ø19.1		11,2	
DN65	2 1/2"	254	178	17,5	150	139,5	145		4-Ø19.1		16,7	
DN80	3"	279	191	19	150	152,5	160		4-Ø19.1	8-Ø19.1	22,5	
DN100	4"	330	229	24	218	190,5	180		8-Ø19.1	8-Ø19.1	34,9	
DN150	6"	406	279	25,5	290	241,5	240		8-Ø22.2	8-Ø23	65,2	
DN200	8"	495	343	28,5	330	298,5	295		8-Ø22.2	12-Ø23	8-Ø23	120,7
DN250	10"	559	406	30,5	350	362	355	350	12-Ø25.4	12-Ø28	12-Ø23	180,9
DN300	12"	660	483	32	375	432	410	400	12-Ø25.4	12-Ø28	12-Ø23	242,3

Valve flange drilling (size and location of holes) allows mating with the following flange types:

ANSI= ANSI B16.1 Class 125

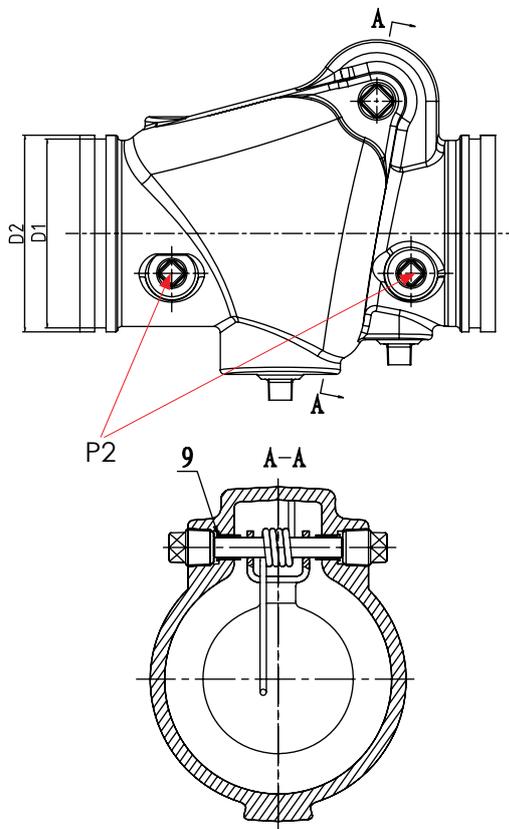
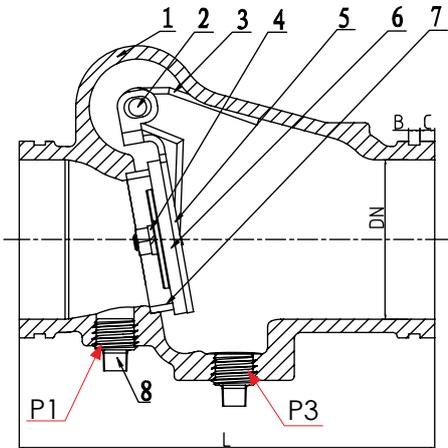
PN16=DIN 2501, EN 1092 - PN16

PN10=DIN 2501, EN 1092 - PN10

Swing Check Valve Grooved / Model AGCV



- Size** : 2", 2 1/2", 3", 4", 6", 8", 10", 12"
- Installation** : Horizontal or vertical
- Working Pressure** : 20,7 bar (300psi)
- Max. Test Pressure** : 41,4 bar (600psi)
- Working Temperature** : 0 - 80°C
- Connection** : Grooved joint dimensions are made in accordance with metric or AWWA C606
- Seat** : Bronze
- Clapper** : EPDM coated ductile iron
- Finish** : Fusion bonded epoxy coated interior & exterior





CHECK VALVES

Material List

No	Part	Material	ASTM Specification
1	Valve Body	Ductile Iron	ASTM A 536 GR. 65-45-12
2	Hinge Pin	Stainless Steel	AISI 420
3	Spring	Stainless Steel	AISI 304
4	Spring Washer	Stainless Steel	AISI 304
5	Disc	DN50-DN100 Stainless Steel	AISI 304
		DN150-DN300 Ductile Iron	ASTM A 536 GR. 65-45-12
6	Disc Sealing Ring	EPDM	Commercial
7	Seat Ring	Bronze	ASTM B62 C83600
8	Plug	Malleable Iron-Galvanised	-
9	Bushing	Bronze	ASTM B62 C83600

Dimensions - Weights

SIZE		DIMENSIONS (mm)								WEIGHTS (kg)
		L	D1	D2	B	C	P1	P2	P3	
DN50	2"	172	57,2	60,3	7,9	15,9	1/2"	1/4"	1/2"	3,3
DN65	2 1/2"	184	69,1	73						3,6
			72,3	76,1						4,6
DN80	3"	197	84,9	88,9	9,5					7,44
DN100	4"	209	110,1	114,3						16,2
DN150	6"	325	160,9	165,1	11,1					26,9
			164	168,3						51,9
DN200	8"	372	214,4	219,1	12,7	19,1				75,6
DN250	10"	457	268,3	273						
DN300	12"	535	318,3	323,9						

FIRE PUMP FLOWMETER SYSTEM

Venturi Flow Test Meter / Model AYW



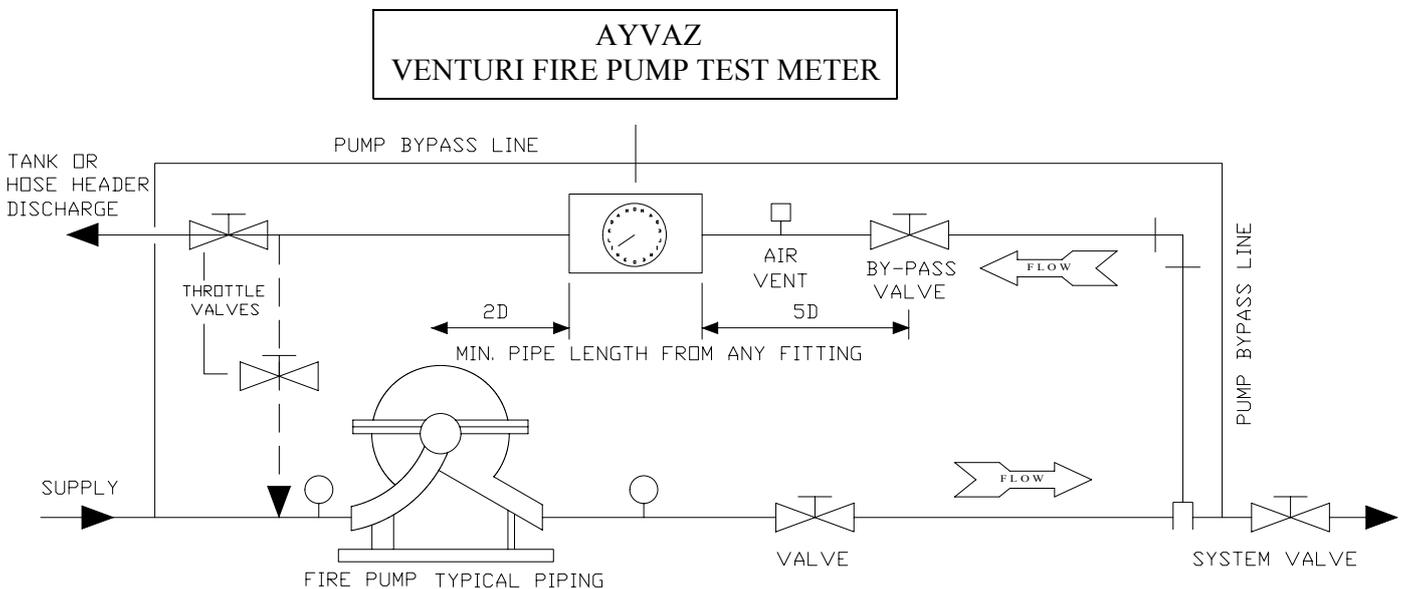
Construction & Specifications

Materials	: Carbon steel
Valves	: Brass
Connection & Rated Pressure	: Welded -500PSI
	: Grooved -500PSI
	: Flanged #150 -275PSI
	: Flanged #300 -500PSI
Hose	: Rubber with brass fittings
ID Tag	: Polycarbonate

Meter Device

Body	: Aluminium
Operation	: Diaphragm
Accuracy	: +%2 Full Scale
Temperature	: 80°C
Pressure	: 500PSI
Weight	: 1.7kg
Size	: 4" Dial

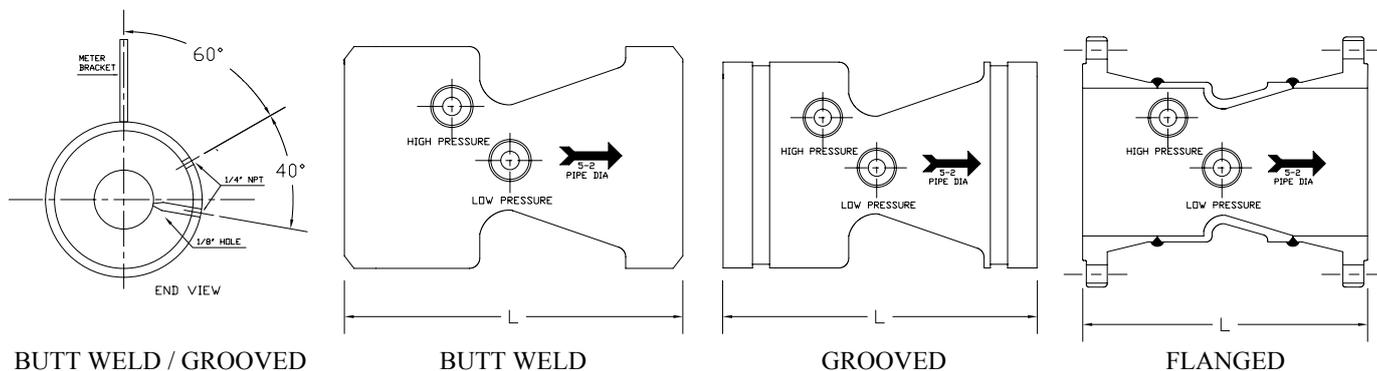
Installation



Operating instructions

- 1- Close system valve
- 2- Open system by-pass valve and throttle valve
- 3- Purge meter located on venturi as follows:
 - Open shut-off valves & vent valves.
 - When a steady stream of water is passing through Each plastic hose, the meter is purged of air.
 - Close vent valve after purging.
- 4- Start fire pump, read meter in gpm/lpm
- 5- Refer to pump gpm/lpm requirement and adjust Throttle valve for this requirement.
- 6- After test open system valve and close system By-pass and throttle valves.

FIRE PUMP FLOWMETER SYSTEM



BUTT WELD / GROOVED

BUTT WELD

GROOVED

FLANGED

SIZE	PUMP CAPACITY GPM	FLOW RANGE		MIN. STRAIGHT PIPE LENGTH (mm)		BUTT WELD & GROOVED		FLANGED # 150LB		FLANGED # 300LB	
		MIN	MAX			L (mm)	WEIGHT KG.	L (mm)	WEIGHT KG.	L (mm)	WEIGHT KG.
		GPM		BEFORE	AFTER						
3"	150	75	300	445	178	101,6	2,7	238,1	13,6	260,4	16,3
	200	100	400								
4"	250	125	500	570	228	136,5	4,5	288,9	18,1	308,0	27,2
	300	150	600								
	400	200	800								
5"	450	225	900	695	278	152,4	9,1	330,2	26,3	349,3	38,1
	500	250	1000								
	750	375	1500								
6"	500	250	1000	840	336	177,8	10,0	355,6	31,7	374,7	48,0
	750	375	1500								
	1000	500	2000								
8"	1250	625	2500	1095	438	184,2	14,0	387,4	42,1	406,4	82,0
	1000	500	2000								
	1500	750	3000								
	2000	1000	4000								
	2500	1250	5000								
10"	3000	1500	6000	1365	546	203,2	20,4	406,4	67,5	438,2	102,8
	3500	1750	7000								
	4000	2000	8000								
	4500	2250	9000								
	2000	1000	4000								
	2500	1250	5000								
12"	3000	1500	6000	1620	648	304,8	35,3	533,4	107,8	565,2	162,2
	3500	1750	7000								
	4000	2000	8000								
	4500	2250	9000								
	5000	2500	10000								

WATERFLOW DETECTOR

Waterflow Detector Threaded / Model WFDTH



Features

- Residential sprinkler systems
- Sealed retard mechanism
- Visual switch activation
- Rugged, dual SPDT switches enclosed in a durable terminal block
- Easy to install and maintain design
- Vertical or horizontal mount
- Field replaceable retard mechanism and switch assembly
- Twelve different flexible paddles
- Durable, tamper resistant enclosure
- Two conduit openings
- Handy depth gauge
- Accommodates up to 12 AWG wire
- 100% synchronization fires alarm panel and local bell simultaneously

Design. The design of the WFDTH makes it easy to install and simple to maintain. It can be mounted in the vertical or horizontal position. Two conduit openings permit easy attachment to the local alarm system. The retard mechanism and switch assembly are fieldreplaceable.

