NEWAGE Plus
Innovative Fire Solutions

NEWAGE SPRINKLERS, FLEXIBLE HOSES & UL/FM VALVES

MAKING YOUR PROPERTY SAFER

NEWAGE
FIRE PROTECTION
INDUSTRIES PVT.LTD.

Protecting Innovatively

NEWAGE
FIRE PROTECTION
INDUSTRIES PVT.LTD.

About **NewAge**

We would like to introduce our **"NEWAGE PLUS"** range of product. rapid urbanization has led to technological advancement and research in several fields, which resulted in the inventions of new materials and processes. In the field of fire protection too, lot of innovations have come through, especially in the design aspects of various fire fighting appliances.

To cope up with these developments, we have incorporated the latest innovations into our products so that they can, not only withstand all the challenges of today but also meet your future requirements.

Vision

TO CREATE A SAFE AND PROGRESSIVE WORLD

A global leader in innovative and reliable life-saving solutions, empowering communities through cutting-edge technology committed to safety.

Approval & Certifications

Explore our accolades and certifications, a testament to our commitment to excellence.

Government of India

Form GST REG-06

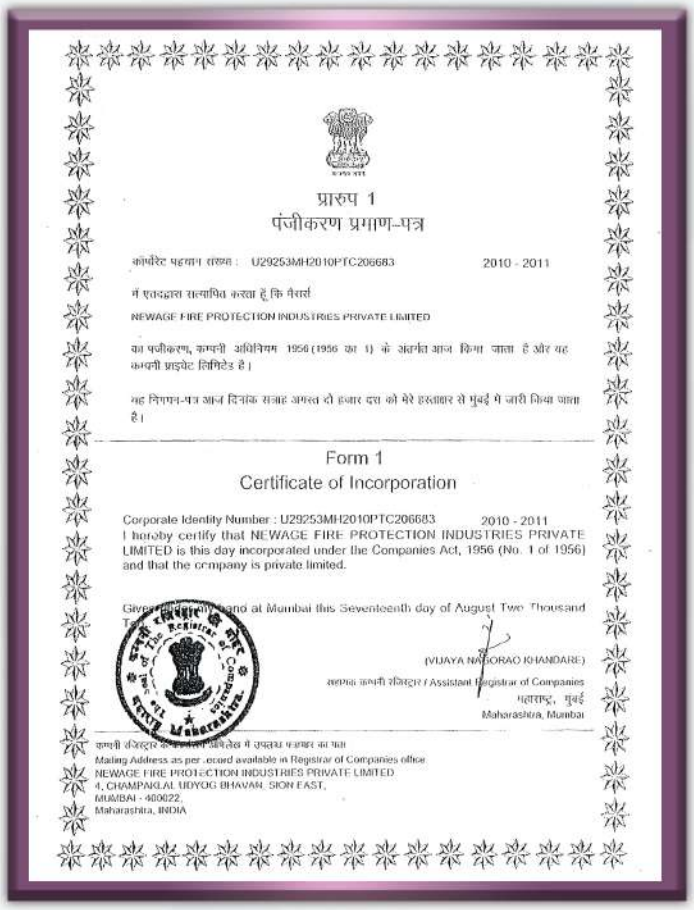
[See Rule 10(1)]

Registration Certificate

Registration Number : 27AADCN3668F1ZC

1.	**Legal Name**	NEWAGE FIRE PROTECTION INDUSTRIES PRIVATE LIMITED			
2.	**Trade Name, if any**	NEWAGE FIRE PROTECTION INDUSTRIES PRIVATE LIMITED			
3.	**Constitution of Business**	Private Limited Company			
4.	**Address of Principal Place of Business**	4, CHAMPAKLAL UDYOG BHAVAN, SION KOLIWADA ROAD, SION EAST, Mumbai City, Maharashtra, 400022			
5.	**Date of Liability**	01/07/2017			
6.	**Period of Validity**	From	01/07/2017	To	NA
7.	**Type of Registration**	Regular			
8.	**Particulars of Approving Authority**				
Signature					
Name					
Designation					
Jurisdictional Office					
9. Date of issue of Certificate		28/07/2018			
Note: The registration certificate is required to be prominently displayed at all places of business in the State.					

This is a system generated digitally signed Registration Certificate issued based on the deemed approval of application on 01/07/2017 .



प्रारुप 1

पंजीकरण प्रमाण-पत्र

कॉर्पोरेट पहचान संख्या : U29253MH2010PTC206683 2010 - 2011

मैं एतद्द्वारा सत्यापित करता हूं कि मैसर्स

NEWAGE FIRE PROTECTION INDUSTRIES PRIVATE LIMITED

का पंजीकरण, कम्पनी अधिनियम 1956 (1956 का 1) के अंतर्गत आज किया जाता है और यह कम्पनी प्राइवेट लिमिटेड है।

यह निगमन-पत्र आज दिनांक सत्रह अगस्त दो हजार दस को मेरे हस्ताक्षर से मुंबई में जारी किया जाता है।

Form 1

Certificate of Incorporation

Corporate Identity Number : U29253MH2010PTC206683 2010 - 2011

I hereby certify that NEWAGE FIRE PROTECTION INDUSTRIES PRIVATE LIMITED is this day incorporated under the Companies Act, 1956 (No. 1 of 1956) and that the company is private limited.

Given under my hand at Mumbai this Seventeenth day of August Two Thousand T

(VIJAYA NARSORAO KHANDARE)

सहायक कम्पनी रजिस्ट्रार / Assistant Registrar of Companies

महाराष्ट्र, मुंबई

Maharashtra, Mumbai

कम्पनी रजिस्ट्रार के कार्यालय में उपलब्ध रजिस्टर का पता

Mailing Address as per record available in Registrar of Companies office

NEWAGE FIRE PROTECTION INDUSTRIES PRIVATE LIMITED

4, CHAMPAKLAL UDYOG BHAVAN, SION EAST,

MUMBAI - 400022,

Maharashtra, INDIA

NewAge Sprinklers, Flexible Hoses & UL / FM Valves

CONTENTS

NewAge Sprinklers Series

Model: NI-8 Series

Description

Pendent and upright and conventional and sidewall sprinklers are designed for use in automatic sprinkler systems designed in accordance with standard installation (NFPA13). The temperature response is standard response 5mm glass bulb and fast response 3mm glass bulb. The sprinklers come with compact design. available in different finishes and temperature ratings.

The sprinklers body is made of brass die-casting copper alloy (DZR). The spring seat consists of a spring Belleville washer coated on both side with a Teflon tape.

Pendent and conventional and sidewall sprinklers are installed with adjustable or non-adjustable escutcheon plates. These are intended to be installed finished ceilings. Escutcheon plate adjustment provides convenience in pendent and conventional sprinkler installation in case of areas with finished ceiling or walls.

Technical Specification

No.	Style	Pendent, Upright, Sidewall, Conventional and Recessed Pendent, Recessed Sidewall, Recessed Conventional
1.	K Factor gpm / (psi) ½ (L^3 / min (bar) ½)	5.6 (80)
2.	Nominal Thread Size	1/2" NPT
3.	Max. Working Pressure	175 PSI (12 BAR)
4.	Factory Test Pressure	500 PSI (35 BAR) for 1 minute
5.	Min. Operating Pressure	7 PSI (0.5 BAR)
6.	Finish	Brass and Chrome Plated.

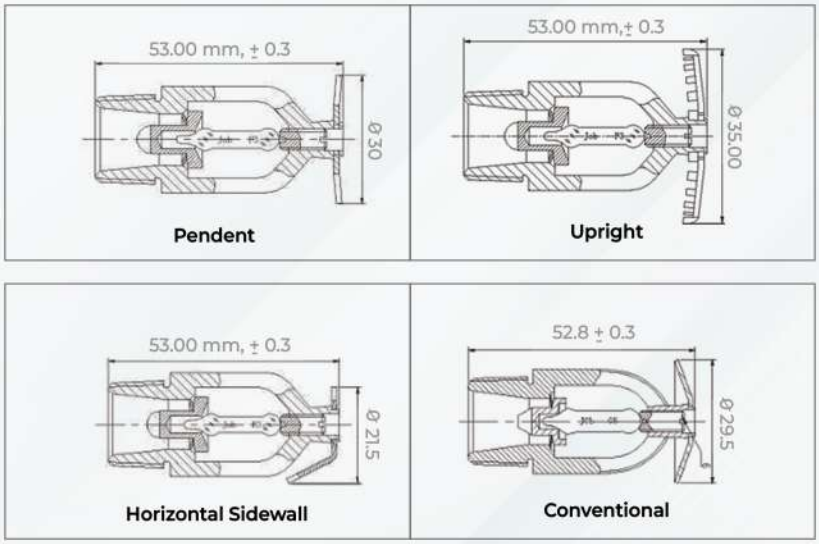
Technical

Sin	Response Type	Sprinkler Style	Temp. Rating F (C)
NI805	SR	Sidewall	135, 155, 175, 200, 286
NI806	QR	Sidewall	135, 155, 175, 200, 286
NI803	SR	Upright	135, 155, 175, 200, 286
NI804	QR	Upright	135, 155, 175, 200, 286
NI801	SR	Pendent	135, 155, 175, 200, 286
NI802	QR	Pendent	135, 155, 175, 200, 286

Material

No.	Name	Description
1.	Deflector	Brass UNS-28000
2.	Bulb	Glass with Glycerin Solution JOB G5 or Day-impex-937 for NI020, NI075, NI070 JOB F3 or Day-impex-941 for NI030, NI085, NI080
3.	Load Screw	Brass UNS-28000
4.	Seal	Brass UNS-28000
5.	Frame	Brass UNS-28000
6.	Seal Washer	Belleville Washer coated on both sides with Teflon Tape
7.	Bulb Nominal Diameter	Standard Response 5.0mm, Quick Response 3.0mm

Each Style Sprinkler



The sprinklers which are manufactured and tested in accordance with the rigid requirements of the Standard UL 199, also should be installed in accordance with the current Standard NFPA13. The system piping must be properly sized to insure the minimum required flow rate at the sprinkler. Check for the proper model, style, orifice size and temperature rating prior to installation, install sprinkler after the piping is in place to avoid mechanical damage, replace any damage units, wet pipe systems must be protected from freezing.

Upon completion of the installation, the system must be tested per recognized standard. In case of a thread leak, remove the unit, apply new pipe joint compound or tape and re-install.

Installation

1. Pendent sprinkler must be mounted in a pendent position, and upright sprinkler must be mounted in upright position, the C U/P sprinkler may be mounted both in upright and pendent position, the horizontal sidewall sprinkler is install at horizontal position, to suit for field condition.
2. Hand tighten the sprinkler into the sprinkler fitting. It is recommended that a torque of 7 ~14 ft-lbs be used to obtain a thread 1/2 inch NPT Sprinkler joint. A radial force of 10 – 20 lbs.
3. For using only a non-hardening pipe joint compound or Teflon tape apply to the male thread only.
4. Hand tighten the sprinkler into fitting, use a 22mm open spanner or 8" (200mm) adjustable wrench on flat to tighten the unit into the fitting, do not use spanner on the frame arms, for it will cause the arms break and glass bulb burst.

Remove Protective

Be sure to remove the plastic protective cover after completed the installation, should not clamp on the frame arms, otherwise will to prevent the heat response function.

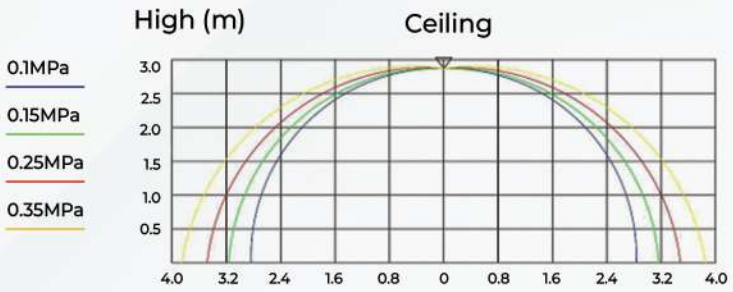
Caution

A maximum of 21 ft-lbs of torque is to be used to install the sprinkler. Higher levels of torque may distort the sprinkler orifice seat saddle with consequent leakage.

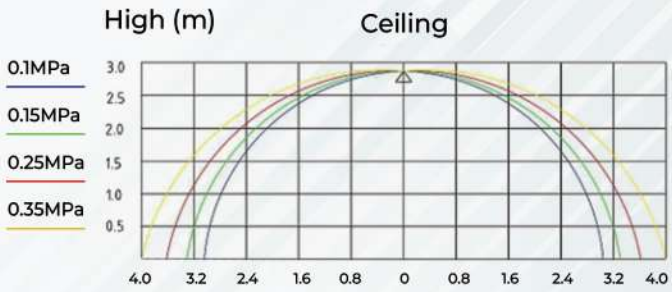
Escutcheon for clean attractive installation

In case of install a decoration of escutcheon for clean attractive purpose, the step as below:

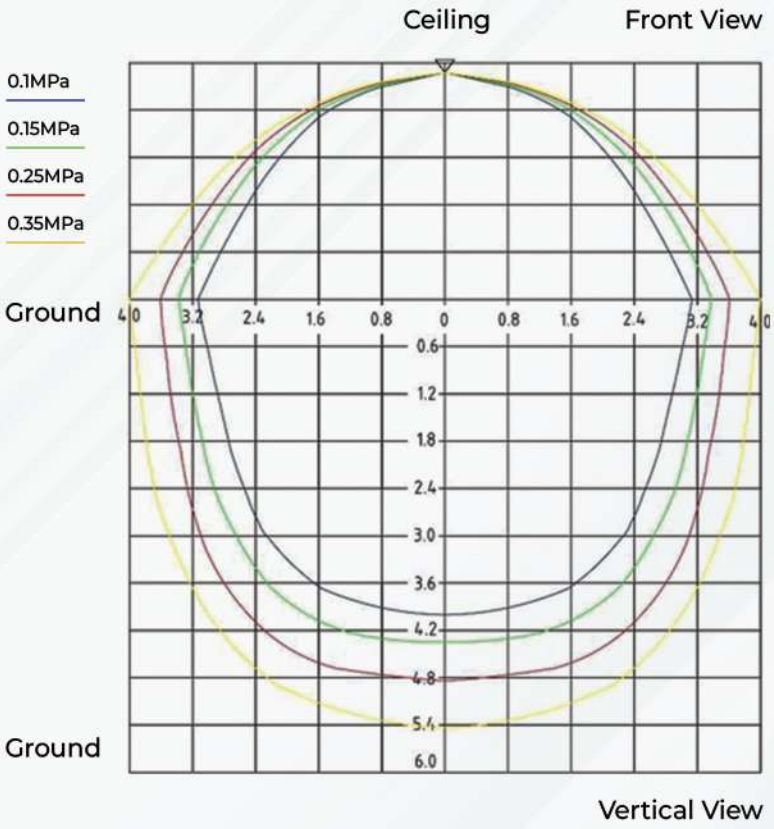
1. Spin the inner piece of escutcheon into sprinkler threads.
2. Use only a non-hardening pipe joint compound or Teflon tape apply to the male thread only.
3. Hand tighten the sprinkler into fitting, use a 22mm open spanner or 8" (200mm) adjustable wrench to tighten the unit into the fitting.
4. Keep the plastic protective cover clamped on sprinkler arms while inner decoration work.
5. Once decoration work completed, take off the plastic protective cover.
6. Insert the outer piece of escutcheon into inner piece, make the escutcheon flush to the ceiling, then the sprinkler is ready for services.



Pendent Sprinkler Distribution



Upright Sprinkler Distribution



Horizontal Sidewall Sprinkler Distribution

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Concealed Sprinklers

Model: NI-8 Series

The "NewAge" Standard and Quick Response Concealed Pendent Sprinklers (NI820 and NI821) are thermo sensitive glass-bulb spray sprinklers with a cover plate. Pre-assembled with a threaded adapter, they allow up to 10mm vertical adjustment with a low-profile cover assembly. The two-piece design permits sprinkler installation and testing before attaching the cover plate.
The "thread-on, thread-off" cover plate allows easy installation post-testing and ceiling finishing, and it can be removed and reinstalled, enabling temporary ceiling panel removal without disturbing the sprinkler system.

