NON RISING RESILIENT SEATED GATE VALVE - ANRS 100

PRODUCTION STANDARDS

DN50 → DN600
PN 16

Design	EN 1171 / EN 1074-2
Connection	EN 1092-2 / BS 5163
Face to Face	BS 5163 / EN 558-1
Marking	EN 19
Tests	EN 12266-1
Pressure Class	PN 16
Corrosion Protection	Electrostatic Powder Epoxy

Features

- **100% tight sealing is achieved through EPDM covered wedge fully contacting the fusion bonded epoxy coated flow surface.**
- **The body and bonnet are manufactured from ductile iron castings. It is resistant to high tensile stress occurring in pipelines.**
- **Low operating torque due to plastic sliding guides on the wedge**
- **Maintenance-free and corrosion-resistant stem sealing**
- **With O-ring sealing**
- **Large conical stem hole in the wedge prevents stagnant water**
- **Wedge and body guide rails ensure stable operation**
- **Stainless steel stem with rolled threads for high strength & low operation torque.**
- **Inner and outer surfaces are coated with minimum 300 microns fusion bonded epoxy.**
- **Suitable to use with aboveground and underground applications.**
- **Can be operated with actuator, gearbox, handwheel and extension spindle.**
- **The top of the shaft bearing and shaft nuts are made of brass. High precision machining enables low operation torques.**
- **Full bore characteristics without distruption of flow results in low pressure drops across the valve**

Temperature

- 80 °C

Product Description

ANRS100 Non - Rising Resilient-seated gate valve made of premium materials and with special coating designed as both clockwise and anti-clockwise directions.

Versions

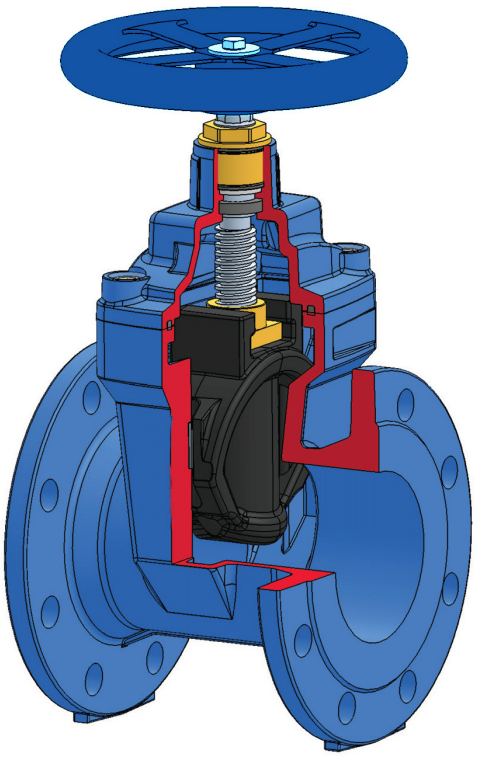
- Standard version with handwheel
- Standard version with extension spindle

Scope of Application

- Pipelines
- Water Treatment Plants
- Pumping stations
- Tanks
- Seawater applications
- Power plants (cooling water pipelines)
- Industry

ANRS 100

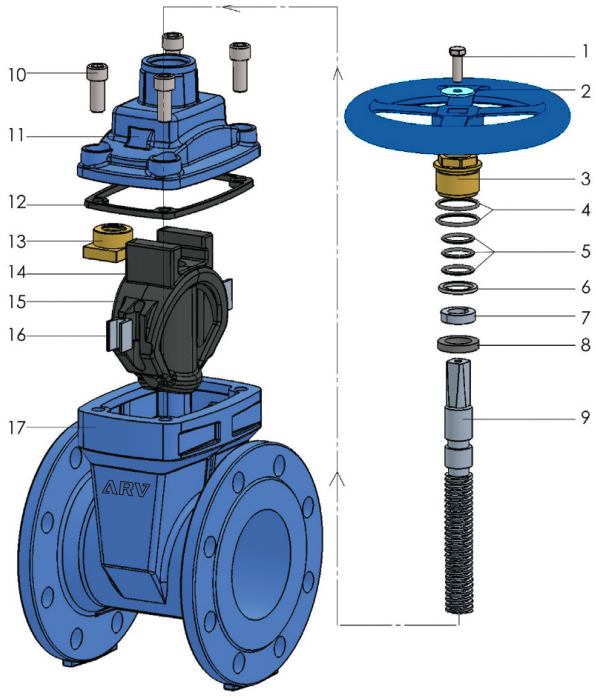
NON RISING RESILIENT SEATED GATE VALVE - ANRS 100



MATERIAL SELECTION

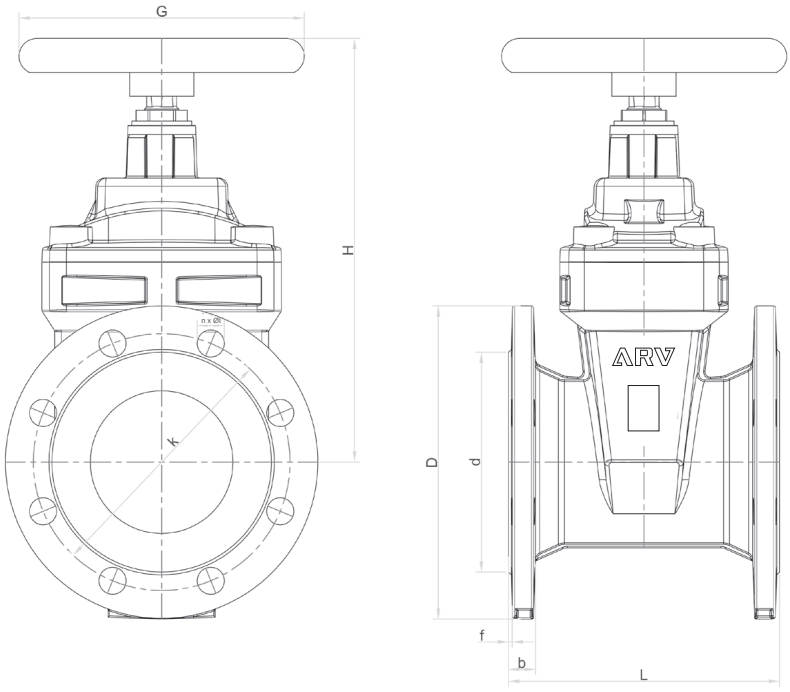
Body	EN-GJS-500 DUCTILE IRON (GGG50)
Bonnet	EN-GJS-500 DUCTILE IRON (GGG50)
Stem	STAINLESS STEEL
Sealing	EPDM
Coating	ELECTROSTATIC POWDER EPOXY

VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		



NO	ITEM	MATERIALS
1	BOLT	Steel
2	WASHER	Steel
3	SHAFT NUT	Steel
4	O-RING	NBR/EPDM
5	O-RING	NBR/EPDM
6	WASHER	Steel
7	WASHER	Steel
8	NUTRING	EPDM
9	DRIVE SHAFT	Stainless steel
10	IMBUS BOLT	Steel
11	COVER	EN GJS 500 DUCTILE IRON / GGG50
12	COVER GASKET	EPDM
13	SLIDE NUT	Steel
14	WEDGE TOP	EPDM
15	WEDGE	EN GJS 500 DUCTILE IRON / GGG50
16	WEDGE GUIDE	POLYMER
17	BODY	EN GJS 500 DUCTILE IRON / GGG50

NON RISING RESILIENT SEATED GATE VALVE - ANRS 100



Model	DN (mm)	D	H	G	n x Øl	d	k	L
ANRS100-50	50	165	215	200	4 x 19	99	125	178
ANRS100-65	65	185	235	200	4 x 19	118	145	190
ANRS100-80	80	200	265	254	8 x 19	132	160	208
ANRS100-100	100	220	315	254	8 x 19	156	180	229
ANRS100-125	125	250	350	315	8 x 19	184	210	254
ANRS100-150	150	280	385	315	8 x 23	211	240	267
ANRS100-200	200	340	485	315	12 x 23	266	295	292
ANRS100-250	250	405	600	405	12 x 28	319	355	330
ANRS100-300	300	460	680	405	12 x 28	370	410	356
ANRS100-350	350	520	810	500	16 x 28	429	470	381
ANRS100-400	400	580	890	500	16 x 31	480	525	406
ANRS100-450	450	640	1050	500	20 x 31	548	585	432
ANRS100-500	500	715	1230	650	20 x 34	609	650	457
ANRS100-600	600	840	1260	650	20 x 37	720	770	508

RESILENT SEATED GATE VALVE - ARS 150

PRODUCTION STANDARDS

DN50 → DN300
PN 16

Design	EN1171, EN1074-2
Connection	EN1092-2 / BS 5163
Face to Face	EN558-1 / BS 5163
Marking	EN 19
Tests	EN 12266-1
Pressure Class	EN 12266-1 / PN16
Corrosion Protection	Electrostatic Powder Epoxy

Features

- The position of the fire protection valve can be monitored with the use of the on-board tracking circuitry. This avoids damage that could be caused by the valve in a closed position during a possible fire.
- Full bore characteristics without distruption of flow results in low the valve.
- 100 % tight sealing is achieved through EPDM covered wedge fully contacting the fusion bonded epoxy coated flow surface.
- The top of the shaft bearing and shaft nuts are made of brass. High precision machining enables low
- Operation torques. Inner and outer surfaces are coated with minimum 300 microns.
- Flanged end connections.
- Lightweight ductile iron body and bonnet.
- Lower operating torque, designed for a higher life cycle.

Temperature

- 80 °C

Product Description

ARS150 Resilent seated gate valve - Rising stem OS&Y, ductile iron gate valve features BS 5163 flanged, flat face end connections for easy installation and accessibility. Outside screw (OS&Y) gate valves are recommended when positive shutoff and a quick visual indicator of open/closed position is required.

