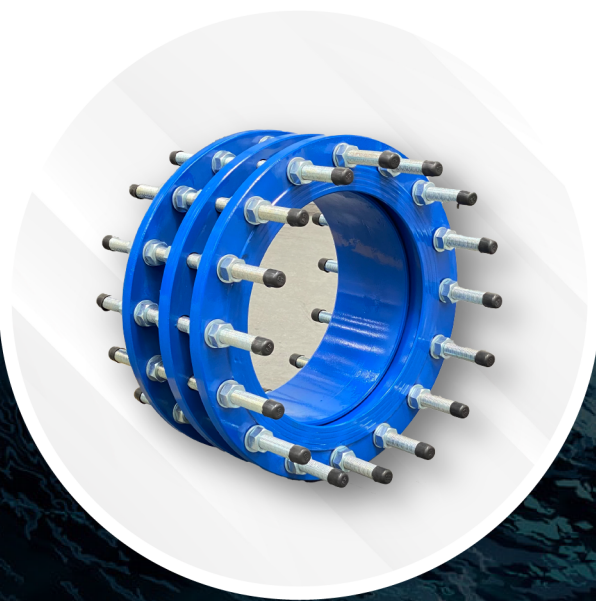




VALVE MASTERS

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MV-100

RESILIENT SEATED GATE VALVE

Production Standards

Size Range	DN50 - DN800
Pressure Range	PN10 - PN16
Design	EN 1171/ EN1074
Connection	EN 1092-2 ISO 7005 Flanged
Face to Face	EN 558 Series 14 / DIN 3202 F4
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic/ThermoPlastic Powder Epoxy
Temperature	+130 °C (EPDM)



100

Product Description

Resilient-Seated Gate Valve with bolted cover connection and face-to-face length of Basic Series 14 for water applications. Proven Design to ensure zero leakage and long service life.

Application Areas

- Hot and Cold Water Systems
- Waste water
- Water treatment
- Pumping stations
- Industry

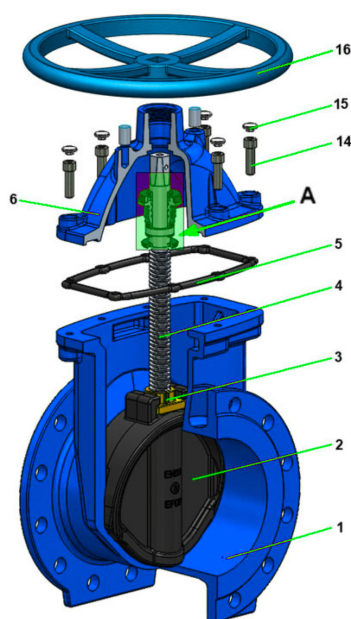
Accessories

- Handwheel
- Operation Cap
- Gearbox
- Electrical Actuator
- Extension spindle



Product Features

- EPDM covered wedge guarantees %100 tight sealing
- Full bore provides low head loss and enables use of pipe cleaning devices
- Rolled threads increase the stem's durability
- Low operating torques ensure easy operation
- Wedge stop protects seals and coating
- Suitable for vacuum conditions
- Maintenance-free and corrosion-resistant multi stem O-rings ensures higher durability
- Full coating on the body and disc internally & externally with an average of 250 microns. Higher coating thicknesses are available when required.
- WRAS approved coating available upon request which meets hygienic requirements for potable water applications.

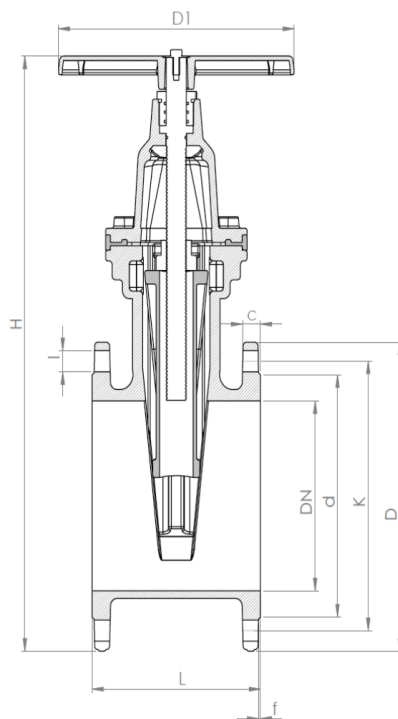


No	Part	Material
1	Body	Ductile Iron
2	Wedge	EPDM coated ductile iron
3	Stem Nut	Brass
4	Stem	Stainless steel 420
5	Joint	EPDM
6	Bonnet	Ductile Iron
7	Joint	EPDM
8	Bearing	PTFE

No	Part	Material
9	O ring	EPDM
10	O ring	EPDM
11	Stem Gasket	EPDM
12	Dust Protection	NBR
13	Nut	Brass
14	Screw	Stainless steel 304
15	Wax Plug	
16	Handwheel	Ductile Iron



Technical Data



PN10									
DN	f	D	K	d	C	I*n	L	H	D1
50	3	165	125	99	19	19*4	150	300	180
65	3	185	145	118	19	19*4	170	340	180
80	3	200	160	132	19	19*8	180	380	180
100	3	220	180	156	19	19*8	190	420	220
125	3	250	210	184	19	19*8	200	480	220
150	3	285	240	211	19	23*8	210	550	250
200	3	340	295	266	20	23*8	230	640	250
250	3	405	350	319	22	23*12	250	780	350
300	4	460	400	370	24,5	23*12	270	850	350
350	4	505	460	429	24,5	23*16	290	910	400
400	4	565	515	480	24,5	28*16	310	960	400
450	4	640	565	530	26,5	28*20	330	1010	500
500	4	670	620	582	26,5	28*20	350	1120	500
600	5	780	725	682	30	31*20	390	1200	600

PN16									
DN	f	D	K	d	C	I*n	L	H	D1
50	3	165	125	99	19	19*4	150	300	180
65	3	185	145	118	19	19*4	170	340	180
80	3	200	160	132	19	19*8	180	380	180
100	3	220	180	156	19	19*8	190	420	220
125	3	250	210	184	19	19*8	200	480	220
150	3	285	240	211	19	23*8	210	550	250
200	3	340	295	266	20	23*12	230	640	250
250	3	405	355	319	22	28*12	250	780	350
300	4	460	410	370	24,5	28*12	270	850	350
350	4	520	470	429	26,5	28*16	290	910	400
400	4	580	525	480	28	31*16	310	960	400
450	4	640	585	548	30	31*20	330	1010	500
500	4	615	650	609	31,5	34*20	350	1120	500
600	5	840	770	720	36	37*20	390	1200	600

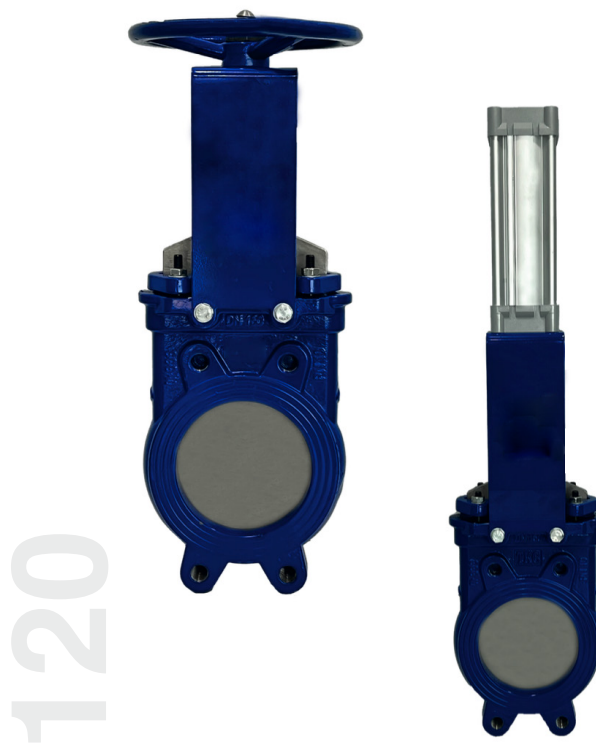


MV-120

KNIFE GATE VALVE

Production Standards

Size Range	DN50 - DN600
Pressure Range	PN10
Connection	EN 1092-2 / ISO 7005-2
Face to Face	EN 558 Series
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic Powder Epoxy
Temperature	+50 °C (NBR)



Product Description

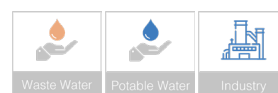
MV-120 Knife Gate Valve works by allowing thick medium to easily flow over soft seals with no trespassing. They work by chopping up the medium as it passes through the valve. This makes it easier for the valve to handle thick flows of medium including grease, oils, slurry, waste water and paper pulp. Due to this, knife gate valves have low pressure limitations and are designed to seat the blade into a soft seal without disruption.

Application Areas

- Slurry fluids
- Industrial application
- Waste water
- Water treatment plants
- Seawater applications
- Hot and cold water
- Pumping stations
- Tanks

Accessories

- Surface box cast iron
- Flange adaptors
- Telescopic extension spindle
- Dismantling joints
- Handwheels

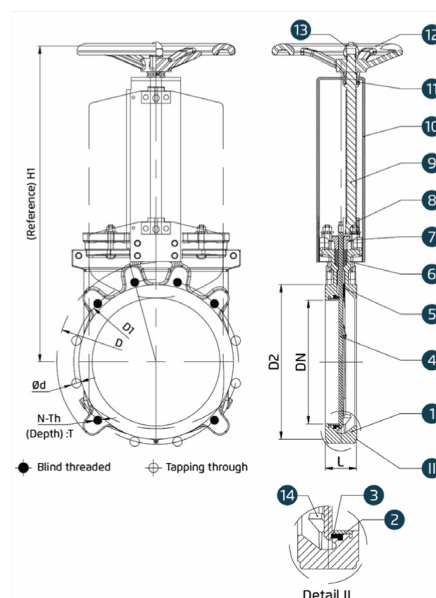




Product Features

- Uni-directional and Bi-directional.
- Suitable for liquids that contain a maximum of 5% suspended solids
- Full bore for greater flow capacity and minimal pressure drop
- IV-120 is a rising stem type model and non-rising stem model is also available.
- EPDM rubber gasket seat is inserted inside the body cavity
- Brass stem nut provides fixation of the stem and low torques
- Stainless steel gate polished both sides to avoid jamming and seat damage.
- Slim design and low weight
- Due to design, operating pressure is lower than nominal pressure for larger diameters.

No	Part	Material
1	Body	GGG40
2	Seat	EPDM
3	Steel Ring	SS304
4	Disc	SS304
5	Guide Pad	PTFE
6	Packing	PTFE
7	Packing Gland	WCB
8	Nut	Brass
9	Stem	2Cr13(SS420)
10	Yoke	Q235(Cr.D)
11	Bearing	Gcr15
12	Handwheel	GGG40
13	Cap	Q235(Cr.D)
14	Wedge	GGG40



DN	L	D	D1	D2	D0	N-Th	T	●	⊕	d	H1
50	48	165	125	99	180	4-M16	12	2	2	Ø18	292
65	48	185	145	118	200	4-M16	12	2	2	Ø18	320
80	51	200	160	132	200	8-M16	12	2	6	Ø18	348
100	51	220	180	156	240	8-M16	12	2	6	Ø18	395
125	57	250	210	184	260	8-M16	14	2	6	Ø18	450
150	57	285	240	211	280	8-M20	14	2	6	Ø23	504
200	70	340	295	266	300	8-M20	18	2	6	Ø23	617
250	70	395	350	319	320	12-M20	18	4	8	Ø23	758
300	76	445	400	370	350	12-M20	20	6	6	Ø23	857
350	76	505	460	429	400	16-M20	20	10	6	Ø23	946
400	89	565	515	480	450	16-M20	24	10	6	Ø27	1023
500	114	670	620	582	450	20-M24	27	14	6	Ø27	1210



MV-200

SINGLE ORIFICE AIR RELEASE VALVE

Production Standards

Size Range	DN50 - DN200
Pressure Range	PN10 - PN16
Design	EN1074-4
Connection	EN 1092-2 ISO 7005-2
Marking	EN 19
Tests	EN 12266
Coating	Electrostatic Powder Epoxy
Temperature	+130 °C



200

Product Description

MV-200 Single Orifice Valves have one air inlet and outlet. They are very useful to vent small quantities of accumulated air out of the pipe during emptying and refilling the pipeline due to maintenance works and after installation.