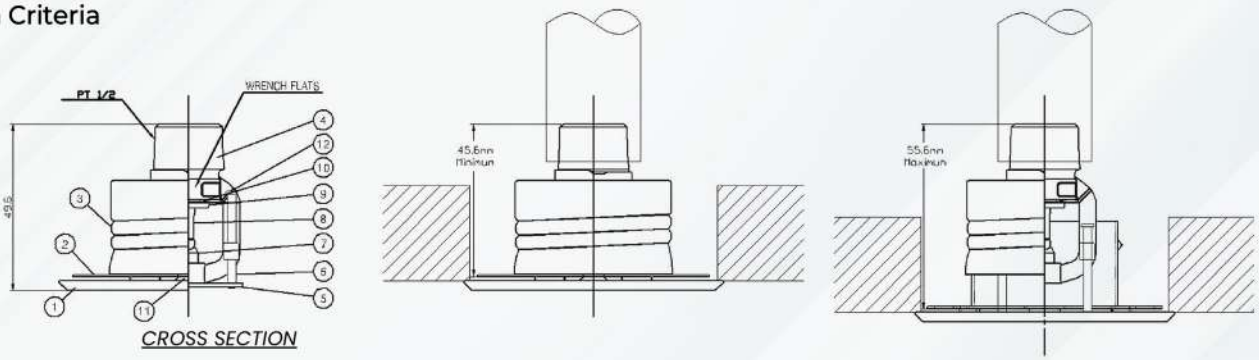
Technical Features

- Minimum Operating Pressure: 7 PSI (0.5 bar).
- Maximum Working Pressure: 175 PSI (12 bar).
- Discharge Coefficient: K = 5.6 GPM / PSI 1/2 (80.7 LPM / bar 1/2).
- Temperature Rating: Sprinkler: 155 / 200°F (68 / 93°C) Cover Assembly: 135 / 165°F(57 / 74°C).
- Leakage Test at Factory (Air): 30 Kgf/CM² (0.3 MPA, 29.4 bar, 426.7 PSI).
- Quick & Standard Response.

Material

- Frame Forging- Brass AS1568 Alloy 486.
- Deflector - Copper C2680S.
- Spring Seat - Ni-Be alloy, Coated on both sides with Teflon Tape.
- Bulb - Glass.
- Bulb Cap - Phosphor Bronze C5191.
- Screw - Brass C3604.

Design Criteria



CROSS SECTION

1-COVER PLATE 2-RETAINER 3-COVER ADAPTER 4-FRAME 5-DEFLECTOR 6-DEFLECTOR PIN
7-SCREW 8-GLASS BULB 9-BULB CAP 10-SPRING SEAT 11-PLATE SPRING 12-SPRING

Details

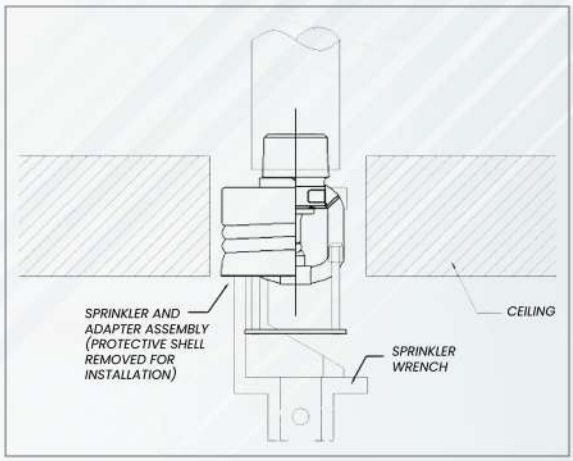
SIN No	Spray Pattern	Response	Thread Size		Nominal K Factor	Vertical Adjustment	Approval
			(N)PT	BSP			
NI 820	Pendent	SR	½"	15mm	K 5.6 (80)	10mm	UL listed
NI 821	Pendent	QR	½"	15mm	K 5.6 (80)	10mm	UL listed

Concealed Sprinklers

Model: NI-8 Series

Installation

The "NewAge" sprinklers are intended for fire protection systems designed in accordance with the standard installation rules of the applicable listings or approval agency. (eg., NFPA 13 or UL 199 Standard).



Operation

During fire conditions, when the temperature around the sprinkler approaches its operating temperature, the cover plate detaches. Continued heating of the exposed sprinkler causes the heat-sensitive liquid in the glass bulb to expand and the bulb to shatter, releasing the bulb cap and sealing spring assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

Inspections, Tests And Maintenance

Automatic Sprinklers must never be shipped or stored where their temperature will exceed 39°C and they must never be painted, plated, coated or otherwise altered after leaving factory. Modified sprinklers must be replaced. Sprinklers that have been exposed to corrosive products of combustion, but have not operated, should be replaced if they cannot be completely cleaned by wiping the sprinkler with a cloth or by brushing it with a soft bristle brush.

Care must be exercised to avoid damage to the sprinklers both before and after installation. Sprinklers damaged by droping, striking, wrench twist / slippage, or the like, must be replaced. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb.

Water Spray Pattern

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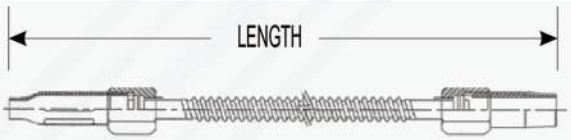
Flexible Sprinkler Hose

Model: NI25UB / NFPU (Unbraided) & NI27SB / NI28SB (Braided)

NI25UB Series (Unbraided)

Model	NI25UB-07	NI25UB-10	NI25UB-12	NI25UB-15	NI25UB-18
Length (L) in mm	700	1000	1200	1500	1800
Max. Pressure	200PSI	200PSI	200PSI	200PSI	200PSI
Inlet Nipple	BSPT 1"				
Outlet (Reducer)	NPT 1/2" / NPT 3/4"				
System	Dry & Wet				

Model	NFPU-700	NFPU - 1000	NFPU - 1200	NFPU- 1500	NFPU - 1800
Length (L) in mm	700	1000	1200	1500	1800
Max. Pressure	175 PSI	175 PSI	175 PSI	175 PSI	175 PSI
Inlet Nipple	BSPT 1"				
Outlet (Reducer)	NPT 1/2" / NPT 3/4"				
System	Dry & Wet				

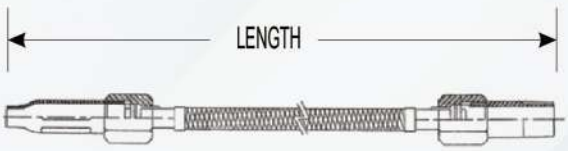


UL LISTED

NI27SB / NI28SB Series (Braided)

Model	NI27SB-700	NI27SB-1000	NI27SB-1200	NI27SB-1500	NI27SB-1800
Length (L) in mm	700	1000	1200	1500	1800
Max. Pressure	200PSI				
Inlet Nipple	BSPT 1"				
Outlet (Reducer)	NPT 1/2" / NPT 3/4"				
System	Dry & Wet				

Model	NI28SB-700	NI28SB-1000	NI28SB-1200	NI28SB-1500	NI28SB-1800
Length (L) in mm	700	1000	1200	1500	1800
Max. Pressure	200PSI / 175PSI				
Inlet Nipple	BSPT 1"				
Outlet (Reducer)	NPT 1/2" / NPT 3/4"				
System	Dry & Wet				



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Flexible Sprinkler Hose

Model: NI25UB / NFPU (Unbraided) & NI27SB / NI28SB (Braided)

Installation Instructions

Do Visual inspection to see if there is any sign of physical damage on the hose.

Check O-Ring and insulation Ring to see if there is any sign of physical damage.

Connect Reducer to Nut by using a wrench. (Nut and reducer connecting torque: 500 kgf / cm).

Apply teflon tape on the inlet nipple thread. Use pipe wrench to connect the inlet nipple to the branch line. (Nipple + main pipe connecting torque : 850~900 kgf / cm).

After inspecting O-Ring and insulation ring for any sign of physical damage, connect flexible sprinkler hose to the outer nipple. (**WARNING:** DO NOT apply teflon tape on the outer thread of the nipple while connecting to the flexible sprinkler hose) (Nut + Nipple connecting torque: 500 kgf / cm).

Install each bracket-S to square bar by using screw driver as shown in picture above. Put a space of 600mm to 1200mm approximately. (Bracket-S bolts connecting torque: 45 kgf / cm).

Connect square bar to the T bar ceiling grid as shown in photo above and tighten the bolts on the Bracket-S to secure the grid. (Bracket-S bolts connecting torque: 45 kgf / cm).

Place the Bracket-L at the middle of the square bar.

Insert the outlet reducer from the flexible sprinkler hose and securely fasten by tightening two bolts on the Bracket-L (Bolts of Bracket-L connecting torque: 65 kgf / cm).

Apply the Teflon tape on the inlet thread of sprinkler head and connect to the outer nipple of reducer.

Check all the parts are securely tightened.

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Butterfly Valve

Model: NIB0-W300A

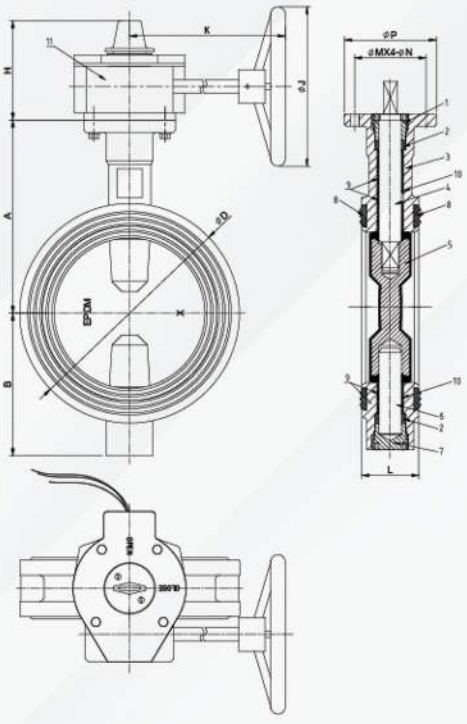
Butterfly Valve c/w Signal Gearbox - Wafer End

Technical Features

- Connection Standard: ANSI125 / 150.
- Sizes: 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12".
- Approvals: UL listed & FM approved.
- Maximum Working Pressure: 300 PSI.
- Maximum Testing Pressure: 600 PSI for 1 minute.
- Pressure conforms to UL1091 & FM 1112.
- Working Temperature Range: 0-80°C / 32-178°F.
- Coating Details: Epoxy coated or coating upon request.
- Ductile iron disc- EPDM Encapsulated.
- Top Flange Standard: ISO 5211.
- Application: Indoor & Outdoor Use, Fire inflow water, drain pipe, high-rising building fire fighting system, industrial factory building fire protection system.

Valve Material List

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



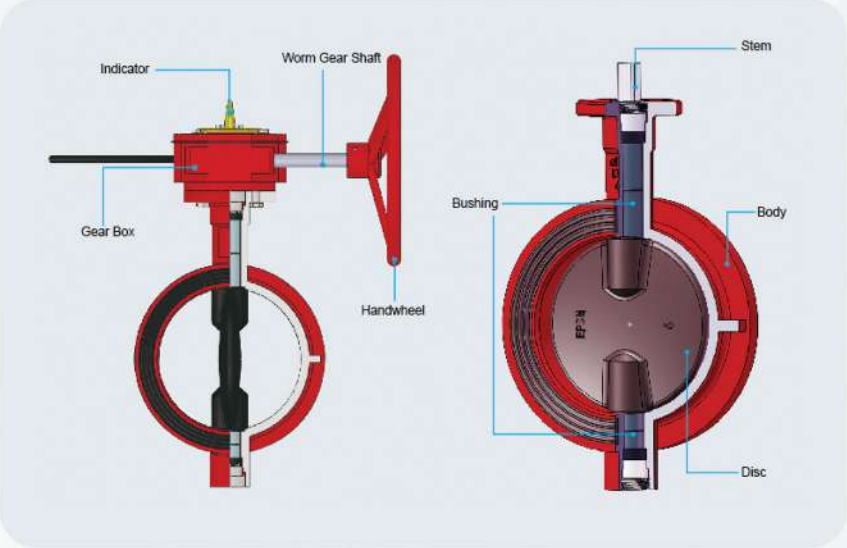
Dimensions

Size	A	B	C	D	H	K			J	P	M	N	d	L
2"	110	85	36	100	111	153	218	127	86	90	70	9	12	42
2½"	125	95	32	112	111	153		218	152	90	70	9	10	44.2
3"	140	100	32	120	111	153		218	152	90	70	9	11	45.3
4"	160	100	32	161	111	153		218	152	90	70	9	14	52
5"	170	125	32	182	111	153		218	152	90	70	9	14	54.4
6"	190	140	32	216	111	153		218	200	90	70	9	16	55.8
8"	230	175	32	260	126	210		232	300	125	102	12	19	60.5
10"	260	200	63	320	161	249			350	125	102	12	30.5	66.5
12"	300	240	77	375	161	249			350	150	125	14	33	76.9

Butterfly Valve

Model: NIB0-W300A

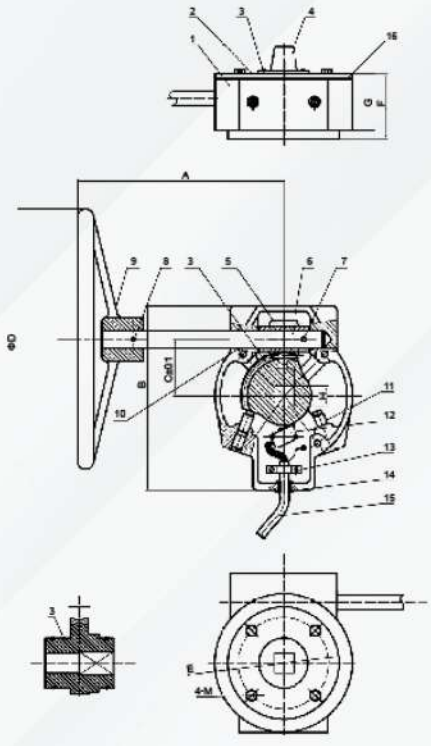
3D Pictures



Gearbox Material List

NO.	Description	Material
1	Gear Body	Ductile Iron
2	Gear Cover	Ductile Iron
3	Worm Wheel	Ductile Iron
4	Indicator	Ductile Iron
5	Worm	Steel
6	Handwheel Shaft	Steel
7	Pin	416 Stainless Steel
8	Pin	416 Stainless Steel
9	Handwheel	Ductile Iron
10	O-Ring	EPDM
11	Set Screw	Steel
12	Signal Switch	Switch Assembly
13	Clip	Nylon
14	Sealing Ring	EPDM
15	Wire	Wire
16	Gasket	EPDM

Gearbox Drawing



Dimensions

Gearbox	Valve	A		B	C	D	E	F	G	H	M
24:1	2"-2½"	153	218	164	45	152	70	65	58	10	M8
24:1	3"	153	218	164	45	152	70	65	58	11	M8
24:1	4"-5"	153	218	164	45	152	70	65	58	14	M8
24:1	6"	153	218	164	45	200	70	65	58	16	M8
30:1	8"	210	232	205	63	300	102	79	67	19	M10
30:1	10"	210	232	205	63	300	102	79	67	22	M10
80:1	12"	249		284	120	350	125	118	110	24	M12

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Butterfly Valve

Model: NIB0-G300A

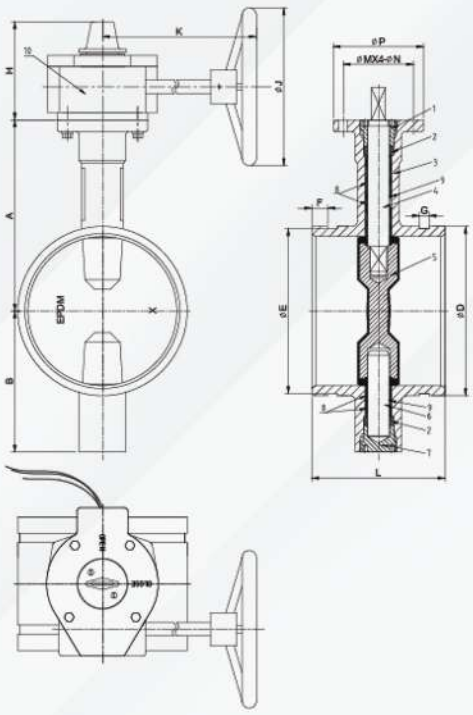
Butterfly Valve c/w Signal Gearbox - Grooved End

Technical Features

- Groove Standard: ANSI/AWWA C606 or Metric Standard.
- Clear Waterway design.
- Sizes: 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12".
- Approvals: UL listed & FM approved.
- Maximum Working Pressure: 300 PSI.
- Maximum Testing Pressure: 600 PSI for 1 minute.
- Pressure conforms to UL1091 & FM 1112.
- Working Temperature Range: 0-80°C / 32~176°F.
- Coating Details: Epoxy coated or coating upon request.
- Ductile iron disc- EPDM Encapsulated.
- Top Flange Standard: ISO 5211.
- Application: Indoor & Outdoor Use, Fire inflow water, drain pipe, high-rising building fire fighting system, industrial factory building fire protection system.