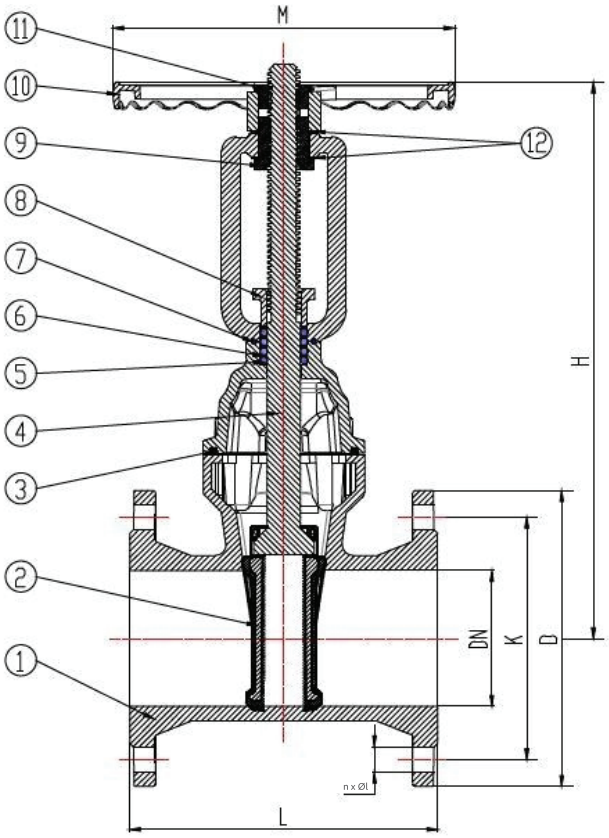
Versions

- Standard version with rubber flapper
- Standard version with signal

Scope of Application

- Hot water lines
- Cold water lines
- Fire applications
- Power plants
- Industry

RESILENT SEATED GATE VALVE - ARS 150



NO	ITEM	MATERIALS
1	Body	Ductile Iron
2	Disc	Ductile Iron + EPDM
3	Bonnet Gasket	NBR
4	Stem	Stainless steel
5	Oring	NBR
6	Sealing Washer	POM
7	O-ring	NBR
8	Gland	Ductile Iron
9	Lower Stem Nut	Brass
10	Handwheel	Ductile Iron
11	Upper Stem Nut	Brass
12	Anti Friction Pad	Stainless steel

MATERIAL SELECTION

Body	EN-GJS-500 Ductile Iron / GGG50
Bonnet	EN-GJS-500 Ductile Iron / GGG50
Stem	Stainless Steel
Sealing	EPDM

VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		

Model	DN (mm)	D	H	M	n x Øl	d	K	L
ARS150-50	50	165	320	200	4 x 19	99	125	178
ARS150-65	65	185	325	200	4 x 19	118	145	190
ARS150-80	80	200	355	200	8 x 19	132	160	203
ARS150-100	100	220	425	254	8 x 19	156	180	229
ARS150-125	125	250	490	315	8 x 19	184	210	254
ARS150-150	150	285	550	315	8 x 23	211	240	267
ARS150-200	200	340	670	315	12 x 23	266	295	292
ARS150-250	250	405	845	406	12 x 28	319	355	330
ARS150-300	300	460	1100	406	12 x 28	370	410	356

FLEXIBLE CHECK VALVE - AFC 200

PRODUCTION STANDARDS

DN50 → DN300
PN 16

Design	EN 12234 / EN 16767
Connection	EN 1092-2 / ISO 7005-2
Face to Face	EN 558, BS 5153
Marking	EN 19
Tests	EN 12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Features

- With the start of movement at defined flow direction on the system, the disc leaves the flow section by turning around its axis and allows the flow pass.
- The disc fixed inside the body in located on the flow axis.
- Sealing is achieved by metal to metal seating. Rubber coated disc is available.
- All external surfaces are primed and painted for corrosion resistance.
- Can be installed in either vertical (upward flow only) or horizontal (cover upright) applications.
- Designed with focus on easy access to maintenance. By unscrewing a few bolts the bonnet assembly including hinge and disc can be removed from the body, and maintenance can be performed.
- Zero stem leakage eliminates media loss and satisfies environmental regulations.
- Effective for energy savings.
- Stock piled for quick delivery.

Temperature

- +80 °C

Product Description

AFC200 Flexible Check Valve is designed to prevent reverse flow automatically. During system flow conditions, the movement of the fluid forces the valve disc to the open position allowing 100% un-restricted flow area through the valve. Under reverse flow conditions, the disc automatically returns to the closed position to prevent reverse flow. The valve is of the swing check type utilizing an angled seat and fully encapsulated, resilient disc.

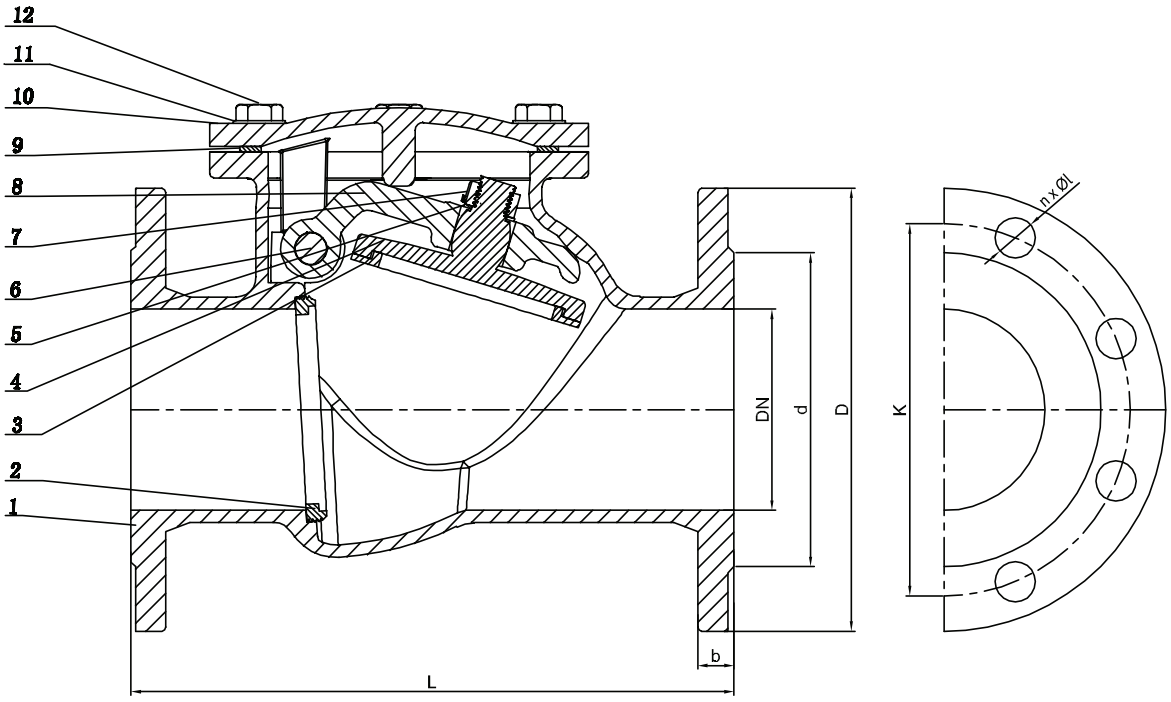
Versions

- Standard version with rubber flapper
- Custom production for specific orders

Scope of Application

- Chamber installation
- Pipelines
- Water treatment plants
- Pumping stations
- Tanks
- Seawater applications
- Power plants
- Industry

FLEXIBLE CHECK VALVE - AFC 200



MATERIAL SELECTION	
Body	EN-GJS-500 Ductile Iron / GGG50
Bonnet	EN-GJS-500 Ductile Iron / GGG50
Stem	Stainless Steel
Sealing	EPDM
Coating	Electrostatic Powder Epoxy / FBE
Disc	Natural rubber, EPDM, NBR

VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		

NO	ITEM	MATERIALS
1	BODY	EN GJS 500 Ductile Iron / GGG50
2	SEAT	Brass
3	SEAL RING	Brass
4	DISC	Natural rubber, EPDM, NBR
5	GALVANIZED GASKET	Stainless Steel
6	PIN	Stainless Steel
7	NUT	Steel
8	POCKER ARM	EN GJS 500 Ductile Iron / GGG50
9	SEALING	NBR
10	COVER	EN GJS 500 Ductile Iron / GGG50
11	GALVANIZED GASKET	Steel
12	BOLT	Steel

Model	DN (mm)	D	K	d	n x Øl	f	b	L
AFC200-50	50	165	125	99	4 x 19	2	16.5	205
AFC200-65	65	185	145	118	4 x 19	2	17	215
AFC200-80	80	200	160	132	8 x 19	3	19	223
AFC200-100	100	220	180	156	8 x 19	3	20	247
AFC200-125	125	250	210	184	8 x 19	3	20	285
AFC200-150	150	285	240	211	8 x 23	3	20	324
AFC200-200	200	340	295	266	12 x 23	3	20	400
AFC200-250	250	405	355	319	12 x 26	3	25	498
AFC200-300	300	460	410	370	12 x 26	4	28	620

Y STRAINER - AYS 300

PRODUCTION STANDARDS

DN50 → DN400
PN 16

Connection	EN 1092-2 / ISO 7005-2 - Flanged
Face to Face	EN 558 Series 1 / BS 1563
Marking	EN 19
Tests	EN 12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Product Description

AYS300 Y-Strainer are installed in a piping system to remove unwanted debris from the pipeline, protecting expensive equipment downstream such as pumps, meters, spray nozzles, compressor, and turbines. They can be placed in a horizontal or vertical pipeline as long as the screen is in a downward position.

Features

- Y-Strainer is used for filtering the mass particles inside the flow through the steel filter chamber situated in the body.
- Straining is accomplished with an internal mesh lined straining element, the size of which should be determined based on the size of the smallest particle to be removed. Recommended for installation upstream of control valves.
- Double filter Construction avaids water hammer effects.
- By removing the cover placed on the body, detailed cleaning can be performed or filter can be replaced. Quick removal of lid for maintenance.
- The hole diameters on the filters are determined in order to have a minimum effect on the head loss and flow rate.
- According to request, the hole diameters of the filters can be manufactured in different dimensions.
- Inner and outer surfaces of the Y-Strainer are coated with fusion boded powder epoxy (FBE) optionally with industrial epoxy.
- DN 50-DN 200 Filter size: 20 Mesh.
- DN 250- DN 400 Filter size: 40 Mesh.
- Filter mesh size can be changed according to request.
- Plug MS58 BRASS.
- Stock piled for quick delivery.