Application Areas

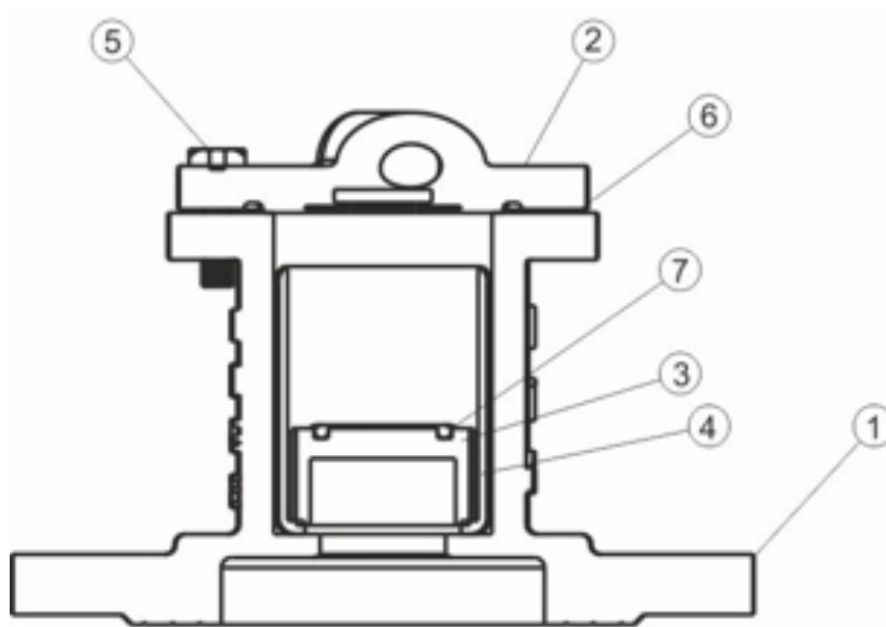
- Water transmission
- Water distribution
- Pump suction line
- Peaks and bottom points
- Next to by-pass valve

Product Features

- Float parts made of polyethylene which increases the corrosion resistance.
- Do not have vacuum function.
- Body and cover of ductile iron with flanged connection.
- Fully coated body and bonnet meets the hygienic requirements of the potable water networks.
- During pipeline services, it enables the air accumulation and discharge out of pipeline.
- Working pressure range 0.2 - 16 bar.



Technical Data



No	Part	Material
1	Body	GG25 Cast Iron / GGG50 Ductile Iron
2	Cover	GG25 Cast Iron / GGG50 Ductile Iron
3	Disc	Polyethylene
4	Disc Container	Polyethylene
5	Cover Connection Bolt	8.8 Galvanized Steel
6	Cover Gasket	EPDM
7	Disc O-Ring	EPDM

DN	PN	D	K	d	lxn	f	b	H	Kg
50	10/16	165	125	99	19x4	3	20	227	8
65	10/16	185	145	118	19x4	3	20	229	9
80	10/16	200	160	132	19x8	3	20	236	13
100	10/16	220	180	156	19x8	3	24	236	15
125	10/16	250	210	184	19x8	3	26	372	26
150	10/16	285	240	211	23x8	3	26	372	27
200	10	340	295	266	23x8	4	26	372	30
200	16	340	295	266	23x12	4	30	372	30

MV-210

DOUBLE ORIFICE AIR RELEASE VALVE

Production Standards

Size Range	DN50 - DN200
Pressure Range	PN10 - PN16
Design	EN1074-4
Connection	EN 1092-2 ISO 7005-2
Marking	EN 19
Tests	EN 12266
Coating	Electrostatic Powder Epoxy
Temperature	+130 °C

210



Product Description

MV-210 Double Orifice Valves have one air inlet and outlet. The air inlet small orifice chamber is assigned for releases small volumes of air and big orifice for inlet relief of large volumes of air during emptying and refilling the pipeline due to maintenance works and after installation.

Application Areas

- Water transmission
- Water distribution
- Pump suction line
- Next to by-pass valve

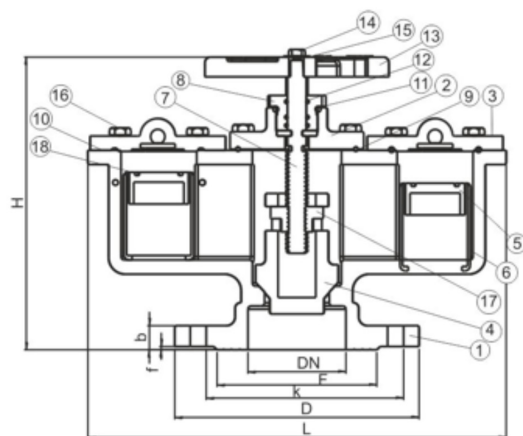
Product Features

- Have two chambers.
- Float parts made of polyethylene which increase the corrosion resistance.
- Do not have vacuum function.
- Body and cover of ductile iron with flanged connection.
- Fully coated body and bonnet meets the hygienic requirements of the potable water networks.
- During pipeline services, it enables the air accumulation and discharge out of pipeline.
- Working pressure range 0.2 - 16 bar.





Technical Data



No	Part	Material
1	Body	GG25 Cast Iron / GGG50 Ductile Iron
2	Mid-Cap	GG25 Cast Iron / GGG50 Ductile Iron
3	Cover Side	GG25 Cast Iron / GGG50 Ductile Iron
4	Slide	GGG50 Ductile Iron
5	Disc	Polyethylene
6	Disc Container	Polyethylene
7	Shaft	AISI 420 Stainless Steel
8	Ragor	GGG50 Ductile Iron
9	Mid-Gap Gasket	EPDM

No	Part	Material
10	Cover Gasket	EPDM
11	Cover O-Ring	EPDM
12	Ragor O-Ring	EPDM
13	Handwheel	GG25 Cast Iron / GGG50 Ductile Iron
14	Handwheel Bolt	8.8 Galvanized Steel
15	Handwheel Washer	Sheet
16	Bolt Nut	8.8 Galvanized Steel
17	Movement Nut	MS58 Brass
18	Disc O-Ring	EPDM

DN	PN	D	K	d	lxn	f	b	H
50	10/16	165	125	99	19x4	3	20	275
65	10/16	185	145	118	19x4	3	20	275
80	10/16	200	160	132	19x8	3	20	280
100	10/16	220	180	156	19x8	3	24	280
125	10/16	250	210	184	19x8	3	26	280
150	10/16	285	240	211	23x8	3	26	400
200	10	340	295	266	23x8	4	26	400
200	16	340	295	266	23x12	4	30	400



MV-220

DYNAMIC TRIPLE FUNCTION ARV

Production Standards

Size Range	DN50 - DN250
Pressure Range	PN10 - PN16
Design	EN1074-4
Connection	EN 1092-2 ISO 7005-2
Marking	EN 19
Tests	EN 12266
Coating	Electrostatic Powder Epoxy
Temperature	+130 °C



220

Product Description

MV-220, the purpose of such type of air valve is to protect a pipeline from damages, associated with water hammer, flow reduction, or pressure fluctuations by releasing the air from the water supply line or letting it in.

Application Areas

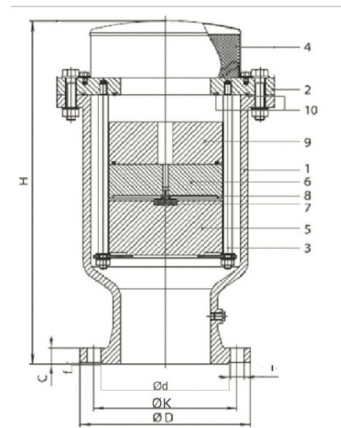
- Water transmission
- Plunger and turbine pumps
- Water distribution
- Pump suction line
- Peaks points on pipeline

Product Features

- Efficient ventilation protects pipeline from vacuum related damages.
- Air outlet diameter and the inlet diameter have the same size.
- Prevents the early closure problem.
- Main three functions are realizing air particles under pressure, air vacuum while emptying the pipeline and air release during filling the pipeline.
- Compact body design and low weight provides advantage during installation and operation.
- HDPE float parts are highly resistant to corrosions.
- Stainless steel internal parts are excellent for corrosion protection.
- Ductile body with flanged connection.
- Screwed end air release valves can be manufactured for special orders.



Technical Data



No	Part	Material
1	Body	GGG50 Ductile Iron
2	Bonnet	GGG50 Ductile Iron
3	Float Guide	Stainless Steel
4	Top Bonnet	Stainless Steel
5	Float	HDPE
6	Float	HDPE
7	Small Orifice Seal	EPDM
8	Small Orifice	Stainless Steel
9	Float	HDPE
10	O-Ring	EPDM

Technical Data

DN	PN	D	K	d	f	C	l _{xn}	H	Kg
50	10/16/25	165	125	99	3	20	Ø19x4	267	11
65	10/16/25	185	145	118	3	20	Ø19x4	267	11,5
80	10/16/25	200	160	132	3	22	Ø19x8	310	17
100	10/16	220	180	156	3	24	Ø19x8	324	24,5
100	25	235	190	156	3	28	Ø23x8	328	26
125	10/16	250	210	184	3	26	Ø19x8	326	25
125	25	270	220	184	3	30	Ø28x8	330	28
150	10/16	285	240	211	3	26	Ø23x8	422	45
150	25	300	250	211	3	34	Ø28x8	430	48
200	10	340	295	266	4	26	Ø23x8	487	70
200	16	340	295	266	4	30	Ø23x12	491	70
200	25	360	310	274	4	34	Ø28x12	495	75



MV-300

TILTING CHECK VALVE

Production Standards

Size Range	DN100 - DN2000
Pressure Range	PN10 - PN16 - PN25 - PN40
Design	EN 12334 / EN 16767
Connection	EN 1092 - 2 / ISO 7005 - 2
Face to Face	EN 558 Series 14 / DIN 3202 F4
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic/Thermoplastic Powder Epoxy
Temperature	EPDM : -10°C to +80 °C NBR: - 10°C to +60 °C VITON: -10°C to +110°C

300



Application Areas

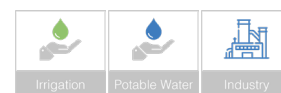
- Water treatment and distribution systems
- Pipelines
- Mining industry
- Pumping stations
- Tanks
- Seawater application
- Industry
- Oil and gas processes
- Fire extinguishing systems
- HVAC systems

Product Description

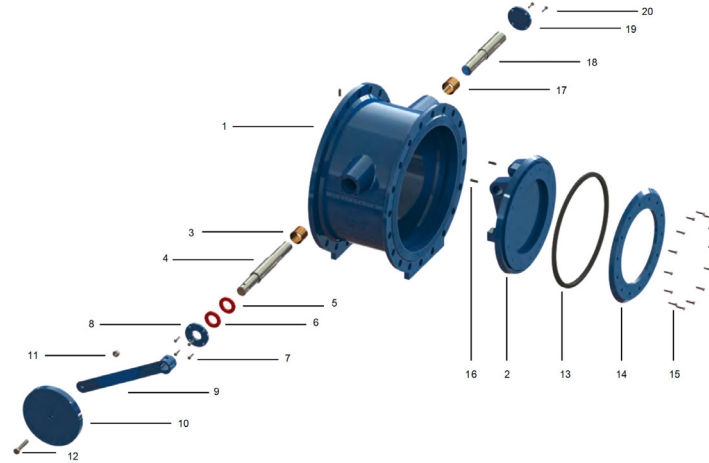
MV-300 Tilting Check Valve has been designed to automatically stop the back flow of the media that can occur when the system is shutdown. Counter weight lever ensures the soft opening depending on the speed of flow. Low torque values obtained with its double eccentric disc design.