Features. Twelve different flexible paddles fit 1", 1.1", 1.2", and 2" tees. Sizes are marked clearly on the paddle for ease of installation. Plastic paddles slip over the actuating lever and are securely fastened with one screw. The handy depth gauge insures the proper installation depth and clearance of the detector to the tee.

Construction. The WFDTH includes a durable and tamper resistant enclosure. Its sealed retard assures that the delay mechanism is not contaminated by dust and dirt when the cover is removed. The long lasting cover completely encloses the electrical components to further keep out dust and dirt. Improved self-guiding security screws and removal tools make detectors resistant to tampering and simplify field maintenance.

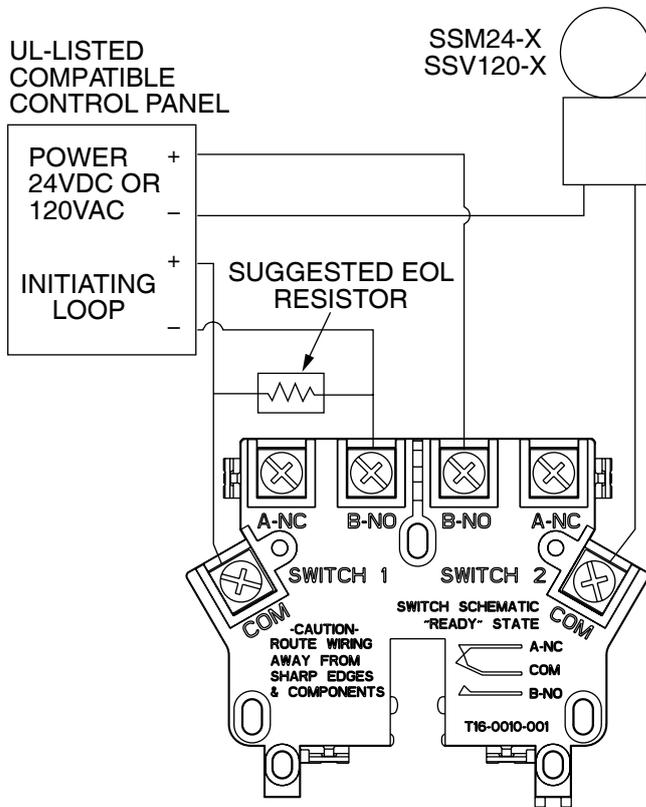
Specifications

Static Pressure Rating	: 250 PSI (max.)
Maximum Surge	: 18 FPS
Triggering Threshold Bandwidth (Flow Rate)	: 4–10 GPM
Overall Dimensions, Installed	: 11.4cm H × 9cm W × 17cm L
Contact Ratings	: Two sets of SPDT (Form C) — 10.0 A @ 125/250 VAC — 2.5 A @ 24 VDC
Compatible Tee Fittings	: Threaded ferrous and brass tees, copper Sweat tees, CPVC tees, and polybutylene tees
Conduit Entrances	: Two openings for ½" conduit
Operating Temperature Range	: 32°F to 120°F (0°C to 49°C)
Enclosure Rating	: UL listed for indoor use
Cover Tamper Switch	: Canadian models only, factory installed
Service Use	: Automatic Sprinkler: NFPA 13 One or Two Family Dwelling: NFPA 13D Residential Occupancies up to 4 Stories: NFPA 13R National Fire Alarm Code: NFPA 72
Shipping Weight	: 1.2 kg



WATERFLOW DETECTOR

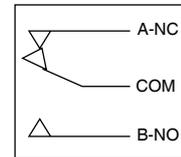
Wiring Diagram



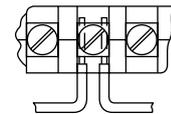
NOTE: COMMON AND B-NO CONNECTIONS WILL CLOSE WHEN VANE IS DEFLECTED, I.E., WHEN WATER IS FLOWING. DUAL SWITCHES PERMIT APPLICATIONS TO BE COMBINED ON A SINGLE DETECTOR.

CONTACT RATINGS	
125/250 VAC	10 AMPS
24 VDC	2.5 AMPS

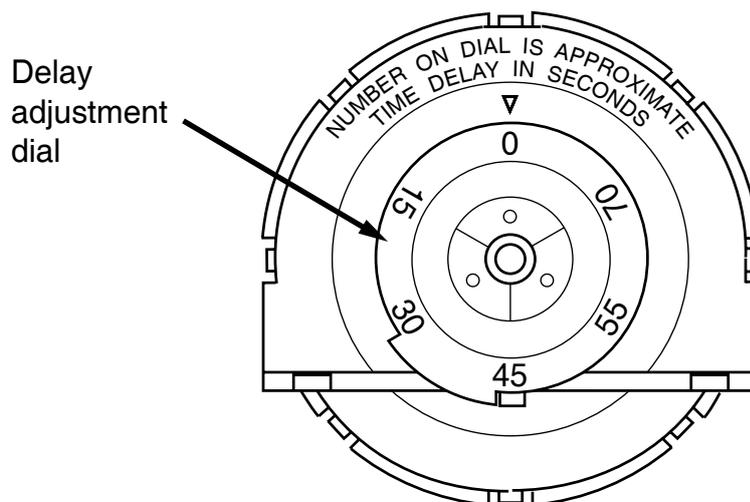
SCHEMATIC OF INDIVIDUAL SWITCH IN "NO WATERFLOW" CONDITION



BREAK WIRE AS SHOWN FOR SUPERVISION OF CONNECTION. DO NOT ALLOW STRIPPED WIRE LEADS TO EXTEND BEYOND SWITCH HOUSING. DO NOT LOOP WIRES.



Delay Adjustment Dial



NOTE: Retard time may exceed 90 seconds.
Adjust and verify that time does not exceed 90 seconds.

WATERFLOW DETECTOR

Waterflow Detector U Bolted / Model WFD



Features

- UL-listed models are NEMA 4 rated
- The WFD series is compatible with schedule 10 through 40 steel pipe, sizes 2" through 8", and can be mounted in a vertical or horizontal position.
- Sealed retard mechanism immune to dust and other contaminants
- Visual switch activation
- Field-replaceable retard mechanism and SPDT switches
- Rugged, dual SPDT switches enclosed in a durable terminal block
- Accommodates up to 12 AWG wire
- Designed for both indoor and outdoor use
- 100 percent synchronization activates both alarm panel and local bell
- Tamper-resistant cover screws

Robust Construction. The WFD series consists of a rugged, NEMA 4-rated enclosure. Designed for both indoor and outdoor use, the WFD series operates across a wide temperature range, from 32°F to 120°F.

Reliable Performance. UL-listed models are equipped with tamper-resistant cover screws to prevent unauthorized entry. Inside, two sets of SPDT (Form C) synchronized switches are enclosed in a durable terminal block to assure reliable performance.

False Alarm Immunity. The WFD series incorporates a mechanical retard feature, which minimizes the risk of false alarm due to pressure surges or air trapped in the sprinkler system. In addition, the mechanical retard's unique sealed design is immune to dust and other contaminants.

Simplified Operation. The WFD series is designed to simplify installation. Two conduit openings permit easy attachment to the local alarm system. The retard mechanism and dual SPDT switches are field-replaceable.

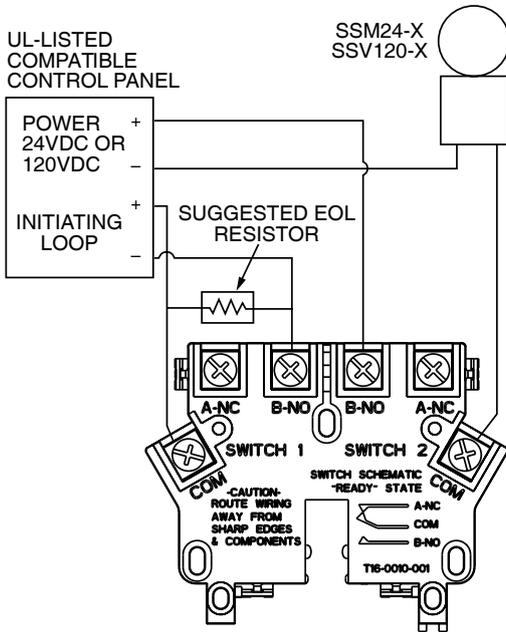
Specifications

Static Pressure Rating	: 450 PSI*
Maximum Surge	: 18 FPS
Triggering Threshold Bandwidth (Flow Rate)	: 4–10 GPM
Conduit Entrances	: Two openings for ½" conduit. One open, one knock-out type
Contact Ratings	: Two sets of SPDT (Form C) — 10.0 A @ 125/250 VAC — 2.5 A @ 24 VDC
Compatible Pipe	: Steel water pipe, schedule 10 through 40
Operating Temperature Range	: 32°F to 120°F (0°C to 49°C)
Enclosure Rating*	: NEMA4 - Suitable for indoor/outdoor use
Cover Tamper Switch	: Standard with ULC models, optional for UL models, part no. 546-7000
Service Use	: Automatic Sprinkler: NFPA 13 One or Two Family Dwelling: NFPA 13D Residential Occupancies up to 4 Stories: NFPA 13R National Fire Alarm Code: NFPA 72



WATERFLOW DETECTOR

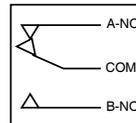
Wiring Diagram



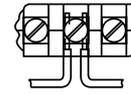
NOTE: COMMON AND B-NO CONNECTIONS WILL CLOSE WHEN VANE IS DEFLECTED, I.E., WHEN WATER IS FLOWING. DUAL SWITCHES PERMIT APPLICATIONS TO BE COMBINED ON A SINGLE DETECTOR.

CONTACT RATINGS	
125/250 VAC	10 AMPS
24 VDC	2.5 AMPS

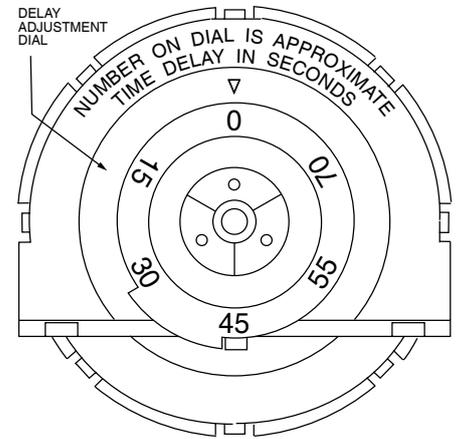
SCHEMATIC OF INDIVIDUAL SWITCH IN "NO WATERFLOW" CONDITION



BREAK WIRE AS SHOWN FOR SUPERVISION OF CONNECTION. DO NOT ALLOW STRIPPED WIRE LEADS TO EXTEND BEYOND SWITCH HOUSING. DO NOT LOOP WIRES.

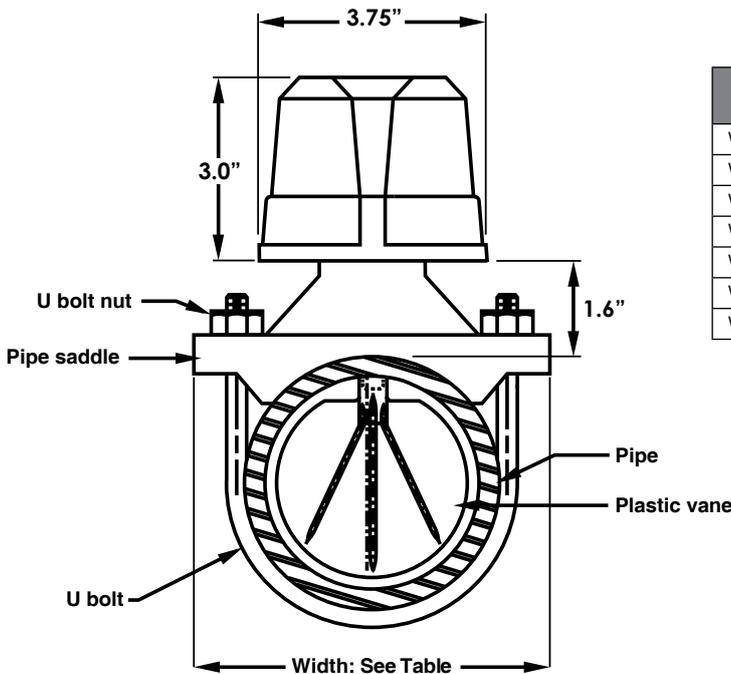


Delay Adjustment Dial



NOTE: RETARD TIME MAY EXCEED 90 SECONDS. ADJUST AND VERIFY THAT TIME DOES NOT EXCEED 90 SECONDS. NUMBER ON DIAL IS APPROXIMATE TIME DELAY IN SECONDS WITH AN ACCURACY OF +/- 50%.