Temperature

- 80 °C

Versions

- Standard version
- Custom production for specific orders
- Fusion bonded epoxy (FBE) coating
- Industrial Epoxy coating

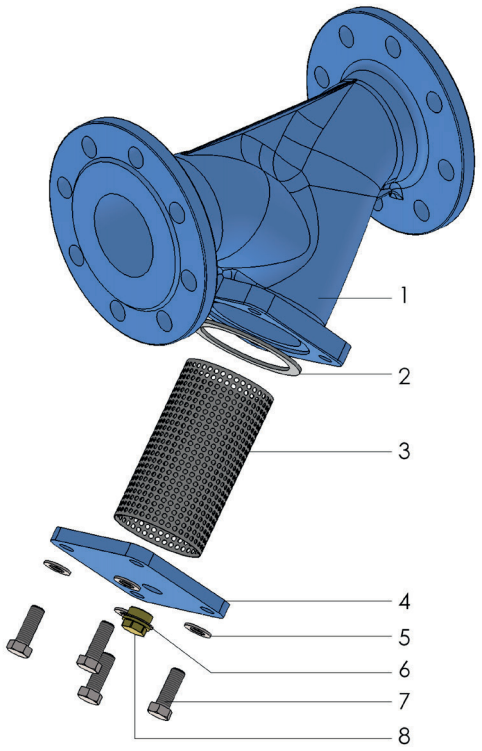
Spare Parts

- Stainless steel filters
- Sealing Gasket

Scope of Application

- Chamber installation
- Installation in plants
- Pipelines
- Water treatment plants
- Pumping stations
- Tanks, reservoirs
- Seawater applications
- Power plants (cooling water pipelines)
- Industry

Y STRAINER - AYS 300

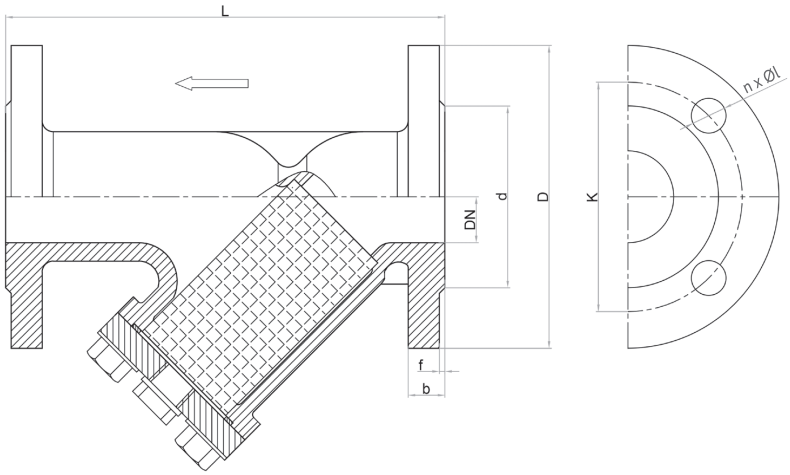


PRODUCTION STANDARDS

Body	EN-GJS-500 DUCTILE IRON / GGG50
Filter	Stainless Steel
Plug	MS 58 - Brass

VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		

NO	ITEM	MATERIALS
1	BODY	EN-GJS-500 DUCTILE IRON / GGG50
2	SEALING GASKET	EPDM / NBR
3	FILTER	STAINLESS STEEL
4	COVER	DUCTILE IRON
5	WASHER	DIN 125
6	CIRCLIP	DIN 472
7	BOLTS	DIN993
8	NUT	CuZn40Pb2 BRASS



Model	DN (mm)	D	K	d	n x Øl	f	b	L
AYS300-50	50	165	125	99	4 x 19	3	20	230
AYS300-65	65	185	145	118	4 x 19	3	20	290
AYS300-80	80	200	160	132	8 x 19	3	22	310
AYS300-100	100	220	180	156	8 x 19	3	24	350
AYS300-125	125	250	210	184	8 x 19	3	26	400
AYS300-150	150	285	240	211	8 x 23	3	26	480
AYS300-200	200	340	295	266	12 x 23	4	30	600
AYS300-250	250	405	355	319	12 x 28	4	32	730
AYS300-300	300	460	410	370	12 x 28	4	32	850
AYS300-350	350	520	470	429	16 x 28	4	36	980
AYS300-400	400	580	525	480	16 x 31	4	38	1100

AIR RELEASE VALVE - AAR 350

PRODUCTION STANDARDS

DN25 / DN50
PN 16

Design	EN1074-4
Connection	DN25 / Threaded DN50 / End Flange
Marking	EN19
Tests	EN12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Features

- High grade ductile iron body, reduce the weight and much longer life than cast iron.
- Simple mechanism with lever and float.
- The float and internal mechanism are made of AISI 304 /stainless steel and last for much longer life cycles. Coated with powder epoxy for corrosion resistance. Epoxy coating thickness = 300µm.
- Male connection can easily be connected to isolated valves, no need further nipples.
- Single orifice air release valve is installed on the pipe with a flange or threaded, releases the air recevied from its flange connnection through the orifice located above the float part. When the air release is completed, the float travels upside with the water force and closes the orifice outlet, thus preventing the leakage of water.
- While the pipeline is taken into service, it enables the air accumulation and discharges out of the system.
- With the discharge of air inside the system, the fluid will reach the release level; so the float ball valve inside the body elevates on the water and places on the sealing seat and turns to closed position.
- When it is needed to discharge the filled pipelines, it is required to fill air in place of the fluid leaves the system.
- Release valves can be manufactured with flanged or threaded

Temperature

- 80 °C

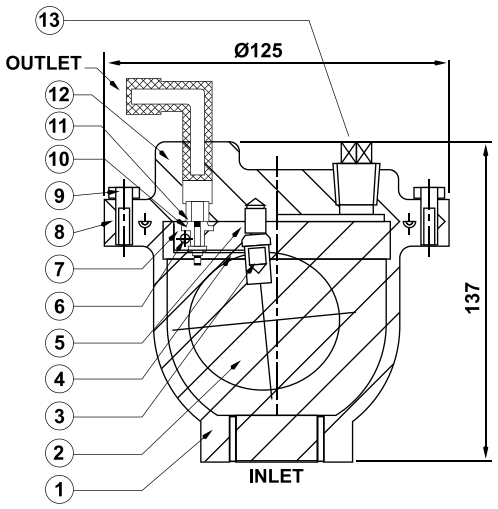
Product Description

AAR350 Single orifice air release valve is commonly installed in the peak of the pipeline, and used for exhausing the compressed air in pipeline system, generally there will be about 2% of dissolved air in water and it will release as bubbles and thru the air release valve nozzle. It can prevent the existence of bubble gap for flow, this can help a better efficiency for transmission of flow.

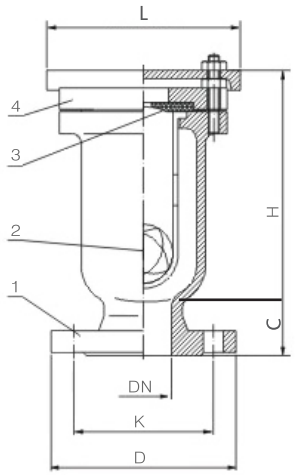
Scope of Application

- Pump suction lines
- Water lines
- Water supply network
- Line valves
- Venturimeters
- Plunger & turbine pumps

AIR RELEASE VALVE - AAR 350



NO	ITEM	MATERIALS
1	Body	Cast Iron
2	Float Ball	Stainless Steel
3	Lever Frame	Stainless Steel
4	Float Arm	Stainless Steel
5	Locator	Stainless Steel
6	Pivot Pin	Stainless Steel
7	Pin Retainer	Stainless Steel
8	Gasket	EPDM Rubber
9	Cover Bolt	Carbon Steel
10	Orifice Button	Rubber
11	Seat	Stainless Steel
12	Cover	Cast Iron
13	Plug	Stainless Steel



NO	ITEM	MATERIALS	STANDARD
1	Body	GGG50 / GJS500	DIN 1693 / BS EN 1563
2	Ball	Stainless Steel	ISO 4633
3	Gasket	NBR / EPDM	
4	Bonnet	GGG50 / GJS500	DIN 1693 / BS EN 1563

Model	DN (mm)	K	C	H	L
AAR350-25	25	48	20	120	130
AAR350-50	50	165	50	250	175

FOOT VALVE AFV - 400

PRODUCTION STANDARDS

DN50 ➜ DN300
PN 16

Connection	EN 1092-2 / ISO 7005-2 - Flanged / BS 1563
Marking	EN 19
Tests	EN 12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Features

- The structure is made from the combination of filter and check valve
- Through its filter, the clean fluid transfer to the pump is maintained
- The spring check valve inside the body prevents the backflow and discharge of the pipeline
- For usage at pipeline edges inside the reservoir. Suitable to use on clean water linesZero stem leakage eliminates media loss and satisfies environmental regulations.
- Effective for energy savings. Energy loss due to leakage is controlled, helping to prevent global warming and protecting the environment.

Temperature

- 80 °C

Product Description

AFV400 Foot Valve is an installation instrument used in pump suction lines in order to prevent discharge of the fluid to the reservoir when system is in static position and prevent waterless operation of the pump when started.

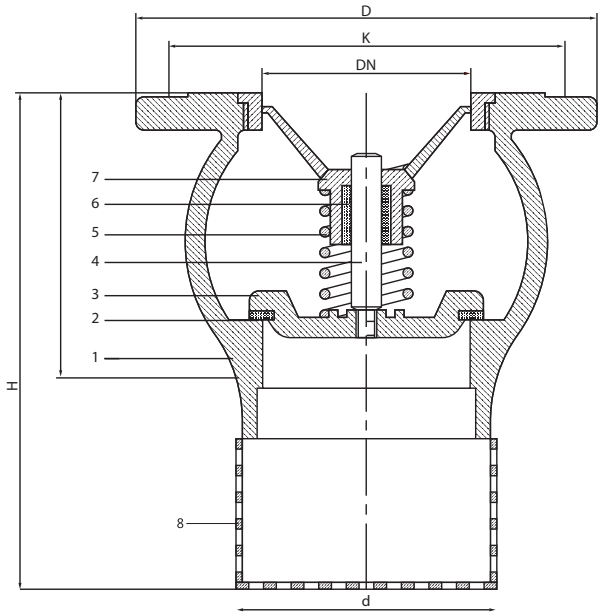
Versions

- Standard version with handwheel
- Standard version with gearbox
- Prepared for electrical actuator
- With electric actuator
- Custom production for specific orders

Scope of Application

- Suitable for water, oil and others non-abrasive media (Refer tocorrosion resistance table for value materials selection)