Valve Material List

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



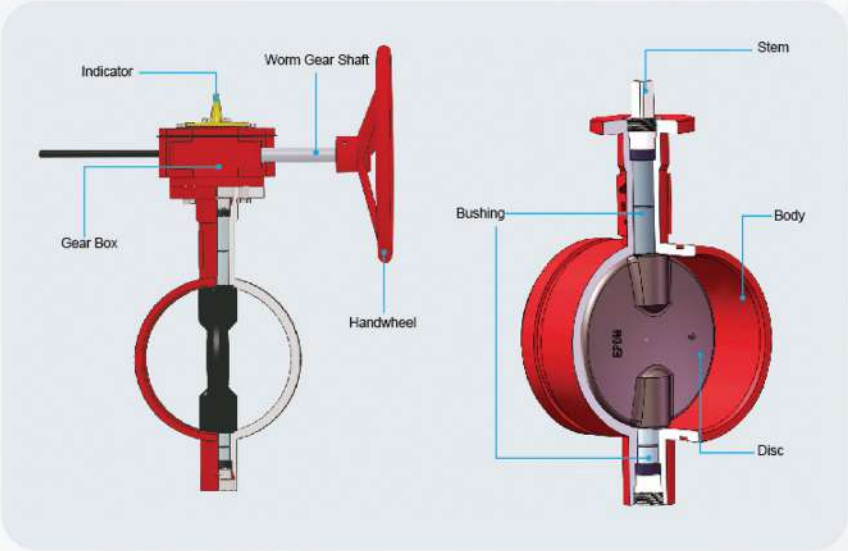
Dimensions

Size	A	B	C	D	E	F	G	H	K			J	P	M	N	d	L
2"	110	85	36	60.3	57.15	15.9	7.9	111	153	218	127	86	90	70	9	10	81 88
2½"	125	95	32	73 76.1	69.1 72.3	15.9	7.9	111	153	218		152	90	70	9	10	96.4
3"	140	100	32	88.9	84.9	15.9	7.9	111	153	218		152	90	70	9	11	97
4"	160	100	32	114.3	110.1	15.9	9.5	111	153	218		152	90	70	9	14	115.1
5"	170	125	32	139.7 141.3	135.5 137	15.9	9.5	111	153	218		152	90	70	9	14	132.4 148
6"	190	140	32	165.1 168.3	160.9 164	15.9	9.5	111	153	218		200	90	70	9	16	132.4 148
8"	230	175	32	219.1 216.3	214.4 211.6	19	11.1	126	210	232		300	125	102	12	19	133 147.4
10"	260	200	63	267.4 273	262.6 268.3	19	12.7	161	249			350	125	102	12	30.5	159
12"	300	240	77	318.5 323.8	312.9 318.3	19	12.7	161	249			350	150	125	14	33	165

Butterfly Valve

Model: NIB0-G300A

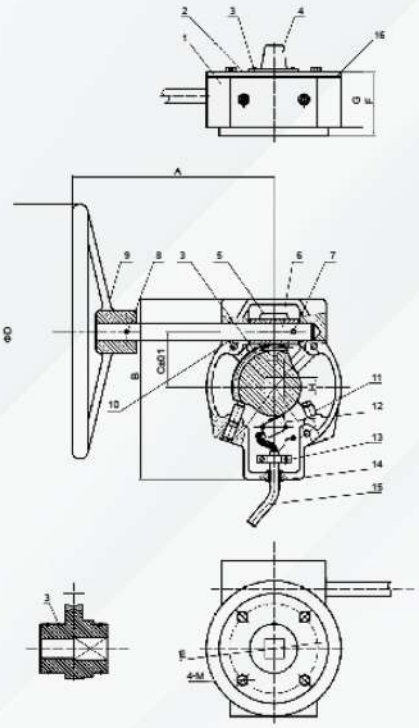
3D Pictures



Gearbox Material List

NO.	Description	Material
1	Gear Body	Ductile Iron
2	Gear Cover	Ductile Iron
3	Worm Wheel	Ductile Iron
4	Indicator	Ductile Iron
5	Worm	Steel
6	Handwheel Shaft	Steel
7	Pin	416 Stainless Steel
8	Pin	416 Stainless Steel
9	Handwheel	Ductile Iron
10	O-Ring	EPDM
11	Set Screw	Steel
12	Signal Switch	Switch Assembly
13	Clip	Nylon
14	Sealing Ring	EPDM
15	Wire	Wire
16	Gasket	EPDM

Gearbox Drawing



Dimensions

Gearbox	Valve	A		B	C	D	E	F	G	H	M
24:1	2"-2½"	153	218	164	45	152	70	65	58	10	M8
24:1	3"	153	218	164	45	152	70	65	58	11	M8
24:1	4"-5"	153	218	164	45	152	70	65	58	14	M8
24:1	6"	153	218	164	45	200	70	65	58	16	M8
30:1	8"	210	232	205	63	300	102	79	67	19	M10
30:1	10"	210	232	205	63	300	102	79	67	22	M10
80:1	12"	249		284	120	350	125	118	110	24	M12

NEWAGE
FIRE PROTECTION
INDUSTRIES PVT.LTD.

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Resilient Wedge Gate Valve

NewAge Fire Protection Industries offers a complete package of resilient wedge gate valve with excellent Ductile Iron structure and stable sealing capability and popular end connection options.

Resilient Wedge Gate Valve Features

- Conforms: ANSI / AWWA C515.
- Approvals: UL listed & FM approved.
- Certified lead-free.
- Maximum Working Temperature: 80°C / 176°F. Coating: Epoxy coated interior and exterior by Electrostatic Spray or Coating upon request.

Application

- Outdoor and Indoor Fire inflow water, water supply and drainage, potable water, high-rising building fire fighting system, industrial factory building fire protection system.
- All OS&Y gate valves have tamper resistant handwheel nuts as well as pre-grooved stems enabling seamless tamper switch installation.
- All NRS gate valves are available with operated nut installed with vertical indicator post and wall type indicator.

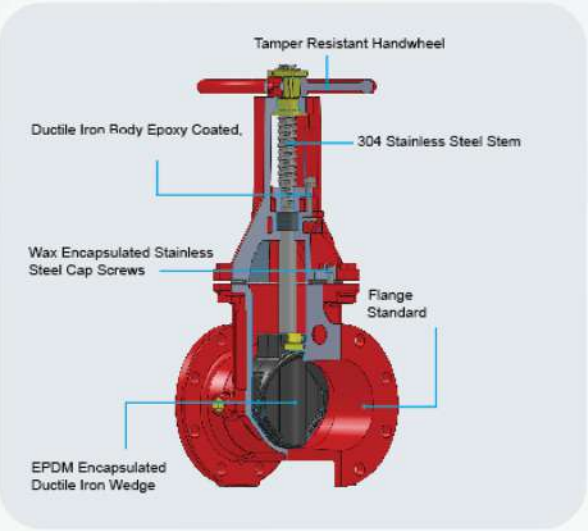
Advantages

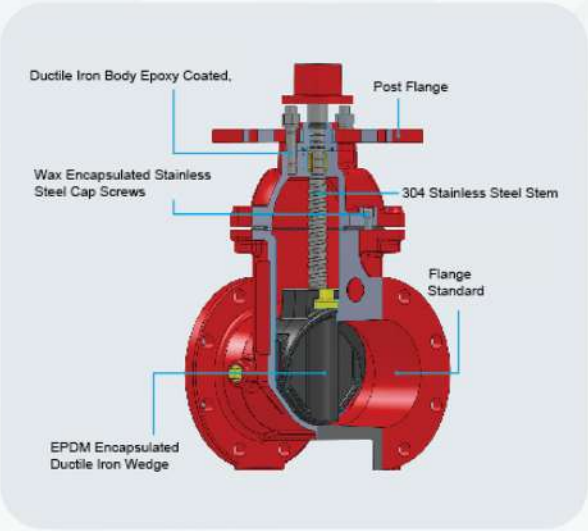
- Valve body, bonnet, disc, gland, & operating nut are all produced with ductile iron material with superior strength-to-weight ratios to guarantee high quality.
- Long service life with resilient seat cycling test at least 5000 times.
- The bottom of gate valve adopt straight-through design, no foreign matter store to make sure smooth flow and reliable sealing.
- Self-sealing design between the bonnet and body make the sealing more tight when pressure is higher within the allowable range.
- Multiple O-ring sealing structure to protect the stem under pressure during operation and maintenance, it causes no damage to the operator.

A full range UL/FM Gate Valves to meet customers' different requirements

- UL / FM OS&Y Gate valve (200PSI & 300PSI)
- Flange x Flange
- Flange x Groove
- Groove x Groove

- UL / FM NRS Gate valve (200PSI & 300PSI)
- Flange x Flange
- Flange x Groove
- Groove x Groove
- MJ x MJ
- MJ x Flange





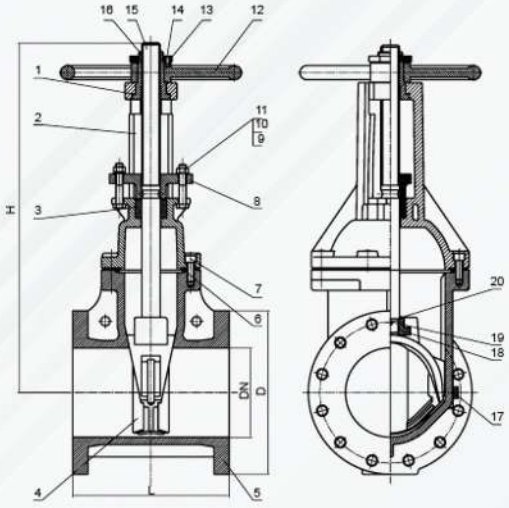
300PSI / 200PSI OS&Y Flanged End Gate Valve

Model: NPOSY-300F

Resilient Wedge OS&Y Gate Valve - Flanged End

Technical Features

- Flange Standard: ASME / ANSI B 16.1 Class 125
  ASME / ANSI B 16.42 Class 150
- Sizes: 2" (FM).
  2.5", 3", 4", 5", 6", 8", 10", 12" (FM, UL).
  14", 16", 18", 20", 24".
- Face to Face Standard: ASME B 16.10.
- Approvals: UL listed & FM approved.
- Maximum Working Pressure: 300PSI.
- Maximum Testing Pressure: 600 PSI.
- Pressure conforms to FM 1120 / 1130, UL 262.
- Working Temperature Range: 0-80°C / 32-176°F.
- Coating Details: Epoxy or Coating upon request.
- NPT plug on body with 2 operating nuts.
- Design Standard: ANSI / AWWA C515.



Dimensions

Size	DN	L	D	H
2½"	65	190	178	370
3"	80	203	191	420
4"	100	229	229	447
5"	125	254	254	547
6"	150	267	279	607
8"	200	292	343	754
10"	250	330	406	890
12"	300	356	483	1031

Valve Material List

NO.	Name	Material	Standard
1	Gasket	C95400	ASTM B148
2	Bonnet	Ductile Iron	ASTM A536 Grade 65-45-12
3	Packing	Graphite	
4	Disc	Ductile Iron +EPDM	ASTM A536 Grade 65-45-12+ASTM D2000
5	Body	Ductile Iron	ASTM A536 Grade 65-45-12
6	Sealing Ring	EPDM	ASTM D2000
7	Bolt	Steel 1045	Bolt / Stainless Steel 304 / ASTM A276
8	Gland	Ductile Iron	ASTM A536 Grade 65-45-12
9	Nut	Steel 1045	Nut / Stainless Steel 304 / ASTM A276
10	Flat Washer	Steel 1045	Flat Washer / Stainless Steel 304 / ASTM A276
11	Bolt	Steel 1045	Bolt / Stainless Steel 304 / ASTM A276
12	Handwheel	Ductile Iron	ASTM A536 Grade 65-45-12
13	Lock Nut	C95400	ASTM B148
14	Locating Screw	Stainless Steel 304	ASTM A276
15	Stem	Stainless Steel 304	ASTM A276
16	Stem Nut	C95400	ASTM B148
17	Plug	C95400	ASTM B148
18	Lifting Nut	CF8	ASTM A351
19	Pin	Stainless Steel 304	ASTM A276
20	Sealing Ring	EPDM	ASTM D2000

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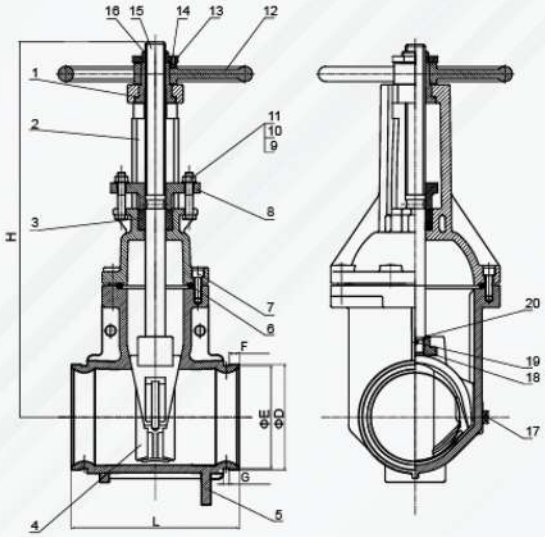
300PSI / 200PSI OS&Y Grooved End Gate Valve

Model: NPOSY-300G

Resilient Wedge OS&Y Gate Valve - Grooved End

Technical Features

- Groove Standard: Metric or ANSI / AWWA C606.
- Face to Face Standard: ASME B16.10.
- Sizes: 2"(FM).
  2.5", 3", 4", 5", 6", 8", 10", 12" (FM, UL).
- Approvals: UL listed & FM approved.
- Maximum Working Pressure: 300 PSI.
- Maximum Testing Pressure: 600 PSI.
- Pressure conforms to FM 1120 / 1130, UL 262, ULC / ORD C262-92.
- Working Temperature Range: 0-80°C / 32-176°F.
- Coating Details: Epoxy or Coating upon request.
- NPT plug on body with 2 operating nuts.
- Design Standard: ANSI / AWWA C515.
- Flange Standard: ASME / ANSI B 16.1 Class 125,
  ASME / ANSI B 16.42 Class 150



Dimensions

Size	DN	L	F	D	E	G	H
2½"	65	190	15.9	73 76.1	69.1 72.3	7.9	370
3"	80	203	15.9	88.9	84.9	7.9	420
4"	100	229	15.9	114.3	110.1	9.5	447
5"	125	254	15.9	139.7 141.3	135.5 137	9.5	547
6"	150	267	15.9	165.1 168.3	160.8 163.9	9.5	607
8"	200	292	19	216.3 219.1	211.6 214.3	11.1	754
10"	250	330	19	273	268.3	12.7	890
12"	300	356	19	323.9	318.3	12.7	1031

Valve Material List

No.	Name	Material	Standard
1	Gasket	Stainless Steel 304 or C95400	ASTM A276 or ASTM B148
2	Bonnet	Ductile Iron	ASTM A536 Grade 65-45-12
3	Packing	Graphite	
4	Disc	Ductile Iron + EPDM	ASTM A536 Grade 65-45-12+ASTM D2000
5	Body	Ductile Iron	ASTM A536 Grade 65-45-12
6	Sealing Ring	EPDM	ASTM D2000
7	Bolt	Stainless Steel 304 or Steel 1045	Bolt / Stainless Steel 304 ASTM A276 or 1045, ASTM A29
8	Gland	Ductile Iron	ASTM A536 Grade 65-45-12
9	Nut	Stainless Steel 304 or Steel 1045	Nut / Stainless Steel 304 / ASTM A276 or 1045, ASTM A29
10	Flat Washer	Stainless Steel 304 or Steel 1045	Flat Washer / Stainless Steel 304 / ASTM A276 or 1045, ASTM A29
11	Bolt	Stainless Steel 304 or Steel 1045	Bolt/Stainless Steel 304 / ASTM A276 or 1045, ASTM A29
12	Handwheel	Ductile Iron	ASTM A536 Grade 65-45-12
13	Lock Nut	C95400	ASTM B148
14	Locating Screw	Stainless Steel 304 or Steel 1045	Stainless Steel 304 / ASTM A276 or 1045, ASTM A29
15	Stem	Stainless Steel 304 or C95400	ASTM B148
16	Stem Nut	C95400	ASTM B148
17	Plug	C95400	ASTM B148
18	Lifting Nut	CF8CF8M or C95400	CF8/CF8M or C95400 / ASTM A351 or ASTM B148
19	Pin	Stainless Steel 304	ASTMA276
20	Sealing Ring	EPDM	ASTM D2000

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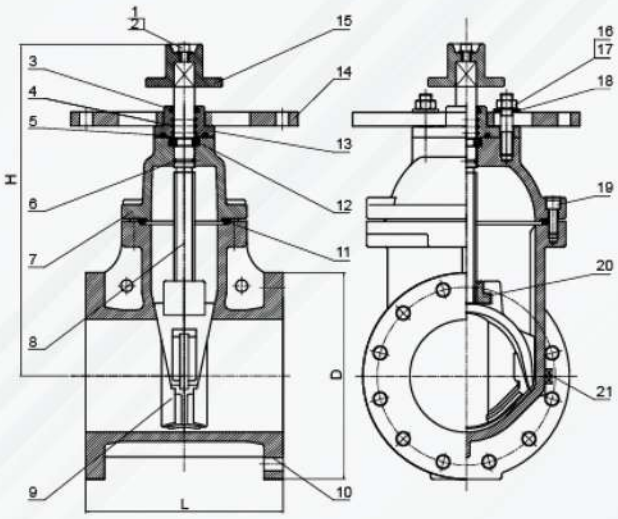
300PSI / 200PSI NRS Flanged End Gate Valve

Model: NPNRS-300F

Resilient Wedge NRS Gate Valve - Flanged End

Technical Features

- Flange Standard: ASME / ANSI B 16.1 Class 125.
  ASME / ANSI B 16.42 Class 150.
- Sizes: 2"(FM)
  2.5", 3", 4", 5", 6", 8", 10", 12" (FM, UL)
  14", 16", 18", 20", 24"
- Face to Face Standard: ASME B 16.10.
- Approvals: UL listed & FM Approved.
- Maximum Working Pressure: 300PSI.
- Maximum Testing Pressure: 600 PSI.
- Pressure conforms to FM 1120 / 1130, UL 262.
- Working Temperature Range: 0-80°C / 32-176°F.
- Coating Details: Epoxy or Coating upon request.
- NPT plug on body with 2 operating nuts.