Dimensions



Model	Pipe Size (inch)	Hole Size (inch)	Width (inch)	Weight (kg)
WFD20	2"	1 1/4"	4,6"	1,9
WFD25	2 1/2"	1 1/4"	4,6"	1,95
WFD30-2	3"	2"	5,2"	2,04
WFD40	4"	2"	5,7"	2,36
WFD50	5"	2"	6,8"	2,86
WFD60	6"	2"	9,0"	3,08
WFD80	8"	2"	10,8"	3,4

PRESSURE REDUCING VALVE

**Globe Type / Model 90G-21
Angle Type / Model 90A-21**



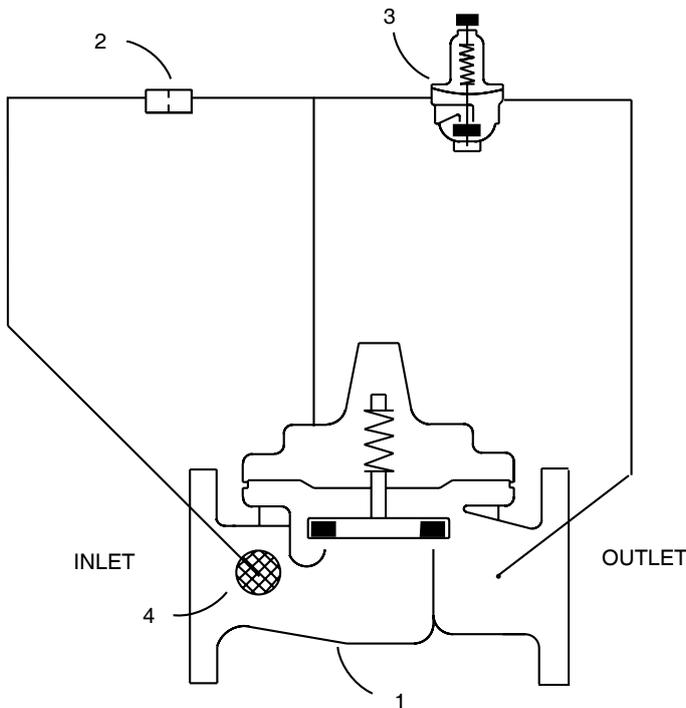
Features

- Globe or Angle Pattern
- Proven Reliable Design
- Available in Cast Bronze and Ductile Iron
- Accurate Pressure Control
- In Line Service
- Flanged and Grooved Ends

The Model 90G-21 (globe) and 90A-21 (angle) Pressure Reducing Valves are indispensable in any fire protection system. The diaphragm actuated design is proven highly reliable and easy to maintain. Available are globe or angle pattern with a full range of adjustments. A variety of material options are also available. Epoxy coating is strongly recommended for all fire system valves (excluding bronze valves).

The 90G-21 and 90A-21 can be supplied with optional internal and external epoxy coating of the main valve wetted surfaces.

The 90G-21 (globe) and 90A-21 (angle) Pressure Reducing Valves automatically reduce a higher inlet pressure to a steady lower outlet pressure regardless of changing flow rate and/or varying inlet pressure. The valves pilot control system is very sensitive to slight downstream pressure fluctuations, and will automatically open or close to maintain the desired pressure setting. The downstream pressure can be set over a wide range by turning the adjustment screw on the CRD pilot control. The adjustment screw is protected by a screw-on cover, which can be sealed to discourage tampering.



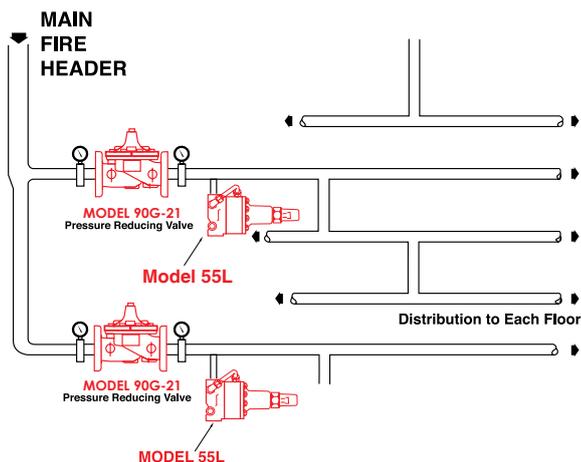
Schematic Diagram

- Item Description
- 1 Model 100-01 Hytrol (Globe or Angle)
 - 2 X58C Restriction Tube Fitting
 - 3 CRD Pressure Reducing Control
 - 4 X46A Flow Clean

PRESSURE REDUCING VALVE

Typical Application

Underwriters Laboratories requires the installation of pressure gauges upstream and downstream of the Pressure Reducing Valve. Also, a relief valve of not less than 1/2 inch in size must be installed on the downstream side of the pressure control valve. Adequate drainage for the relief valve discharge must be provided.



Size	Ductile Iron 150#F	Ductile Iron 300#F	Globe Pattern Ductile Iron Grooved End	Bronze 150#F	Angle Pattern Ductile Iron Grooved End	Ductile Iron 300#F
1 1/2"	UL / ULC	UL / ULC	UL / ULC			
2"	UL / ULC	UL / ULC	UL / ULC	ULC	UL / ULC	ULC
2 1/2"	UL / ULC	UL / ULC	UL	ULC		ULC
3"	UL / ULC	UL / ULC	UL / ULC	ULC	UL / ULC	ULC
4"	UL / ULC	UL / ULC	UL / ULC	ULC	UL / ULC	ULC
6"	UL / ULC	UL / ULC	UL / ULC		ULC	
8"	UL / ULC	UL / ULC	UL / ULC			
10"	ULC	ULC				

Specifications

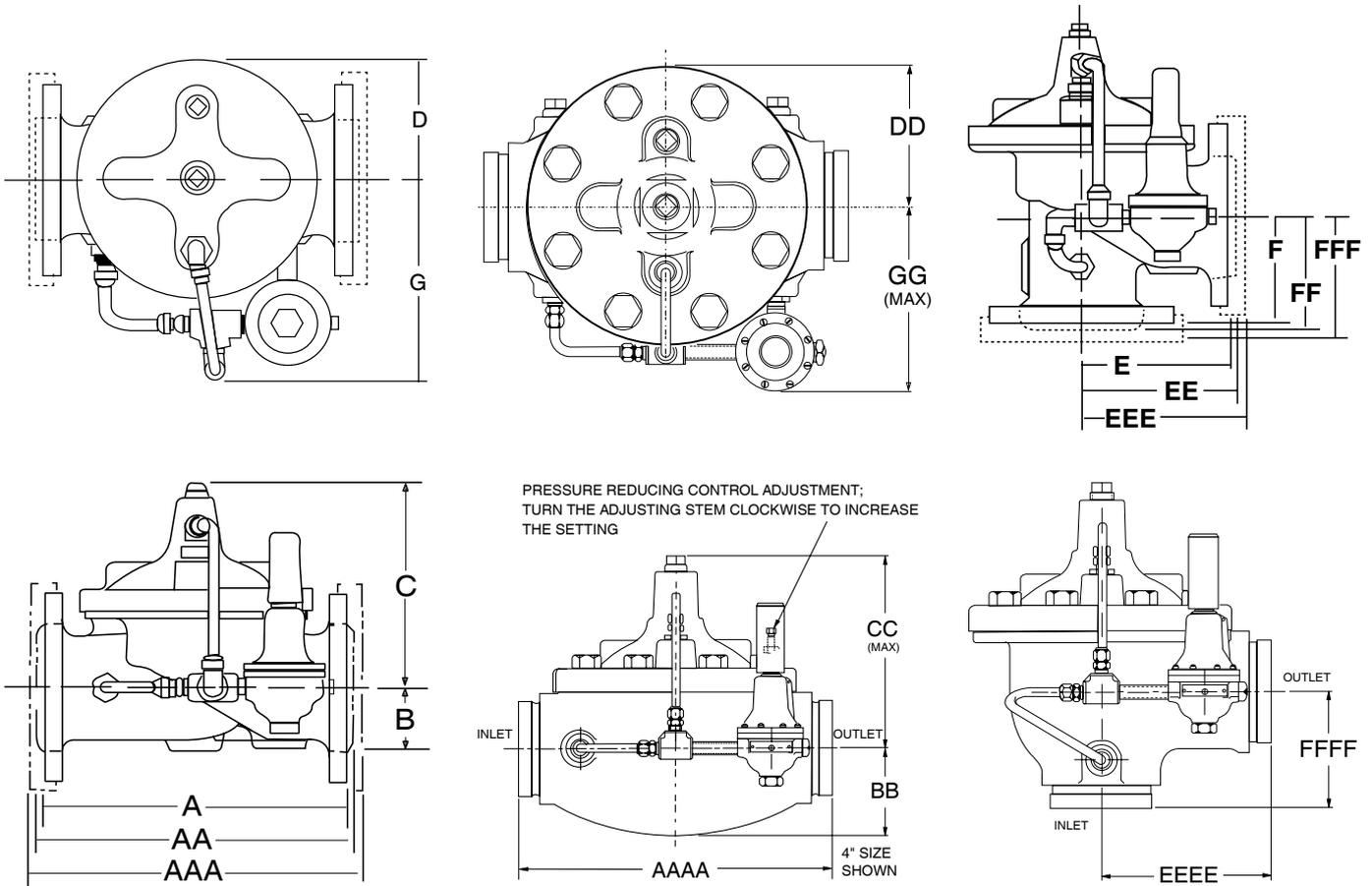
Size	: Class 175 lb. 40 mm - 200 mm (Globe) 50 mm - 150 mm (Angle)	Class 300 lb. 40 mm - 200 mm (Globe) 50 mm - 150 mm (Angle)
End Details	: 150 ANSI B16.42 (Ductile Iron) (Bronze) 300# (Ductile Iron) 300# (Ductile Grooved End).	
Temperature Range	: Water to 82°C (180°F) Max.	
Pressure Differential	: 10 PSI Min.	
Pressure Adjustment Range	: Class 175 lb. 30 - 165PSI	Class 300 lb. 30 - 165PSI

Materials

Main Valve Body & Cover	: Ductile Iron - ASTM A536
Main Valve Internal Trim	: Bronze ASTM B61
Pilot Control System & Pilot Control Valve	: Bronze ASTM B62 with Stainless Ü Steel 303 internal trim Copper tubing with brass fittings
Main Valve and Pilot Valve Diaphragm and Disc	: Buna-N synthetic rubber

PRESSURE REDUCING VALVE

Dimensions



Valve Size	(mm) (inc)	40	50	65	80	100	150	200	250
			1 1/2"	2"	2 1/2"	3"	4"	6"	8"
Max. Flow Rate	LPM	606	992	1412	2180	3755	8521	14763	23280
	GPM	160	262	373	576	992	2251	3900	6150

PRESSURE REDUCING VALVE

Dimensions

Size (inch)	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"
A Threaded	7,25	9,38	11,00	12,50	-	-	-	-
AA 150 ANSI	8,50	9,38	11,00	12,00	15,00	20,00	25,38	29,75
AAA 300 ANSI	9,00	10,00	11,62	13,25	15,62	21,00	26,38	31,12
AAAA Grooved End	8,50	9,00	11,00	12,50	15,00	20,00	25,38	-
B	1,12	1,50	1,69	2,56	3,19	4,31	5,31	9,25
BB Grooved End	2,00	2,50	2,88	3,12	4,25	6,00	7,56	-
C Max	5,50	6,50	7,56	8,19	10,62	13,38	16,00	17,12
CC Max. Grooved End	4,10	5,00	6,88	6,50	8,80	11,10	14,50	-
D	2,81	3,31	4,40	4,56	5,75	7,88	10,00	11,81
DD Grooved End	2,81	3,31	4,40	4,56	5,75	7,88	10,00	-
E Threaded	3,25	4,75	5,50	6,25	-	-	-	-
EE 150 ANSI	4,00	4,75	5,50	6,00	7,50	10,00	12,75	14,88
EEE 300 ANSI	4,25	5,00	5,88	6,38	7,88	10,50	13,25	15,56
EEEE Grooved End	-	4,75	-	6,00	7,50	-	-	-
F Threaded	1,88	3,25	4,00	4,50	-	-	-	-
FF 150 ANSI	4,00	3,25	4,00	4,00	5,00	6,00	8,00	8,62
FFF 300 ANSI	4,25	3,50	4,31	4,38	5,31	6,50	8,50	9,31
FFFF Grooved End	-	3,25	-	4,50	5,00	-	-	-
G (Max)	7,50	7,75	7,75	8,00	9,00	9,50	10,50	11,50
GG (Max)	8,10	8,00	-	8,13	9,31	10,50	11,50	-

Size (mm)	40	50	65	80	100	150	200	250
A Threaded	184	238	279	318	-	-	-	-
AA 150 ANSI	216	238	279	305	381	508	645	756
AAA 300 ANSI	229	254	295	337	397	533	670	790
AAAA Grooved End	216	229	279	318	381	508	645	-
B	28	38	43	65	81	109	135	235
BB Grooved End	51	64	73	79	108	152	192	-
C Max	140	165	192	208	270	340	406	435
CC Max. Grooved End	104	127	175	165	224	282	368	-
D	71	84	112	116	146	200	254	300
DD Grooved End	71	84	112	116	146	200	254	-
E Threaded	83	121	140	159	-	-	-	-
EE 150 ANSI	102	121	140	152	191	254	324	378
EEE 300 ANSI	108	127	149	162	200	267	337	395
EEEE Grooved End	-	121	-	152	191	-	-	-
F Threaded	48	83	102	114	-	-	-	-
FF 150 ANSI	102	83	102	102	127	152	203	219
FFF 300 ANSI	108	89	109	111	135	165	216	236
FFFF Grooved End	-	83	-	114	127	-	-	-
G (Max)	191	197	197	203	229	241	267	292
GG (Max)	206	203	-	207	236	267	292	-