FOOT VALVE - AFV 400

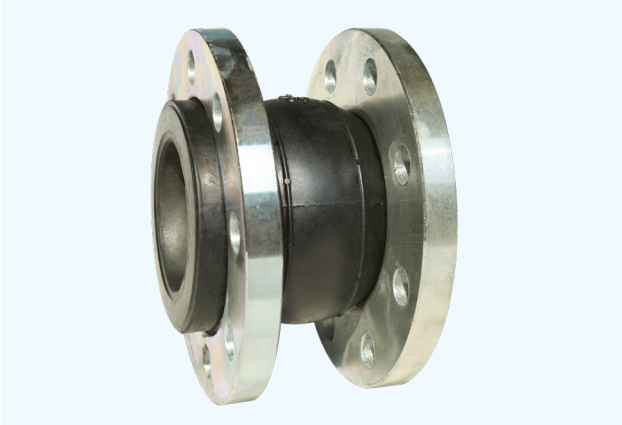


VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		

NO	ITEM	MATERIALS
1	Body	EN-GJS-500 Ductile Iron / GGG50
2	Seat	Stainless Steel
3	Disc	EN-GJS-500 Ductile Iron / GGG50
4	Stem	Stainless Steel
5	Spring	Stainless Steel
6	Ring	PTFE
7	Guide	EN-GJS-400 Ductile Iron
8	Filter	Stainless Steel

Model	DN (mm)	D	K	d	n x Øl	s	H	L
AFV400-50	50	165	125	81	4 x 19	1.5	200	100
AFV400-65	65	185	145	101	4 x 19	1.5	245	120
AFV400-80	80	200	160	111	8 x 19	1.5	280	140
AFV400-100	100	220	180	140	8 x 19	1.5	320	170
AFV400-125	125	250	210	161	8 x 19	1.5	400	200
AFV400-150	150	285	240	190	8 x 23	2	450	230
AFV400-200	200	340	295	235	12 x 23	2	510	288
AFV400-250	250	405	355	295	12 x 28	2	600	354
AFV400-300	300	460	410	354	12 x 28	2	650	395

RUBBER EXPANSION JOINT - ARJ 500



PRODUCTION STANDARDS

DN50 → DN300
PN 16

Design	DIN 3230
Connection	EN1092-1, BS 6755
Face to Face	BS 6755
Marking	EN19
Tests	EN12266-1
Corrosion Protection	Galvanisation

Features

- Provides tolerance that exposed temperature differences arising from expansion and contraction in pipelines.
- Lengthening and shortening of the pipeline composed of temperature differences absorb.
- It provides lateral and angular movement to stabilize the pipeline.
- Installation does not require gaskets and seals.
- Allows balancing of the pipeline lateral and angular movements.
- Contribute to the absorption of the water hammer from the system.
- Gasket and joint are not needed for installation.
- Provides easy installation due to rotary flanges.
- It is manufactured EPDM rubber as standard, it can be used NBR rubber if required.
- It can be supplied as various pressure class flanges.
- No gaskets required for installation.
- Are suitable to compensate thermal elongation or even misalignments.
- Are non-corrosive and abrasion-resistant elastomers.
- Unlike metal joints, which often require periodic replacement of the mating flange gaskets, ARV expansion joints being gasket-free are virtually maintenance free over their entire service life.
- Rubber Expansion joints are relatively light in weight, contributing to lower installation labour costs.
- Rubber expansion joints reduce heat loss, giving long maintenance-free service.
- Material properties such as hardness, elasticity, tensile strength, temperature resistance, etc., are rated to the corresponding application.
- Stock piled for quick delivery.

Temperature

- 80 °C

Product Description

ARJ500 Rubber expansion joint with swiver flanges removes vibration and noise that occurs and transmitted along the line on pipeline facilities due to EPDM rubber body.

Versions

- Damp oscillation, noise and vibration
- Compensate motion
- Compensate expansion caused by differences in temperature
- Reduce tension
- Compensate ground and foundation settling
- Compensate imprecise assembly
- Serve as assembly and disassembly aids
- Provide an elastic wall seal for penetration assemblies
- Compensate pipeline movements

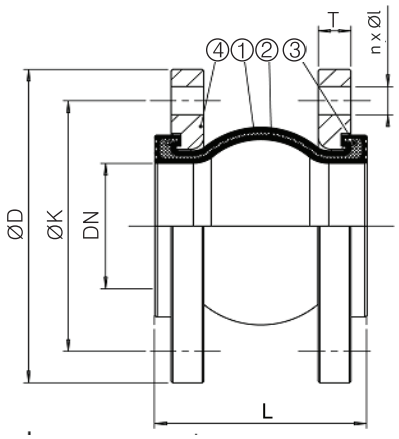
Accessories

- Type: universal, lateral and angular expansion joints
- Pipe connection type: flanged, threaded
- Rubber quality of the bellows: rated to the media transported in the pipes
- Bellows structure: rated to the pressure and temperature load

Scope of Application

- Hot & cold water
- Cooling towers
- Water & waste water applications

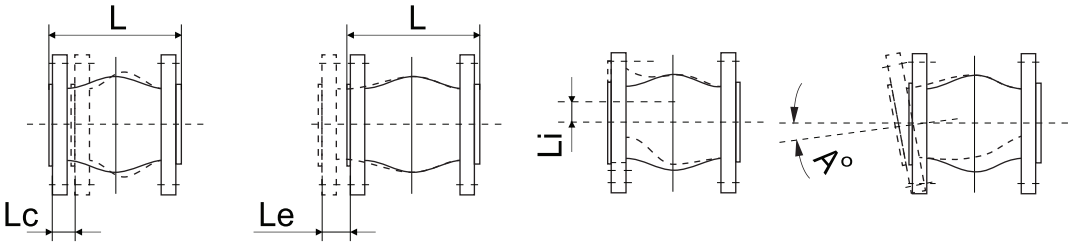
RUBBER EXPANSION JOINT - ARJ 500



MATERIAL SELECTION

Body	Fabric Reinforced EPDM Steel Reinforced EPDM
Flange	Steel
Sealing	EPDM

VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		



Lc: Axial compression.
Le: Axial extension.
Li: Axial movement.

Model	DN (mm)	D	Lc	Le	Li	n x Øl	T	K	L
ARJ500-50	50	165	8	6	8	4 x 18	15	125	105
ARJ500-65	65	185	12	6	10	4 x 18	15	145	115
ARJ500-80	80	200	12	10	10	8 x 18	17	160	135
ARJ500-100	100	220	18	10	12	8 x 18	17	180	145
ARJ500-125	125	250	18	10	12	8 x 18	19	210	170
ARJ500-150	150	285	18	14	22	8 x 23	21	240	180
ARJ500-200	200	340	25	14	22	12 X 23	21	295	205
ARJ500-250	250	395	25	14	22	12 x 28	23	350	220
ARJ500-300	300	445	25	16	22	12 x 28	25	400	230

WAFER TYPE BUTTERFLY VALVE - ABF 600

PRODUCTION STANDARDS

DN50 → DN200
PN 16 CLASS 150

Design	EN 593; BS 5155
Connection	Wafer Type ISO 7005-1 EN 1092-1
Face to Face	EN 558 ISO 5752
Marking	EN 19
Tests	EN 12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Product Description

ABF600 Wafer Type Butterfly Valve is a quarter-turn rotational motion valve, which is used to stop, regulate and start flow. 90° rotation of the handle provides a complete closure or opening of the valve.

Features

- Equipped with various disc materials and can be used in various flow types and different applications with the EPDM, NBR seat options.
- Compared to other valve types, with its compact dimensions offers the advantages of lightweight, easy installation and cost effectiveness.
- Head loss is at minimum level through the double shaft design of ARV Valve.
- The inner and outer surfaces of valve body are coated with electrostatic fusion bonded epoxy (FBE) / oven baked powder epoxy coating.
- Higher coating thicknesses can be applied upon request
- No need for any additional intermediary parts.
- Can be installed in any desired position
- The valve body and disc are accurately machined which results in low operating torque and long service life and reliability.

Versions

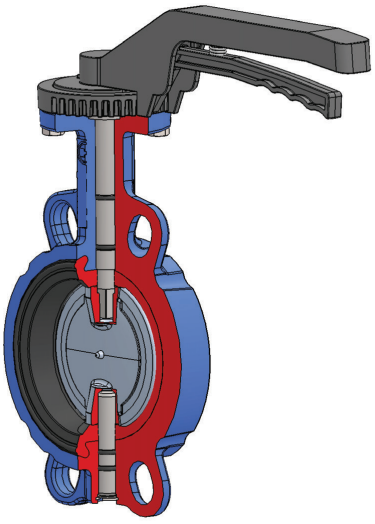
- Standard version with hand wheel
- Custom production for specific orders

Scope of Application

- Chamber installation
- Installation in plants
- Pipelines
- Water treatment plants
- Pumping stations
- Seawater applications
- Power plants (cooling water pipelines)
- Industry

Temperature

- 80 °C

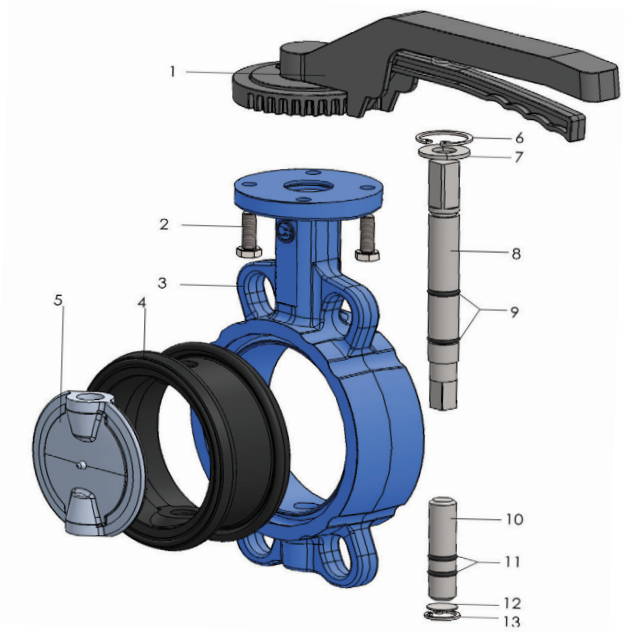


MATERIAL SELECTION

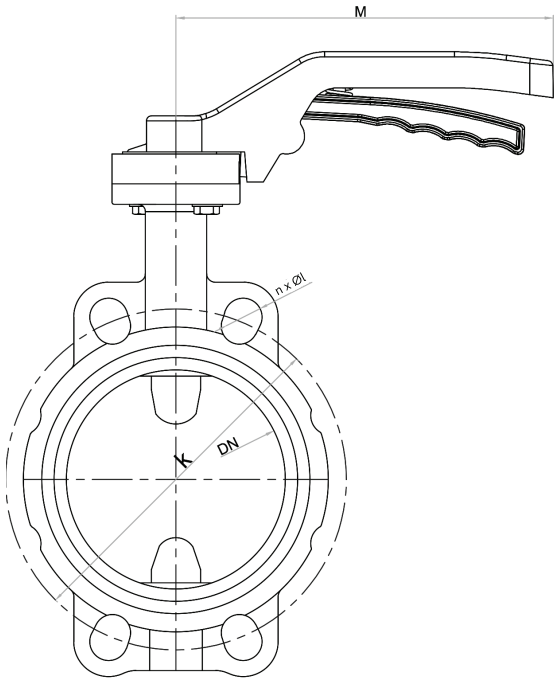
Body	EN-GJS-500 Ductile Iron / GGG50
Disc	EN-GJS - 500 Ductile Iron / GGG50
Stem	Stainless Steel
Sealing	EPDM, NBR