Product Features

- One piece T-shape disc sealing ensures zero leakage
- Double Eccentric / Double Offset Disc Design
- NBR or VITON disc sealing options are also available
- Can be installed vertically and horizontally easy to replace the disc sealing without dismantling valve and disc from the pipeline
- Bronze bushing shafts have high corrosion resistance
- Double shaft design minimizes pressure loss and increases energy efficiency
- Light weight and compact design
- High impact resistance
- The disc swings automatically depending on the flow rate
- Fully coated internally and externally

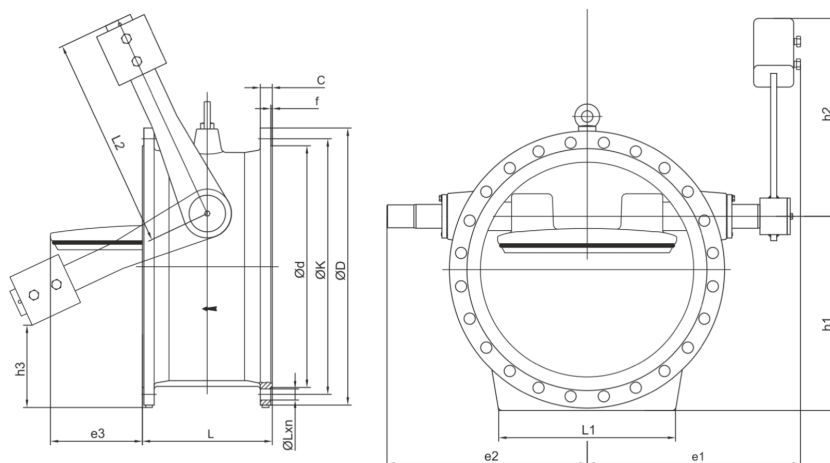


Technical Data



No	Part	Material
1	Body	GGG50 Ductile Iron
2	Disc	GGG50 Ductile Iron
3	Bushing	Bronze
4	Shaft	AISI 420 / 304 / 316 Stainless Steel
5	Inner O-Ring	EPDM
6	Outer O-Ring	EPDM
7	Bolts	A2 / A4 Stainless Steel
8	Upper Shaft Cover	St37 Steel
9	Counter Lever	GGG50 Ductile Iron
10	Counter Weight	St37 Steel
11	Nut	St37 Steel
12	Bolts	St37 Steel
13	Sealing Gasket	EPDM
14	Retaining Ring	St37 / AISI 304 / AISI 316 Stainless Steel
15	Bolts	A2/A4 Stainless Steel
16	Shaft Bolt	A2/A4 Stainless Steel
17	Bushing	Bronze
18	Shaft	AISI 420 / 304 / 316 Stainless Steel
19	Shaft Cover	St37 Steel
20	Bolts	A2 / A4 Stainless Steel

Technical Data



PN10

DN	L	f	ØD	ØK	Ød	b	ØLxn	L2	e1	e2	e3	h1	h2	h3	kg
100	190	3	220	180	156	19	19x8	-	-	-	-	-	-	-	-
125	200	3	250	210	184	19	19x8	-	-	-	-	-	-	-	-
150	210	3	285	240	211	19	23x8	-	-	-	-	-	-	-	-
200	230	3	340	195	266	20	23x8	200	268	252	35	220	188	107	50
250	250	3	405	350	319	22	23x12	300	325	305	68	265	285	92	70
300	270	4	460	400	370	24.5	23x12	300	340	317	87	315	285	142	105
350	390	4	505	460	429	24.5	23x16	400	410	382	117	357	372	140	170
400	310	4	565	515	480	24.5	28x16	400	440	412	138	400	372	182	220
450	330	4	615	565	530	25.5	28x20	450	470	443	165	442	418	204	275
500	350	4	670	620	582	28.5	28x20	500	520	490	188	470	465	200	320
600	390	5	780	725	682	30	31x20	600	590	567	238	580	555	267	440
700	430	5	895	840	794	32.5	31x24	700	700	661	305	640	653	273	560
800	470	5	1015	950	901	35	34x24	800	745	711	355	723	743	314	810
900	510	5	1115	1050	1001	37.5	34x28	900	800	780	400	797	830	348	1100
1000	550	5	1230	1160	1112	40	37x28	1000	870	863	460	887	935	360	1220
1100	590	5	1355	1270	1218	43.5	37x32	-	-	-	-	-	-	-	-
1200	630	5	1455	1380	1328	45	41x32	-	-	-	-	-	-	-	-
1300	670	5	1585	1490	1432	59	42x32	-	-	-	-	-	-	-	-
1400	710	5	1675	1590	1530	46	44x36	-	-	-	-	-	-	-	-
1500	750	5	1820	1700	1640	47	44x36	-	-	-	-	-	-	-	-
1600	790	5	1915	1820	1750	49	50x40	-	-	-	-	-	-	-	-
1800	870	5	2115	2020	1950	52	50x44	-	-	-	-	-	-	-	-
2000	950	5	2325	2230	2150	55	50x48	-	-	-	-	-	-	-	-



PN16

DN	L	f	ØD	ØK	Ød	b	Ølxn	L2	e1	e2	e3	h1	h2	h3	kg
100	190	3	220	180	156	19	19x8	-	-	-	-	-	-	-	-
125	200	3	250	210	184	19	19x8	-	-	-	-	-	-	-	-
150	210	3	285	240	211	19	23x8	-	-	-	-	-	-	-	-
200	230	3	340	195	266	20	23x12	200	268	252	35	220	188	107	50
250	250	3	405	350	319	22	28x12	300	325	305	68	265	285	92	70
300	270	4	460	400	370	24.5	28x12	300	340	317	87	315	285	142	105
350	390	4	520	460	429	26.5	28x16	400	410	382	117	357	372	140	170
400	310	4	580	515	480	28	31x16	400	440	412	138	400	372	182	220
450	330	4	640	565	530	30	31x20	450	470	443	165	442	418	204	275
500	350	4	715	620	582	31.5	34x20	500	520	490	188	470	465	200	320
600	390	5	840	725	682	36	37x20	600	590	567	238	580	555	267	440
700	430	5	910	840	794	39.5	37x24	700	700	661	305	640	653	273	560
800	470	5	1025	950	901	43	41x24	800	745	711	355	723	743	314	810
900	510	5	1125	1050	1001	46.5	41x28	900	800	780	400	797	830	348	1100
1000	550	5	1255	1160	1112	50	44x28	1000	870	863	460	887	935	360	1220
1100	590	5	1355	1270	1218	53.5	44x32	-	-	-	-	-	-	-	-
1200	630	5	1485	1380	1328	57	50x32	-	-	-	-	-	-	-	-
1300	670	5	1585	1490	1432	59	50x32	-	-	-	-	-	-	-	-
1400	710	5	1685	1590	1530	60	50x36	-	-	-	-	-	-	-	-
1500	750	5	1820	1700	1640	62.5	57x36	-	-	-	-	-	-	-	-
1600	790	5	1930	1820	1750	65	57x40	-	-	-	-	-	-	-	-
1800	870	5	2130	2020	1950	70	57x44	-	-	-	-	-	-	-	-
2000	950	5	2345	2230	2150	75	62x48	-	-	-	-	-	-	-	-

MV-310

WAFER SWING CHECK VALVE

Production Standards

Size Range	DN25 - DN400
Pressure Range	PN16
Design	EN 14341
Connection	En1092-1 / ISO 7005-1 Wafer Type
Face to face	EN 558 Series 97
Marking	EN 19
Tests	EN 12266-1
Coating	Cataphoresis Coating
Temperature	+130 °C

310



Product Description

MV-310 has been designed to automatically stop the back flow of the medium that can occur when the system is shut-down. Wafer swing check valves feature a hinged, flap-like disc that is used to allow and restrict liquid flow. Flap-like disc only opens in one direction and closes shut under back pressure to seal the valve against opposing fluid flow.

Application Areas

- Steam
- Hot & cold water
- Power & heat engineering
- Pressurized Air
- Industrial technologies

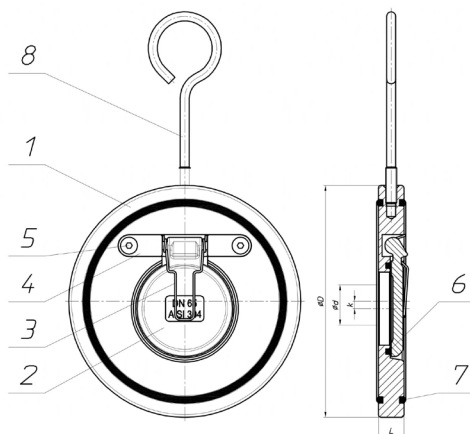
Product Features

- Designed to maintain the minimum head loss on the pipeline.
- Easy to install between two flanges thanks to its short installation length.
- Compact thin body provides low weight
- Positive shut-off even at small differential pressure, due to rotational axis location. Disc weight acts to fully close valve.
- O-ring placed on the disc is easily replaceable
- Low pressure shut-off
- Can be used vertically or horizontally
- Designed with stainless steel disc.
- Maintain free





Technical Data



No	Part	Material
1	Body	St-37 Carbon Steel
2	Disc	AIS304 Stainless Steel
3	Spring	AIS302 Stainless Steel
4	Disc Guide	AIS304 Stainless Steel
5	Screw	AIS304 Stainless Steel
6	O-Ring	NBR
7	O-Ring	NBR
8	Hook	St-37

DN	d	L	D	k	kg
25	11	14	71	-	0.41
32	17	14	81	-	0.52
40	22	14	92	2	0.67
50	32	14	107	2	0.87
65	40	14	127	4	1.25
80	54	14	142	4	1.5
100	70	18	162	4	2.45
125	92	18	192	5	3.37
150	114	20	218	6	4.63
200	154	22	273	8	7.85
250	200	26	329	9	12.95

MV-311

WAFER SWING CHECK VALVE

Production Standards

Size Range	DN25 - DN400
Pressure Range	PN16
Design	EN 14341
Connection	EN 1092-1 / ISO 7005-1 Wafer Type
Face to face	EN 558 Series 97
Marking	EN 19
Tests	EN 12266-1
Temperature	+130 °C



311

Product Description

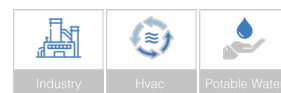
MV-311 has been designed to automatically stop the back flow of the medium that can occur when the system is shut-down. Wafer swing check valves feature a hinged, flap-like disc that is used to allow and restrict liquid flow. Flap-like disc only opens in one direction and closes shut under back pressure to seal the valve against opposing fluid flow.

Application Areas

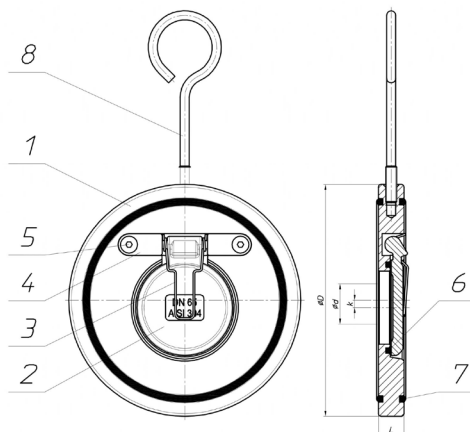
- Steam
- Hot & cold water
- Power & heat engineering
- Pressurized Air
- Industrial technologies

Product Features

- Designed to maintain the minimum head loss on the pipeline.
- Easy to install between two flanges thanks to its short installation length.
- Compact thin body provides low weight
- Positive shut-off even at small differential pressure, due to rotational axis location. Disc weight acts to fully close valve.
- O-ring placed on the disc is easily replaceable
- Low pressure shut-off
- Can be used vertically or horizontally
- Designed with stainless steel disc.
- Maintain free



Technical Data



No	Part	Material
1	Body	AIS304 Stainless Steel
2	Disc	AIS304 Stainless Steel
3	Spring	AIS302 Stainless Steel
4	Disc Guide	AIS304 Stainless Steel
5	Screw	AIS304 Stainless Steel
6	O-Ring	NBR
7	O-Ring	NBR
8	Hook	St-37

DN	d	L	D	k	kg
25	11	14	71	-	0.41
32	17	14	81	-	0.52
40	22	14	92	2	0.67
50	32	14	107	2	0.87
65	40	14	127	4	1.25
80	54	14	142	4	1.5
100	70	18	162	4	2.45
125	92	18	192	5	3.37
150	114	20	218	6	4.63
200	154	22	273	8	7.85
250	200	26	329	9	12.95

MV-320

DUAL CHECK VALVE

Production Standards

Size Range	DN25 - DN400
Pressure Range	PN16
Design	EN 12334
Connection	EN 1092-1 ISO 7005-2 Wafer Type
Face to face	EN 558 Series 16
Marking	EN 19
Tests	EN 12266-1
Temperature	+130 °C



320

Product Description

MV-320 Dual Check Valve is a non return valve which is much lighter in weight, smaller in size and stronger compare to other kinds of check valves.

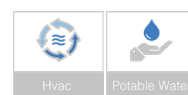
The Dual Check Valve has two spring-loaded plates hinged on a central pin. When the flow decreases the dual plates closed by spring action without a reverse flow. This design offers two advantages which are no water hammer and non slam.