PRESSURE RELIEF VALVES

**Globe Type / Model 50B-4KG1
Angle Type / Model 2050B-4KG1**



Features

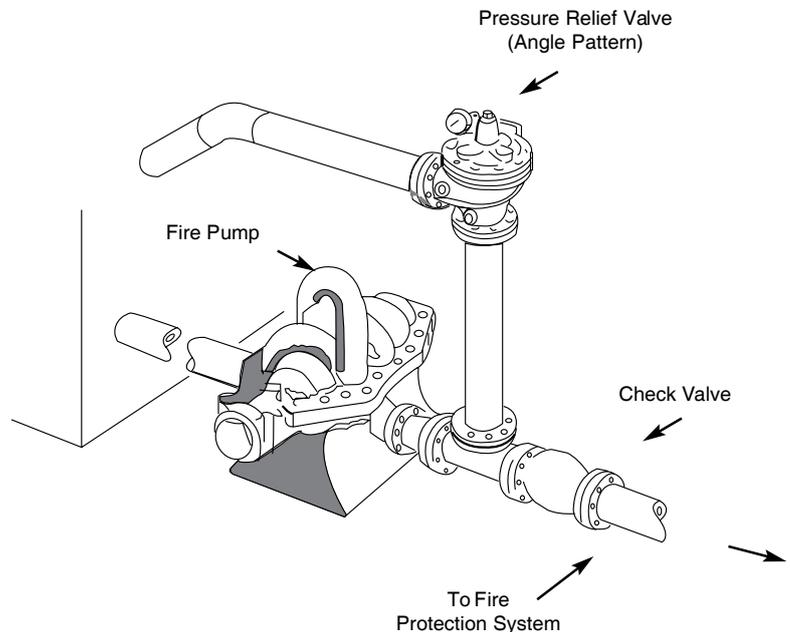
- Fast Opening to Maintain Steady Line Pressure
- Accommodates Wide Range of Flow Rates
- Closes Gradually for Surge-Free Operation
- Adjustable Pressure Settings, Not Affected by Pressure At Valve Discharge

The Model 50B-4KG1 Globe / 2050B-4KG1 Angle Pressure Relief Valve is designed specifically to automatically relieve excess pressure in fire protection pumping systems. Pilot controlled, it maintains constant system pressure at the pump discharge within very close limits as demands change. The 50B-4KG1 and 2050B-4KG1 can be supplied with optional internal and external epoxy coating of the main valve wetted surfaces.

U.L. Listed.....Sizes 3" thru 8"
F.M. Approved.....Sizes 3" thru 8"
U.L.C. Listed.....Sizes 2" thru 10"

Typical Application

At pump start, Relief Valve modulates to relieve excess pump capacity, maintaining positive system pressure at the pump discharge. When fire demand slows or ceases, Model 50B-4KG1 opens, diverting entire pump output to discharge, allowing fire pump to be stopped without causing surging in the lines. (Please note that if the Model 50B-4KG1 is to be used on a continuous duty basis to maintain fire-system pressure, suitable back pressure must be provided on the valve to prevent cavitation damage. Consult the factory for details.)



Specifications

Size	: Globe: 2" - 10" flanged Angle: 2" - 10" flanged
End Details & Pressure Ratings	: Class 150 ANSI B16.42 (175PSI) and Class 300 ANSI B16.42 (300PSI)
Temperature Range	: Water to 82°C (180°F) Max.
Pressure Adjustment Range	: 20-200 psi (150 Class) — 100-300 psi (300 Class)



PRESSURE RELIEF VALVES

Materials

Main Valve Body & Cover

Standard Main Valve Trim

Standard Pilot Control System

: Ductile Iron ASTM A-536 — Naval Bronze ASTM B61

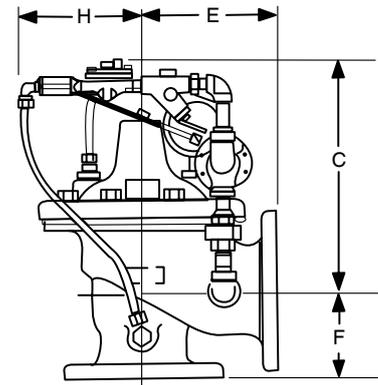
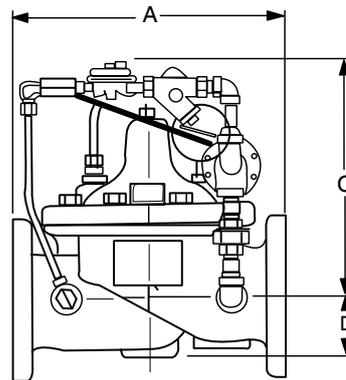
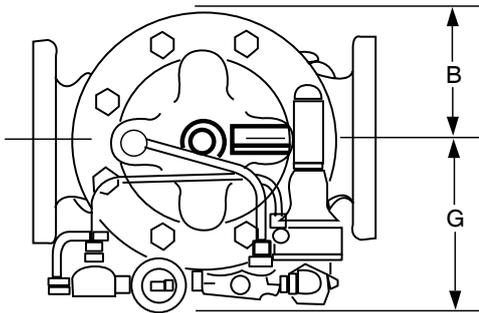
: Bronze Seat, Teflon Coated — Stainless Steel Stem, Dura-Kleen Stem

: Cast Bronze with Stainless Steel trim

Dimensions

Model 50B-4KG1 Globe

Model 2050B-4KG1 Angle



Size (inch)	2"	2 1/2"	3"	4"	6"	8"	10"
Threaded Ends	9,38	11,00	12,50	-	-	-	-
A 150 Flanged	9,38	11,00	12,00	15,00	20,00	25,38	29,75
300 Flanged	10,00	11,62	13,25	15,62	21,00	26,38	31,12
300 X 150	-	-	12,88	15,31	20,56	25,88	30,44
B	3,31	4,00	4,56	5,75	7,88	10,00	11,81
C	12,00	12,25	12,50	13,00	14,31	16,31	18,00
D	1,50	1,69	2,66	3,19	4,31	5,31	9,25
Threaded Ends	4,75	5,50	6,25	-	-	-	-
E 150 Flanged	4,75	5,50	6,00	7,50	10,00	12,75	14,88
300 Flanged	5,00	5,88	6,38	7,88	10,50	13,25	15,56
Threaded Ends	3,25	4,00	4,50	-	-	-	-
F 150 Flanged	3,25	4,00	4,00	5,00	6,00	8,00	8,62
300 Flanged	3,50	4,31	4,38	5,31	6,50	8,50	9,31
G & H	6,00	6,69	7,75	7,88	8,50	9,75	13,25

Size (mm)	50	65	80	100	150	200	250
Threaded Ends	238	279	318	-	-	-	-
A 150 Flanged	238	279	305	381	508	645	756
300 Flanged	254	295	337	397	533	670	790
300 X 150	-	-	327	389	522	657	773
B	84	102	116	146	200	254	300
C	305	311	318	330	363	414	457
D	38	43	68	81	109	135	235
Threaded Ends	121	140	159	-	-	-	-
E 150 Flanged	121	140	152	191	254	324	378
300 Flanged	127	149	162	200	267	337	395
Threaded Ends	83	102	114	-	-	-	-
F 150 Flanged	83	102	102	127	152	203	219
300 Flanged	89	109	111	135	165	216	236
G & H	152	170	197	200	216	248	337

Threaded Pressure Relief Valve / Model 55L



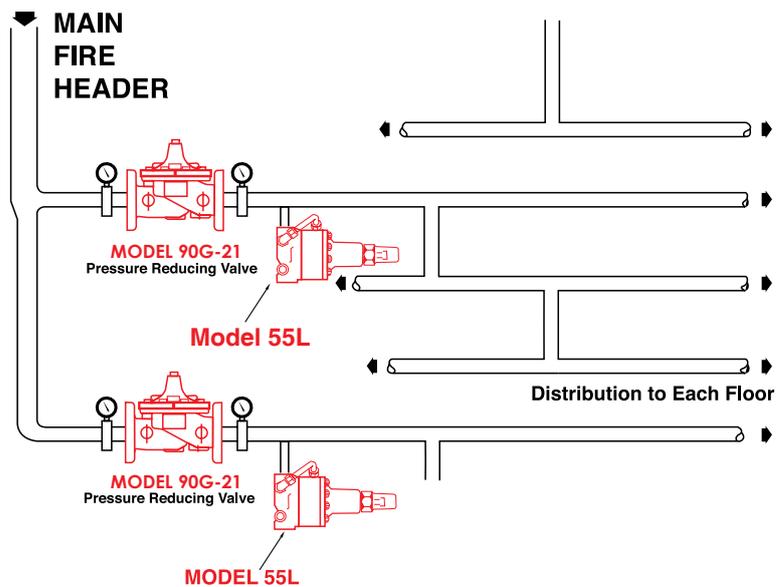
Features

- Direct Acting - Precise Pressure Control
- Positive Dependable Opening
- Drip Tight Closure
- No Packing Glands or Stuffing Boxes
- Sensitive to Small Pressure Variations

The Model 55L (UL Listed FM approved) Pressure Relief Valve is a direct-acting, spring loaded, diaphragm type relief valve. The valve may be installed in any position and will open and close within very close pressure limits. The Model 55L is normally held closed by the force of the compression spring above the diaphragm. When the controlling pressure applied under the diaphragm exceeds the spring setting, the disc is lifted off its seat, permitting flow through the control. When control pressure drops below the spring setting, the spring forces the control back to its normally closed position. The controlling pressure is applied to the chamber beneath the diaphragm through an external tube on the 55L. Pressure adjustment is simply a matter of turning the adjusting screw to vary the spring load on the diaphragm. The 55L is available in three pressure ranges; 0 to 75 psi, 20 to 175 psi, 100 to 300 psi. To prevent tampering, the adjustment cap can be wire sealed by using the lock wire holes provided in the cap and cover.

Typical Application

Fire Protection System Service
Using the Model 55L in a fire protection system or other closed type system, prevents pressure build-up whenever line pressure exceeds the setting of the spring. The valve will relieve excess pressure to atmosphere preventing damage to the distribution network.





PRESSURE RELIEF VALVES

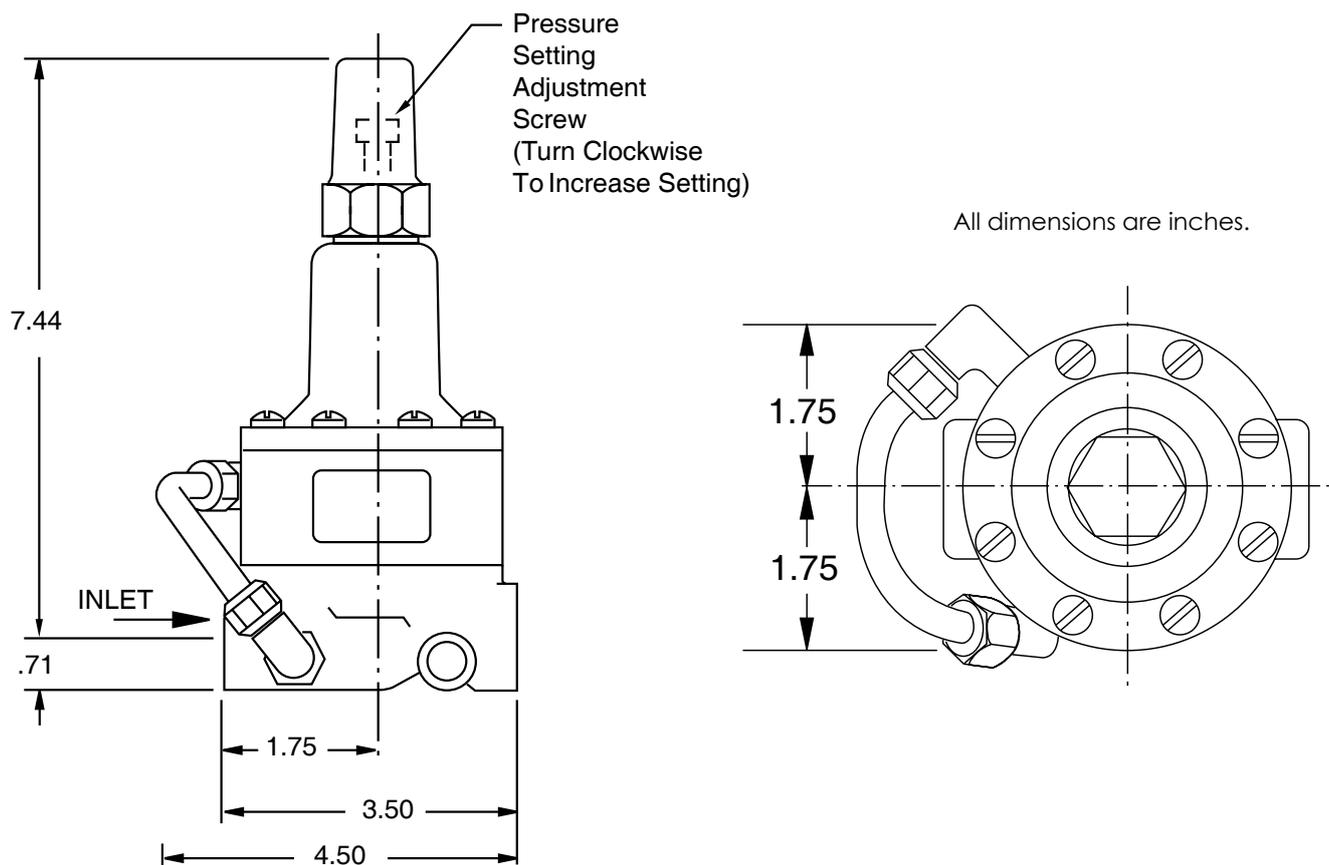
Specifications

Size : 1/2" & 3/4" Threaded
Temperature Range : Water to 82°C (180°F) Max.