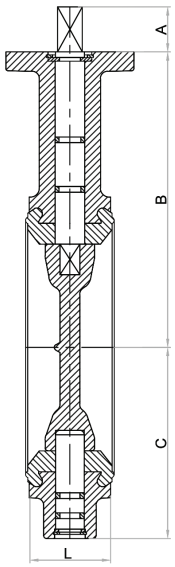
VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		

WAFER TYPE BUTTERFLY VALVE - ABF 600



NO	ITEM	MATERIALS
1	HANDLEVER	CAST IRON
2	BOLTS	DIN 933
3	BODY	EN GJS 500 GGG 50
4	GASKET	EPDM / NBR
5	DISC	EN GJS 500 GGG 50
6	RETAINING RING	DIN 472
7	WASHER	STEEL
8	DRIVE SHAFT	STAINLESS STEEL
9	O RING	NBR, EPDM
10	CENTERING SHAFT	STAINLESS STEEL
11	O RING	NBR, EPDM
12	WASHER	STAINLESS STEEL
13	RETAINING RING	DIN 472





Model	DN (mm)	A	B	C	k	n x Øl	M	L
ABF600-50	50	32	126	80	125	4 X 19	190	43
ABF600-65	65	32	134	89	145	4 X 19	190	46
ABF600-80	80	32	157	95	160	4 X 19	190	46
ABF600-100	100	32	167	114	180	4 X 19	255	52
ABF600-125	125	32	180	127	210	4 X 19	255	56
ABF600-150	150	32	203	139	240	4 X 23	255	56
ABF600-200	200	45	228	175	295	4 X 23	355	60

BUTTERFLY VALVE WITH SWITCHER GEAR OPERATOR - ABFS 650

PRODUCTION STANDARDS

DN65 → DN300
PN 16

Design	EN 593
Connection	Wafer Type ISO 7005-1 EN 1092-1
Face to Face	EN 558-1 / ISO 5752
Marking	EN 19
Tests	EN 12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Features

- ABFS650 Wafer Type Butterfly Valve With Switcher Gear Operator is installed on upright axis to the pipeline, quarter turn (90 degree) operating disc, maintains 100% tight sealing in either direction through the EPDM robed into inner walls of the valve body.
- Head loss is at minimum level through the double shaft design.
- One-piece disc/stem design. The disc edge is spherically machined and hand polished to produce a bubble-tight shutoff, minimum torque, and longer seat life.
- The disc/stem design inherently provides complete protection from particle entrapment and bacterial decay, protection that is required for sanitary performance.
- Primary and secondary seals prevent line media from coming in contact with the stem or body. Primary Seal is achieved by an interference fit of the molded seat flat with the disc hub. Secondary Seal is created because the stem diameter is greater than the diameter of the stem hole.
- The valves tongue and groove seat design lowers torque and provides complete isolation of flowing media from the body. The seat also features a molded O-ring which eliminates the use of flange gaskets.
- Non-corrosive, heavy duty acetal bushing absorbs actuator side thrust.
- The position of the valve can be monitored with the use of the onboard tracking and electric circuitry This avoids damage that could be caused by the valve in a closed position during a possible fire.
- The valve can be controlled with lower torques through the gearbox mounted.
- It can be used as a line shutoff valve or as a regional control valve.
- Inner and outer surfaces are coated with minimum 300 microns fusion bonded epoxy.

Temperature

- 80 °C

Product Description

ABFS650 Wafer Type Butterfly Valve With Switcher Gear Operator are indicating type valves designed for use in fire protection systems where a visual indication is required as to whether the valve is open or closed. They can be used as system, sectional, and pump water control valves.

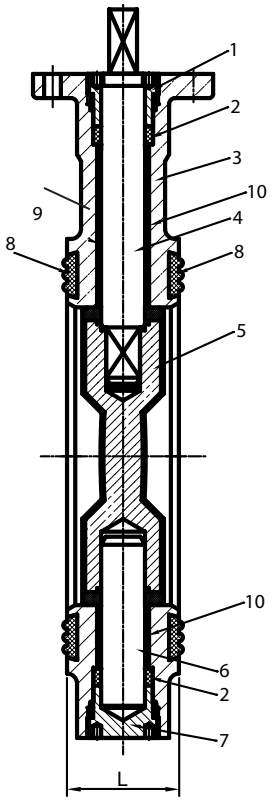
Versions

- Standard version with hand wheel
- Custom production for specific orders

Scope of Application

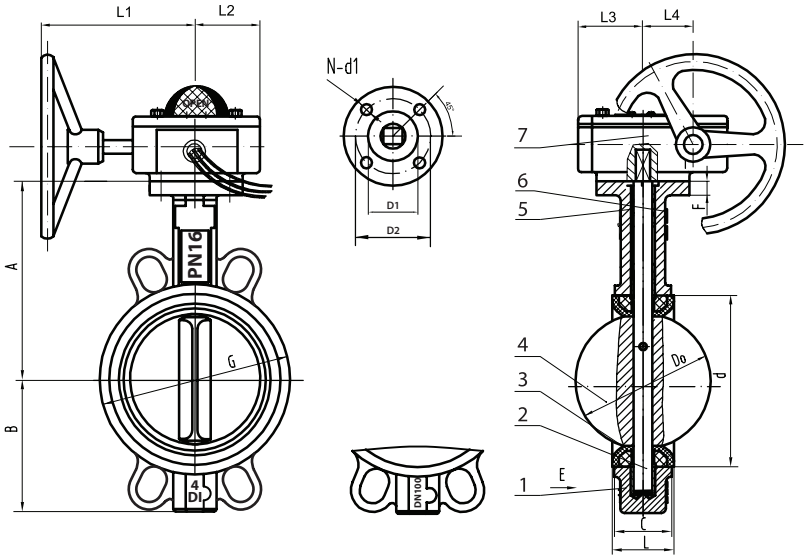
- Chamber installation
- Installation in plants
- Pipelines
- Water treatment plants
- Pumping stations
- Tanks
- Seawater applications
- Power plants (cooling water pipelines)
- Industry

BUTTERFLY VALVE WITH SWITCHER GEAR OPERATOR - ABFS 650



NO	ITEM	MATERIALS
1	Drive Shaft Nut	Steel
2	O-ring	EPDM
3	Body	Ductile Iron
4	Drive Shaft	SS304
5	Disc	Ductile Iron+EPDM
6	Centering Shaft	SS304
7	Centering Shaft Nut	Steel
8	Bearing	PTFE
9	O-ring	EPDM
10	Signal Box	Ductile Iron

VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		



Model	DN (mm)	A	B	C	Do	G	n x Øl	L
ABFS650-65	65	136	82	46	64	108	4 X 19	49
ABFS650-80	80	142	91	46	79	123	4 X 19	49
ABFS650-100	100	163	107	52	104	154	4 X 19	55
ABFS650-125	125	176	107	56	123	180	4 X 19	59
ABFS650-150	150	197	127	56	156	210	4 X 23	59
ABFS650-200	200	230	143	60	202	263	4 X 23	64
ABFS650-250	250	268	165	66	256	311	4 x 28	70
ABFS650-300	300	293	185	73	306	362	4 x 28	78

PRESSURE REDUCING VALVE - APR 700

PRODUCTION STANDARDS

DN50 / DN200
PN 16

Design	BS 5163-2, EN1074-5
Connection	BS EN 1092-2, ISO7005-2
Marking	EN19
Tests	EN12266-1
Corrosion Protection	Electrostatic Powder Epoxy

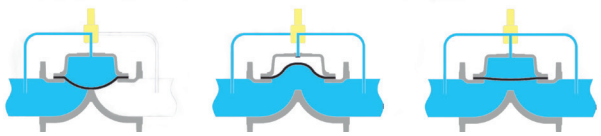
Features

- Easy use and maintenance due to simple degign
- Operation in wide pressure range
- Perfect modulation even in lower flow rates
- Anti-surge closing and opening with flexible diaphragm
- Full tightness thanks to reinforced diaphragm and inner spring
- Long life with epoxy-polyester coating
- Wide control application range by using different pilot valves
- Operation in both horizontal and vertiacal positions in application area
- No need to extra energy by running on pressure network
- Easy and zero adjustment to damanded pressure
- Pressure reduction without being affected by pressure and flow changes in network
- Manual switch on/off
- Easy maintenance provides minimum pressure loss and free in open valve at demanded flow amounts.
- Easy use and maintenance in operation for a long time due to its corrosion resistant components.
- Performs prrfect modulation in variable flows and even too low flow rates close to zero.
- Both inside & outside are coated with epoxy resin powder. Epoxy coating epoxy thickness = 300µm

Temperature

- 80 °C

Working Principle



CLOSED OPEN MODULATION

Product Description

APR700 Pressure Reducing Control Valve regulates the outlet pressure. The pilot installed on it adapts high inlet pressure to stay fixed as demanded outlet pressure value. It is not affected by pressure and flow changes. Automatically, quietly and smoothy control downstream pressure.

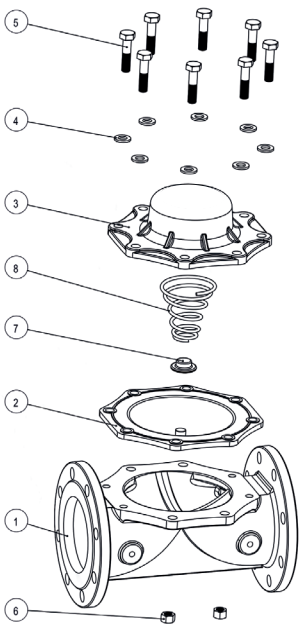
Adjustment

Small globe valve on outlet side is closed on main valve. When pilot valve tappet on the valve is rotated clockwise, adjusting pressure rises and when rotated counterclockwise, adjusting pressure decreases. Small globe valve on outlet side is opened by screwing the lock nut under the adjusting bolt when demanded pressure value is maintained.