Application Areas

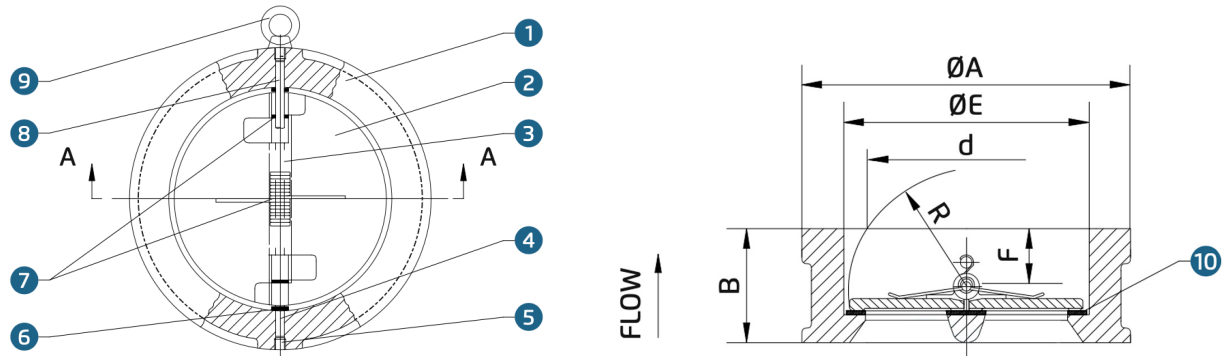
- Hot & cold water
- Power & heat engineering
- Pressurized Air
- Fluids without acidity or alkalinity properties
- Industrial technologies

Product Features

- The disc hinged on the body is placed within the flow section.
- Maintain the minimum head loss on the pipeline.
- Suitable for liquid, gas and steam in heating, air conditioning and cooling systems.
- Light weight and compact body ensures easy installation.
- Can be installed in horizontal and vertical positions.
- Maintenance free.



Technical Data



No	Part	Material
1	Body	GG25
2	Plate	ASI 304
3	Spring	Stainless Steel
4	Hinge Pin	Stainless Steel
5	Plug	Carbon Steel
6	Body Bearing	PTFE
7	Spring Bearing	PTFE
8	Stop Pin	Stainless Steel
9	Eye Bolt	Carbon Steel
10	Body Seat	NBR / EPDM

DN	B	E	F	R	d	A
50	43	65	19	28.8	43.3	107
65	46	80	20	36.1	60.2	127
80	64	94	28	43.4	66.4	142
100	64	117	27	52.8	90.8	162
125	70	145	30	65.7	116.9	192
150	76	170	30	78.6	144.6	218
200	89	224	31	104.4	198.2	273
250	114	265	33	127	233.7	328
300	114	310	40	148.3	283.9	378/382
350	127	360	43	172.4	332.9	438/442
400	140	410	45	197.4	381	488/495

MV-330 MV-331 MV-332

DISC CHECK VALVE

Production Standards

Size Range	DN25 - DN300
Pressure Range	PN16 - PN25 - PN40
Connection	EN 1092-1 / ISO 7005-1 Wafer Type
Face to face	EN 558 Series 49
Marking	EN 19
Tests	EN 12266-1
Temperature	+200 °C

330 331 332



Product Description

Disc Check Valves are suitable for liquids and gases in the industrial range. Disc check valves can be installed between any flanges of different standard and any position; including vertical pipelines where the fluid flow downwards.

Application Areas

- Steam
- Hot & cold water
- Power & heat engineering
- Pressurized Air
- Industrial technologies
- Fluids without acidity or alkalinity properties

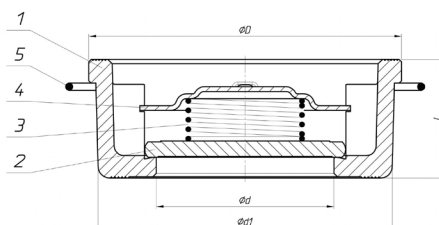
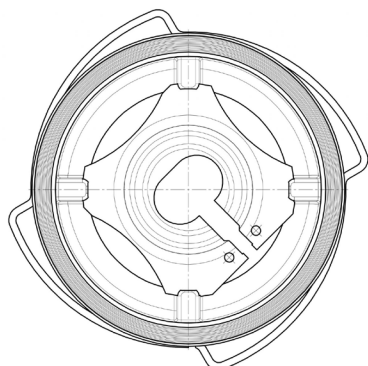
Product Features

- The body can be manufactured ductile iron, 304 stainless steel and brass.
- The centered disc construction allows the linear movement on its axis.
- The product can be used at horizontal and vertical positions.
- Easier to position during installation, through its centering cylinder.
- Engineer to maintain minimum head loss
- Maintenance free





Technical Data



No	Part	Material
1	Body	AISI 304 / Brass / Ductile Iron
2	Disc	AISI 304 Stainless Steel
3	Spring	AISI 302 Stainless Steel
4	Disc Guide	AISI 304 Stainless Steel
5	Mounting Spring	AISI 302 Stainless Steel

IV-330 Technical Data					
DN	d	L	D	d1	kg
15	15	16	40	35	0.10
20	20	19	47	43	0.15
25	25	21,5	56	50	0.20
32	31	28	76	66.5	0.45
40	39	32	82	77	0.60
50	48	40	95	89	1.00
65	63	46	115	107	1.35
80	75	50	132	124.5	2.00
100	89	60	152	144	3.00

* Please ask technical data for IV-331, IV-332



MV-340

FLANGED SWING CHECK VALVE

Production Standards

Size Range	DN40 - DN300
Pressure Range	PN10 - PN16
Design	EN 12334 / EN16767
Connection	EN 1092-2 / ISO 7005-2 Flange Type
Face to face	EN 558 Series 48 / DIN 3202 F6
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic Powder Epoxy
Temperature	+120 °C (EPDM)



340

Product Description

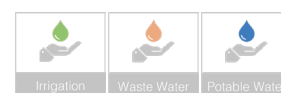
MV-340 Swing Check Valves designed with flanges which prevents the reverse fluid flow in different applications. They open automatically when the inlet fluid pressure is high and close when suction pressure is low. They usually work on slurries, liquids, gases, and steam.

Application Areas

- Pumping stations
- Water supply
- Chemical industry
- Heating ventilation and air conditioning systems
- Pipelines
- Tanks
- Sea water applications

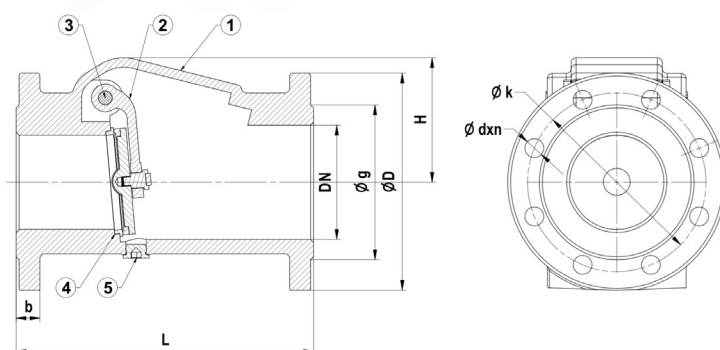
Product Features

- Swing non-return check valve
- Easy closure
- Low pressure drop
- Full tight closure with its EPDM disc sealing
- Can be installed horizontally and vertically
- Effective for energy savings
- Mounting direction is indicated by an arrow on the body.
- Maintenance free





Technical Data



No	Part	Material
1	Body	GGG40/50 Ductile Iron
2	Disc	GGG40/50 Ductile Iron
3	Stem	AISI 420 Stainless Steel
4	Seat	CuZn40Pb2 - CW617N Brass / Stainless Steel
5	Plug	ST37 Steel

DN	L	H	D	k	g	b	dxn	kg
40	180	70	150	110	84	18	19x4	6
50	200	70	165	125	99	20	19x4	7.5
65	240	87	185	145	118	20	19x4	10.5
80	260	104	200	160	132	22	19x8	14
100	300	125	220	180	156	24	19x8	20
125	350	157	250	210	184	26	19x8	20
150	400	186	285	240	211	26	23x8	43
200	500	240	340	295	266	20	23x12	70
250	600	295	405	355	319	22	28x12	120
300	700	372	460	410	370	25	28x12	164

MV-350

AXIAL SILENT CHECK VALVE

Production Standards

Size Range	DN100 - DN1000
Pressure Range	PN 10 - PN16
Design	EN 12334 / EN 16767
Connection	EN 1092-2 / ISO 7005-2
Face to Face	EN 558 Series 8a / ISO 5752 Series 8
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic/Thermoplastic Powder Epoxy
Temperature	EPDM : -10°C to +80 °C NBR: - 10°C to +60 °C VITON: -10°C to +110 °C



350

Product Description

MV-350 Axial Silent Check Valves also known as non-slam and spring-assisted check valves. One of the most curial function of IV-350 is to reduce or eliminate water hammer effects. Spring loaded disc and short closing stroke provides quick response to flow changes.

Application Areas

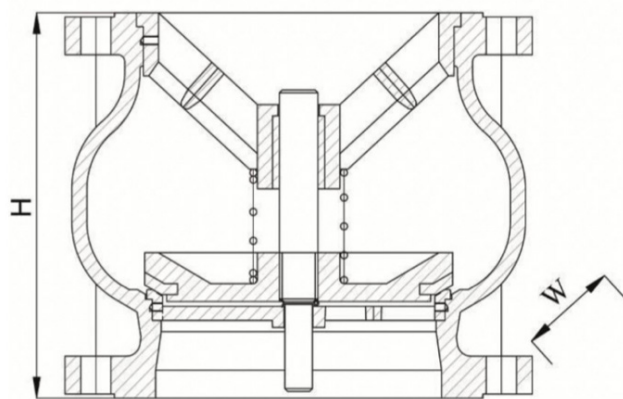
- High building industry
- Potable water transmission systems
- Water supply plant
- Transmission pipeline compressor discharge
- Firefighting industry
- Multiphase pumping

Product Features

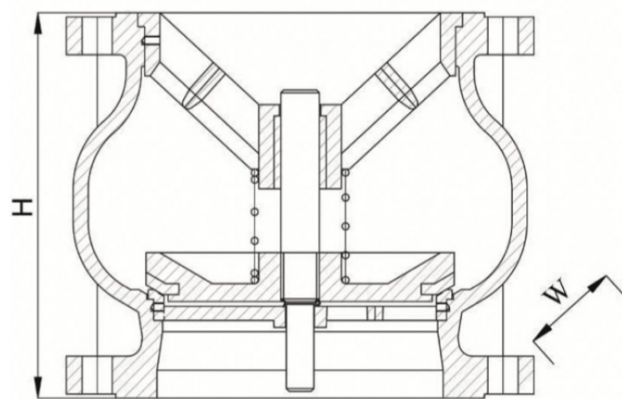
- Non-slam closure
- Suitable for high flow velocities
- Venturi-shaped body enables low pressure loss
- Widely used in pipelines where flow can turn into reverse flow quickly
- High deceleration rates by closing very quick
- NBR or VITON disc sealing options are also available
- Avoids turbulence and prevents vibration
- Low weight and short face to face design
- Horizontal or vertical installation
- Maintenance free



Technical Data



Ø80-400



Ø80-400

No	Part	Material
1	Body	GGG50 Ductile Iron
2	Body Bushing	Bronze
3	Disc Sealing	EPDM
4	Disc	GGG50 Ductile Iron
5	Spring	AISI 304 Stainless Steel
6	Stem	AISI 304 Stainless Steel
7	Stem Centering Part	GGG50 Ductile Iron

DN	ØD	ØK	Ød	C	f	ØLxn	L
100	220	180	156	19	3	19x8	175
125	250	210	184	19	3	19x8	200
150	285	240	211	19	3	23x8	225
200	340	295	266	20	3	23x8	275
250	405	350	319	22	4	23x12	325
300	460	400	370	24.5	4	23x12	375
350	520	460	429	26.5	4	23x16	425
400	580	515	480	28	4	28x16	475
450	640	565	530	30	4	28x20	500
500	670	620	582	36.5	4	28x20	550
600	840	725	682	42	5	31x20	600
700	910	840	794	39.5	5	31x24	650
800	1025	950	901	43	5	34x24	700
900	1125	1050	1000	54	5	34x28	800
1000	1255	1160	1112	60	5	37x28	900



MV-400 HYDRANT

Production Standards

Size Range	DN80 - DN100
Pressure Range	PN16
Operation	Hydrant Key
Height Range	1450 - 1750 - 2150mm
Design	EN 14384 / EN 1074-6
Connection	EN 1092-2 / ISO 7005 - 2
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic Powder Epoxy
Temperature	-10 °C to +80 °C

400



Product Description

MV-400 Hydrants are taking out water from pipelines and water distribution systems. They are immediately provide the water required by fire fighters to extinguish a fire. Hydrants are easily reached to assure fast water supply.