Materials

Body & Cover : Cast Bronze ASTM B62 — Stainless Steel ASTM A743-CF-16Fa
Trim : Brass & Stainless Steel 303
Rubber : Buna-N® Synthetic Rubber
Pressure Ratings : Cast Bronze 400 psi Max.
Adjustment Ranges : 0 to 75 psi — 20 to 200 psi — 100 to 300 psi

Dimensions



TEST AND DRAIN VALVES

Test And Drain Valve / Model ATDV

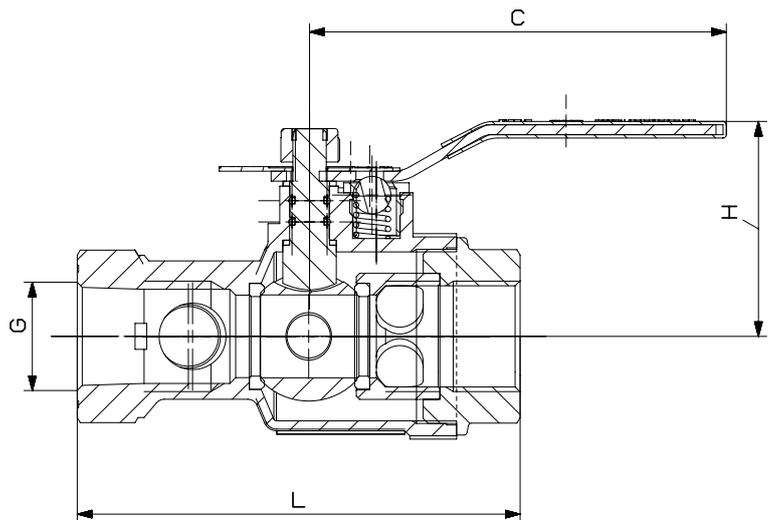
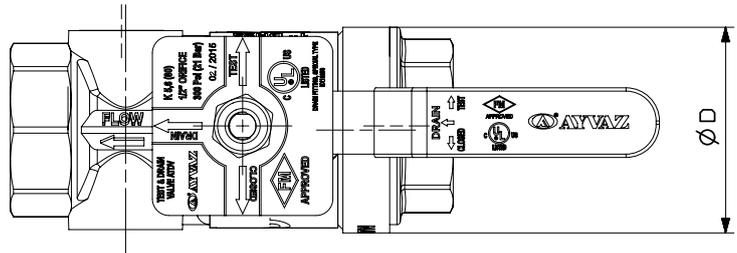


Features

- Used to test & drain water flow through sprinkler systems
- OFF-TEST-DRAIN position
- Integral sight glass
- Complies with the requirements of NFPA-13, NFPA-13R, and NFPA-13D

Dimensions

SIZE	1"	1 1/4"	1 1/2"	2"
APPROVALS & LISTING	FM, UL, ULC			
RATED PRESSURE	300PSI (20.6 BAR)			
ORIFICE	1/2"			
K-FACTOR	5,6			
L (mm)	133		173	
C (mm)	126		156	
H (mm)	65		84	
D (mm)	60		92	
WEIGHTS (KG.)	1.40	1.30	3.50	3.00



Materials

PART	MATERIAL
Handle	Steel Vinyl Coated
Stem	Stainless Steel
Ball	Brass
Body	Brass
Indicator Plate	Stainless Steel
Ball Seat	PTFE
Stem Seal	PTFE
O-Ring Seal	EPDM



TEST AND DRAIN VALVES

Test And Drain Valve / Model STDV



Features

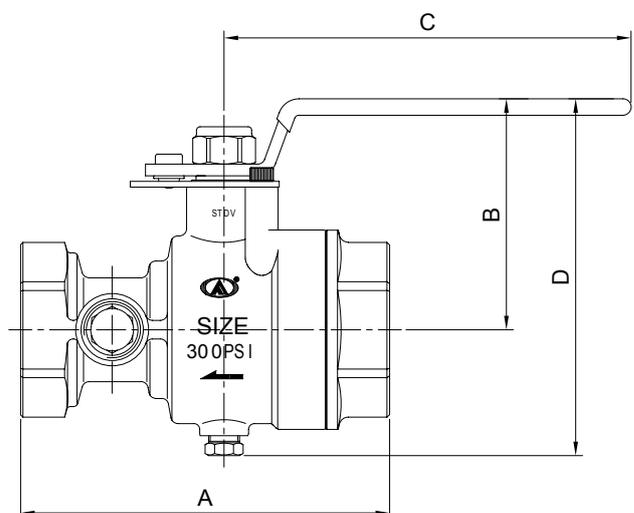
- Used to test & drain water flow through sprinkler systems
- OFF-TEST-DRAIN position
- Integral sight glass
- Complies with the requirements of NFPA-13, NFPA-13R, and NFPA-13D

Dimensions

Size (inch)	1"		1 1/4"		1 1/2"				2"			
Connection	Threaded (F x F)											
Approvals & Listings	FM, UL, ULC											
Rated Pressure	300PSI											
Orifice Size	7/16"	1/2"	7/16"	1/2"	7/16"	1/2"	3/4"	19/64"	7/16"	1/2"	3/4"	19/64"
K-Factor	4,2	5,6	4,2	5,6	4,2	5,6	14	25,2	4,2	5,6	14	25,2
A (mm)	128,2				157,2							
B (mm)	68,5				99,1							
C (mm)	130,5				174							
D (mm)	112				154							
Weights (kg)	1,3				2,7				2,78			

Materials

PART	MATERIAL
Body	Brass
Ball	Brass
Ball Seat	TFM
Indicator Plate	Stainless Steel
Handle	Steel Vinyl Coated
Stem	Stainless Steel
Stem Seal	PTFE
O-Ring Seal	EPDM



TEST AND DRAIN VALVES

Test And Drain Valve / Model GTDV



Features

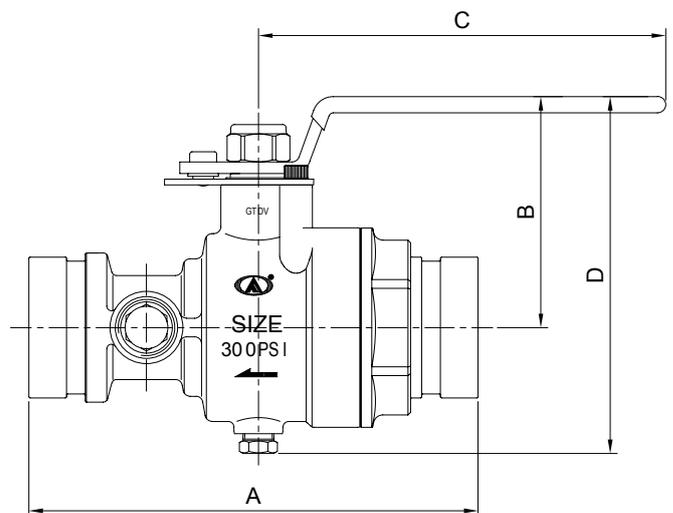
- Used to test & drain water flow through sprinkler systems
- OFF-TEST-DRAIN position
- Integral sight glass
- Complies with the requirements of NFPA-13, NFPA-13R, and NFPA-13D

Dimensions

Size (inch)	1 1/4"		1 1/2"				2"			
Connection	Grooved									
Approvals & Listings	FM, UL, ULC									
Rated Pressure	300PSI									
Orifice Size	7/16"	1/2"	7/16"	1/2"	3/4"	19/64"	7/16"	1/2"	3/4"	19/64"
K-Factor	4,2	5,6	4,2	5,6	14	25,2	4,2	5,6	14	25,2
A (mm)	161,6		190,9							
B (mm)	68,5		99,1							
C (mm)	130,5		174							
D (mm)	112		154							
Weights (kg)	1,4		2,8				3			

Materials

PART	MATERIAL
Body	Brass
Ball	Brass
Ball Seat	TFM
Indicator Plate	Stainless Steel
Handle	Steel Vinyl Coated
Stem	Stainless Steel
Stem Seal	PTFE
O-Ring Seal	EPDM



FIRE HOSE VALVES

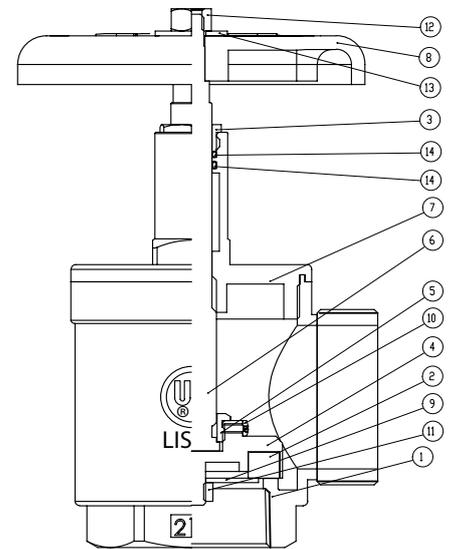
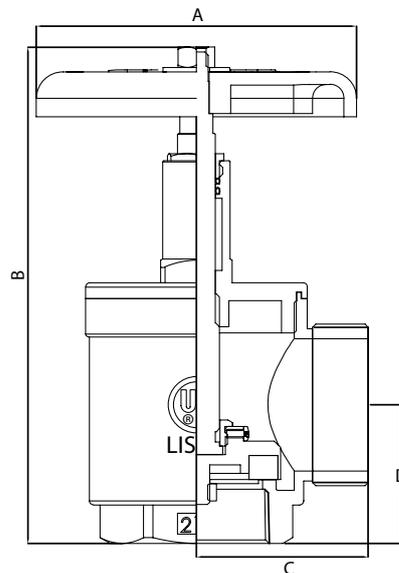
Angle Hose Valve / Model AHV – 100 & 200



- Sizes available (Nominal)** : DN40/1 1/2", DN65/2 1/2"
Working pressure : 20.6 bar (300 psi)
Finish : Polished Brass and Polished Chrome
Connections : Female threaded NPT inlet and male threaded NST outlet
Specifications : Used with fire hoserack assembly or fire department outlet connection

Materials List

NO	DESCRIPTION	MATERIALS
1	BODY	ASTM B584 C85700
2	SEAT SEAL	NBR
3	GLAND	ASTM B16 C36000
4	HOLDER	ASTM B584 C85700
5	SET SCREW	ASTM B16 C36000
6	BONNET	ASTM B584 C85700
7	STEM	ASTM B16 C36000
8	HAND WHEEL	DUCTILE IRON
9	CLAMPING RING	AISI304 SS
10	SCREW	ASTM B16 C36000
11	CLAMPING NUT	AISI304 SS
12	WHEEL NUT	AISI304 SS
13	WHEEL WASHER	AISI304 SS
14	O-RING	NBR



Dimensions

Model	Size	Connection		Dimension (mm)				Weight (kg)
		Female	Male	A	B	C	D	
AHV-200	2 1/2"	NPT	NST	152	238	82	67	4,7
AHV-100	1 1/2"	NPT	NST	130	175	58	48	4,3

SPRINKLER**Upright / Standart Response – Quick Response****Description**

AZ003 /AZ004 Standard / Quick Response Upright sprinklers are designed for use in light and ordinary hazards. The temperature response is standard response (5 mm glass bulb) and quick response (3mm glass bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The upright sprinklers are to be installed in the upright position.

Sprinkler Operation

During a fire conditions, the thermal-sensitive liquid in the glass bulb expands, causing the bulb to shatter, releasing the button and spring seal assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

Care and Handling

Sprinklers must be handled with due care, they must be stored at ambient temperature for best results. Storage as well as any onward shipment is to be made in original packing only. Sprinklers must be visually inspected carefully before installation. Sprinklers visibly damaged, dropped or exposed to temperature in excess of the maximum ambient temperature permitted, should never be installed. Never install any glass bulb sprinkler if the bulb is cracked or if there is a loss of liquid from the bulb. Sprinkler must be installed after the piping is in place to prevent mechanical damage. Use Teflon Tape or soft thread sealant on male thread of the Sprinkler for the leak tight Sprinkler joint. Use proper wrench and appropriate torque. Excessive tightening torque may distort the Sprinkler inlet and cause leakage. Sprinkler must never be painted, plated or coated after they leave factory.