Scope of Application

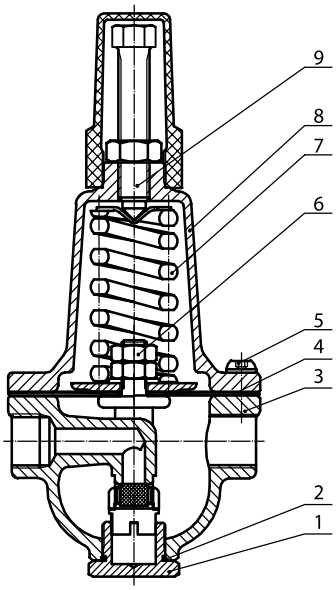
- Agricultural irrigation
- Supply of water fire extinguishing
- Various applications of industrial systems.
- Oil & gas applications

PRESSURE REDUCING VALVE - APR 700



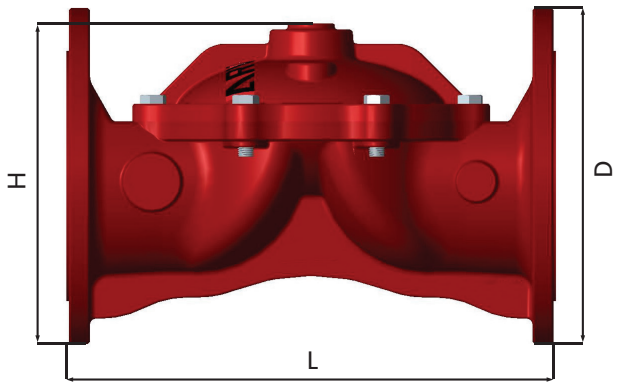
NO	ITEM	MATERIALS
1	BODY	EN-GJL-500 CAST IRON (GGG50)
2	DIAPHRAM	Natural rubber + Nylon fabric
3	COVER	EN-GJL-500 CAST IRON (GGG50)
4	WASHER	Stainless Steel
5	BOLT	Steel
6	NUT	Steel
7	SPRING THRUST RING	POLYAMID
8	SPRING	Stainless Steel

VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		



NO	ITEM	MATERIALS
1	SCREW PLUG	Stainless Steel
2	O-RING	Rubber
3	BODY	Stainless Steel
4	DIAPHRAGM	Rubber + Nylon Fabric
5	SCREW	Stainless Steel
6	NUT	Stainless Steel
7	MAIN SPRING	Stainless Steel
8	BONNET	Stainless Steel
9	BOLT	Stainless Steel

Model	DN (mm)	L	D	H
APR700-50	50	204	168	165
APR700-65	65	206	185	185
APR700-80	80	290	200	200
APR700-100	100	296	220	220
APR700-125	125	314	250	250
APR700-150	150	413	285	321
APR700-200	200	470	340	403



PRESSURE REDUCING VALVE - APR 710

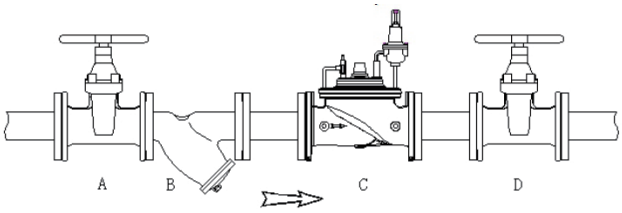
PRODUCTION STANDARDS

DN50 / DN200
PN 16

Design	BS EN 1567, EN1074-5
Connection	BS EN 1092-2, ISO5208
Marking	EN19
Tests	EN12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Features

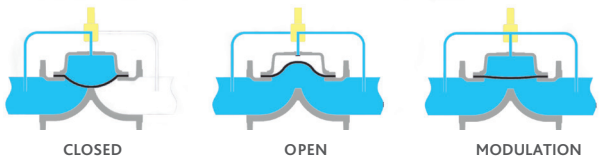
- All iron components are fusion epoxy bonded for corrosion resistance.
- Easy maintence without removal from the main line.
- Nylon reinforced diaphragm for long term sevice.
- Drip tight shut off.
- Globe design for superior control characteristics.
- Ductile iron bodies for higher strength and durability.
- Corrosion resistant stainless steel seat and disc retainer ring.
- Various pilots and accessories available for configuration into many different applications.
- Special V-Port and double chamber are options, please consult factory.
- Meet standards BS EN 1074-5, ISO 5208, BS EN 12266-1, BS EN 558-1



Temperature

- 80 °C

Working Principle



Product Description

APR710 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. The valve is an accurate, pilot-operated regular capable of holding downstream pressure to a re-determined limit. When downstream pressure exceeds the pressure setting of the control pilot, the man valve and pilot valve close drip-tight.

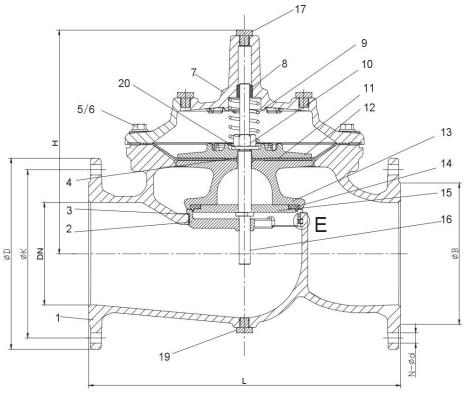
Adjustment

Small globe valve on outlet side is closed on main valve. When pilot valve tappet on the valve is rotated clockwise, adjusting pressure rises and when rotated counterclockwise, adjusting pressure decreases. Small globe valve on outlet side is opened by screwing the lock nut under the adjusting bolt when demanded pressure value is maintained.

Scope of Application

- Agricultural irrigation
- Supply of water fire extinguishing
- Various applications of industrial systems.
- Oil & gas applications

PRESSURE REDUCING VALVE - APR 710



NO	DESCRIPTION	MATERIALS	STANDARD
1	BODY	Ductile Iron	GJS 500-7
2	SEAT	Stainless Steel	AISI 304/316
3	O-RING	Rubber	NBR
4	O-RING	Rubber	NBR
5	BOLT	Stainless Steel	A2/A4
6	WASHER	Stainless Steel	A2/A4
7	BONNET	Ductile Iron	GJS 500-7
8	BUSH	Bronze	C61900
9	SPRING	Stainless Steel	AISI 304/316
10	CAULKING NUT	Stainless Steel	A4
11	DIAPHRAGM	Nylon Reinforced Rubber	EPDM + Nylon Fabric
12	FIXING HOLDER	Ductile Iron	GJS 500-7
13	DISC HOLDER	Ductile Iron	GJS 500-7
14	SEAL	Rubber	EPDM
15	SEAT RETAINER	Stainless Steel	AISI 304/316
16	STEM	Stainless Steel	AISI 304/316
17	PLUG	Stainless Steel	AISI 304/316
18	SCREW	Stainless Steel	A2/A4
19	PLUG	Stainless Steel	A2/A4
20	WASHER	Stainless Steel	A2/A4

Model	DN (mm)	L	ØD	ØK	H	N-Ød	ØB
APR710-50	50	230	165	125	177	4-Ø19	Ø99
APR710-65	65	290	185	145	202	4-Ø19	Ø118
APR710-80	80	310	200	160	219	8-Ø19	Ø132
APR710-100	100	350	220	180	243	8-Ø19	Ø156
APR710-125	125	400	250	210	243	8-Ø19	Ø156
APR710-150	150	480	285	240	333	8-Ø23	Ø211
APR710-200	200	600	340	295	428	12-Ø28	Ø266

QUICK PRESSURE RELIEF VALVE - AQR 750

PRODUCTION STANDARDS

DN50 / DN200
PN 16

Design	BS 5163-2, EN1074-5
Connection	BS EN 1092-2, ISO7005-2
Marking	EN19
Tests	EN12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Features

- Due to rubber diaphragm in closed valve, it ensures positive seal.
- Provides minimum pressure loss and free flow in open valve at demanded flow amounts.
- The only moving part that regulates open/closed and modulation positions in valve is the diaphragm.
- Line pressure in valve can be controlled by exterior pressure weld equivalent to line pressure.
- Easy use and maintenance due to simple design
- There is no corroding shaft
- Does not require maintenance in operation for a long time due to its corrosion resistant components.
- Performs perfect modulation in variable flows and even too low flow rates close to zero.
- Has a wide range of application with use of different pilot valves.
- Both inside & outside are coated with epoxy resin powder. Epoxy coating epoxy thickness = 300µm

Control by a pilot valve bound to the valve

- Open Position:Trapped pressure in the actuator suppresses the pressure on the diaphragm and valve is opened when the relief port on pilot valve is completely opened.
- Modulation Position:Pilot valveensures the diaphragm to stay in a fixed position in adjusting position by balancing the pressure and flow in and out of the actuator

Temperature

- 80 °C

Working Principle

Product Description

AQR750 Quick Pressure Relief Control Valve is the safety cpmtrol valve designed to protect system by releasing pressure surges to atmosphere quickly caused from sudden changes in water speed because pumps put into/out of service frequently in water network elevation lines. When network pressure goes beyond set point, valve opens by itself quickly and protect system by releasing over pressure. When line pressure decreases to normal level, it is closed slowly and automatically as wholly sealed without causing surge.