Dimensions

Size	DN	L	D	H
2½"	65	190	178	292
3"	80	203	191	322
4"	100	229	229	342
5"	125	254	254	412
6"	150	267	279	448
8"	200	292	343	534
10"	250	330	406	635
12"	300	356	483	720

Valve Material List

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

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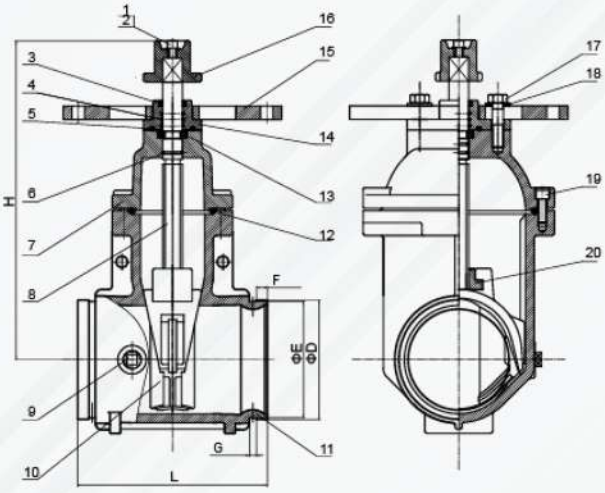
300PSI / 200PSI NRS Grooved End Gate Valve

Model: NPNRS-300G

Resilient Wedge NRS Gate Valve - Grooved End

Technical Features

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



Dimensions

Size	DN	L	F	D	E	G	H
2½"	65	190	15.9	73	69.1	7.9	292
				76.1	72.3		
3"	80	203	15.9	88.9	84.9	7.9	322
4"	100	229	15.9	114.3	110.1	9.5	342
5"	125	254	15.9	139.7	135.5	9.5	412
				141.3	137		
6"	150	267	15.9	165.1	160.8	9.5	448
				168.3	163.9		
8"	200	292	19	216.3	211.6	11.1	534
				219.1	214.3		
10"	250	330	19	273	268.3	12.7	635
12"	300	356	19	323.9	318.3	12.7	720

Valve Material List

NO.	Name	Material
1	Flat Washer	Steel 1045 or Stainless Steel 304
2	Hexagon Socket Screw	Steel 1045 or Stainless Steel 304
3	Sealing Ring	EPDM
4	O-Ring	EPDM
5	Sealing Ring	EPDM
6	O-Ring	EPDM
7	Bonnet	Ductile Iron
8	Stem	Stainless Steel 304 or C95400
9	Plug	Stainless Steel 304 or C95400
10	Disc	Ductile Iron +EPDM
11	Body	Ductile Iron
12	Sealing Ring	EPDM
13	Retaining Ring	C95400
14	Gland	Ductile Iron
15	Post Flange	Ductile Iron
16	Wrench Nut	Ductile Iron
17	Bolt	Stainless Steel 304 or Steel 1045
18	Washer	Stainless Steel 304 or Steel 1045
19	Hexagon Socket Screw	Steel 1045 or Stainless Steel 304
20	Stem Nut	CF8 or C95400

Vertical Type Indicator Post

Model: NP-VPI

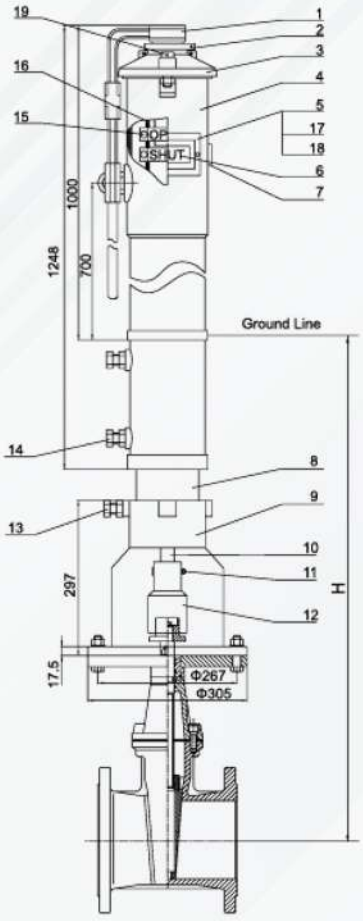
Technical Features

- Approvals: FM approved.
- Design Standard: in accordance with FM 1110.
- Adjustable buried length: 570mm to 1500mm.
- Application: Used to identify the position of buried gate Valves from 4" to 12".

Operation Manual

- Remove the indicator cover.
- Adjust the length of the connecting rod according to buried depth and cut off the excessive part.
- Connect the indicator post and gate valve which is in the closed position.
- Adjust the indicator to the position of "SHUT".
- Tighten the bolts between the flange of the indicator post and post flange of gate valve.
- Install the indicator cover.

3D Picture



Material List

NO.	Name	Material
1	Handle	Ductile Iron
2	Driving Rod	Stainless Steel 304
3	Indicator Cover	Cast Iron
4	Housing	Cast Iron
5	Keyhole Plate	A283 Gr.C
6	Indicator Plate	A413.0
7	Screwed Plug	Steel 1035
8	Extension Rod	A283 Gr.C
9	Flange	Cast Iron
10	Connecting Rod	Steel 1045
11	Cotter Pin	Steel 1035
12	Joint	Cast Iron
13	Bolt	Steel 1035
14	Bolt	Steel 1035
15	Bolt	Steel 1035
16	Driving Nut	Stainless Steel 304
17	Keyhole Plate Gasket	EPDM
18	Indicator Flap	Organic Glass
19	Bolt	Steel 1035

Dimensions

Size	H(mm)(200PSI)		H(mm)(300PSI)	
	MIN.	MAX.	MIN.	MAX.
4"	850	1780	825	1755
5"	880	1810	890	1820
6"	917	1847	935	1865
8"	1022	1952	1025	1955
10"	1115	2045	1108	2038
12"	1204	2134	1208	2138

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INDUSTRIES PVT.LTD.

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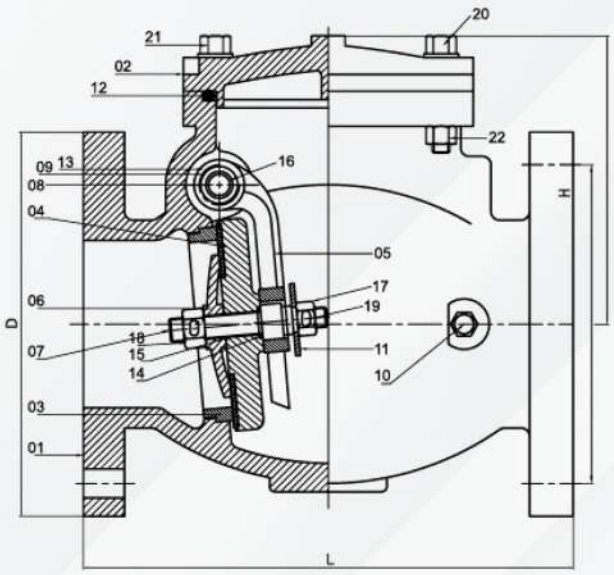
300PSI Flanged Swing Check Valve

Model: NPSCV-300F

Flanged End

Technical Features

- Design Standard: AWWA C508
- Flange Standard: ASME / ANSI B 16.1 Class 125
  ASME / ANSI B 16.42 Class 150
- Sizes: 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12".
- Face to Face Standard: ASME B16.10.
- Approvals: FM approved.
- Maximum Working Pressure: 300PSI.
- Maximum Testing Pressure: 600PSI.
- Pressure conforms to FM class 1210.
- Working Temperature Range: 0-80°C / 32-176°F.
- Coating Details: Epoxy coated or coating upon request .
- Applications:
  Used both vertically and horizontally,
  Used in one-way flow pipeline to prevent the water from back flow.



Valve Material List

NO.	Name	Material
1	Body	Ductile Iron
2	Bonnet	Ductile Iron
3	Seat Ring	C95400
4	Disc	Ductile Iron+EPDM
5	Rocker Arm	Ductile Iron
6	Baffle Plate	C95400
7	Middle Stem	Stainless Steel 304
8	Stem	Stainless Steel 304
9	Bracket Screw	Stainless Steel 304
10	Plug	C95400
11	Gasket	Stainless Steel 304
12	O-ring	EPDM
13	O-ring	EPDM
14	O-ring	EPDM
15	O-ring	EPDM
16	Bronze Bushing	Powder Metallurgy
17	Nut	Stainless Steel 304
18	Nut	Stainless Steel 304
19	Cotter Pin	Stainless Steel 304
20	Bolt	Steel 1045
21	Bolt	Steel 1045
22	Nut	Steel 1045

Dimensions

Size	DN	L	D	H
2"	DN50	203	152	142
2½"	DN65	216	178	148
3"	DN80	241	191	163.5
4"	DN100	292	229	172
5"	DN125	330	254	237
6"	DN150	356	279	233
8"	DN200	495	343	301
10"	DN250	622	406	348
12"	DN300	698	483	419

NEWAGE Plus Innovative Fire Solutions

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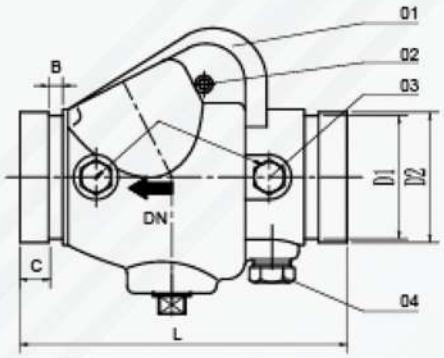
350PSI Grooved Swing Check Valve

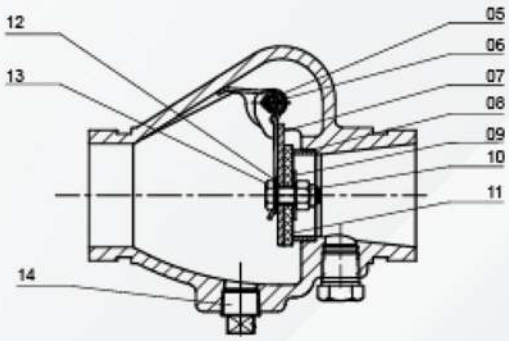
Model: NPSCV-300G

Grooved End

Technical Features

- Groove Standard : ANSI / AWWA C606 or Metric.
- Sizes: 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12".
- Approvals: FM approved.
- Maximum Working Pressure: 350PSI.
- Maximum Testing Pressure: 700PSI.
- Pressure conforms to FM class 1210.
- Working Temperature Range: 0~80°C / 32~176°F.
- Coating Details: Epoxy coated or coating upon request.
- Applications: Used in one-way flow pipeline to prevent the water from back flow.





Dimensions

Size	L	D1	D2	B	C
2"	169	57.15	60.3	7.95	15.88
2½"	181	69.09 72.26	73 76.1	7.95	15.88
3"	198	84.94	88.9	7.95	15.88
4"	214	110.08	114.3	9.53	15.88
5"	248	135.48 137.03	139.7 141.3	9.53	15.88
6"	270	160.78 163.96	165.1 168.3	9.53	15.88
8"	325	211.6 214.4	216.3 219.1	11.13	19.05
10"	457	268.3	273	12.7	19.05
12"	535	318.3	323.9	12.7	19.05

Valve Material List

NO.	Name	Material
1	Valve Body	Ductile Iron
2	Bolt	Steel 1045
3	Plug	Steel 1045
4	Plug	Steel 1045
5	Spring	Stainless Steel 304
6	Hinge Pin	Stainless Steel 304/Ductile Iron
7	Clapper	Stainless Steel 304
8	Seat	C95400
9	Clamping Ring	Stainless Steel 304
10	Locknut	Stainless Steel 304
11	Facing Seal	EPDM
12	Gasket	EPDM
13	Bolt	Stainless Steel 304
14	Plug	Steel 1045

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INDUSTRIES PVT.LTD.

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Dry Barrel Fire Hydrant

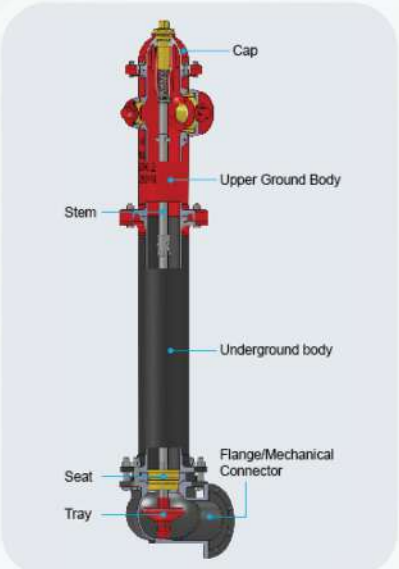
Model: NP-1510 / NP-1510A

Technical Features

- Nominal Pressure: 250PSI.
- Design Standard: AWWA C502.
- Inlet flange size: 6" (DN150), Main Valve size: 133.4 mm / 5 - 1/4".
- One pumper nozzle: 4.5-4NH thread. Two hose nozzles, 2.5-7.5 NH threads Other kinds of threads are available.
- Mechnical connector: AWWA / ANSI C153 / A21.536 (Model No.: NP-1510A).
- Flange connector. ASME B16.5 CLASS 150 / DIN 2501 PN16 (Model No: NP-1510FA).
- Painting Details: Red Polyurethane paint & Bitumen Black or painting upon request.
- Note: Each hydrant is supplied with a hydrant wrench.
- Approvals: FM 1510 Approved.

Installation

- Hydrants should be handled with care to avoid damage. It is recommended to keep hydrants closed until use.
- If the hydrant is not to be used straight away then it is recommended to coat threads and other machined parts with anti-rust oil and the hydrant should be stored in a dry and ventilated area. For long-term storage, the hydrant should be checked regularly.
- Before installation of hydrants, the connection should be free from dirt or other matter.
- The positioning of the hydrant should be in accordance with local requirements. Ideally the pumper should face the street and all connections should be away from any obstruction to connecting hoses.
- The inlet elbow should be placed on a solid surface and if possible brace the side opposite the incoming flow to reduce reaction stresses.
- The underground parts of the hydrant should be surrounded with coarse gravel for support and drainage.
- After the hydrant has been installed and tested, it is recommended to fully flush the hydrant before closing for service. Before replacing the nozzle caps, it is recommended to check for correct drainage of the hydrant on closing of the valve. This can be achieved by placing a hand over the nozzle opening, a suction should be felt.



Operation

- Unscrew the nozzle caps and connect hoses.
- Open the hydrant using the hydrant key (included) to the fully open position by turning the operation nut in an anti-clockwise direction. Do not force the hydrant to open further past the fully open position. Note that the hydrant valve is not intended to control the flow, it should be used in either the fully open or fully closed position. To control flow, a pressure / flow control valve should be fitted to the nozzle outlets on the hydrant.
- To close, turn the operation nut into a clockwise direction again, do not over tighten.