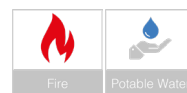
Application Areas

Water supply for firefighters in;

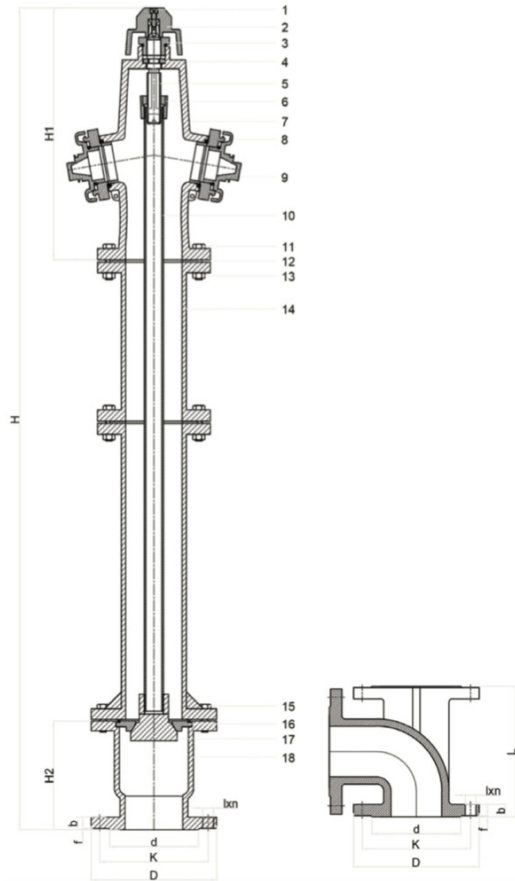
- Industrial buildings
- Parks
- Forestlands
- Warehouses
- Airports
- Harbors

Product Features

- Due to two water outlets, wide capacity of water can be retrieved immediately
- Can be open and close with the hydrant switch at the head of hydrant.
- They have eye catching color for easy distinguishing in case of fire
- The body and the inner column pipes are coated with electrostatic powder epoxy.
- Designed and manufactured according to EN 14384 standard
- Alternative size and heights are available
- It has a self-closing system to abstain from water loss
- Hydrant can be equipped fast and easily
- They have nonfreezing system



Technical Data



No	Part	Material
1	Bolt	Steel
2	Top Cover	Ductile Iron
3	Nut	Cast Iron
4	Circlip	Steel
5	Stem	AISI 420
6	Pressure Nut	Cast Iron
7	Upper Body	Ductile Iron
8	Nut	Brass
9	Water Outlet	Brass / Aluminium
10	Operation Rod	Steel
11	Bolt	Steel
12	Sealing	EPDM
13	Nut	Steel
14	Middle Body	Ductile Iron
15	Bolt	Steel
16	Seat	Cast Iron
17	Closure Element	Cast Iron
18	Lower Body	Ductile Iron

DN	H	D	K	d	Ølxn	f	b	L	H1	H2
80	1450	200	160	132	19x8	3	22	300	345	195
80	1750	200	160	132	19x8	3	22	300	345	195
80	2150	200	160	132	19x8	3	22	300	345	195
100	1450	220	180	156	19x8	3	24	300	345	195
100	1750	220	180	156	19x8	3	24	300	345	195
100	2150	220	180	156	19x8	3	24	300	345	195

MV-410

UNDERGROUD HYDRANT

Production Standards

Size Range	DN80 - DN100
Pressure Range	PN16
Operation	Hydrant Key
Design	EN 14384 / EN 1074-6
Connection	EN 1092-2 / ISO 7005 - 2
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic Powder Epoxy
Temperature	-10 °C to +80 °C

410



Product Description

MV-410 Underground Hydrant is directly connected to the water supply with valves into the ground. They are immediately provide the water required by fire fighters to extinguish a fire. IV-410's are submerged valves that marked on the surface with fire hydrant indicator plates. Thanks to this indicator, the exact location of each hydrant can be detectable.

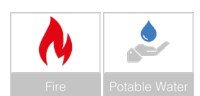
Application Areas

Water supply for firefighters in;

- Industrial buildings
- Parks
- Forestlands
- Warehouses
- Airports
- Harbors

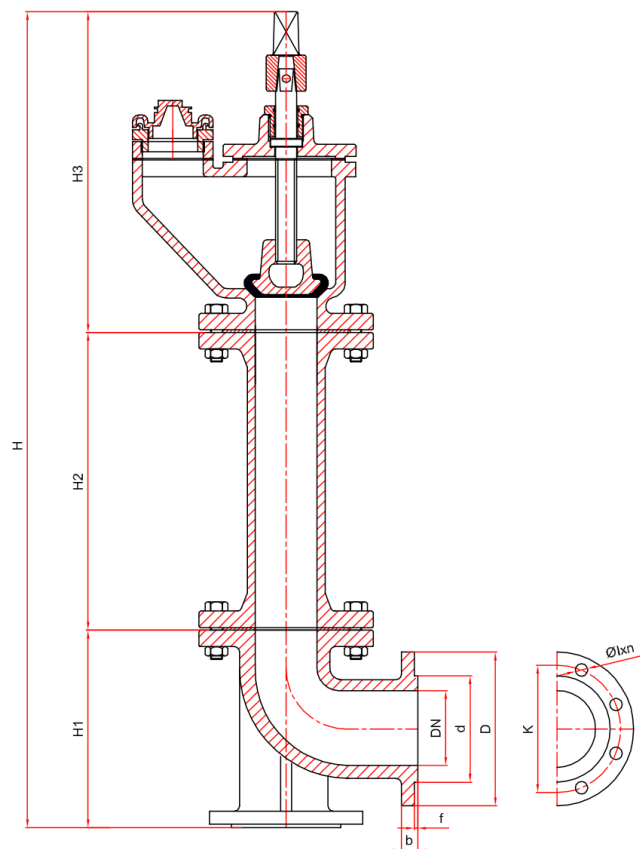
Product Features

- They have one water outlet
- Can easily open and close with the key at the head of hydrant.
- They have eye catching color for easy distinguishable in case of fire
- IV-410 Underground Hydrant is located underground with a vertical shape.
- The outer and the inner column pipes are coated with electrostatic powder epoxy.
- Designed and manufactured according to EN 14339 standard
- Alternative size and heights are available
- Can be equipped fast and easily
- They have nonfreezing system; extremely resistant to high and low temperatures. IV-410 can even be used where sudden temperature fluctuations occur.
- High degree of environmental compatibility.





Technical Data



No	Part	Material
1	Stem	1.4021 Stainless Steel
2	Plug	Aluminium - Brass
3	Bolt	DIN 933
4	Sealing	EPDM
5	Nut	DIN 934
6	Pipe	Cast Iron
7	Body	Cast Iron
8	N - Part	Cast Iron

DN	D	K	d	Ø1xn	f	b	H1	H2	H3	H
80	200	160	132	19x8	3	22	260	430	370	1060
100	220	180	156	19x8	3	24	260	430	370	1060



MV-420

RUSSIAN TYPE HYDRANT

Production Standards

Size Range	DN80 - DN100
Pressure Range	PN10 - PN16
Design	GOST 8220-85
Connection	GOST Flange Standard
Coating	Electrostatic Powder Epoxy
Temperature	-10 °C to +80 °C

420



Product Description

MV-420 Underground Hydrant is directly connected to the water supply with valves into the ground. They immediately provide the water required by fire fighters to extinguish a fire. Underground hydrants are more suitable when there is space problem on the ground. They can mostly be reachable via the hydrant surface box.

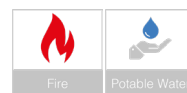
Application Areas

Water supply for firefighters in;

- Industrial buildings
- Parks
- Forestlands
- Warehouses
- Airports
- Harbors

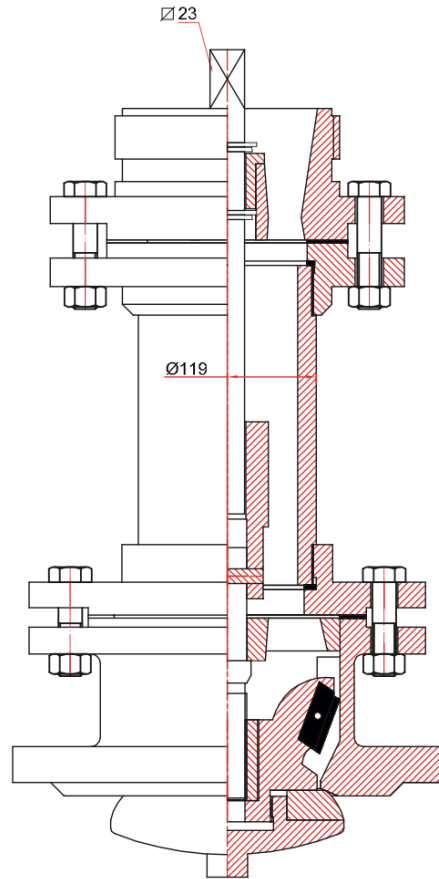
Product Features

- They have one water outlets
- Designed and manufactured according to GOST 8220-85 Russian standard
- The outer and the inner column pipes are coated with electrostatic powder epoxy.
- IV-420 Underground Hydrant is located underground with a vertical shape.
- Can easily open and close with the key at the head of hydrant.
- Alternative size and heights are available
- Can be equipped fast and easily
- High degree of environmental compatibility.

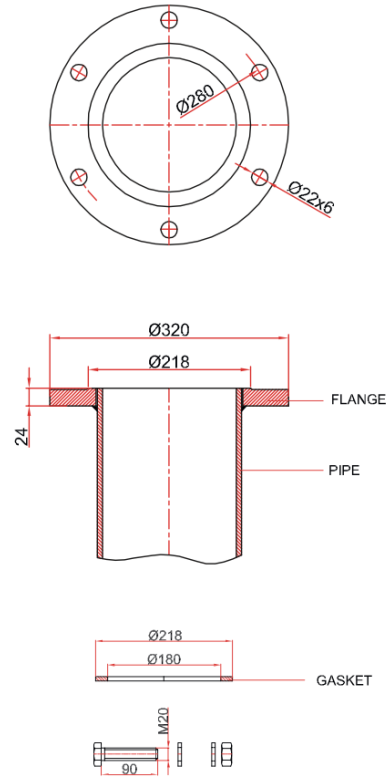




Technical Data



CONNECTION EQUIPMENT



No	Part	Material
1	Body	Cast Iron
2	Stem	1.4021 - AISI 420 Stainless Steel
3	Sealing	EPDM



MV-500

DOUBLE ECCENTRIC BUTTERFLY VALVE

Production Standards

Size Range	DN100 - DN2400
Pressure Range	PN10 - PN16 - PN25
Design	EN 593
Connection	EN 1092-2 ISO 7005 Flanged
Face to Face	EN 558 Series 14
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic/ThermoPlastic Powder Epoxy
Temperature	EPDM : -10°C to +80 °C NBR: - 10°C to +60 °C VITON: -10°C to +110 °C



500

Product Description

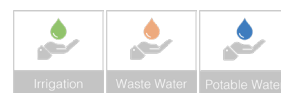
Double Eccentric Butterfly valves are most often used in underground water distribution applications as an alternative to gate valves. The double eccentric disc design allows the butterfly plate to be released from the valve seat immediately after the valve is opened, which eliminates unnecessary excessive squeezing and erosion of the butterfly plate and the valve seat. This feature reduces the opening high torque, improves the service life of the valve seat.