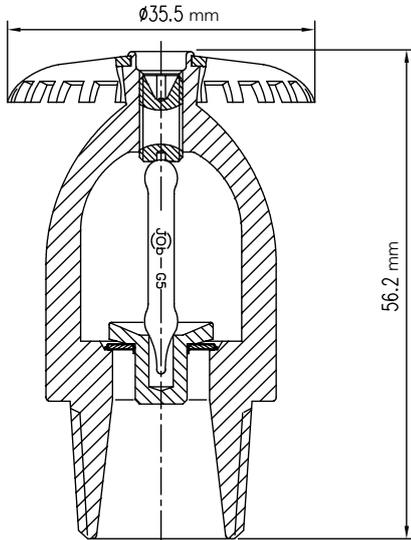
The AYVAZ Sprinkler described herein must be installed and maintained in accordance with the latest edition of AYVAZ technical data, the latest standard of National Fire protection Association (NFPA) and UL Listings standard of any other authorities having jurisdiction. The owner is solely responsible for maintaining their fire protection system and device in proper operating condition.

Inspection Testing and Maintenance

Refer to NFPA 25 for inspection testing and maintenance requirement or to the authority having jurisdiction. For details of warranty, refer AYVAZ's current price list, conditions of sale or contact AYVAZ directly.

SPRINKLER

Dimensions



UPRIGHT		
SPRINKLER IDENTIFICATION NUMBER (SIN)	AZ003	AZ004
COVERAGE	Standart Coverage	
RESPONSE TIME INDEX (RTI)	Standart Response (5mm Glass Bulb)	Quick Response (3mm Glass Bulb)
SIZE	1/2" npt	
K FACTOR	5.6 (80)	
FINISH	Brass, Chrome	
OPERATING TEMPERATURES	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F)	
LISTINGS	UL Listed	
MIN. WORKING PRESSURE	7 PSI (0,5bar)	
MAX. WORKING PRESSURE	175PSI (12bar)	
FACTORY HYDROSTATIC TEST PRESSURE	500 PSI (35 Bar)	

MATERIAL SPECIFICATION	
Frame	Bronze Forging UNS-C87400 or Casting DZR
Deflector	Brass UNS-28000
Glass Bulb	Glass with Glycerin Solution, JOB® G5 or Day-Impex-937 for AZ003/ AZ005
	JOB® F3 Or Day-Impex-941 for AZ004/ AZ006
Set Screw	Brass UNS-28000
Button	Brass UNS-28000
Spring	Stainless Steel
Seal	Teflon® Tape

SPRINKLER**Pendent / Standart Response – Quick Response****Description**

AZ005 / AZ006 Standard / Quick Response Pendent sprinklers are designed for use in light and ordinary hazards. The temperature response is standard response (5 mm glass bulb) and quick response (3mm glass bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The pendent sprinklers must be installed in pendent position. Pendent Recessed Sprinklers are installed with adjustable or non-adjustable Escutcheon plates (also termed as Rosette plates). These are intended to be installed with finished ceilings. Escutcheon plate adjustment provides convenience in Pendent Sprinkler installation in case of areas with finished ceilings or walls.

Sprinkler Operation

During a fire conditions, the thermal-sensitive liquid in the glass bulb expands, causing the bulb to shatter, releasing the button and spring seal assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

Care and Handling

Sprinklers must be handled with due care, they must be stored at ambient temperature for best results. Storage as well as any onward shipment is to be made in original packing only. Sprinklers must be visually inspected carefully before installation. Sprinklers visibly damaged, dropped or exposed to temperature in excess of the maximum ambient temperature permitted, should never be installed. Never install any glass bulb sprinkler if the bulb is cracked or if there is a loss of liquid from the bulb. Sprinkler must be installed after the piping is in place to prevent mechanical damage. Use Teflon Tape or soft thread sealant on male thread of the Sprinkler for the leak tight Sprinkler joint. Use proper wrench and appropriate torque. Excessive tightening torque may distort the Sprinkler inlet and cause leakage. Sprinkler must never be painted, plated or coated after they leave factory.

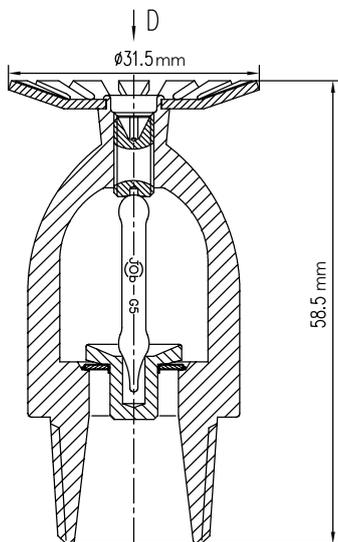
The AYVAZ Sprinkler described herein must be installed and maintained in accordance with the latest edition of AYVAZ technical data, the latest standard of National Fire protection Association (NFPA) and UL Listings standard of any other authorities having jurisdiction. The owner is solely responsible for maintaining their fire protection system and device in proper operating condition.

Inspection Testing and Maintenance

Refer to NFPA 25 for inspection testing and maintenance requirement or to the authority having jurisdiction. For details of warranty, refer AYVAZ's current price list, conditions of sale or contact AYVAZ directly.

SPRINKLER

Dimensions



PENDENT		
SPRINKLER IDENTIFICATION NUMBER (SIN)	AZ005	AZ006
COVERAGE	Standart Coverage	
RESPONSE TIME INDEX (RTI)	Standart Response (5mm Glass Bulb)	Quick Response (3mm Glass Bulb)
SIZE	1/2" npt	
K FACTOR	5.6 (80)	
FINISH	Brass, Chrome, White Polyster	
OPERATING TEMPERATURES	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F)	
LISTINGS	UL Listed	
MIN. WORKING PRESSURE	7 PSI (0,5bar)	
MAX. WORKING PRESSURE	175PSI (12bar)	
FACTORY HYDROSTATIC TEST PRESSURE	500 PSI (35 Bar)	

MATERIAL SPECIFICATION	
Frame	Bronze Forging UNS-C87400 or Casting DZR
Deflector	Brass UNS-28000
Glass Bulb	Glass with Glycerin Solution, JOB® G5 or Day-Impex-937 for AZ003/ AZ005
	JOB® F3 Or Day-Impex-941 for AZ004/ AZ006
Set Screw	Brass UNS-28000
Button	Brass UNS-28000
Spring	Stainless Steel
Seal	Teflon® Tape
Standard Escutcheon (Model A-1)	Cold Rolled Steel

SPRINKLER

Sidewall / Standart Response – Quick Response



Description

AZ001 / AZ002 Standard / Quick Response Pendent sprinklers are designed for use in light and ordinary hazards. The temperature response is standard response (5 mm glass bulb) and quick response (3mm glass bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The pendent sprinklers must be installed in pendent position. Pendent Recessed Sprinklers are installed with adjustable or non-adjustable Escutcheon plates (also termed as Rosette plates). These are intended to be installed with finished ceilings. Escutcheon plate adjustment provides convenience in Pendent Sprinkler installation in case of areas with finished ceilings or walls.

Sprinkler Operation

During a fire conditions, the thermal-sensitive liquid in the glass bulb expands, causing the bulb to shatter, releasing the button and spring seal assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

Care and Handling

Sprinklers must be handled with due care, they must be stored at ambient temperature for best results. Storage as well as any onward shipment is to be made in original packing only. Sprinklers must be visually inspected carefully before installation. Sprinklers visibly damaged, dropped or exposed to temperature in excess of the maximum ambient temperature permitted, should never be installed. Never install any glass bulb sprinkler if the bulb is cracked or if there is a loss of liquid from the bulb. Sprinkler must be installed after the piping is in place to prevent mechanical damage. Use Teflon Tape or soft thread sealant on male thread of the Sprinkler for the leak tight Sprinkler joint. Use proper wrench and appropriate torque. Excessive tightening torque may distort the Sprinkler inlet and cause leakage. Sprinkler must never be painted, plated or coated after they leave factory.

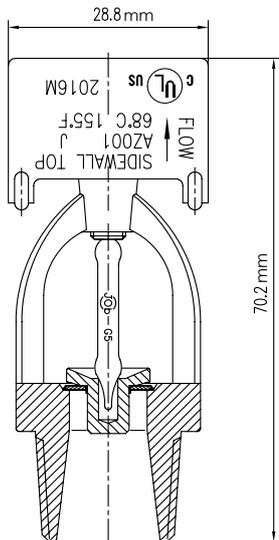
The AYVAZ Sprinkler described herein must be installed and maintained in accordance with the latest edition of AYVAZ technical data, the latest standard of National Fire protection Association (NFPA) and UL Listings standard of any other authorities having jurisdiction. The owner is solely responsible for maintaining their fire protection system and device in proper operating condition.

Inspection Testing and Maintenance

Refer to NFPA 25 for inspection testing and maintenance requirement or to the authority having jurisdiction. For details of warranty, refer AYVAZ's current price list, conditions of sale or contact AYVAZ directly.

SPRINKLER

Dimensions



SIDEWALL		
SPRINKLER IDENTIFICATION NUMBER (SIN)	AZ001	AZ002
COVERAGE	Standart Coverage	
RESPONSE TIME INDEX (RTI)	Standart Response (5mm Glass Bulb)	Quick Response (3mm Glass Bulb)
SIZE	1/2" npt	
K FACTOR	5.6 (80)	
FINISH	Brass, Chrome, White Polyster	
OPERATING TEMPERATURES	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F)	
LISTINGS	UL Listed	
MIN. WORKING PRESSURE	7 PSI (0,5bar)	
MAX. WORKING PRESSURE	175PSI (12bar)	
FACTORY HYDROSTATIC TEST PRESSURE	500 PSI (35 Bar)	

MATERIAL SPECIFICATION	
Frame	Bronze Forging UNS-C87400 or Casting DZR
Deflector	Brass UNS-28000
Glass Bulb	Glass with Glycerin Solution, JOB® G5 or Day-Impex-937 for AZ003/ AZ005
	JOB® F3 Or Day-Impex-941 for AZ004/ AZ006
Set Screw	Brass UNS-28000
Button	Brass UNS-28000
Spring	Stainless Steel
Seal	Teflon® Tape
Standard Escutcheon (Model A-1)	Cold Rolled Steel

Concealed Pendent / Standart Response – Quick Response



Description

AZ007 / AZ008 Standard / Quick Response Pendent Concealed Sprinklers are thermo-sensitive glass bulb sprinklers having decorative flat cover plate designed to conceal the sprinkler for smooth ceiling. The cover plates are available in several decorative finishes to match architectural requirements. The unique design allows installation and testing of the sprinkler prior to installation of the cover plate with cup. Sprinkler housing is threaded to fix cover plate with cup assembly to provide 12.7mm (1/2") vertical adjustment. The cover plate and cup design allows installation of the sprinkler and pressure testing of the fire fighting system prior to installation of a suspended ceiling or final painting of the ceiling. The sprinkler cover assembly can be removed and reinstalled for removal of ceiling panels for access to building service equipments. AYVAZ Pendent Concealed Sprinklers are Standard Response (5mm glass bulb) or Quick response (3mm glass bulb) with standard coverage

Sprinkler Operation

The Sprinkler operating device is state of the art heat responsive frangible glass bulb supplied by a world leader in this innovative technology. The glass bulb contains fluid which expands when exposed to heat. When rated temperature is reached, the bulb shatters and water flows through the sprinkler and strikes deflector, forming an uniform water spray pattern to control or extinguish fire.

Care and Handling

Sprinklers must be handled with due care, they must be stored at ambient temprature for best results. Storage as well as any onward shipment is to be made in original packing only. Sprinklers must be visually inspected carefully before installation. Sprinklers visibly damaged, dropped or exposed to temperature in excess of the maximum ambient temperature permitted should never be installed. Never install any glass bulbs sprinkler if the bulb is cracked or if there is a loss of liquid from the Bulb. Sprinkles must be installed after the piping is in place, to prevent mechanical damage. Do not attempt to make-up for insufficient adjustment in the Escutcheon plate by over tightening the sprinkler. Use Teflon tape or soft thread sealant on male thread of the sprinkler for leak tight sprinkler joint. Use proper wrench. Use appropriate torque. Excessive tightening torque may distort the sprinkler inlet and cause leakage. Sprinklers must never be painted, plated or coated after they leave factory.