NEWAGE Plus Innovative Fire Solutions

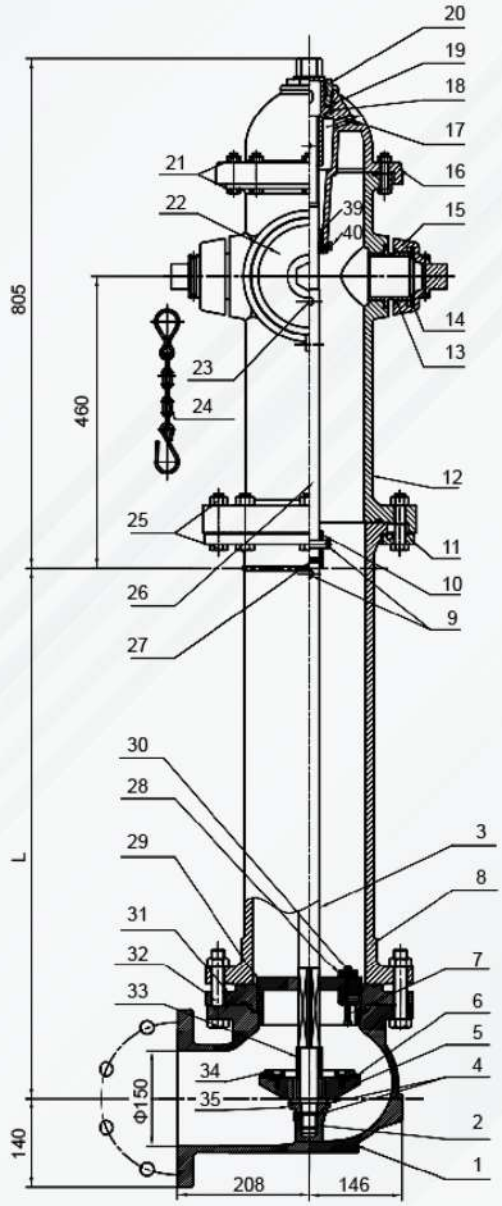
FM APPROVED

Dry Barrel Fire Hydrant

Model: NP-1510 / NP-1510A

Maintenance

- Carry out a visual inspection for signs of significant corrosion which may impair performance.
- Where possible, carry out leakage tests by opening one of the nozzle caps slightly and then open the hydrant valve.
- Once the air has escaped, tighten the hose cap and check for leaks.
- Close hydrant and remove one nozzle cap so that the drainage can be checked.
- Flush the hydrant.
- Clean and lubricate all nozzle threads.
- Clean the exterior of the hydrant and repaint if required if required.



Buried Dimensions

L (mm)	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'
	1063	1215	1368	1520	1673	1825	1978	2130

Material List

NO.	Name	Material
1	Flange Connector Or Mechnical Connector	Ductile Iron
2	Locking Nut	Ductile Iron
3	Connecting Rod	Steel 1045
4	Locking Nut Gasket	EPDM
5	Tray	Ductile Iron
6	Sealed Rubber Sheet	EPDM
7	Drain Hole Spring	316 Stainless Steel
8	Connecting Cylinder	Ductile Iron
9	Perforated Cylindrical Pin	Steel 1045
10	Connecting Rod Sleeve	Steel 1045
11	Clamp For Connection Tube	Ductile Iron
12	Main Body On Ground	Ductile Iron
13	65 Connector	C95400
14	65 Cover Gasket	EPDM
15	65 Cover	Ductile Iron
16	Upper End Cover	Ductile Iron
17	Thread Plug	C95400
18	Screw Stem Nut	C95400
19	Screw Nut Gasket	C95400
20	Screw Nut Seat	C95400
21	Bolt,nut	Steel 1035
22	100 Cover	Ductile Iron
23	Cylindrical Pin	Steel 1045
24	Cover Chain	Gr.B, ASTM A283-B
25	Bolt,nut	Steel 1035
26	Screw Stem	Steel 1045
27	Cushion Rubber	EPDM
28	Drain Hole Cover	C95400+EPDM
29	Seat	C95400
30	Bolt,nut	316 Stainless Steel
31	Seat Fixing Plate	Ductile Iron
32	Bolt,nut	Steel 1035
33	Annular Tubes	Steel 1045
34	Platen	Ductile Iron
35	Locking Nut Seat	Ductile Iron
37	100 Connector	C95400
38	100 Cover Gasket	EPDM
39	Screw Stem Bushing	316 Stainless Steel
40	Bolt	316 Stainless Steel

NEWAGE
FIRE PROTECTION
INDUSTRIES PVT.LTD.

UL LISTED

Wet Alarm Check Valve

Model: NEWAGE-300

Product Features

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

Technical Features

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

Applications in Fire Protection

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

Product Description

NewAge wet alarm check valve consists of wet alarm valve, retard chamber, pressure gauges, water motor alarm, pressure switch, drain valve and filter etc.

Alarm Check Valves act as a water flowalarm initiating device in wet pipe sprinkler systems. When waterflows in the sprinkler system due to the operation of one or more automatic fire sprinklers, the alarm valve opens allowing continuous flow of water into the system, which will activate water motor bell and pressure switches.

The design of the Alarm Check Valve allows for installation under both variable and constant supply pressureconditions. The valve trim incorporates a bypass between the water supply and the wet pipe system. When pressure surges in the waters supply occur, the trim allows a small amount of water to bypass the clapper limiting the potential of false alarms.

Installation

This instrument shall be installed in places where is easy to observe and access. Install The wet alarm valve vertically on the pipes which have been properly tested for its pressure and cleaned. Please note that the arrow for water flow direction is pointing upwards. Reserve enough operation space for repair and maintenance before installation.

Step 1: Clean the system pipe network completely before installation. Ensure that the inner wall of the pipes is coated with rust-proof layer and there is no dreg or dirt in the pipes.

Step 2: In order to facilitate the observation of the pipe in which an alarm occurs, it is recommended to discharge the water from an open port or have the water discharge state easy to be observed before installation.

Step 3: Check whether there is any damage at the joint between the wet alarm valve and the flange, check whether the seal is in good condition and whether the valve disc moves flexibly, carry out the leakage test with a pressure of two times of the rated working pressure. After the test, the valve disc shall be free of leakage; If there is any problem, replace the spare parts or clear the trouble before assembling the parts together.

Wet Alarm Check Valve

Model: NEWAGE-300

Installation

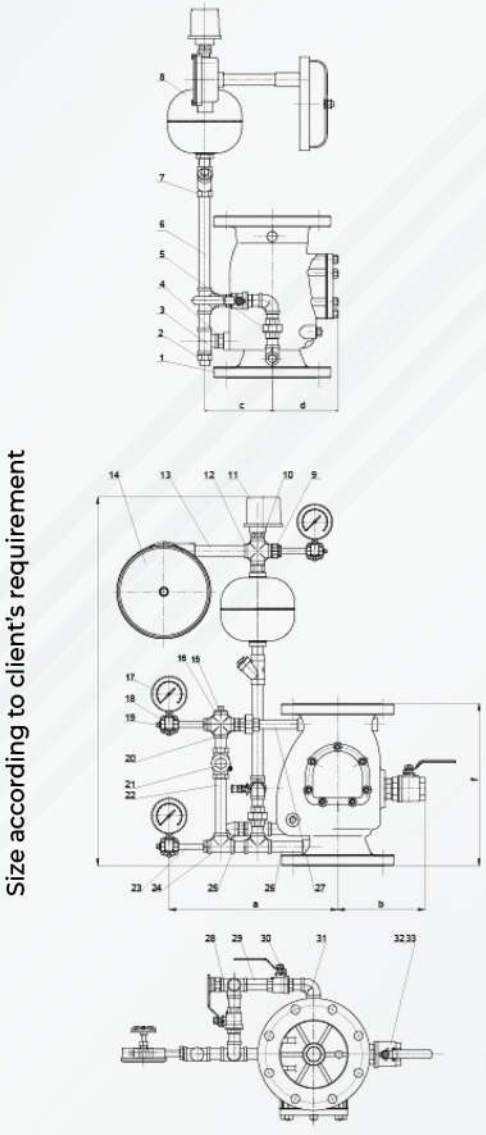
Step 4: Turn the pressure gauge to the position where the reading is clearly visible.

Step 5: The pressure switch shall be installed on the top of the delayer. This pressure switch must be installed vertically and could only be used indoors. After installation, check if it acts reliably.

Step 6: The water motor alarm shall be installed on the top of the delayer, after installation, check if it acts reliably.

Step 7: With the exception of support from the trim piping, the ratard chamber will also be binded by a clamp with the piping to avoid any movement or looseness.

Dimensions



Size according to client's requirement

Assembly drawing without Compensator System

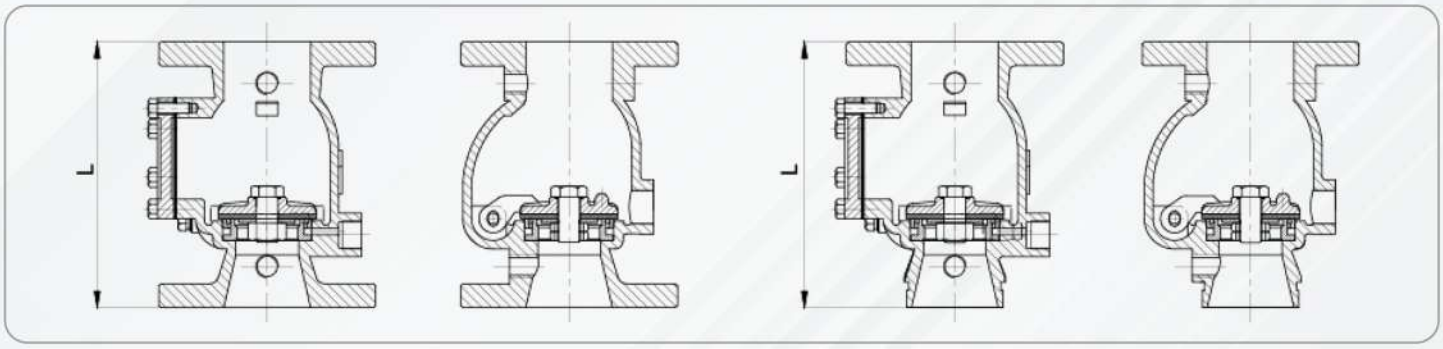
Size	a	b	c	d
2"	340	205	145	110
2.5"	340	205	145	110
3"	340	205	145	110
4"	342	250	160	136
5"	349	274	180	162
6"	349	274	180	162
8"	415	290	205	195
10"	475	340	240	235
12"	495	368	270	270

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

Wet Alarm Check Valve

Model: NEWAGE-300

General Technical Information



Flange Flange

Model No.
NEWAGE - 300FF

Dimension Chart

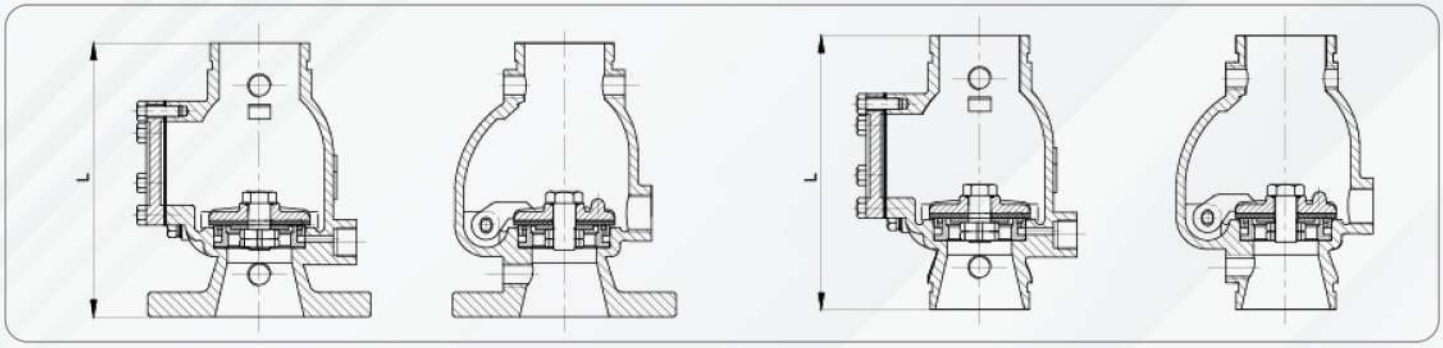
Size	L(mm)	L(inch)
DN50(2in)	233	9.17
DN65(2.5in)	236	9.29
DN80(3in)	245	9.65
DN100(4in)	316	12.44
DN125(5in)	386	15.20
DN150(6in)	390	15.35
DN200(8in)	438	17.24
DN250(10in)	535	21.06
DN300(12in)	622	24.49

Flange Groove

Model No.
NEWAGE - 300FGA

Dimension Chart

Size	L(mm)	L(inch)
DN50(2in)	239	9.41
DN65(2.5in)	240	9.45
DN80(3in)	245	9.65
DN100(4in)	316	12.44
DN125(5in)	386	15.20
DN150(6in)	390	15.35
DN200(8in)	438	17.24
DN250(10in)	535	21.06
DN300(12in)	622	24.49



Groove*Flange

Model No.
NEWAGE - 300FGB

Dimension Chart

Size	L(mm)	L(inch)
DN50(2in)	239	9.41
DN65(2.5in)	240	9.45
DN80(3in)	245	9.65
DN100(4in)	316	12.44
DN125(5in)	386	15.20
DN150(6in)	390	15.35
DN200(8in)	438	17.24
DN250(10in)	535	21.06
DN300(12in)	622	24.49

Groove*Groove

Model No.
NEWAGE - 300GG

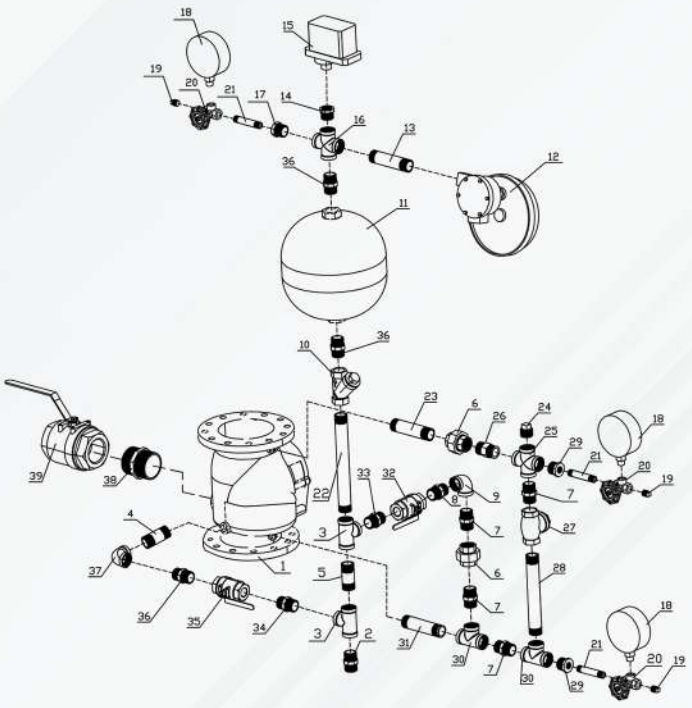
Dimension Chart

Size	L(mm)	L(inch)
DN50(2in)	245	9.65
DN65(2.5in)	245	9.65
DN80(3in)	245	9.65
DN100(4in)	316	12.44
DN125(5in)	386	15.20
DN150(6in)	390	15.35
DN200(8in)	438	17.24
DN250(10in)	535	21.06
DN300(12in)	622	24.49

Wet Alarm Check Valve

Model: NEWAGE-300

Structural Characteristics



No	Name	QTY	Material
1	Alarm Valve	1	Assembly
2	Orifice Restriction	1	C954
3	Tee	2	SS304/KTH350-10
4	Pipe	1	Galvanized pipe
5	Pipe	2	Galvanized pipe
6	Union	2	SS304/KTH350-10
7	Nipple	4	SS304/KTH350-10
8	Nipple	1	SS304/KTH350-10
9	Elbow	1	SS304/KTH350-10
10	Y Strainer	1	SS304
11	Retard Chamber	1	Assembly
12	Alarm Bell	1	Assembly
13	Pipe	1	Galvanized pipe
14	Nipple	1	SS304/KTH350-10
15	Pressure Switch	1	Assembly
16	Cross	1	SS304/KTH350-10
17	Nipple	1	SS304/KTH350-10
18	Pressure Switch	3	Assembly
19	Plug	3	Galvanized pipe
20	3-Way Valve	3	Assembly
21	Pipe	3	Galvanized pipe
22	Pipe	1	Galvanized pipe
23	Pipe	1	Galvanized pipe
24	Plug	1	C954
25	Cross	1	SS304/KTH350-10
26	Orifice Restriction	1	C954
27	Check Valve	1	Assembly
28	Pipe	1	Galvanized pipe
29	Nipple	2	SS304/KTH350-10
30	Tee	2	SS304/KTH350-10
31	Pipe	1	Galvanized pipe
32	Ball Valve	1	Assembly
33	Nipple	1	SS304/Galvanized pipe
34	Nipple	1	SS304/Galvanized pipe
35	Ball Valve	1	Assembly
36	Nipple	3	SS304/KTH350-10
37	Elbow	1	SS304/KTH350-10
38	Nipple	1	SS304/KTH350-10
39	Ball Valve	1	Assembly

Care and Maintenance

- Clean the dirt and foreign matters attached on the rubber seal surface of the valve disc. Generally, the service life of the rubber seals is no more than eighteen months. Replace the seals in time if they are worn out or aging.
- Clean the dirt and foreign matters from the small holes and seal surface in the groove of the valve disc seals. Be careful not to scratch the surface and keep the small holes unobstructed. If the seal surface can't be repaired, replace it with a new one.
- Clean the blockage in the filter of the alarm valve instrument timely and keep the pipeline unblocked.
- Check and clean the dirt in the delayer, and be sure that the small throttle holes will not be blocked by foreign matters.
- Check the water motor alarm every three months:

  Step 1: Turn on the alarm bell to check whether its sound is loud, immediately remove any trouble if found.