Application Areas

- Pipelines
- Water treatment plants
- Pumping stations
- Industry

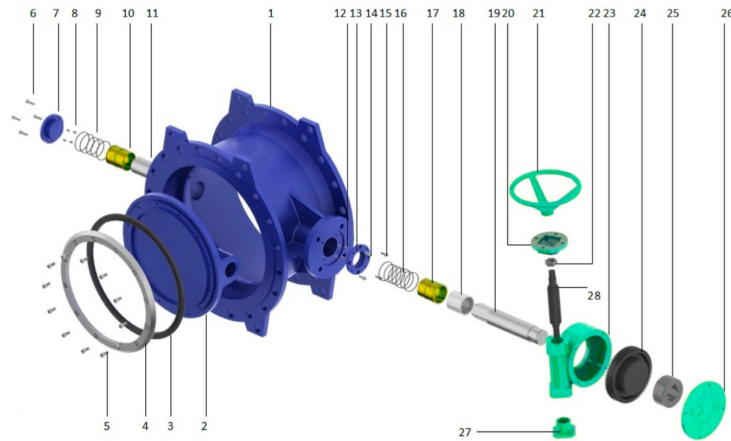
Accessories

- Handwheel
- Electric act
- Extension spindle
- Surface box
- Flange adaptor
- Dismantling joint



Product Features

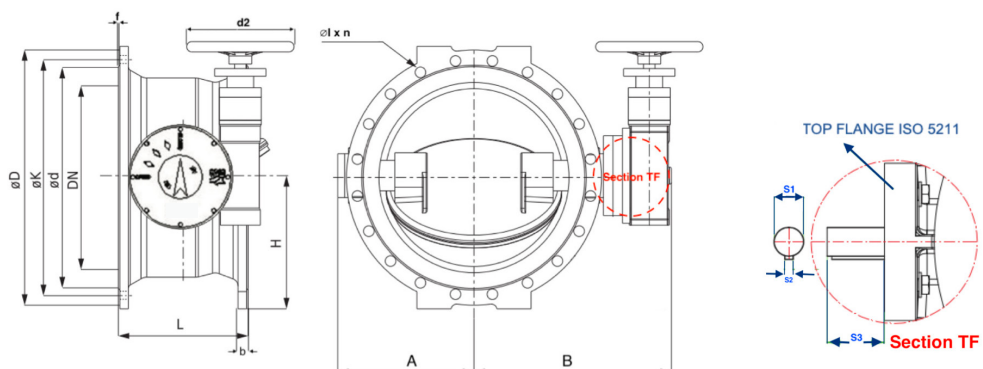
- The tilted disc releases the pressure from the disc sealing after a few degrees of opening, which extends the durability and allows low operating torques
- Ductile iron body and disc can bear extreme stretching stresses
- The disc is fixated to prevent wear and fluttering
- Shafts are equipped with bronze bushings having high corrosion resistance
- The threaded bolt holes in the disc are corrosion protected with O-rings
- Stainless steel retainer ring for seal
- Low moments are obtained by decreasing the friction through self-lubricating bushings.
- Slim Body and Light weight
- Full coating on the body and disc internally & externally with an average of 250 microns.
- WRAS approved coating available upon request which meets hygienic requirements for potable water applications



No	Part	Material
1	Body	GGG40/50 Ductile Iron
2	Disc	GGG40/50 Ductile Iron
3	Disc Sealing	EPDM
4	Retaining Ring	ST37 / SS304 / SS316
5	Retaining Ring Bolts	A2 / A4
6	Bolts	8.8 / A2 / A4
7	Lower Shaft Cover	GGG40/50 Ductile Iron
8	Bolts	8.8 / A2 / A4
9	Spring	AISI 304 Stainless Steel
10	Bushing	Bronze
11	Lower Shaft	AISI 420 / 304 / 316 Stainless Steel
12	Bolts	8.8 / A2 / A4
13	Main Shaft Cover	ST37 Steel / AISI304 / AISI316 Stainless Steel
14	Bolts	8.8 / A2 / A4

No	Part	Material
15	Gear Box Shaft	GGG40/50 Ductile Iron / ST37 Steel / AISI 304 Stainless Steel
16	Spring	AISI 304 Stainless Steel
17	Bushing	Bronze
18	Main Shaft Bearing	Delrin
19	Main Shaft	AISI 420 / 304 / 316 Stainless Steel
20	GearBox ISO Top Flange	GGG40 / 50 Ductile Iron ST37 Steel
21	Hand Wheel	GGG40/50 Ductile Iron
22	Hexagon Nut	ST37 Steel
23	Gearbox Body	GGG40/50 Ductile Iron
24	Gear	GGG0/50 Ductile Iron
25	Inner Gear Shaft Connection	GGG40/50 Ductile Iron
26	Gearbox Cover	GGG40/50 Ductile Iron
27	Gearbox Shaft Cover	GGG40/50 Ductile Iron / ST37 Steel
28	Gearbox Shaft	C40 Steel

Technical Data



Nominal Diameter		PN 10																
DN	L	f	ØD	ØK	Ød	b	Øl x n	B	A	H	d2	S1	S2	S3	Body Top Flange	Gearbox Top Flange	Auma Actuator Selection	Weight (kg)
100	190	3	220	180	156	19	19x8	185	125	110	250	20	7	53.5	F10	F10	SA07.6-60Nm	35
125	200	3	250	210	184	19	19x8	230	130	130	250	20	7	53.5	F10	F10	SA07.6-60Nm	40
150	210	3	285	240	211	19	23x8	275	135	150	250	20	7	53.5	F10	F10	SA07.6-60Nm	45
200	230	3	340	295	266	20	23x8	320	170	175	250	30	8	51	F10	F10	SA07.6-60Nm	57
250	250	3	400	350	319	22	23x12	350	200	210	250	30	8	58	F16	F10	SA07.6-60Nm	70
300	270	4	455	400	370	24.5	23x12	400	235	235	250	30	8	45	F16	F10	SA07.6-60Nm	130
350	290	4	505	460	429	24.5	23x16	430	265	265	250	40	12	52	F16	F10	SA07.6-60Nm	165
400	310	4	565	515	480	24.5	28x16	465	295	295	250	250	12	48	F16	F10	SA07.6-60Nm	200
450	330	4	615	565	530	26.5	28x20	515	340	325	250	40	12	45.5	F16	F10	SA07.6-60Nm	225
500	350	4	670	620	582	26.5	28x20	550	360	365	250	60	18	68	F16	F10	SA07.6-60Nm	270
600	390	5	780	725	682	30	31x20	610	430	425	250	60	18	107	F25	F10	SA07.6-60Nm	430
700	430	5	895	840	794	32.5	31x24	640	475	455	250	65	18	104	F25	F10	SA10.2-120Nm	490
800	470	5	1015	950	901	35	34x24	865	550	515	250	80	22	101	F25	F10	SA10.2-120Nm	705
900	510	5	1115	1050	1001	37.5	34x28	910	615	565	250	90	26	98	F25	F10	SA10.2-120Nm	957
1000	550	5	1230	1160	1112	40	37x28	970	675	620	250	100	28	98	F25	F10	SA10.2-120Nm	1200
1100	590	5	1340	1270	1218	43	37x32	1049	760	720	250	110	30	123	F25	F10	SA10.2-120Nm	1410
1200	630	5	1455	1380	1328	45	41x32	1170	805	735	250	120	32	148	F30	F10	SA10.2-120Nm	1725
1300	670	5	1585	1490	1432	45	42x32	1235	850	800	250	140	36	166	F30	F14	SA14.2-250Nm	2200
1400	710	5	1675	1590	1530	46	44x36	1235	920	845	250	160	42	184.5	F30	F14	SA14.2-250Nm	2600
1500	750	5	1785	1700	1640	49	44x36	1307	975	915	320	170	44	205	F30	F14	SA14.2-250Nm	3813
1600	790	5	1915	1820	1750	49	50x40	1420	1075	975	320	180	48	228	F40	F14	SA14.2-250Nm	4750
1800	870	5	2115	2020	1950	52	50x44	1535	1195	1065	320	200	54	253	F40	F14	SA16.2-500Nm	6100
2000	950	5	2325	2230	2150	55	50x48	1725	1290	1170	340	200	54	280	F40	F14	SA16.2-500Nm	7300
2200	1030	6	2555	2440	2370	58	56x52	1920	1560	1310	340	220	60	309	F40	F14	SA16.2-500Nm	8200
2400	1110	6	2760	2650	2555	65	56x52	1920	1481	1379	340	220	60	341	F40	F14	SA16.2-500Nm	9200



Nominal Diameter		PN 16																
DN	L	f	ØD	ØK	Ød	b	ØIxn	B	A	H	d2	S1	S2	S3	Body Top Flange	Gearbox Top Flange	Auma Actuator Selection	Weight (kg)
100	190	3	220	180	156	19	19x8	185	125	110	250	20	7	53.5	F10	F10	SA07.6-60Nm	35
125	200	3	250	210	184	19	19x8	230	130	130	250	20	7	53.5	F10	F10	SA07.6-60Nm	40
150	210	3	285	240	211	19	23x8	275	135	150	250	20	7	53.5	F10	F10	SA07.6-60Nm	45
200	230	3	340	295	266	20	23x12	320	170	175	250	30	8	51	F10	F10	SA07.6-60Nm	57
250	250	3	400	350	319	22	28x12	350	200	210	250	30	8	58	F16	F10	SA07.6-60Nm	70
300	270	4	455	400	370	24.5	28x12	400	235	235	250	30	8	45	F16	F10	SA07.6-60Nm	130
350	290	4	505	460	429	26.5	28x16	430	265	265	250	40	12	52	F16	F10	SA07.6-60Nm	165
400	310	4	565	515	480	28	31x16	465	295	295	250	250	12	48	F16	F10	SA07.6-60Nm	200
450	330	4	615	565	530	30	31x20	515	340	325	250	40	12	45.5	F16	F10	SA07.6-60Nm	225
500	350	4	670	620	582	31.5	34x20	550	360	365	250	60	18	68	F16	F10	SA07.6-60Nm	270
600	390	5	780	725	682	36	37x20	610	430	425	250	60	18	107	F25	F10	SA07.6-60Nm	430
700	430	5	895	840	794	39.5	37x24	640	475	460	250	65	18	104	F25	F10	SA10.2-120Nm	490
800	470	5	1015	950	901	43	41x24	865	550	520	250	80	22	101	F25	F10	SA10.2-120Nm	705
900	510	5	1115	1050	1001	46.5	41x28	945	625	575	250	90	26	98	F25	F10	SA10.2-120Nm	957
1000	550	5	1230	1160	1112	50	44x28	1070	705	635	250	100	28	98	F25	F10	SA10.2-120Nm	1200
1100	590	5	1340	1270	1218	53.5	44x32	1122	765	720	250	110	30	123	F25	F10	SA10.2-120Nm	1410
1200	630	5	1455	1380	1328	57	50x32	1177	835	750	250	120	32	148	F30	F10	SA10.2-120Nm	1725
1300	670	5	1585	1490	1432	59	50x32	1232	885	800	250	140	36	166	F30	F14	SA14.2-250Nm	2200
1400	710	5	1675	1590	1530	60	50x36	1320	970	850	250	160	42	184.5	F30	F14	SA14.2-250Nm	2600
1500	750	5	1785	1700	1640	62.5	57x36	1370	1025	920	320	170	44	205	F30	F14	SA14.2-250Nm	3813
1600	790	5	1915	1820	1750	65	57x40	1530	1100	970	320	180	48	228	F40	F14	SA14.2-250Nm	4750
1800	870	5	2115	2020	1950	70	57x44	1680	1250	1075	320	200	54	253	F40	F14	SA16.2-500Nm	6100
2000	950	5	2325	2230	2150	75	62x48	1812	1385	1180	340	200	54	280	F40	F14	SA16.2-500Nm	7300
2200	1030	6	2555	2440	2370	80	62x52	1920	1560	1310	340	220	60	309	F40	F14	SA16.2-500Nm	8200
2400	1110	6	2760	2650	2555	80	62x56	2750	1875	1400	340	220	60	341	F40	F14	SA16.2-500Nm	9200

MV-510 MV-511

WAFER TYPE BUTTERFLY VALVES

Production Standards

Size Range	DN40 - DN600
Pressure Range	PN6 - PN10 - PN16
Design	EN 593
Connection	Wafer type EN 1092-1 ISO 7005-1
Face to face	EN 558 Series 20
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic Powder Epoxy
Temperature	EPDM: +120 °C NBR: +100 °C VITON: +180 °C

510 511



Product Description

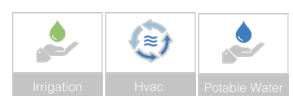
MV-510 Wafer Type Butterfly Valves are designed with four holes that align with connected pipeline. The disc is placed between two flanges in the pipeline. The EPDM valve seat ensures strong seal between the valve and the flange connection. Wafer type butterfly valve are quarter turn valves which is used to stop, regulate and start flow.