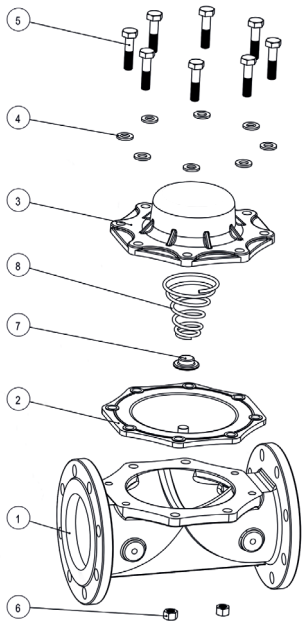
Working Principle

- Closed Position: Flow over the actuator is provided by inlet port or an exterior pressure supplier and va ive is closed by applying pressure onto the diaphragm.
- Open Position: Once the trapped pressure in va ive actuator is relieved, interior line pressure moves the diaphragm upward, valve is opened and free flow is provided.
- Modulation Position: lt ensures the diaphragm to stay in a fixed position by balancing the flow in and out of the actuator

Scope of Application

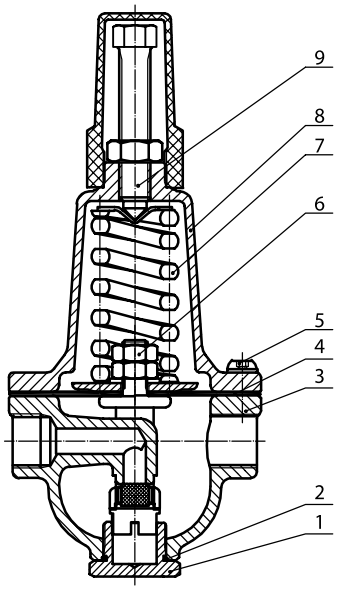
- Agricultural irrigation
- Supply of water fire extinguishing
- Various applications of industrial systems.
- Oil & gas applications

QUICK PRESSURE RELIEF VALVE - AQR 750



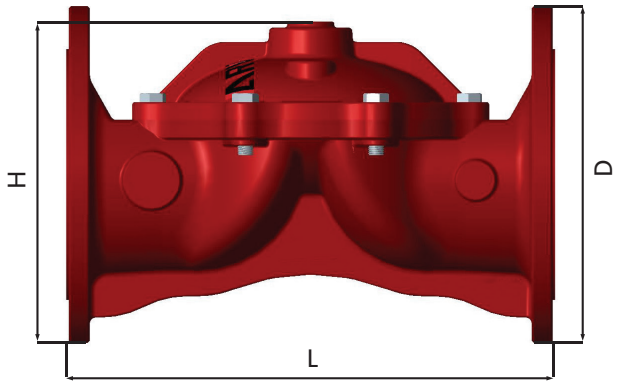
NO	ITEM	MATERIALS
1	BODY	EN-GJL-500 CAST IRON (GGG50)
2	DIAPHRAM	Natural rubber + Nylon fabric
3	COVER	EN-GJL-500 CAST IRON (GGG50)
4	WASHER	Stainless Steel
5	BOLT	Steel
6	NUT	Steel
7	SPRING THRUST RING	POLYAMID
8	SPRING	Stainless Steel

VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		



NO	ITEM	MATERIALS
1	SCREW PLUG	Stainless Steel
2	O-RING	Rubber
3	BODY	Stainless Steel
4	DIAPHRAGM	Rubber + Nylon Fabric
5	SCREW	Stainless Steel
6	NUT	Stainless Steel
7	MAIN SPRING	Stainless Steel
8	BONNET	Stainless Steel
9	BOLT	Stainless Steel

Model	DN (mm)	L	D	H
AQR750-50	50	204	168	165
AQR750-65	65	206	185	185
AQR750-80	80	290	200	200
AQR750-100	100	296	220	220
AQR750-125	125	314	250	250
AQR750-150	150	413	285	321
AQR750-200	200	470	340	403

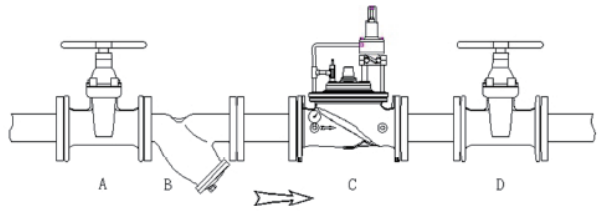


QUICK PRESSURE RELIEF/SUSTAINING VALVE - AQR 760

PRODUCTION STANDARDS	
DN50 / DN200 PN 16	
Design	BS EN 1567, EN1074-5
Connection	BS EN 1092-2, ISO5208
Marking	EN19
Tests	EN12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Features

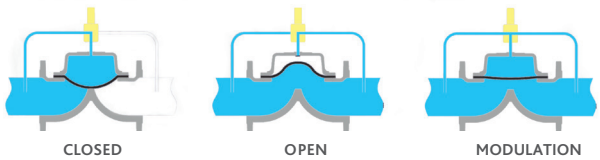
- All iron components are fusion epoxy bonded for corrosion resistance.
- Easy maintence without removal from the main line.
- Nylon reinforced diaphragm for long term sevice.
- Drip tight shut off.
- Globe design for superior control characteristics.
- Ductile iron bodies for higher strength and durability.
- Corrosion resistant stainless steel seat and disc retainer ring.
- Various pilots and accessories available for configuration into many different applications.
- Special V-Port and double chamber are options, please consult factory.
- Meet standards BS EN 1074-5, ISO 5208, BS EN 12266-1, BS EN 558-1



Temperature

- 80 °C

Working Principle



Product Description

AQR760 Pressure Sustaining/Relief Valve is a hydraulically operated, pilot-controlled, modulating valve designed to maintain constant upstream pressure within close limit. This valve can be used for pressure relief, pressure sustaining, and back pressure funcion in a by-pass system. In operation, the valve is actuated by line pressure through a pilot control system, opening fast to maintain steady line pressure but closing gradually to prevent surges. Operation is completely automatic and pressure settings maybe easily changed by adjusting screw on top of the pilot.

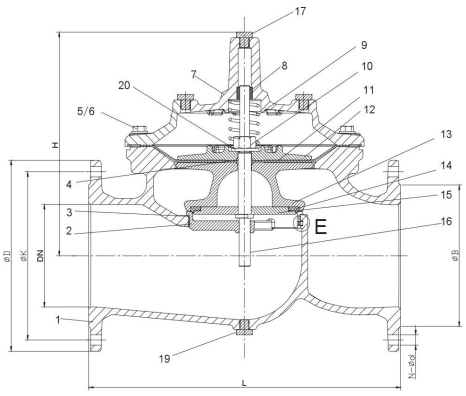
Adjustment

Small globe valve on outlet side is closed on main valve. When pilot valve tappet on the valve is rotated clockwise, adjusting pressure rises and when rotated counterclockwise, adjusting pressure decreases. Small globe valve on outlet side is opened by screwing the lock nut under the adjusting bolt when demanded pressure value is maintained.

Scope of Application

- Agricultural irrigation
- Supply of water fire extinguishing
- Various applications of industrial systems.
- Oil & gas applications

QUICK PRESSURE RELIEF/SUSTAINING VALVE - AQR 760



NO	DESCRIPTION	MATERIALS	STANDARD
1	BODY	Ductile Iron	GJS 500-7
2	SEAT	Stainless Steel	AISI 304/316
3	O-RING	Rubber	NBR
4	O-RING	Rubber	NBR
5	BOLT	Stainless Steel	A2/A4
6	WASHER	Stainless Steel	A2/A4
7	BONNET	Ductile Iron	GJS 500-7
8	BUSH	Bronze	C61900
9	SPRING	Stainless Steel	AISI 304/316
10	CAULKING NUT	Stainless Steel	A4
11	DIAPHRAGM	Nylon Reinforced Rubber	EPDM + Nylon Fabric
12	FIXING HOLDER	Ductile Iron	GJS 500-7
13	DISC HOLDER	Ductile Iron	GJS 500-7
14	SEAL	Rubber	EPDM
15	SEAT RETAINER	Stainless Steel	AISI 304/316
16	STEM	Stainless Steel	AISI 304/316
17	PLUG	Stainless Steel	AISI 304/316
18	SCREW	Stainless Steel	A2/A4
19	PLUG	Stainless Steel	A2/A4
20	WASHER	Stainless Steel	A2/A4

Model	DN (mm)	L	ØD	ØK	H	N-Ød	ØB
AQR760-50	50	230	165	125	177	4-Ø19	Ø99
AQR760-65	65	290	185	145	202	4-Ø19	Ø118
AQR760-80	80	310	200	160	219	8-Ø19	Ø132
AQR760-100	100	350	220	180	243	8-Ø19	Ø156
AQR760-125	125	400	250	210	243	8-Ø19	Ø156
AQR760-150	150	480	285	240	333	8-Ø23	Ø211
AQR760-200	200	600	340	295	428	12-Ø28	Ø266

ALARM CHECK VALVE - AAL 800

PRODUCTION STANDARDS

DN50 / DN200
PN 16

Design	BS 4504, EN1074-5
Connection	Flanged as ANSI B16.1 / EN 1092-2
Marking	EN19
Tests	Factory Hydro test 350 psi
Corrosion Protection	Electrostatic Powder Epoxy

Valve operation

- When a sprinkler head or a test valve is opened, pressure in the system side of the clapper is reduced below the pressure of the system side. Then the clapper raises allowing the flow of water to reach the sprinkler system for distribution on the fire. The water flows to the uncovered grooved into the retard chamber (if installed) and the alarm device (usually the water motor gong).
- A pressure surge or a water hammer in the supply line will induce an intermittent raise of the clapper and consequently false alarms.
- To prevent these troubles, Rolland alarm stations are equipped with two particular features:
- A by-pass with check valve allows a pressure surge from the supply to pass the alarm valve clapper.
- The retard chamber consists of two specially designed inlet and drain orifices. The retard chamber is equipped with a strainer in the intake line to prevent foreign matter from clogging the intake orifice. Even if a strong water hammer raises the alarm valve clapper, the water will first flow to the retard chamber before reaching the water motor gong.
- Be careful to the installation of the check valve on the alarm station trimming to be sure that the water flow goes in the right direction. The arrow on the check valve by pass body must point toward the alarm valve. The arrow on the drain system check valve must point towards the main drain valve.

Temperature

- 80 °C

Product Description

AAL800 - Alarm Check Valve is core element in wet pipe fire sprinkler systems. It serves a dual purpose which prevents a reverse flow of water (non-return), also provides for the use of the water motor gong. Meanwhile, in the event of variable pressure condition, false alarm is prevented with provision of retard chamber at the external bypass.

The AAL800 - Alarm Check Valve Trim includes pressure gauges to monitor system pressure conditions, a bypass check valve, a main drain valve, and an alarm test valve. The bypass check valve reduces the possibility of false alarms by permitting slow as well as small transient increases in water supply pressure to be passed through to the system without opening the water-way clapper.