  Step 2: Remove the alarm shell and clear up the dirt and the sediment in the alarm, then reassemble the alarm shell and gaskets in turn.

  Step 3: Remove the leaking joints from the water-wheel and clear up the dirt in it.
- Check the pressure switch periodically (it is recommended to test every three months or more frequently).

NEWAGE
FIRE PROTECTION
INDUSTRIES PVT.LTD.

UL LISTED

Deluge Valve (DN40 - DN250)

Model: NFPDV

Model NFPDV-E / EM
Electrically Actuated Deluge Valve
Auto Reset / Manual Reset
Model NFPDV-H / HM
Hydraulically Actuated Deluge Valve Pilot
Controlled Auto Reset / Manual Reset
Model NFPDV-P / PM
Pneumatically Actuated Deluge Valve
Auto Reset / Manual Reset
Model NFPDV-PE / PEM
Electrically and Pneumatically Actuated
Deluge Valve Pre-action double interlock System
Model NFPDV-HR / ER
Flow Regulating Deluge Valve
Constant lower preset, downstream pressure

Product Features

- UL Listed - EX27845.
- N.M.M.P. - No Mechanical Moving Parts with Self Supporting Diaphragm.
- Simple structure - Valve is maintenance free.
- Automatic reset - Optional manual reset.
- Copper trim tubing and brassfittings optional.
- Maximum working pressure up to 250 PSI (17.25 bar).
- Factory assembled trim package.
- Compatible with hydraulic, electric and pneumatic release. Electrical trim with 2-way solenoid Valve.
- Optional Items: Pressure Switch, Water Motor Alarm Gong.
- External manual reset, without opening the valve.
- Can be used in vertical or horizontal position.

Applications

- Deluge & Dry Pipe Systems.
- Single or double Interlock Pre-Action.
- Fresh Water, Sea water, Foam solution or Foam concentrate.
- Foam Systems
- Offshore platforms and helidecks.
- NI Ai Br body Deluge Valve available for corrosive environments.
- Remote controlled valves.

No.	Description
1.	Body
2.	Bonnet
3.	Diaphragm
4.	Bolts
5.	Washers

Operation

NewAge Mumbai make Deluge Valve, Model NFPDV is a quick opening, working on differential pressure system, diaphragm valve with only one moving part. The valve is held closed by the system water pressure in priming chamber, there by rendering the system piping dry. During fire or test conditions, when the releasing system operates pressure is released from the priming chamber allowing the valve to open and to start the flow of water.

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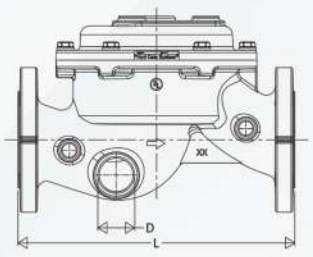
NEWAGE Plus Innovative Fire Solutions

UL LISTED

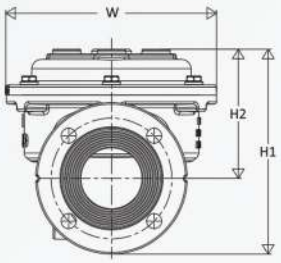
Deluge Valve (DN40 - DN250)

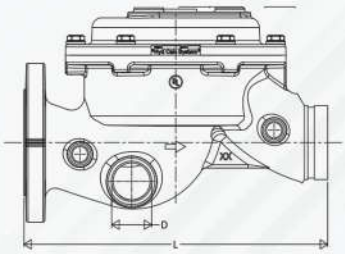
Model: NFPDV

Technical Data

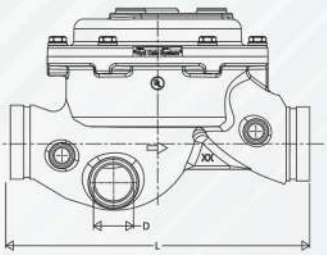


Flange to Flange





Flange to Groove



Groove to Groove

Nominal Size mm / in	Cover Bolt		Drain Thread Size	Dimension				Weight (Kgs /		
	Size	Qty		L mm / in	H1 mm / in	H2 mm / in	W mm / in	F/F	F/G	G/G
40	M12	3	3/4" NPT	256.0	148.2	88.8	159.3	-	-	6.66
1 1/2	M12	3	3/4" NPT	10.1	5.8	3.5	6.3	-	-	14.68
50	M12	4	1" NPT	287.6	181.3	104.5	193.0	14.40	12.23	10.06
2	M12	4	1" NPT	11.3	7.1	4.1	7.6	31.75	26.96	22.18
65	M12	6	1 1/2" NPT	365.0	258.6	163.0	265.0	32.13	28.30	24.47
2 1/2	M12	6	1 1/2" NPT	14.4	10.2	6.4	10.4	70.83	62.39	53.95
80	M12	6	1 1/2" NPT	365.0	258.6	163.0	265.0	32.13	28.30	24.47
3	M12	6	1 1/2" NPT	14.4	10.2	6.4	10.4	70.83	62.39	53.95
100	M16	6	2" NPT	380.0	301.0	186.0	304.0	40.23	35.27	30.31
4	M16	6	2" NPT	14.96	11.85	7.32	11.97	88.69	77.76	66.82
150	M16	6	2" NPT	490.0	357.5	217.5	369.5	62.50	54.90	47.3
6	M16	6	2" NPT	19.28	14.07	8.56	14.55	137.80	121.05	104.29
200	M16	6	2" NPT	592.0	447.5	275	440.0	106.50	92.67	78.84
8	M16	6	2" NPT	23.31	17.62	10.83	17.32	234.80	204.3	173.81
250	M16	6	2" NPT	580.0	477.5	275.0	440.0	123.30	-	-
10	M16	6	2" NPT	22.83	18.80	10.83	17.32	271.83	-	-

Note : Dimensions for the trim envelope may vary with specific component positioning.

Connections:

- Standard: Flanged, ANSI / ASME B16.42 class 150, Flat Face.
- Optional: Grooved, ANSI C606.

Water Temperature:

- -5°C to 80°C (180°F)

Available Size:

- 1½", 2", 2½", 3", 4'', 6'', 8'' & 10''
- *2½" is only available in flanged BS4504 PN16

Pressure Rating:

- Up to 250 PSI (17.25 bar)

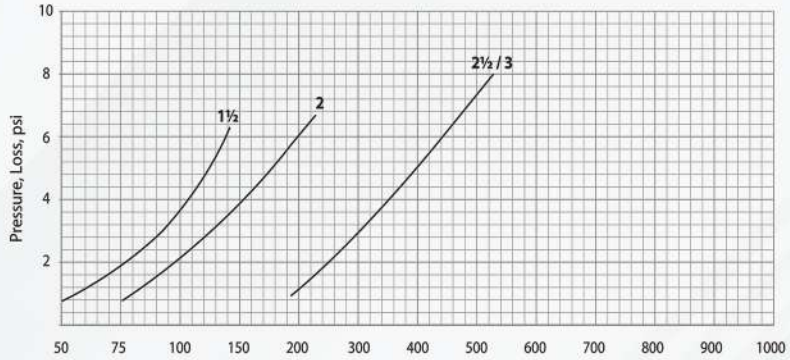
NEWAGE FIRE PROTECTION INDUSTRIES PVT.LTD.

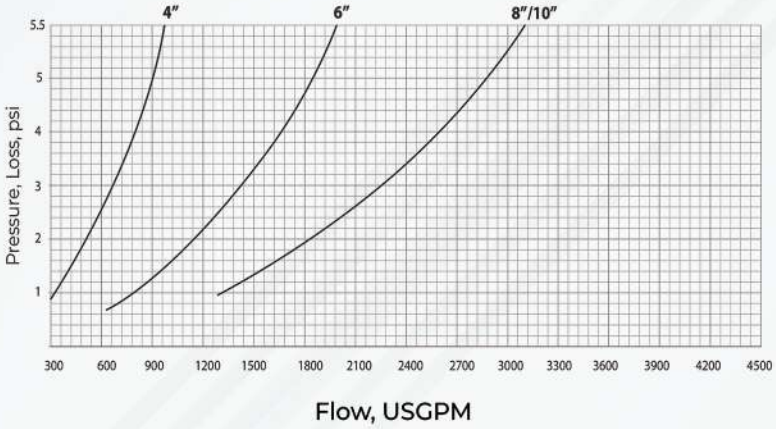
UL LISTED

Deluge Valve (DN40 - DN250)

Model: NFPDV

Friction Loss Chart



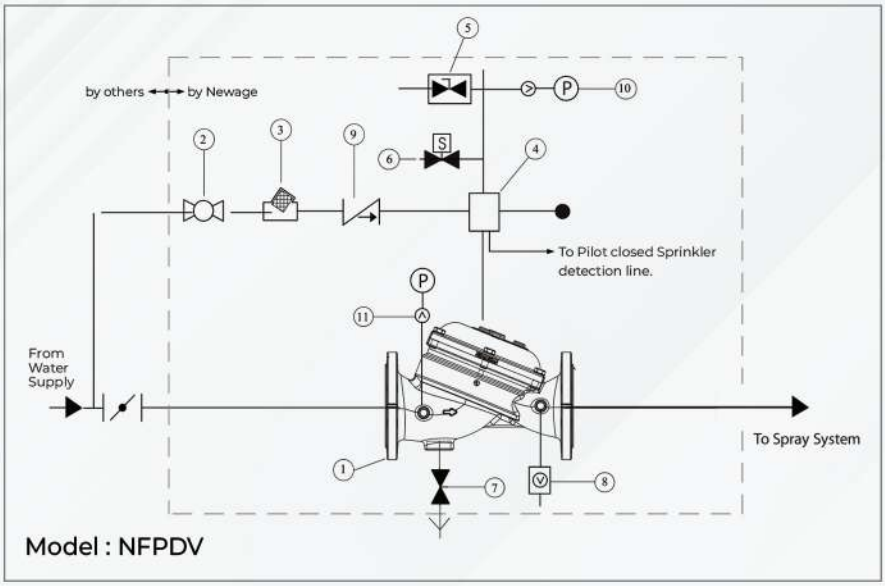


Specifications

- The Deluge valves are UL Listed, diaphragm sealing globe pattern valve with proven reliable design.
- The valves have an unobstructed flow path with no stem guide or supporting ribs. valve actuation shall be accomplished by a fully peripherally supported, one-piece flexible daiphragm. The diaphragm assembly shall be the only moving part.
- The Valves have a removable cover for guick in-line service, enabling all necessary inspection and servicing.
- The control trim materials shall consist of GI / Copper tubing, bass Valves & accessories including 2-way solenoid valve for electrical trim only, strainer and emergency manual release.
- The trim Kit shall be supplied loose in box or pre-assembled and hydraulically tested at factory.

Control Scheme

Electrically Operated Deluge Valve (Manual Reset Type)



1. Deluge Control Valve
2. Priming Ball Valve
3. Strainer
4. Manual Reset with Check Valve
5. Emergency Manual Release Valve
6. 2-Way Solenoid
7. Drain Valve
8. Drip Check Valve
9. Check Valve
10. Pressure gauge c/w No loss connector
11. Pressure gauge c/w No loss connector

Optional - Water Motor Alarm Gong
- Pressure Switch

Deluge Valve (DN40 - DN250)

Model: NFPDV

Manufacturers Standard Material

Main Valve Body and Cover:

- Ductile Iron ASTM A536

Control Trim System:

- GI pipe & fittings with brass accessories

Elastomers:

- Neoprene

Coating:

- Epoxy painted to RAL 3001

Nominal Size mm / in	Dimension			
	B mm / in	tb mm / in	Bs mm / in	Bx mm / in
100	260	200	245	304.0
4	10.20	7.87	9.64	11.97
150	275	200	245	369.5
6	10.80	7.87	9.64	14.55
200	335	200	245	440.0
8	13.19	7.87	9.64	17.32
250	335	200	245	440.0
10	13.19	7.87	9.64	17.32

Note: The information contained in this document is subject to change without notice due to continues improvement process. NEWAGE shall not be liable for any errors contained herein.

Test and Drain Valve

Model: NPTDV

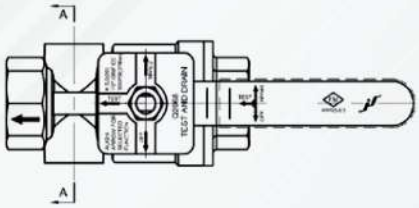
Test and Drain Valve

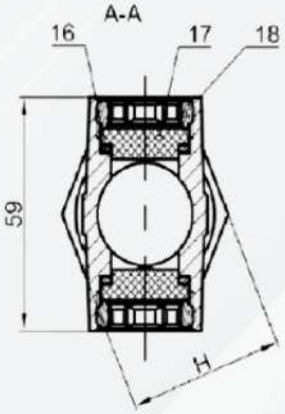
Test and Drain Valve is used to conduct testing and maintenance on sprinkler systems. Thanks to its orifice available with different sizes it creates a flow equivalent to the flow passing along one sprinkler only and enables test of alarm devices on the lines for checking purposes in the case of a sprinkler water flow.

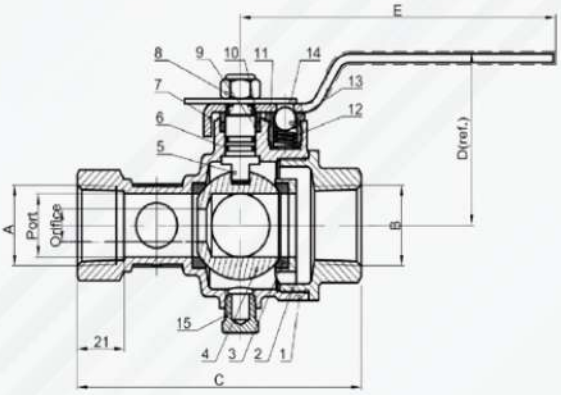
The orifice diameters of the smallest sprinkler and the test drain valve in the system should be equal. It is also used as drain valve to discharge water in the piping by changing the position of the valve. It includes a sight glass to observe the flow.

Technical Features

- Size: 1" TO 2".
- Female NPT X Female NPT.
- Working Pressure : 300 PSI.
- K-Factor : 5.6.
- Sight Glass On Both Sides.







Dimensions

A/B	Orifice	Port	C	D(Ref)	E	H
1" NPT	1/2"	1.024	5.00	2.76	5.16	1.65
11/4" NPT	1/2"	1.024	5.00	2.76	5.16	1.65
11/2" NPT	1/2"	1.575	6.57	3.50	6.34	2.28
2" NPT	1/2"	1.575	6.57	3.50	6.34	2.28

Material

No	Part	Material	No	Part	Material
1	Body	C37700	2	Bonnet	C37700
3	Seal	PTFE	4	Ball	C37700
5	Stem	C37700	6	O-ring	NBR
7	Lever Handle	SS304	8	Locknut	SS304
9	Stem Packing	PTFE	10	Retainer Rign	C37700
11	Nut	C37700	12	Spring	SS304
13	Steel Ball	SS304	14	Plate	Steel
15	Plug	C37700	16	Gasket	NBR
17	Sight Glass	Lexan	18	Jam nut	C37700

Water Flow Detector

Model: NPWFD

Technical Features

- Rating Working Pressure: FM-Max 450PSI(3.1MPa).
- Flow Sensitivity Range for Signal: 4-10GPM (15.0-37.5L / min).
- Maximum Surge: 18FPS (5.5m/s).
- Contact Ratings: Two sets of SPDT (Form C).
- Operating Temperature Range: 40°F to 120°F (4.5°C to 49°C).
- Enclosure Rating: NEMA 4- suitable for indoor / outdoor use / IP55.
- Conduit Entrances: Two opening for 1/2" conduit One open,
- one knock-out type.
- Compatible Pipe: Steel water pipe, schedule 10 through 40.