Application Areas

- Pipelines
- HVAC systems
- Water Treatment Plants
- Reservoirs and Tanks
- Irrigation
- Industrial Applications

Accessories

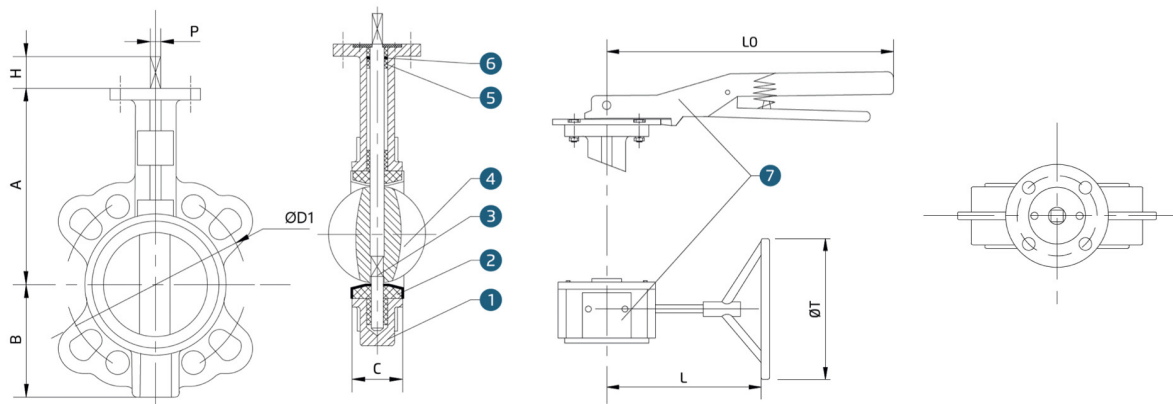
- Extension spindle
- Surface box
- T-key
- Position indicator





Product Features

- Nickel coated ductile iron 304, 316 discs are available with EPDM, NBR and VITON seat options.
- Machined disc ensures lower and regular torque
- Sealing in both directions of circulation of the piping.
- Bi-directional use, tight sealing in both ways
- The advantages are lightweight, easy installation and cost effectiveness
- Soft sleeve guaranteeing a perfect tightness.
- Extended neck compatible with pipe lapping
- Reduced head losses.
- Can be installed in any desired position
- Maintenance free



No	Part	Material
1	Body	Cast Iron / Ductile Iron
2	Seat	EPDM
3	Shaft	SS416
4	Disc	CF8 - Ductile Iron
5	Bushing	PTFE
6	O-Ring	NBR
7	Lever / Gear	-

DN	A	B	H	P	C	ISO 5211	L0	T	L
40	125	68	30	9	33	F05	215	137	150
50	129	73	30	9	42	F05	215	137	150
65	137	82	30	9	44.7	F05	215	137	150
80	144	95	30	9	45.2	F05	215	137	150
100	163	109	30	11	52.1	F07	260	137	150
125	179	125	30	14	54.4	F07	260	137	150
150	198	144	30	14	55.8	F07	260	137	150
200	237	173	35	17	60.6	F10	355	269	207
250	281	211	35	22	65.6	F10	355	269	207
300	318	244	35	22	76.9	F10	355	269	207

MV-520 MV-521

LUG TYPE BUTTERFLY VALVES

Production Standards

Size Range	DN40 - DN600
Pressure Range	PN6 - PN10 - PN16
Design	EN 593
Connection	Lug type EN 1092-1 ISO 7005-1
Face to face	EN 558 Series 20
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic Powder Epoxy
Temperature	EPDM: +120 °C NBR: +100 °C VITON: +180 °C

520 521



Product Description

MV-520 LUG Type Butterfly Valves are designed with threaded tapped lug positioned on the valve flanges for bolt connections. Lug-style butterfly valves are suitable for end of line service but a blind flange is always recommended. The disc is placed between two flanges in the pipeline. The EPDM valve seat ensures strong seal between the valve and the flange connection. Lug type butterfly valve are quarter turn valves which is used to stop, regulate and start flow.

Application Areas

- Pipelines
- HVAC systems
- Water Treatment Plants
- Reservoirs and Tanks
- Irrigation
- Industrial Applications

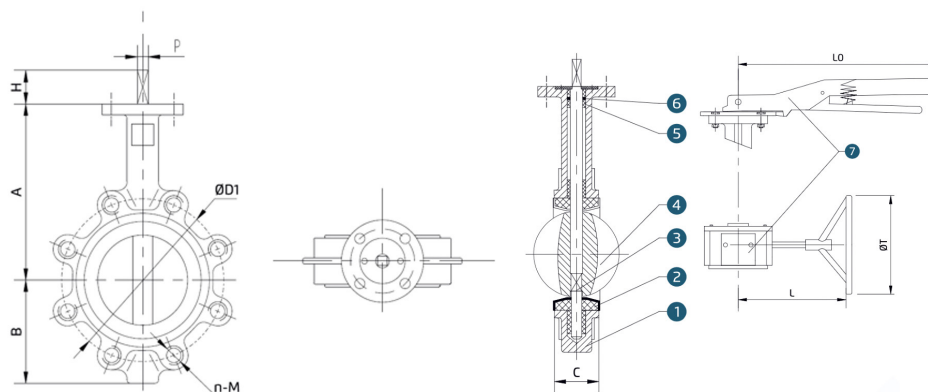
Accessories

- Extension spindle
- Surface box
- T-key
- Position indicator



Product Features

- Nickel coated ductile iron 304, 316 discs are available with EPDM, NBR and VITON seat options.
- Machined disc ensures lower and regular torque
- Sealing in both directions of circulation of the piping.
- Bi-directional use, tight sealing in both ways
- The advantages are lightweight, easy installation and cost effectiveness
- Soft sleeve guaranteeing a perfect tightness.
- Extended neck compatible with pipe lapping
- Reduced head losses.
- Can be installed in any desired position
- Maintenance free



No	Part	Material
1	Body	Cast Iron / Ductile Iron
2	Seat	EPDM
3	Shaft	SS416
4	Disc	CF8 - Ductile Iron
5	Bushing	PTFE
6	O-Ring	NBR
7	Lever / Gear	-

DN	A	B	H	P	C	ISO 5211	L0	T	L	D1	PN16
40	125	68	30	9	33	F05	215	137	150	110	4-M16
50	129	73	30	9	42	F05	215	137	150	125	4-M16
65	137	82	30	9	44.7	F05	215	137	150	145	4-M16
80	144	95	30	9	45.2	F05	215	137	150	160	8-M16
100	163	109	30	11	52.1	F07	260	137	150	180	8-M16
125	179	125	30	14	54.4	F07	260	137	150	210	8-M16
150	198	144	30	14	55.8	F07	260	137	150	240	8-M20
200	237	173	35	17	60.6	F10	355	269	207	295	12-M20
250	281	211	35	22	65.6	F10	355	269	207	355	12-M24
300	318	244	35	22	76.9	F10	355	269	207	410	12-M24



MV-600

FLEXIBLE RUBBER EXPANSION JOINT

Production Standards

Size Range	DN40 - DN1000
Pressure Range	PN10 - PN16
Design	DIN 30680
Face to face	EN 1092-1 ISO 700-1
Marking	EN 19
Tests	EN 12266-1
Corrosion Protection	Galvanised Steel Flanges
Temperature	+90 °C



Product Description

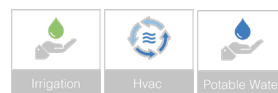
MV-600 Flexible Rubber Expansion joint is a flexible connector to absorb noise, shock, vibration, physical and thermal energy. Synthetic elastomers between two flanges are internally reinforced with fabrics and metal for strength and pressure resistance. Metal reinforcement can be used externally for movement control. They allow flexibility on the pipeline during movements.

Application Areas

- Hot and Cold Water Systems
- Cooling towers
- HVAC Applications
- Pumping Stations
- Waste water medium

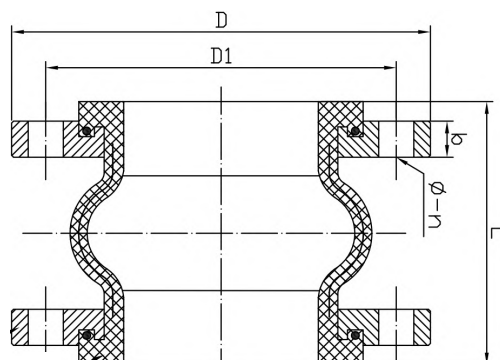
Product Features

- Can absorb greater movements as pumps, compressors and pipes move out of alignment due to the destruction of their supporting structures.
- Can manage lateral, angular, torsional movement.
- Vibration reduction due to the hydraulic surge and water hammer.
- Sound reduction because of imbalances on the pipeline.
- Synthetic elastomers achieve high performance on challenging operation conditions.
- No need for additional gasket for counter flange connections.
- The ability to flex and absorb.
- Light weight design does not create extra weight on the pipeline.
- Maintenance free.





Technical Data



No	Part	Material
1	Body	Steel Reinforced EPDM
2	Flange	Galvanised Steel
3	Sealing	EPDM or NBR

DN	D	D1	b	Φ-n	L
40	150	110	16	18-4	95
50	165	125	16	18-4	105
65	185	145	18	18-4	115
80	200	160	20	18-8	135
100	220	180	20	18-8	150
125	250	210	22	18-8	165
150	285	240	22	22-8	180
200	340	295	24	22-12	210
250	405	355	26	26-12	230
300	460	410	28	26-12	245
350	520	470	30	26-16	255
400	580	525	32	30-16	255

MV-620

FLEXIBLE RUBBER JOINT THREADED

Production Standards

Size Range	DN15 - DN100
Pressure Range	PN10
Design	DIN 30680
Face to face	DIN 30680
Marking	EN 19
Tests	EN 12266-1
Corrosion Protection	Galvanized Threads
Temperature	+100 °C

620



Product Description

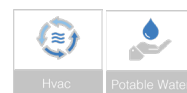
MV-620 Flexible Rubber Joint Threaded is a flexible connector to absorb noise, shock, vibration, physical and thermal energy. Synthetic elastomers between two flanges are internally reinforced with fabrics and metal for strength and pressure resistance. Metal reinforcement can be used externally for movement control. They allow flexibility on the pipeline during movements.

Application Areas

- Hot and Cold Water Systems
- Cooling towers
- HVAC Applications
- Pumping Stations
- Waste water medium

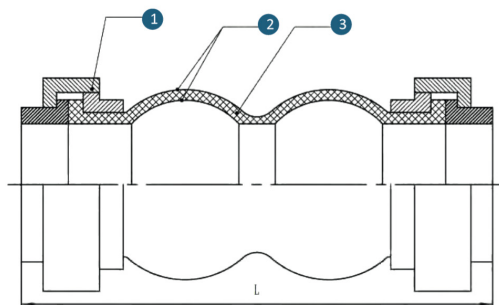
Product Features

- Body made of EPDM with carbon steel ends.
- Maximum pressure 10 bar. depends on nominal size and temperature.
- Threaded ends, double sphere.
- Absorbs vibration and reduces tension on the pipeline.
- Sound reduction because of imbalances on the pipeline.
- Reinforced rubber with nylon based cord.
- Can manage lateral, angular, torsional movement.
- Vibration reduction due to the hydraulic surge and water hammer.
- Absorbs elongations and contractions due to temperature differences.
- Easy to install and light weight design does not create extra weight on the pipeline.
- Vertical installation is recommended for a longer operational life.
- Maintenance free.





Technical Data



No	Part	Material
1	Connection	Galvanised Malleable Iron
2	Body	NBR / EPDM Rubber
3	Gland	Nylon

DN	L	Lateral Mov.	Contraction	Expansion
15	200	22	22	5-6
20	200	22	22	5-6
25	200	22	22	5-6
32	200	22	22	5-6
40	200	22	22	5-6
50	200	22	22	5-6
65	245	22	22	5-6
80	270	22	22	5-6

MV-630

AXIAL EXPANSION JOINT

Production Standards

Size Range	DN25 - DN300
Pressure Range	PN10 - PN16 - PN25 - PN40
Design	EN 14917 & EJMA
Connection	EN 1092-2 / ISO 7005-2 Rotating Flanged, Fixed Flanged, Welding End
Face to face	EN 14917
Marking	EN 19
Tests	EN 1266-1
Temperature	-10 °C, +430 °C
Expansion Range	30 mm. (-20 + 10) 60 mm. (-40+20)



630

Product Description

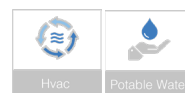
MV-630 Axial Expansion Joint product protects the pipeline by absorbing high stress due to outer temperature differences. They remove vibration and variation, effectively that caused by expansion and contraction of the pipeline.