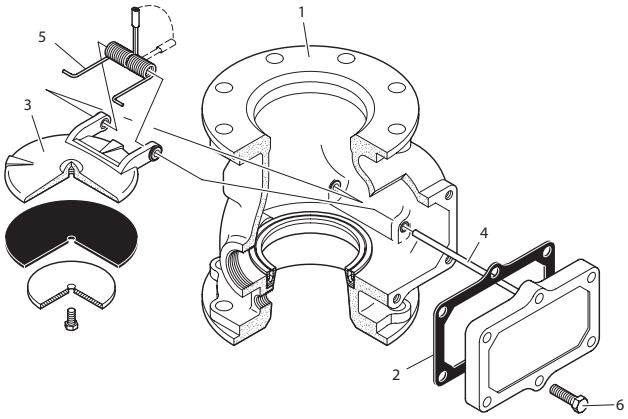
Accessories

- Wet Alarm Body
- Retarding Chamber
- Water Gong
- Pressure Switch

Scope of Application

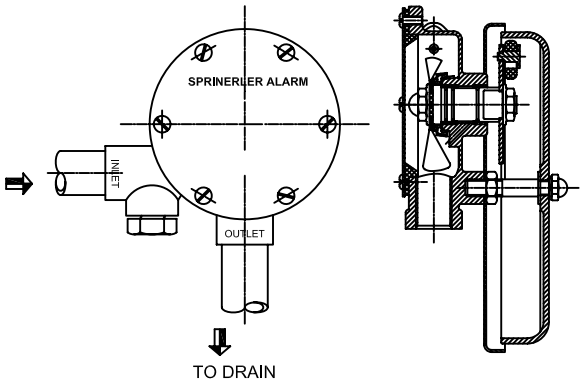
- Warehouses
- Factories
- Hospitals
- Shopping centers
- High buildings and residences

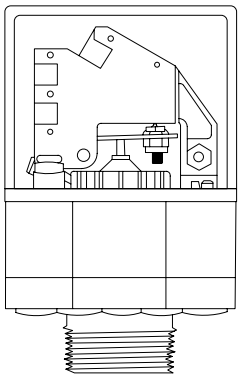
ALARM CHECK VALVE - AAL 800

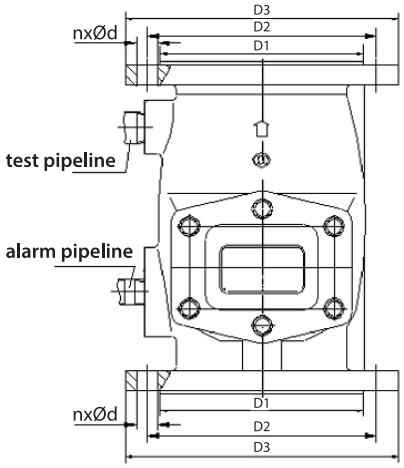


NO	ITEM	MATERIALS
1	BODY	Ductile Iron as A536
2	GASKET	NBR
3	CLAPPER	Ductile Iron
4	HINGE PIN	Stainless Steel
5	CLAPPER SPRING	Stainless Steel
6	BOLT	Steel

VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		







Model	DN (mm)	H	D1	D2	D3	nxØd
AAL800-65	65	210	120	145	185	4 X 18
AAL800-80	80	235	135	160	200	8 X 18
AAL800-100	100	235	160	180	220	8 X 18
AAL800-125	125	265	185	210	250	8 X 18
AAL800-150	150	265	210	240	285	8 X 22
AAL800-200	200	290	265	295	340	12 X 22

DELUGE VALVE - ADL 850

PRODUCTION STANDARDS

DN50 / DN200
PN 16

Design	BS 5163-2, EN1074-5
Connection	BS EN 1092-2, ISO7005-2
Marking	EN19
Tests	EN12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Features

- One-piece molded elastomeric moving part – No maintenance required
- In-line serviceable, field replaceable internal parts
- Obstacle free, full bore
- Available in corrosion resistant materials
- Designed to be reset without opening the valve
- Compatible with electric/hydraulic/pneumatic release and pressure control trim systems
- The design of the ADL 850 valve body includes a single, full bore seat with unobstructed flow path, free of any in-line ribs, supporting cage, or shafts.
- The unique hydro-dynamic globe design provides high flow capabilities with minimum head loss. The cover is removable via four (4) fastening bolts (up to 10") for quick in-line inspection and servicing.
- The internal design of the ADL 850 valve is based on innovative technology using advanced rubber-based materials to achieve a solid, one-piece, elastomeric assembly including flexible fiber reinforced diaphragm, vulcanized with a rugged radial seal disk, and together providing resilient, drip-tight sealing. The elastomeric assembly is carefully balanced and peripherally supported to avoid tension and protect the elastomer, resulting in long-life, controlled actuation, even under harsh conditions.
- The elastomeric assembly can be easily removed from the valve body with no need for disassembling the valve from the line.

Temperature

- 80 °C

Product Description

ADL850 - Deluge Valves are elastomeric - type globe valves that are rolling-diaphragm actuated, with an integral, solid, resilient seal. These automatic water control valves are designed for vertical or horizontal installation and are available in diameter sizes from DN65 to DN200.

ADL850 Deluge Valves are used for water flow control in Deluge, Combination Pressure Control Deluge, Preaction or Water/Foam systems, and are manufactured from various materials and coatings to suit all kind of industrial specifications.

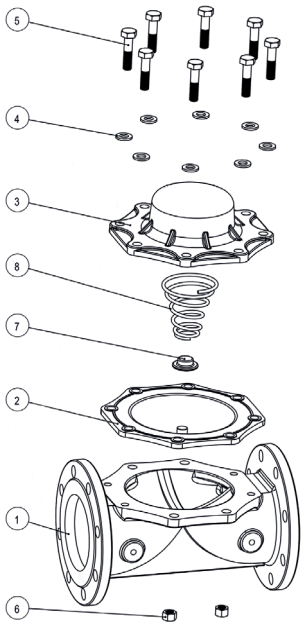
Accessories

- The ADL850 Deluge Valves are trimmed with the original components and accessories per specification and in accordance with valve functions and applications.
- Where additional specifications and/or signaling devices are required for a specific application, refer to system data for the system used, and to the ADL850 data sheet and Installation, Operation & Maintenance for specific model required.

Scope of Application

- Agricultural irrigation
- Supply of water fire extinguishing
- Various applications of industrial systems.
- Oil & gas applications

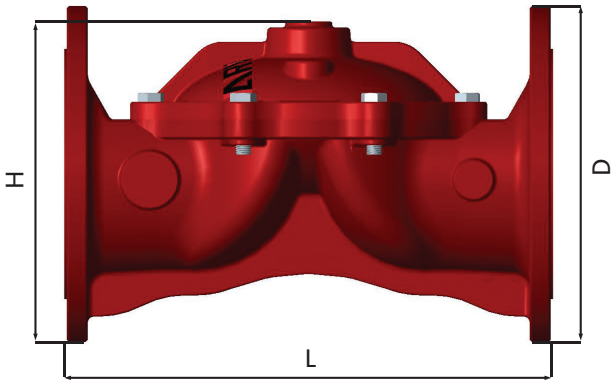
DELUGE VALVE - ADL 850



NO	ITEM	MATERIALS
1	BODY	EN-GJL-500 CAST IRON (GGG50)
2	DIAPHRAM	Natural rubber + Nylon fabric
3	COVER	EN-GJL-500 CAST IRON (GGG50)
4	WASHER	Stainless Steel
5	BOLT	Steel
6	NUT	Steel
7	SPRING THRUST RING	POLYAMID
8	SPRING	Stainless Steel

VALVE TEST PRESSURE (Bar)		
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17.6
100% of the valves are subjected to hydrostatic tests at ARV facilities.		

Model	DN (mm)	L	D	H
ADL850	50	204	168	165
ADL850	65	206	185	185
ADL850	80	290	200	200
ADL850	100	296	220	220
ADL850	125	314	250	250
ADL850	150	413	285	321
ADL850	200	470	340	403



INDOOR FIRE HYDRANT - AIF 900

PRODUCTION STANDARDS

DN50 / DN65
PN 16

Body	EN-GJS-500 Ductile Iron (GGG50)
Handwheel	Cast Iron, BS 1452
Inlet	Threaded connection
Outlet	Threaded connection or coupling connection
Marking	EN19
Tests	EN12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Features

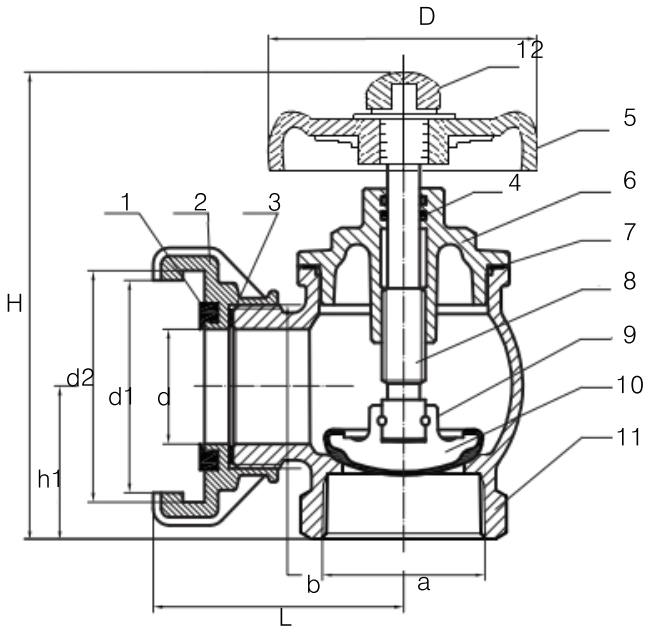
- Ductile iron made, more stronger and last longer.
- Ductile iron seat coated with powder epoxy and the rubber vulcanized on the wegde, can last long and no wearing. Epoxy coating thickness = 300µm
- The handwheel is made of ductile iron, high grade, bonded.
- Stainless steel shaft, high strength, no corrostion, durability.

Temperature

- 80 °C

Product Description

AIF900 Indoor Fire Hydrant is a kind of fire fighting faucet installed in the box. It is used for firemen to put out the fire during emergency.



NO	ITEM	MATERIALS
1	O-Ring	EPDM
2	Adaptor	Aluminum
3	O-Ring	EPDM
4	O-Ring	EPDM
5	Handwheel	Ductile Iron
6	Bonnet	Ductile Iron
7	O-Ring	EPDM
8	Shaft	Stainless steel
9	Pin	Stainless steel
10	Disc	Ductile Iron + EPDM
11	Body	Ductile Iron
12	Screw	Stainless steel

Model	DN (mm)	L	d	d1	d2	h1	H	D
AIF900-50	50	92	43	77	84	56	168	100
AIF900-65	65	102	57	93	102	63	175	100