Engineering Specifications

The NPWFD water flow detectors shall be installed on system piping as shown on the drawing or as specified. They can be mounted on any clear horizontal or vertical pipe span of the appropriate nominal size (2"-8" or 50mm, 200mm). The detectors will have a sensitivity range of 4-10 gallons per minute and a static pressure rating up to 450 psi. They will respond to water flow in the specified direction after a preset, field-adjustable time delay. The retard mechanism will be a sealed mechanical pneumatic unit with a visual time delay adjustment.

Installation Steps

For NPWFD Water Flow Detectors

Step 1: Mount the detector on a horizontal or vertical pipe. On horizontal pipes, install it on the top side for accessibility.

Note: Do not install within 6" (150mm) of a fitting that changes water flow direction or within 24" (600mm) of a valve or drain.

Step 2: Drain the system. Use a circular saw on a slow-speed drill to create a hole in the pipe.

Step 3: For 2" (50mm) and 2 1/2" (65mm) devices: Drill a hole with a diameter of 1-1/4" ± 0.08" (31.8mm + 2mm). For all other sizes: Drill a hole with a diameter of 2" ± 0.08" (50.8mm + 2mm).

Step 4: Clean the inside of the pipe for a distance equal to the pipe's diameter on both sides of the hole.

Step 5: Roll the vane carefully without bending or creasing it. Insert the vane into the hole, ensuring the arrow on the saddle points in the direction of the water flow.

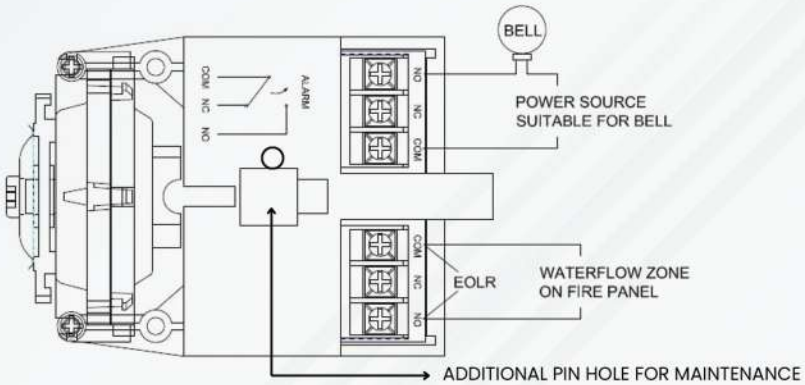
Retard Adjustment: Rotate the retard adjustment knob from 0 to Max (0-90 secs). The factory setting is position 2 (approx. 30 seconds). Set the delay to the minimum needed to avoid false alarms.

Field Typical Electrical Connections:

Notes

NPWFD series Waterflow detector have two switches, one can be used to operate a central station, proprietary or remote signaling unit, while the other contact is used to operate a local device or visual annunciator.

This additional pin hole would allow the wrench (coming with the device) to insert into it and temporarily stop the device from functioning causing false alarm during the maintenance. When the wrench is in there, it also prevents the red device cover to be re-installed.

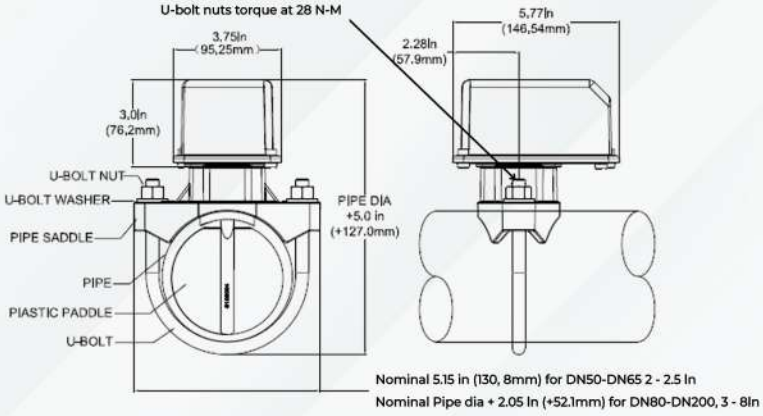


Model	Nominal Pipe Size		Weight (kg)
NPWFD 2	2"	DN 50	1.35
NPWFD 2.5	2.5"	DN 65	1.35
NPWFD 3	3"	DN 80	1.40
NPWFD 4	4"	DN 100	1.45
NPWFD 6	6"	DN 150	1.85
NPWFD 8	8"	DN 200	2.42

Testing

The frequency of inspection and testing for the NPWFD waterflow detector and its associated protective monitoring system shall be in accordance with applicable NFPA Codes and Standards and/or the authority having jurisdiction (manufacturer recommends quarterly or more frequently). If provided, the inspector's test valve shall always be used for test purposes. If there are no provisions for testing the operation of the flow detection device in the system, application of the NPWD is not recommended or advisable, the hole, ensuring the arrow on the saddle points in the direction of the water flow.

Mounting Dimensions



Pressure Restricting Valve

Model: NP-PRV-38 & NP-PRV-63

The NewAge Pressure Restricting Valve is intended for use in wet-pipe systems and to be installed in the supply piping of standpipe systems or at the hose outlets for reducing existing high pressure in the piping system to a level that the fire hose nozzle can be managed by an operator.

Pressure Restricting valves are designed to reduce outlet pressures under flowing conditions only and are intended to be used in situations where the inlet pressure does not exceed 300 PSI.

Technical Specifications

Model	NP-PRV-38	NP-PRV-63
Nominal Size	1 1/2" (38 mm)	2 1/2" (64 mm)
Inlet Connection	NPT -Female	NPT-Female
Outlet Connection	NST- Male	NST- Male
Rated Working Pressure	300PSI	300PSI
Flow rate	375 LPM	945 LPM
Direction of Opening	Counter Clockwise	Counter Clockwise
Certification	FM Approved	FM Approved

Material Specification

Component	Material	Specification
Body	Copper Alloy	BS: 1400 DC83
Bonnet, Pressure Indicator, Seat Valve	Copper Alloy	BS: 1400 DC83
Seat Washer	Rubber	BS: 2752
Spindle, Adjusting Nut	Brass	BS: 2874 CZ-121
Wheel Nut	Stainless Steel	BS:970/4
Hand Wheel	Ductile Iron	BS:2789 420/12

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GVI GLOBAL VISION INC

Global Vision Flow Meter

Construction & Specifcations

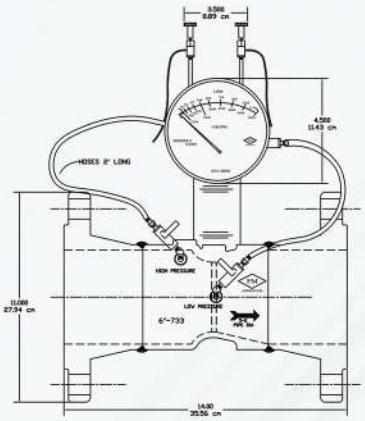
Materials: 1026 Machined Carbon Steel

Valves: 1/4" brass ball

Flange Opt: 150# ANSI B16.5

300# ANSI B16.5

Grooved option available



Standard Model List

Line Size	Pump GPM	Meter Range Min. & Max. GPM	Meter Range Min. & Max. LPM	Model Number Grooved	Model Number Butt Weld	Model Number 150# Flanged	Model Number <Threaded> *300# Flanged*
**1 - 1/4"	25	12.5 - 50	47 - 189	*1.25" - 25 - G	1.25" - 25 - B	*1.25" - 25 - F	1.25" - 25 - T
**2"	50	25 - 100	95 - 379	*2" - 50 - G	2" - 50 - B	*2" - 50 - F	2" - 50 - T
**2 - 1/2"	100	50 - 200	189 - 757	2.5" - 100 - G	2.5" - 100 - B	2.5" - 100 - F	*2.5" - 100 - F3
3"	150	75 - 300	284 - 1136	3" - 150 - G	3" - 150 - B	3" - 150 - F	*3" - 150 - F3
3"	200	100 - 400	379 - 1514	3" - 200 - G	3" - 200 - B	3" - 200 - F	*3" - 150 - F3
4"	250	125 - 500	473 - 1893	4" - 250 - G	4" - 250 - B	4" - 250 - F	*4" - 250 - F3
4"	300	150 - 600	568 - 2271	4" - 300 - G	4" - 300 - B	4" - 300 - F	*4" - 300 - F3
4"	400	200 - 800	757 - 3028	4" - 400 - G	4" - 400 - B	4" - 400 - F	*4" - 400 - F3
4"	450	225 - 900	852 - 3407	4" - 450 - G	4" - 450 - B	4" - 450 - F	*4" - 450 - F3
5"	450	225 - 900	852 - 3407	5" - 450 - G	5" - 450 - B	5" - 450 - F	*5" - 450 - F3
5"	500	250 - 1000	946 - 3785	5" - 500 - G	5" - 500 - B	5" - 500 - F	*5" - 500 - F3
5"	750	375 - 1500	1420 - 5678	5" - 750 - G	5" - 750 - B	5" - 750 - F	*5" - 750 - F3
6"	500	250 - 1000	946 - 3785	6" - 500 - G	6" - 500 - B	6" - 500 - F	6" - 500 - F3
6"	750	375 - 1500	1420 - 5678	6" - 750 - G	6" - 750 - B	6" - 750 - F	6" - 750 - F3
6"	1000	500 - 2000	1893 - 7570	6" - 1000 - G	6" - 1000 - B	6" - 1000 - F	6" - 1000 - F3
6"	1250	625 - 2500	2366 - 9462	6" - 1250 - G	6" - 1250 - B	6" - 1250 - F	6" - 1250 - F3

Line Size	Pump GPM	Meter Range Min. & Max. GPM	Meter Range Min. & Max. LPM	Model Number Grooved	Model Number Butt Weld	Model Number Flanged
8"	1000	500 - 2000	1893 - 7570	8" - 1000 - G	8" - 1000 - B	8" - 1000 - F
8"	1250	625 - 2500	2366 - 9462	8" - 1250 - G	8" - 1250 - B	8" - 1250 - F
8"	1500	750 - 3000	2839 - 11356	8" - 1500 - G	8" - 1500 - B	8" - 1500 - F
8"	2000	1000 - 4000	3785 - 15142	8" - 2000 - G	8" - 2000 - B	8" - 2000 - F
8"	2500	1250 - 5000	4731 - 18925	8" - 2500 - G	8" - 2500 - B	8" - 2500 - F
8"	3000	1500 - 6000	5678 - 22712	8" - 3000 - G	8" - 3000 - B	8" - 3000 - F
10"	1500	750 - 3000	2839 - 11356	10" - 1500 - G	10" - 1500 - B	10" - 1500 - F
10"	2000	1000 - 4000	3785 - 15142	10" - 2000 - G	10" - 2000 - B	10" - 2000 - F
10"	2500	1250 - 5000	4731 - 18925	10" - 2500 - G	10" - 2500 - B	10" - 2500 - F
10"	3000	1500 - 6000	5678 - 22712	10" - 3000 - G	10" - 3000 - B	10" - 3000 - F
10"	3500	1750 - 7000	6624 - 26495	10" - 3500 - G	10" - 3500 - B	10" - 3500 - F
10"	4000	2000 - 8000	7570 - 30283	10" - 4000 - G	10" - 4000 - B	10" - 4000 - F
10"	4500	2250 - 9000	8518 - 34068	10" - 4500 - G	10" - 4500 - B	10" - 4500 - F
12"	2500	1250 - 5000	4731 - 18925	*12" - 2500 - G	*12" - 2500 - B	*12" - 2500 - F
12"	3000	1500 - 6000	5678 - 22712	*12" - 3000 - G	*12" - 3000 - B	*12" - 3000 - F
12"	3500	1750 - 7000	6624 - 26495	*12" - 3500 - G	*12" - 3500 - B	*12" - 3500 - F
12"	4000	2000 - 8000	7570 - 30283	*12" - 4000 - G	*12" - 4000 - B	*12" - 4000 - F
12"	4500	2250 - 9000	8518 - 34068	*12" - 4500 - G	*12" - 4500 - B	*12" - 4500 - F
12"	5000	2500 - 10000	9464 - 37854	*12" - 5000 - G	*12" - 5000 - B	*12" - 5000 - F

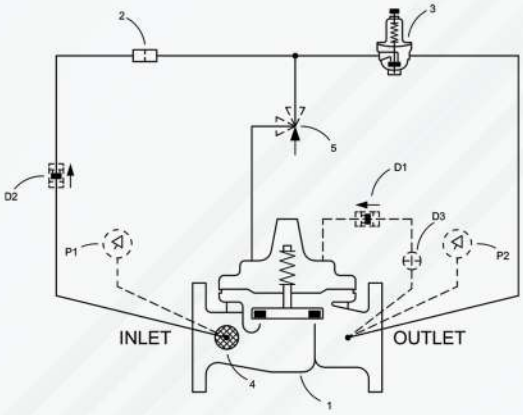
Fire Protection Pressure Reducing Valve

Model: 90G-21 (Globe) & 90A-21 (Angle)

Description

The Cla-Val Model 90-21 Pressure Reducing Valve automatically reduces a higher inlet pressure to a steady lower downstream pressure regardless of changing flow rate and/or varying inlet pressure. This valve is an accurate, pilot-operated regulator capable of holding downstream pressure to a pre-determined limit. When downstream pressure exceeds the pressure setting of the control pilot, the main valve and pilot valve close drip-tight.

If a check feature is added, and a pressure reversal occurs, the downstream pressure is admitted into the main valve cover chamber, which closes the valve to prevent return flow.



Schematic Diagram

Part	Description
1.	100-01 Hytrol Main Valve
2.	X58C Restriction Assembly
3.	CRD Pressure Reducing Control
4.	X46A Flow Clean Strainer
5.	CV Flow Control (opening)** **1.5", 3" and 4"

Optional Features

Part	Description
D	Check Valve Option
P	Gauge Option

Main Valve Specifications

- **Approved sizes:**

  Flanged: 1.5" - 12"

  Grooved: 1.5" - 8" (1.5" - 6" Angle)

  Threaded: 1.5" - 3"

- **Pressure ratings:**

  150 class, 250 PSI maximum (Ductile Iron)

  150 class, 285 PSI maximum (All other materials)

  300 class, 300 PSI maximum (All materials)

- **Temperature range:**

  Water: to 180° F. Max

- **Fluids:**

  Water

Materials

- **Main Valve Body & Cover:**

  Standard Epoxy Coated Ductile Iron

  ASTM A-536*

- **Main Valve Trim:**

  Stainless Steel

- **Pilot Control System:**

  Cast Bronze

- **Rubber Parts:**

  Buna-N® Synthetic Rubber

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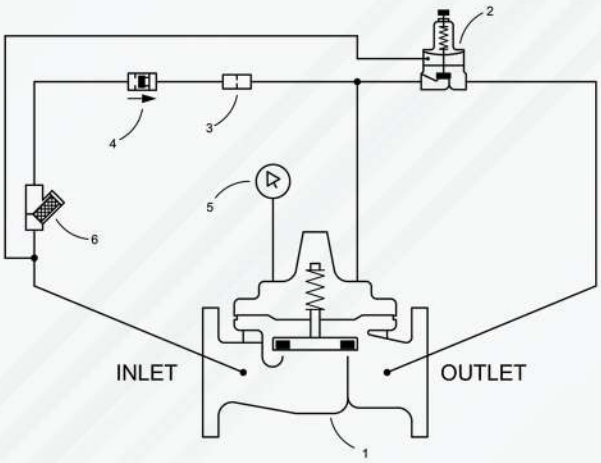
Fire Protection Pressure Relief Valve

Model: 50B-4KG1 (Globe) & 2050B-4KG1 (Angle)

Description

The Cla-Val Model 50B-4KG1 (Globe) / 2050B-4KG1 (Angle) Pressure Relief Valve is designed specifically to automatically relieve excess pressure in fire protection systems. This pilot controlled relief valve maintains constant system pressure at the pump discharge within very close limits as demands change. Operation is completely automatic and pressure settings may be easily changed. This valve can be used for pressure relief, pressure sustaining, back pressure, or unloading functions in a bypass system. This fast opening, slow closing relief valve provides system protection against high pressure surges onpump startup and pump shut down by dissipating the excess pressure to a safe location.