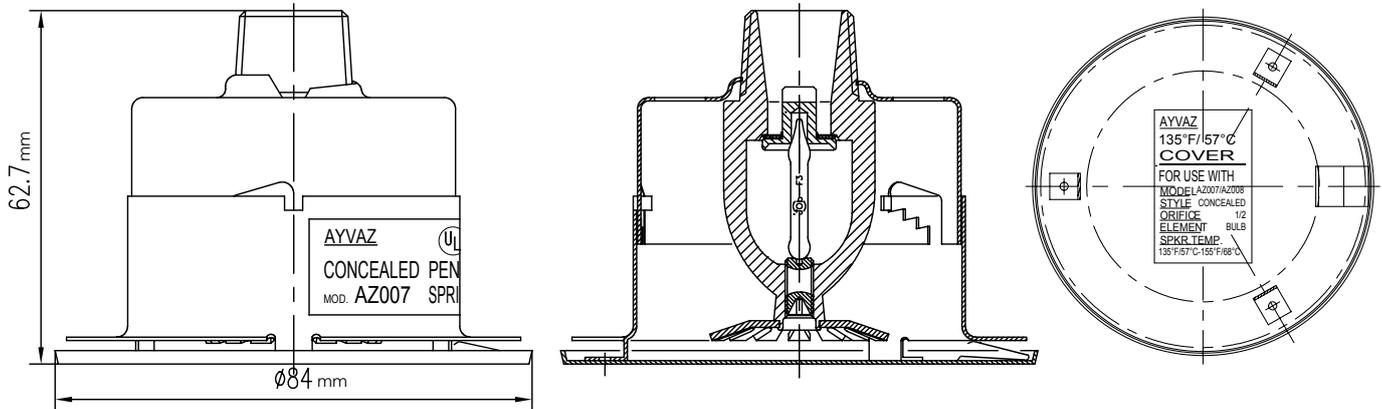
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Inspection Testing and Maintenance

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SPRINKLER

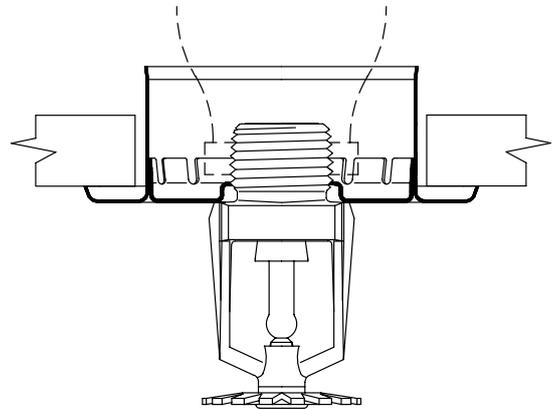
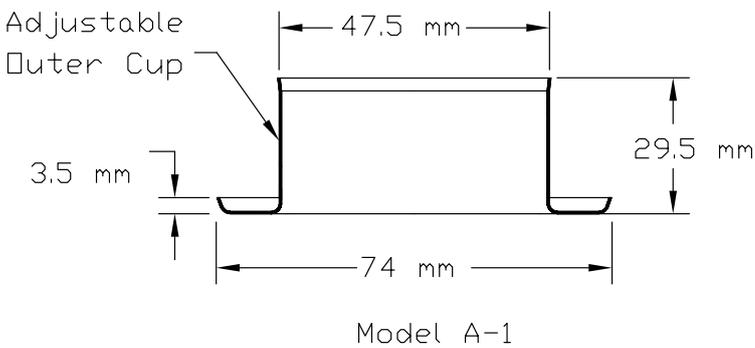
Dimensions



CONCEALED PENDENT		
SPRINKLER IDENTIFICATION NUMBER (SIN)	AZ007	AZ008
COVERAGE	Standard Coverage	
RESPONSE TIME INDEX (RTI)	Standard Response (5mm Glass Bulb)	Quick Response (3mm Glass Bulb)
SIZE	1/2" npt	
K FACTOR	5.6 (80)	
FINISH	Brass, Chrome, White Polyester	
OPERATING TEMPERATURES	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F)	
COVER PLATE TEMPERATURES	57°C (135°F), 68°C (155°F)	
LISTINGS	UL Listed	
MIN. WORKING PRESSURE	7 PSI (0.5bar)	
MAX. WORKING PRESSURE	175PSI (12bar)	
FACTORY HYDROSTATIC TEST PRESSURE	500 PSI (35 Bar)	

MATERIAL SPECIFICATION	
Frame	Bronze Forging UNS-C87400 or Casting DZR
Deflector	Brass UNS-28000
Glass Bulb	Glass with Glycerin Solution, JOB® G5 or Day-Impex-937 for AZ003/ AZ005 JOB® F3 Or Day-Impex-941 for AZ004/ AZ006
Set Screw	Brass UNS-28000
Button	Brass UNS-28000
Spring	Stainless Steel
Seal	Teflon® Tape
Standard Escutcheon (Model D-1)	Cold Rolled Steel

Two Piece Sprinkler Escutcheon / Model A-1



Description

Recessed two piece push fit rosette suitable for most 15mm pendent sprinkler heads. Two piece rosettes must be installed in accordance with the relevant guidelines issued by the Authority Having Jurisdiction. Maximum adjustment depth - 20mm

Material Specification

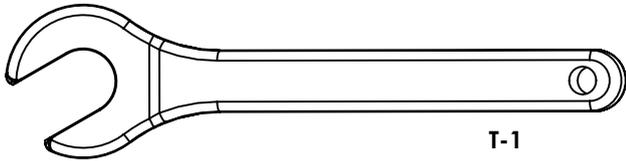
Item Material
Inner Pressed Spring Steel
Outer Pressed Steel
Weight 35g

Standard Finishes

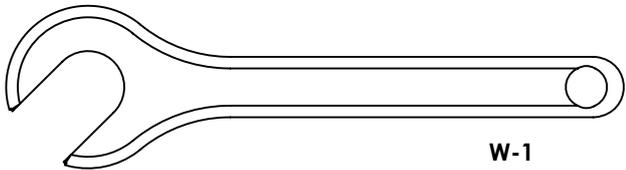
Polished Chrome
White (RAL9010)

SPRINKLER ACCESSORIES

Sprinkler Wrenches / Model T-1 / W-1



T-1



W-1

SPRINKLER MODEL	USE WRENCH
AZ001	T-1
AZ002	
AZ003	
AZ004	
AZ005	
AZ006	
AZ007	W-1
AZ008	

Sprinkler Cabinets / Model C-6 / C-12

NFPA 13 requires a representative number of each type and temperature rating of sprinkler head to be kept in a cabinet on the premises. NFPA 13 also requires a special sprinkler wrench to be provided in the cabinet. This allows for immediate removal and replacement of sprinklers that have operated or that have become damaged. Stock of spare sprinklers should include sprinklers of all the types and temperature ratings as are installed in the sprinkler system, in the following quantities:



NUMBER OF SPRINKLERS IN THE SYSTEM	MINIMUM NUMBER OF SPARE SPRINKLERS REQUIRED
Under 300	6
300-1,000	12
Over 1,000	24

CABINET CAPACITY	CABINET PART NAME
6 sprinklers	C-6
12 sprinklers	C-12

FIRE HOSE CABINETS

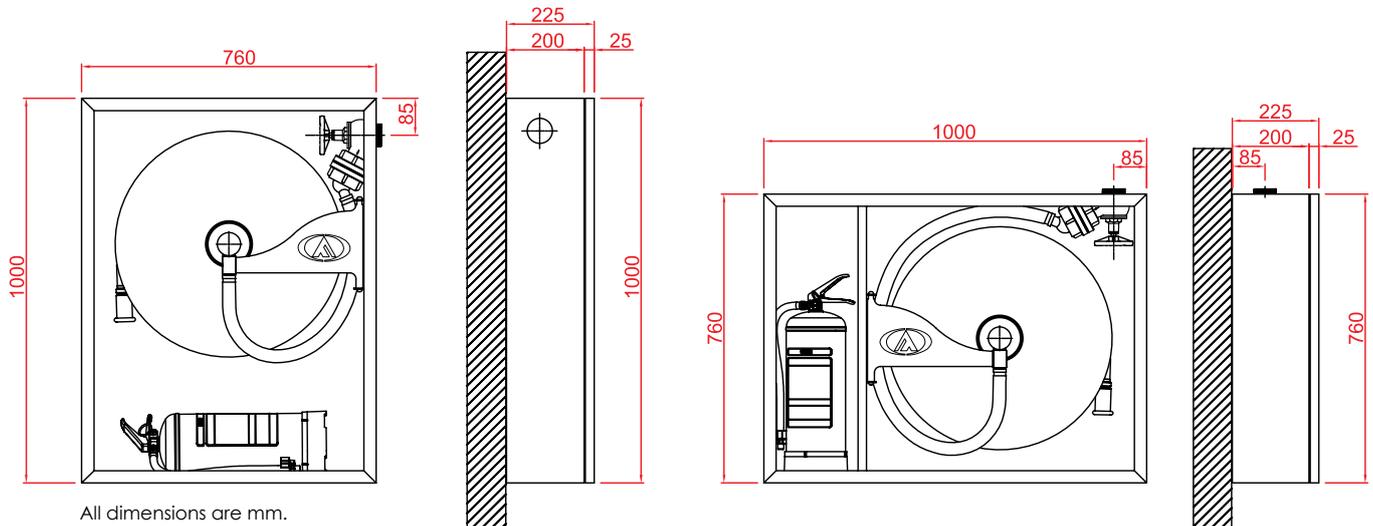
Indoor Fire Hose Cabinets



1" SEMI RIGID FIRE HOSE DOUBLE DOOR CABINET						1" SEMI RIGID FIRE HOSE SINGLE DOOR CABINET					
MODEL	TYPE	VALVE SIZE	HOSE LENGTH (m)	DIMENSION (mm)	DOOR TYPE	MODEL	TYPE	VALVE SIZE	HOSE LENGTH (m)	DIMENSION (mm)	DOOR TYPE
AFC-R1020DDS	RECESSED	1"	20	980x740x200	DOUBLE STEEL	AFC-R1020D0S	RECESSED	1"	20	740x980x200	SINGLE STEEL
AFC-R1025DDS			25			AFC-R1025D0S			25		
AFC-R1030DDS			30			AFC-R1030D0S			30		
AFC-R2020DDS		2"	20			AFC-R2020D0S		20			
AFC-R2025DDS			25			AFC-R2025D0S		25			
AFC-R2030DDS			30			AFC-R2030D0S		30			
AFC-R1020DDG	RECESSED	1"	20	980x740x200	DOUBLE GLASS	AFC-R1020D0G	RECESSED	1"	20	740x980x200	SINGLE GLASS
AFC-R1025DDG			25			AFC-R1025D0G			25		
AFC-R1030DDG			30			AFC-R1030D0G			30		
AFC-R2020DDG		2"	20			AFC-R2020D0G		20			
AFC-R2025DDG			25			AFC-R2025D0G		25			
AFC-R2030DDG			30			AFC-R2030D0G		30			
AFC-S1020DDS	SURFACE	1"	20	1000x740x200	DOUBLE STEEL	AFC-S1020D0S	SURFACE	1"	20	740x1000x200	SINGLE STEEL
AFC-S1025DDS			25			AFC-S1025D0S			25		
AFC-S1030DDS			30			AFC-S1030D0S			30		
AFC-S2020DDS		2"	20			AFC-S2020D0S		20			
AFC-S2025DDS			25			AFC-S2025D0S		25			
AFC-S2030DDS			30			AFC-S2030D0S		30			
AFC-S1020DDG	SURFACE	1"	20	1000x740x200	DOUBLE GLASS	AFC-S1020D0G	SURFACE	1"	20	740x1000x200	SINGLE GLASS
AFC-S1025DDG			25			AFC-S1025D0G			25		
AFC-S1030DDG			30			AFC-S1030D0G			30		
AFC-S2020DDG		2"	20			AFC-S2020D0G		20			
AFC-S2025DDG			25			AFC-S2025D0G		25			
AFC-S2030DDG			30			AFC-S2030D0G		30			

FIRE HOSE CABINETS

Dimensions



Specifications

Inside Equipments

- Reel, delivering water at its center, made of material resist of corrosion, EN 671-1 certified.
- Fire hose, round, semi-hard, EN 694 certified.
- 1" line hose between the valve and the reel center.
- 2" fire valve, brass.
- 2" storz coupling (aluminium), threaded inside.
- 2" x 1" storz type reducer (aluminium).
- Reel arm move the reel 270°.
- Nozzle with jet / spray / off modes, comply with UL&FM and EN 671-1.
- Reel hub made of A1 grade DKP sheet metal.
- Reel arm painted Black-RAL 9005, reel hub electrostatic powder painted Red-RAL 3002.
- Products are packaged after they have been tested %100.