2050B-4KG1 (Angle)



Schematic Diagram

Part	Description
1.	Hytrol Main Valve
2.	CRL Pressure Relief Control
3.	X58C Restriction Assembly
4.	Check Valve
5.	Pressure Gauge
6.	X43 "Y" Straine

Main Valve Specifications

- **Approved Sizes:**
  Flanged: 1.5" - 8"
  Grooved: 1.5" - 8" (1.5" - 6" Angle)
  Threaded: 1.5" - 3"
- **Pressure Ratings:**
  150 class, 250 PSI maximum (Ductile Iron)
  150 class, 285 PSI maximum (All other materials)
  300 class, 300 PSI maximum (All materials)
- **Temperature Range:**
  Water: to 180° F. Max
- **Fluids:**
  Water

Materials

- **Main Valve Body & Cover:**
  Standard Epoxy Coated Ductile Iron ASTM A-536*
- **Main Valve Trim:**
  Stainless Steel
- **Pilot Control System:**
  Cast Bronze
- **Rubber Parts:**
  Buna-N® Synthetic Rubber

Air Release Valve

Model: Series 34

- Ductile Iron Body.
- Stainless Steel Trim and Float.
- Easily serviced without removal from pipeline.
- Available Pressure Ratings: 175 and 300.
- Engineered for drip tight seal at low pressures.

Cla-Val Series 34 Fire Protection System Air Release Valves are designed to vent entrained air that collects at high points in a pipeline. This valve continuously eliminates air from a system by releasing small quantities of air before large air pockets can occur. In many installations, continuing accumulations of air in the pipeline (lacking air release valves); cause flow capacity to slowly decrease; power consumption slowly increases; un-noticeable at first, until flow drops dramatically, even stopping due to air blocks in the piping.

Purchase Specifications

The fire protection system air release valve shall be of the float operated, simple lever or compound lever design, and capable of automatically releasing accumulated air from a fluid system while the system is pressurized and operating.

An adjustable designed orifice button shall be used to seal the valve discharge port with drip-tight shut-off. The orifice diameter must be sized for use within a given operating pressure range to insure maximum air venting capacity. The float shall be of all stainless steel construction and guaranteed to withstand the designed system surge pressure without failure. The body and the cover shall be ductile iron and valve internal parts shall be stainless steel and VitonTM or Buna-NR (standard) for water tight shut-off.

The air release valve shall be manufactured per ANSI/AWWA C512-04 Series 34 from Cla-Val in Newport Beach, CA, USA.

Product Specifications

- Sizes: 1/2", 3/4", 1"
- Pressure Ratings: (see note) 175 UL/FM, 300 UL/FM
- Temperature Range: Water to 180°F

Note: Specify when operating pressure below 10 PSI.

- Materials: Body and Cover: Ductile Iron ASTM 536 65-45-12
- Float: Stainless Steel
- Internal Parts: Stainless Steel
- Seal: Viton™ or Buna-N®(Standard)

Air Release Valve Sizing

Air release valve sizing requires determining the volume of air that must be released from pipeline high points during normal operation and the diameter of the pipeline. Series 34 Fire Protection System Air Release Valves are primarily used to continuously release pockets of air (as they develop) from high point, hence it is not critical to determine exact volume of air to be released.

Air Release Valve Sizing Chart For Water Pipelines

Figure A	Model No.	Inlet Size	Outlet Size	Orifice Size	GPM	MWP	Height	Width	Wt. (lbs.)
	UL Listed FM Approved 3450-AR332 3475-AR332 3410-AR332	1/2", 3/4", 1"	1/2"	3/32"	200 - 2200	175	5 - 7/8"	3 - 3/4"	6
	UL Listed FM Approved 3450-AR116.3 3475-AR116.3 3410-AR116.3	1/2", 3/4", 1"	1/2"	1/16"	200 - 2200	300	5 - 7/8"	3 - 3/4"	6

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Pressure Relief Valve / Pump Casing Relief Valve

Model: 55L-60

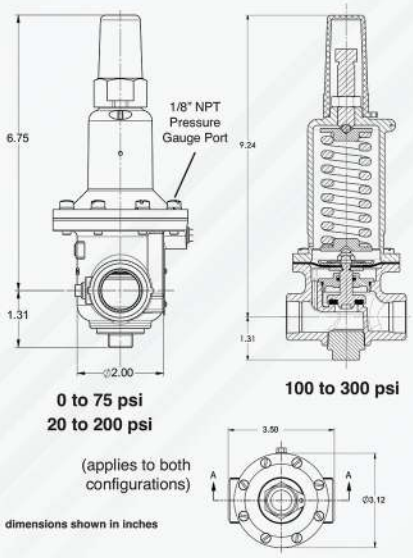
- Sizes 1/2"and 3/4" are UL Listed and FM Approved for use as Fire Pump Casing Relief Valves.
- The 1" model is UL Listed for use as a Fire Pump Casing Relief Valve.
- Direct Acting - Precise Pressure Control.
- Drip Tight Closure.
- No Packing Glands or Stuffing Boxes.
- Globe or Angle configurations available.
- Sensitive to Small Pressure Variations.
- Meets low lead requirements.
- Available in Cast Bronze, 316 Stainless Steel, monel & Super duplex Stainless Steel.

1/2", 3/4", & 1"
Angle Configuration

1" Size 20-75 PSI,
40-200 PSI, 100-300 PSI

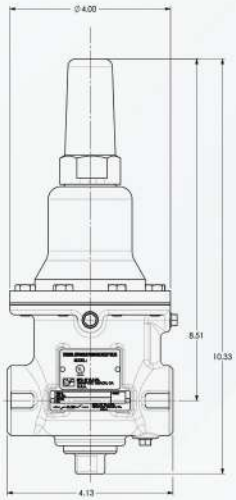
more materials available

Dimensions (1/2"and 3/4")



Dimensions (1")

Spring Range: 20-75
40-200, 100-300



Specifications

- **Size:** 1/2", 3/4" and 1" Threaded NPT.
- **Temperature Range:** Water, Air: to 180°F Max.
- **Materials**
  - Body & Cover: Cast Bronze UNS C87850 -Standard
    Stainless Steel ASTM A743-CF-16F Monel
    Super Duplex Stainless Steel
  - Trim: 303 Stainless Steel Monel.
  - Rubber: Buna-N®Synthetic Rubber.
- **Pressure Ratings:** Cast Bronze 400 PSI Max.
  Stainless Steel 400 PSI Max.
- **Other materials:** Available on special order.
- **Adjustment Ranges UL Listed.**
  10 to 75 PSI , 20 to 200 PSI , 100 to 300 PSI.
- **Adjustment Ranges FM Approved**
  0 to 75 PSI , 20 to 200 PSI , 100 to 300 PSI.

Pressure Drop Chart (Full Open Valve)

Valve Size	C_v Factor	Max Flow (GPM)
1/2"	6	25
3/4"	8.5	40
1"	12.8	65

Standard Factory Set Points* (1/2", 3/4", 1")

0 -75 psi	20-200 psi	100 - 300 psi
50 psi	60 psi	100 psi

Custom set points available upon request.

Direct Acting Pressure Reducing Valve

Model: CRDL-P

Typical Applications

High rise buildings use CRDL-P Pressure Reducing Valves in various water systems (Potable water, Boiler feed air conditioning, etc.) to control pressure fluctuations between floors.

Industrial plants use CRDL-P Pressure Reducing Valves between a high pressure supply system and equipment requiring lower pressure. Typically CRDL-P Pressure Reducing Valves are used at supply connections for water heaters, boiler feed water or other process water systems.

Specifications

- **Temperature Range:**
  Water: to 140°F (70°C) Max
- **Diaphragm:** EPDM
- **Disc:** EPDM
- **Strainer:** Inline Mesh
- **Materials:**
  Body and Cover: ASTM A351 CF8
- **Pressure Ratings:**
  Maximum Inlet Pressure: 250 PSI (17 Bar).
  Maximum Differential Pressure: 150 PSI (10 Bar).
  Minimum Differential Pressure: 14.5 PSI.

Dimensions (inches)

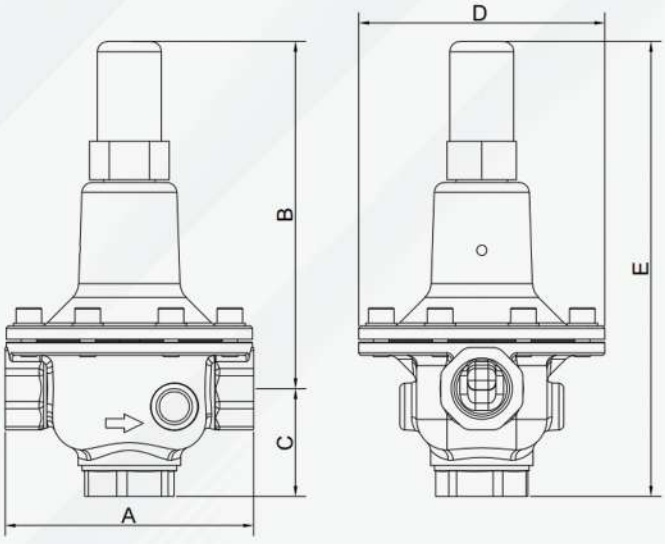
Size	A	B	C	D	E	Weight (lbs)
1/2"	3.82"	5.24	1.14	3.70	6.38	2.8
3/4"	3.82"	5.35	1.18	3.70	6.54	3.1
1"	4.17	5.79	0.98	3.78	6.77	3.9
1-1/4"	4.41	5.94	1.22	4.09	7.17	4.4
1-1/2"	4.88	6.02	1.46	4.57	7.48	5.0
2"	6.69	6.18	1.93	6.06	8.11	10.5

Dimensions (mm)

Size	A	B	C	D	E	Weight (lbs)
15	97	133	29	94	162	1.3
20	97	136	30	94	166	1.4
25	106	147	25	96	172	1.8
32	112	151	31	104	182	2.0
40	124	153	37	116	190	2.3
50	170	157	49	154	206	4.8

Gauge Connections

1/2" through 2" has 1/4" FNPT or FBSP



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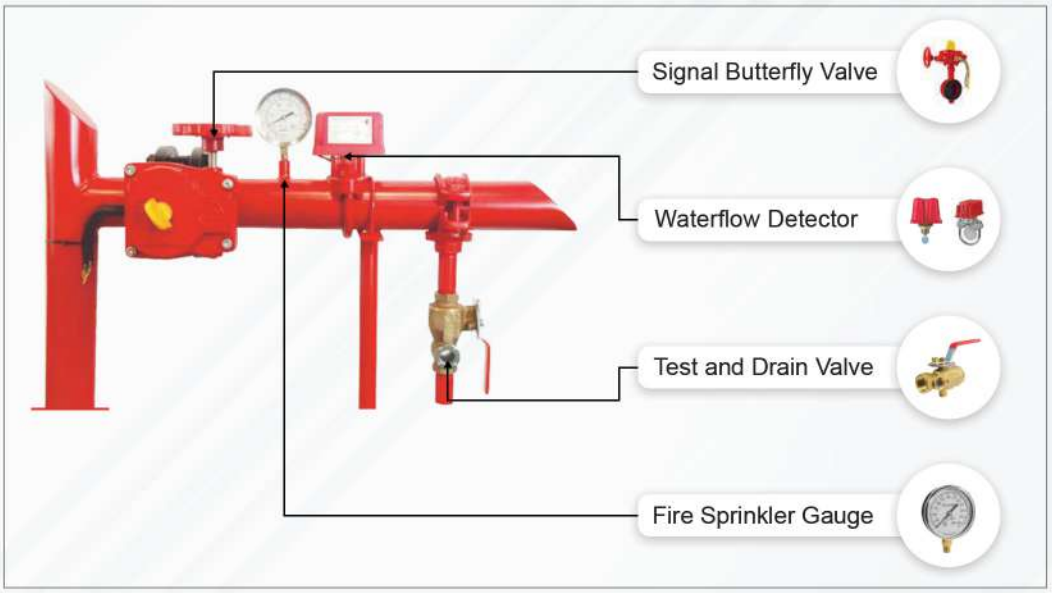
Zone Control Valve

Description

NewAge Zone Control Valve (Floor Control Valve) is a combined unit of 4 parts: signal butterfly valve, waterflow indicator, pressure gauge and test & drain valve. They are assembled on fire pipeline to separates the fire area into small distribution zone for indication and control. Because of fire sprinkler or test valve activation, the indicator detects water flow and transmits signal to control system. After fire suppression, butterfly valve gets signal, to indicate manual shut down the water flow for recovering the system.



Equipment Particulars

- Name 0f The Equipment: Zone Control Riser Manifold.
- Size: 65, 80, 100, 150 and 200 NB.
- F1, F2: 2.5", 3", 4", 6" & 8" Grooved.
- F3: 1" Grooved.

Item Description

No.	Name	Description
1.	NewAge Flow Switch	Make - NewAge, FM Approved
2.	Butterfly Valve	Make - NewAge, UL & FM Approved
3.	Manifold	C.S.
4.	Test & Drain Valve, 1"	Make - NewAge, FM Approved
5.	Pressure Guage, Std., 0 To 300 PSI	UL & FM
6.	Painting Finish	Red RAL 3001

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- IOCL
- ONGC
- Shapoorji Pallonji
- AFCONS
- Asian Paints
- Mahindra & Mahindra
- Adani
- Aegis Logistics
- Ambuja Cements
- BHEL
- Blue Star
- Essar Steel
- NTPC
- EIL
- Godrej & Boyce Mfg. Co.
- Hindalco
- ITC
- JSW
- Nestle India
- Lupin
- NALCO
- Zydus
- Ultratech

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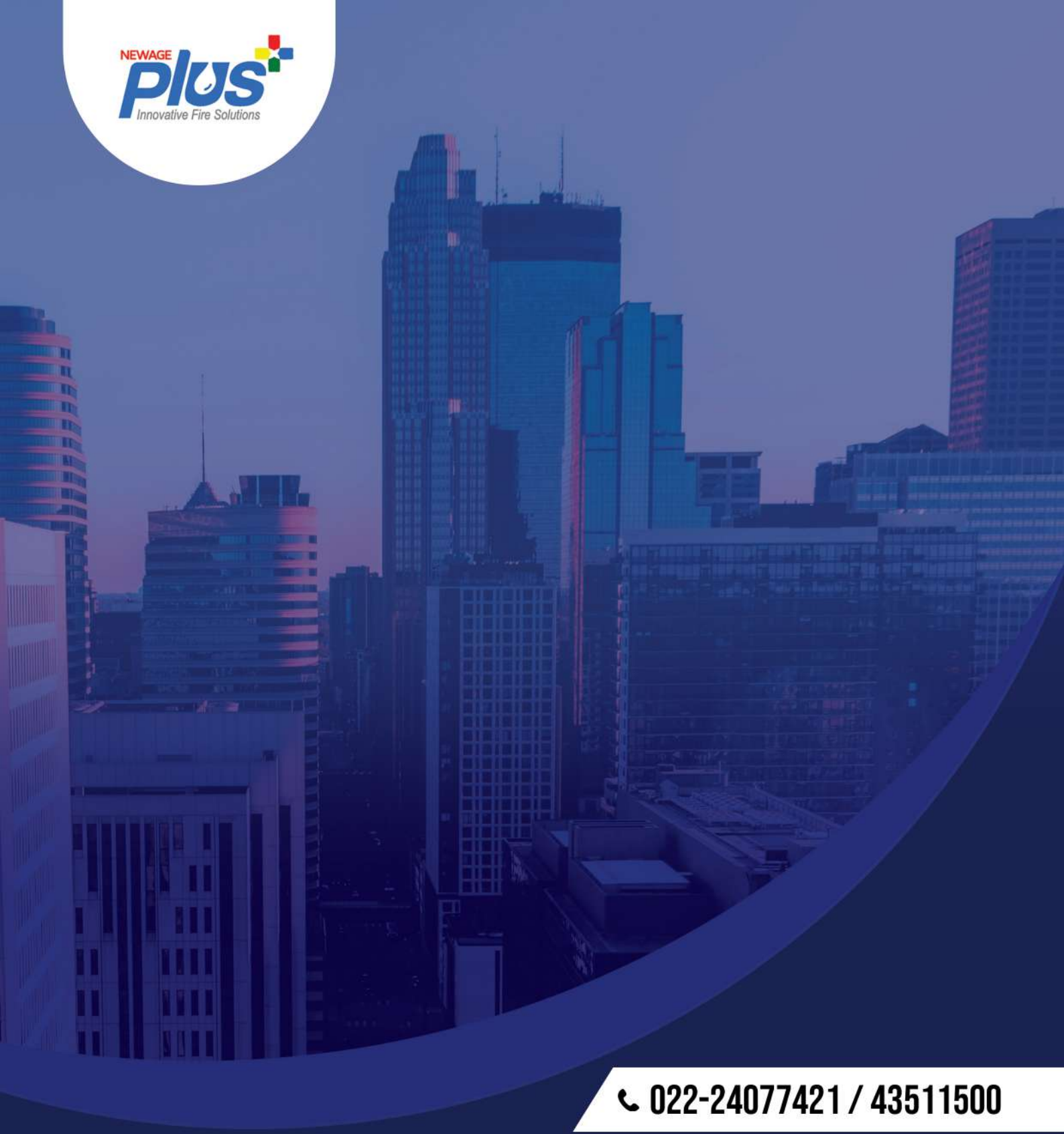

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