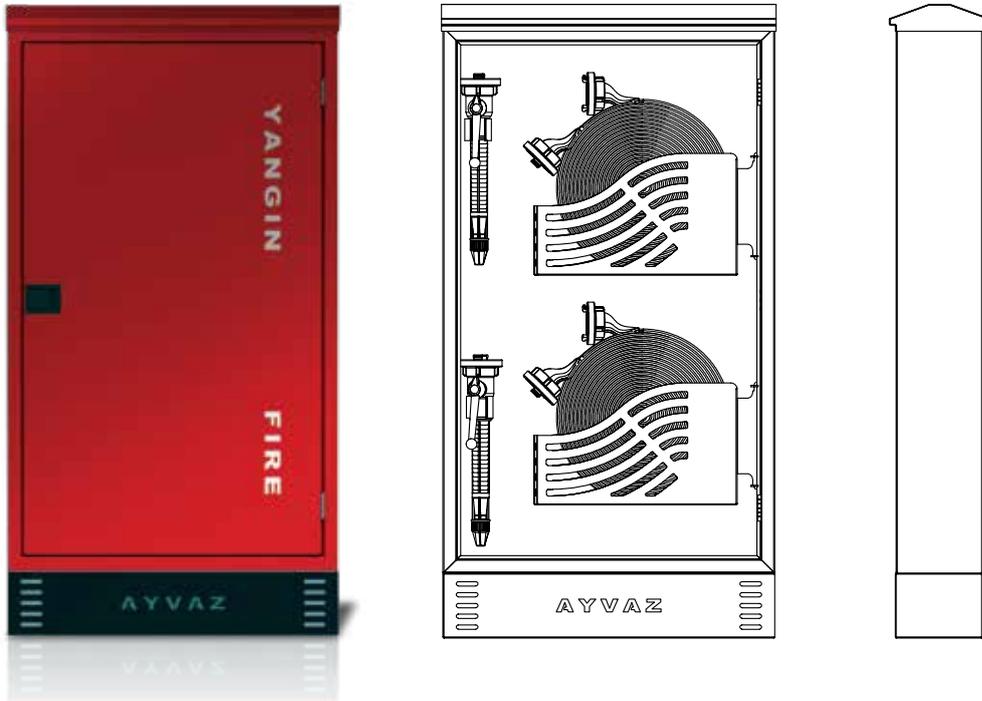
Demountable Door

- Door made of A1 grade DKP sheet metal or glass, demountable.
- Tempered glass for glass door, 4mm and smoke color.
- The recessed type key is used on the door surface which is not creating raise on the door surface.
- Doors are available as an opening to the right or left direction by rotating 180°.
- FIRE and HOSE warning writing on the door surface which have undeletable, untearable and undeform able properties.
- Painted with electro static powder paint which have 70 micron thickness.
- Standard colors are Red-RAL 3002 and White-RAL 9016. Optional colors and designs are available. (in RAL codes)

Cabinet

- Made of A1 grade DKP sheet metal, recessed or surface.
- Valve fittings on side, top and back of the case.
- Housing for one 6kg fire extinguisher positioned horizontal or vertical also our case can single or double door type.
- Cabinet have installation, ventilation and discharge outlets.
- Console to bear the reel, reinforced.
- Cabinet designed for reels used at right and left sides.
- Painted with electro static powder paint which have 70 micron thickness.
- Standard colors are Red-RAL 3002 and White-RAL 9016. Optional colors and designs are available. (in RAL codes)

Outdoor Fire Hydrant Cabinets



PRODUCTS	DIMENSIONS (mm)
2" – 20m Flat Fire Hose, Single Door, Double Basket Fire Hydrant Cabinet	760x1460x230
2" – 30m Flat Fire Hose, Single Door, Double Basket Fire Hydrant Cabinet	760x1460x230
2 ½" – 20m Flat Fire Hose, Single Door, Double Basket Fire Hydrant Cabinet	760x1460x230
2 ½" – 30m Flat Fire Hose, Single Door, Double Basket Fire Hydrant Cabinet	760x1460x230

PRODUCTS	DIMENSIONS (mm)
2" – 20m Flat Fire Hose, Single Door, Single Basket Fire Hydrant Cabinet	760x960x230
2" – 30m Flat Fire Hose, Single Door, Single Basket Fire Hydrant Cabinet	760x960x230
2 ½" – 20m Flat Fire Hose, Single Door, Single Basket Fire Hydrant Cabinet	760x960x230
2 ½" – 30m Flat Fire Hose, Single Door, Single Basket Fire Hydrant Cabinet	760x960x230

FIRE HOSE CABINETS

Specifications

Inside Equipments

- 2" or 2 1/2" diameter, 20m or 30m flat fire hose.
- Single or double flat fire hose basket.
- 2" or 2 1/2" Aluminium Branch pipe nozzle with jet / spray / off modes.
- There are two aluminium coupling on the each edge of hose as mounted with clamp.
- Special design hose reel made of A1 grade DKP one piece sheet metal.
- Special design hose basket is painted with 70 micron thickness electro static powder paint.
- Coupling key and reduction adapter are optional equipments.

Demountable Door

- Door made of A1 grade DKP sheet metal.
- Handle, made of stainless Cr-Ni material, recessed.
- Hinge system, made of stainless Cr-Ni material, hidden.
- Doors are available as an opening to the right or left direction by rotating 180°.
- Standard colors are Red-RAL 3002
- Optional colors and designs are available.

Cabinet

- Cabinet made of A1 grade DKP sheet metal.
- Console to bear the reel, reinforced
- Cabinet have installation, ventilation and discharge outlets.
- Products are painted with 70 micron thickness electro static powder paint.
- Standard colors are Red-RAL 3002
- Optional colors and designs are available.

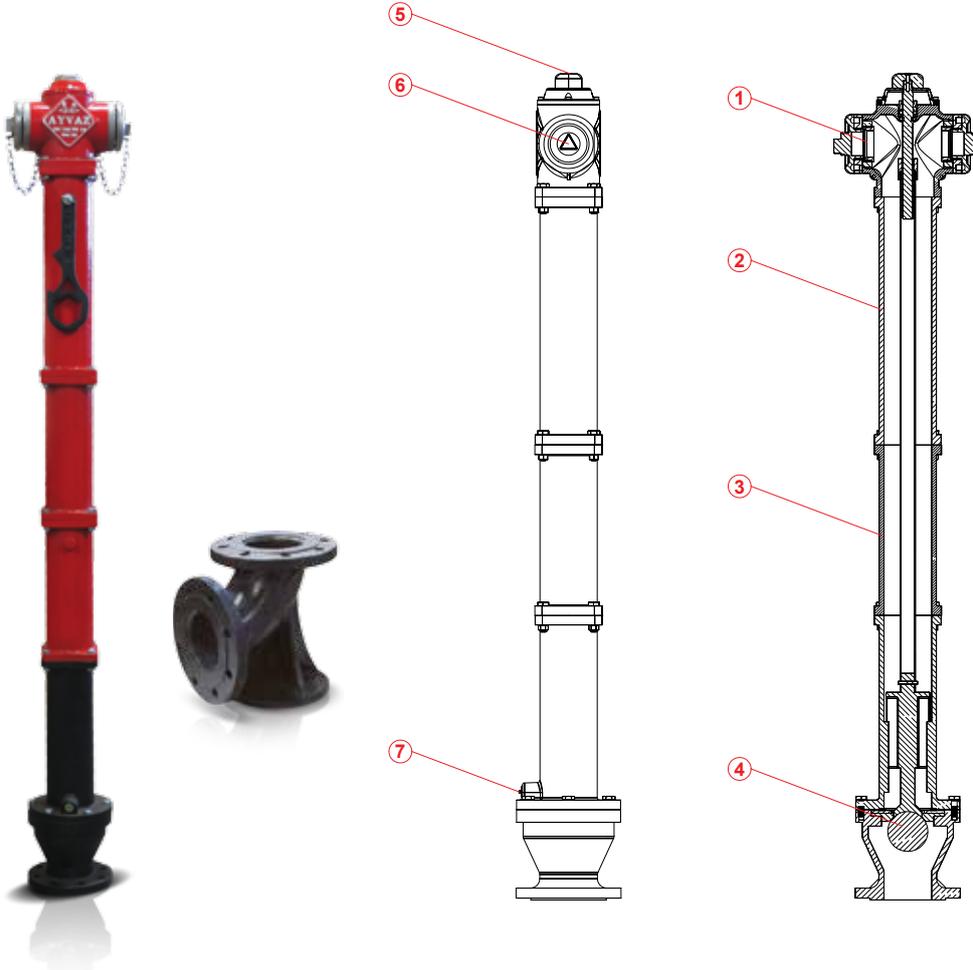
Base

- Base made of A1 grade DKP sheet metal.
- Standard colors are Black-RAL 9005.
- Optional colors and designs are available.
- Installation bolts and nuts are not supplying by us.

Roof

- Base made of A1 grade DKP sheet metal.
- The roof is designed to be curved forward and backward.
- Products are painted with 70 micron thickness electro static powder paint.

Fire Hydrant / Model AFH-1000

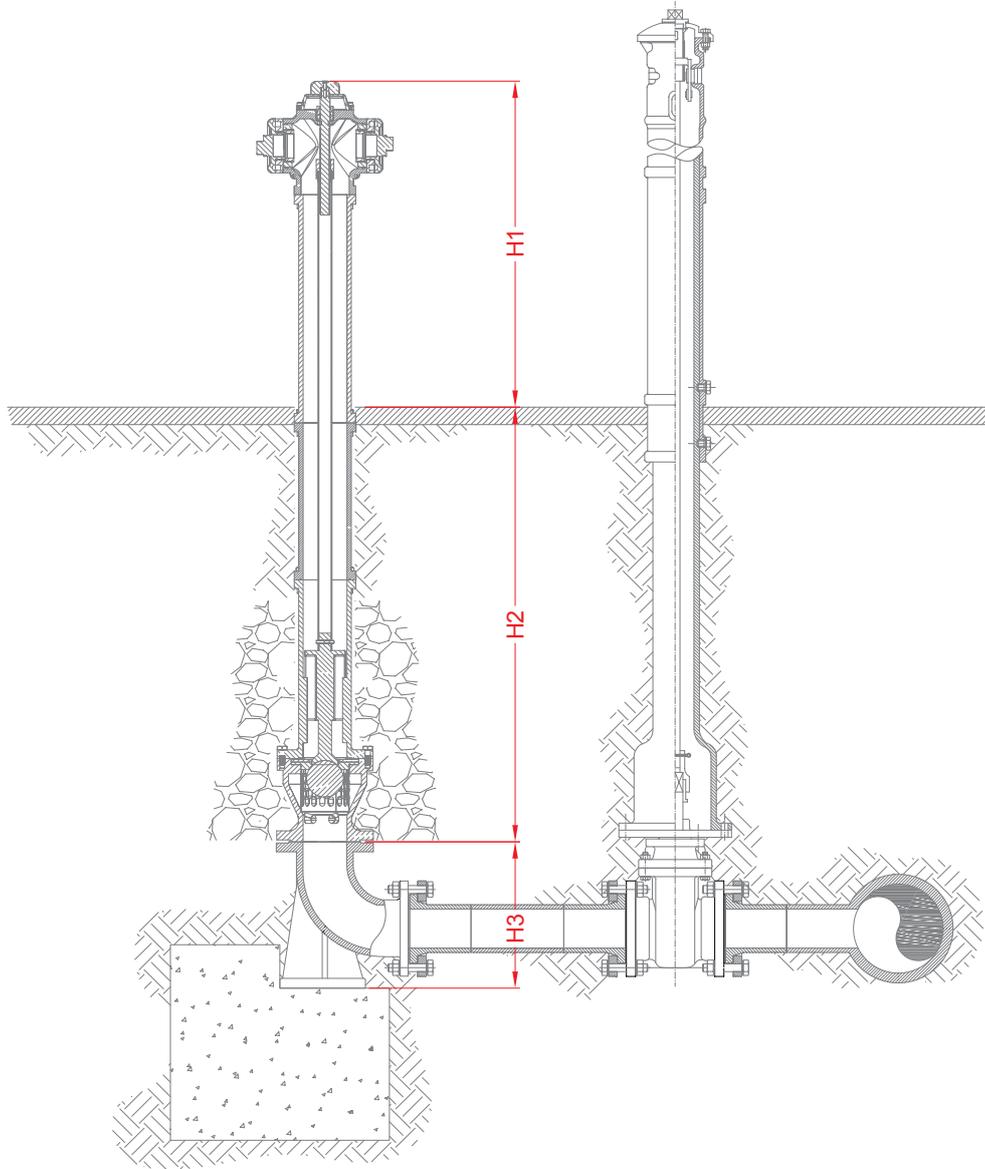


Body	Cast Iron
Stem	Stainless Steel
Stem Gasket	EPDM
Size	DN 100
Working Pressure	PN 16
Elbow	Cast Iron
Design Standart	EN 14384

NO	PART NAME	MATERIAL
1	Couplings	Aluminium
2	Upper Body	Cast Iron
3	Lower Body	Cast Iron
4	Ball	PE
5	Handwheel	Aluminium
6	Chain	Aluminium
7	Drain Valve	Brass

FIRE HYDRANT

Dimensions



DIMENSIONS					
WATER INLET	WATER OUTLET	LENGTH (mm)	H1 (mm)	H2 (mm)	H3 (mm)
DN100	DN65 x DN65	1420	1000	420	270
		1735		735	
		2195		1195	
		2425		1425	

NOTES

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FIRE PROTECTION PRODUCTS



HEAD OFFICE - FACTORY

Atatürk Sanayi Bölgesi Hadımköy Mahallesi Mustafa İnan Caddesi No: 44 Arnavutköy - İSTANBUL
Tel: +90 212 771 01 45 (pbx) | Fax: +90 212 771 25 60

Caserta/Italy

Tel: +39 0823 187 3988
rmolaro@ayvaz.com

Moscow/Russia

Tel: +74959951728
ayvazrus@ayvaz.com

Viernheim/Germany

Tel: +49 62046014399
germany@ayvaz.com

Kiev/Ukraine

Tel: +380 44 390 57 57
info@ayvaz.com.ua

Warsaw/Poland

Tel: +48-32-783-295-1
tricorr@tricorr.eu

Dubai/U.A.E

Tel: +971 563550822
+971 501306871
mideast@ayvaz.com

Xiamen/China

Tel: +86 592-7018050
shanghai@ayvazchina.com
xiamen@ayvazchina.com

Kazakhstan

Tel: +7 (701) 066 066 1
+90 (533) 760 34 66
celyas@ayvaz.com

Isperih/Bulgaria

Tel: +359 8431 27 32
office@ayvaz-n.eu