Application Areas

- Hot and Cold Water Systems
- Central heating
- Steam Industrial Applications
- Pump and Compressors
- Marine & Exhaust systems
- HVAC lines

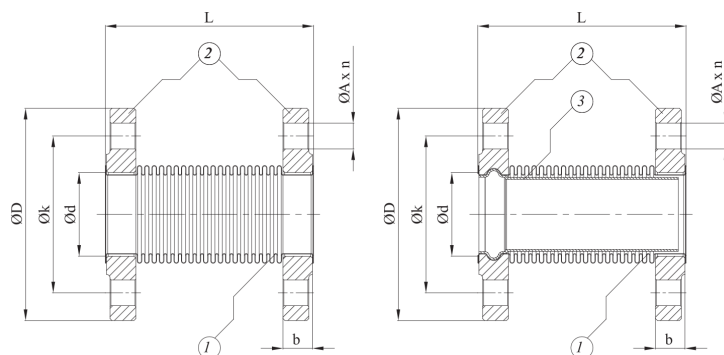
Product Features

- Can absorb axial, lateral or angular movements due to thermal differences or pipe misalignment.
- Designed to reduce noise and release stress.
- Prevent system shock.
- Absorbs vibrations due to the thermal differences.
- Designed for high temperature usage.
- Easy installation due to the rotary flanges.
- It can be manufactured as rotary flanges, Welding Ends, Fixed Flanges.
- Vacuum resistance.
- Maintenance free.





Technical Data



No	Part	Material
1	Bellows	AISI 304 / AISI 316 - 321 (optional)
2	Flange	St37-2 / AISI 304 - 316 (optional)
3	Sleeve	AISI 304 / AISI 316 - AISI 321 (optional)

DN	L30	L60	D	d	k	b	n	A	Effective Area
25	110	-	115	42.4	85	16	4	14	17.87
32	110	-	140	42.4	100	18	4	18	17.87
40	120	-	150	48.3	110	18	4	18	23.25
50	120	180	165	60.3	125	20	4	18	37.02
65	120	180	185	76.1	145	20	4	18	57.49
80	120	180	200	88.9	160	20	8	18	78.47
100	120	185	220	114.3	180	22	8	18	126.98
125	125	190	250	139.7	210	22	8	18	185.91
150	130	200	285	168.3	240	24	8	22	266.34
200	150	230	340	219.1	295	26	12	22	441.34
250	165	245	405	273	355	29	12	26	678.87
300	165	245	460	323.9	410	32	12	26	950.88



MV-640

VIBRATION EXPANSION JOINT

Production Standards

Size Range	DN25 - DN300
Pressure Range	PN10 - PN16 - PN25 - PN40
Design	EN 14917 & EJMA
Connection	EN 1092-2 / ISO 7005-2 Rotating Flanged
Face to face	EN 14917
Marking	EN 19
Tests	EN 12266-1
Temperature	-10°C to +550 °C
Expansion Range	30 mm. (-20 +10)

640



Product Description

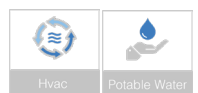
MV-640 Vibration Expansion Joint product protects the pipeline by absorbing high stress due to outer temperature differences. They remove vibration and variation, effectively that caused by expansion and contraction of the pipeline.

Application Areas

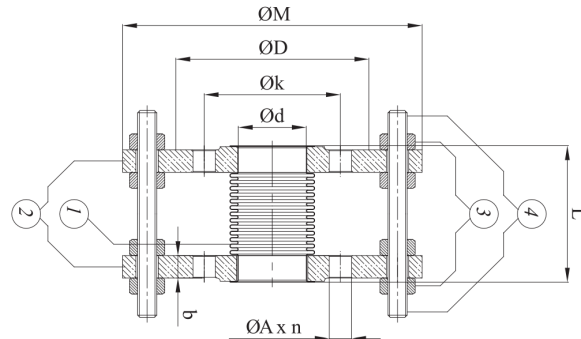
- Hot and Cold Water Systems
- Central heating
- Superheated water
- Steam
- Industrial Applications
- Pump and Compressors
- Marine & Exhaust systems
- HVAC lines

Product Features

- Made of multilayer bellows with compact structure.
- Efficient in high pressure and corrosive pipelines.
- Mostly used to eliminate vibration at the pump inlet and outlet.
- Limit rods absorb unwanted forces by actual movement limiting fluid pressure. Therefore, the fix support is no required.
- Despite rubber expansion joints, stainless steel bellows can resist atmospheric damage when used in outdoors.
- Designed for high temperature usage.
- Designed to reduce noise and release stress.



Technical Data



No	Part	Material
1	Bellows	AISI 304 / AISI 316 - 321 (optional)
2	Flange	St37-2 / AISI 304 - 316 (optional)
3	Nut	St37-2 / AISI 304 - AISI 316 (optional)
4	Rod	St37-2 / AISI 304 - AISI 316 (optional)

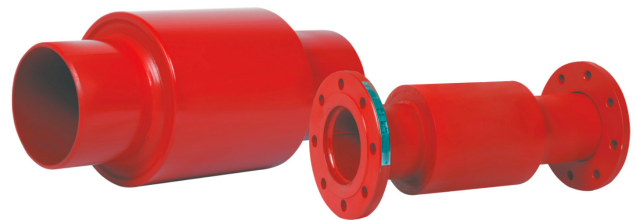
DN	L30	L60	D	d	k	b	n	A	M	Effective Area
25	110	-	115	42.4	85	16	4	14	177	17.87
32	110	-	140	42.4	100	18	4	18	202	17.87
40	120	-	150	48.3	110	18	4	18	212	23.25
50	120	180	165	60.3	125	20	4	18	227	37.02
65	120	180	185	76.1	145	20	4	18	281	57.49
80	120	180	200	88.9	160	20	8	18	296	78.47
100	120	185	220	114.3	180	22	8	18	316	126.98
125	125	190	250	139.7	210	22	8	18	346	185.91
150	130	200	285	168.3	240	24	8	22	384	266.34
200	150	230	340	219.1	295	26	12	22	447	441.34
250	165	245	405	273	355	29	12	26	515	678.87
300	165	245	460	323.9	410	32	12	26	570	950.88

MV-650

EXTERNALLY PRESSURIZED EXPANSION JOINT

Production Standards

Size Range	DN25 - DN300
Pressure Range	PN10 - PN16 - PN25 - PN40
Design	EN 14917 & EJMA
Connection	EN 1092-2 / ISO 7005-2 Rotating Flanged, Fixed Flanged, Welding End
Face to face	EN 14917
Marking	EN 19
Tests	EN 12266-1
Temperature	-10°C to +550 °C
Expansion Range	30 mm. (-20 + 10) 45 mm. (-30+15) 60 mm. (-40+20) 90mm. (-60 +30) 120 mm. (-80mm +40)



650

Product Description

MV-650 Externally Pressurized Expansion Joint takes pressure from the outside of the bellows element rather than on the inside as in a conventional expansion joint. The stabilizing effect of the external pressure increases the bellows capacity to absorb high axial movements without squirm making the externally pressurized expansion joints the best solution for applications involving very high axial movements.

Application Areas

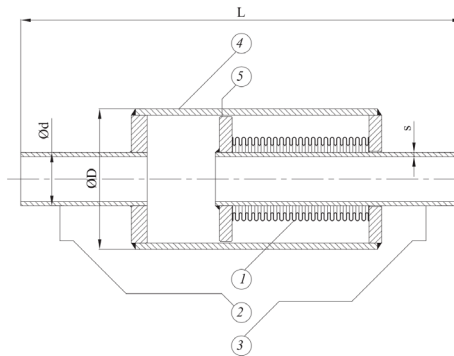
- Hot and Cold Water Systems
- Central heating
- Superheated water
- Steam
- Industrial Applications

Product Features

- Absorbs axial and lateral movements while retaining the pressure thrust.
- Mostly used in long pipelines in order to reduce number of fix points, to use less number of extension joints.
- Bellow does not affected by external forces due to isolation of bellow.
- Eliminates pressure instability
- Designed for high temperature usage especially boiling water.
- Rotating flange, Fixed flange or Welding Neck connection type are available
- Eliminates main anchors.
- Better flexibility for piping layout.



Technical Data



No	Part	Material
1	Bellows	AISI 304 / AISI 316 - 321 (optional)
2	Welded Neck	St37-2 / AISI 304 - 316 (optional)
3	Internal Pipe	St37-2 / AISI 304 - AISI 316 (optional)
4	External Pipe	St37-2 / AISI 304 - AISI 316 (optional)
5	Collar	St37-2 / AISI 304 - AISI 316 (optional)

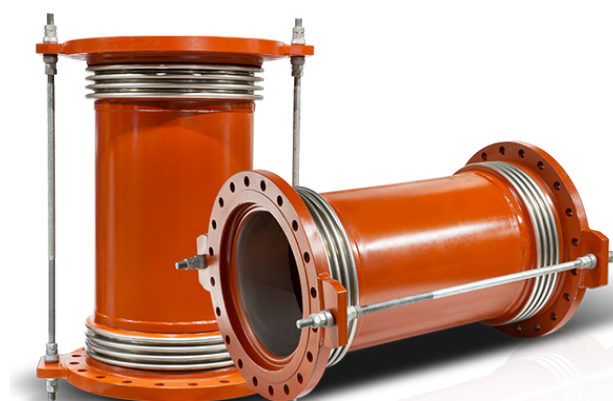
DN	L30	L60	L90	L120	d	s	D	Effective Area
25	340	470	500	580	42.4	3.2	88.9	17.87
32	340	470	500	640	42.4	3.2	88.9	17.87
40	340	470	510	660	48.3	3.2	88.9	23.25
50	350	460	490	660	60.3	3.6	114.3	37.02
65	350	460	480	720	76.1	3.6	114.3	57.49
80	350	450	480	630	88.9	4	139.7	78.47
100	360	460	490	670	114.3	4.5	165.1	126.98
125	360	470	500	680	139.7	5	219.1	185.91
150	380	490	520	680	168.3	5	219.1	266.34
200	400	510	540	750	219.1	6.3	273	441.34
250	420	520	550	790	273	6.3	355.6	678.87
300	440	550	580	810	323.9	7.1	406.4	950.88

MV-660

DILATATION EXPANSION JOINT

Production Standards

Size Range	DN25 - DN300
Pressure Range	PN10 - PN16 - PN25 - PN40
Design	EN 14917 & EJMA
Connection	EN 1092-2 / ISO 7005-2 Rotating Flanged, Fixed Flanged, Welding End
Face to face	EN 14917
Marking	EN 19
Tests	EN 12266-1
Temperature	-10°C to +550 °C
Expansion Range	$\Delta L=30$ mm. Y: 25-50-75-100mm. $\Delta L=60$ mm. Y: 25-50-75-100mm.



660

Product Description

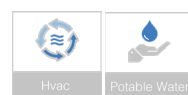
MV-660 Dilatation Expansion Joint also known as universal joints. They are made of two bellows separated by intermediate pipe. Due to the design feature, they have ability to absorb wide movements and compensate the movement in three axis in any platform and released the stress.

Application Areas

- Hot and Cold Water Systems
- Firefighting pipelines
- Dilatation
- Superheated water,
- Steam
- Pumps and compressors
- Industrial Applications
- Marine & Exhaust systems
- HVAC lines

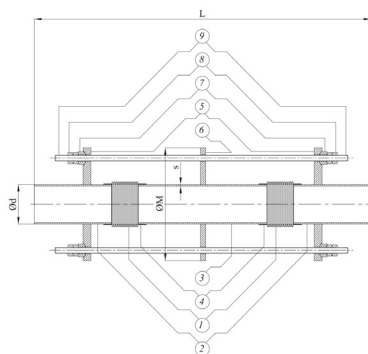
Product Features

- Absorb lateral movements in all axis
- Wide movement capacity
- Better flexibility for piping layout
- With its limit rods, the expansion range can be set in adjusted range
- Designed for high temperature usage
- Rotating flange, Fixed flange or Welding End connection type are available





Technical Data



No	Part	Material
1	Bellows	AISI 304 / AISI 316 - AISI 321 (optional)
2	Welded Neck	St37-2 / AISI 304 - AISI 316 (optional)
3	Intermediate Pipe	St37-2 / AISI 304 - AISI 316 (optional)
4	Band	AISI 304 / AISI 316 - AISI 321 (optional)
5	Rod Holder	St37-2 / AISI 304 - AISI 316 (optional)

No	Part	Material
6	Rod Holder	St37-2 / AISI 304 - AISI 316 (optional)
7	Ring	St37-2 / AISI 304 - AISI 316 (optional)
8	Nut	St37-2 / AISI 304 - AISI 316 (optional)
9	Rod	St37-2 / AISI 304 - AISI 316 (optional)

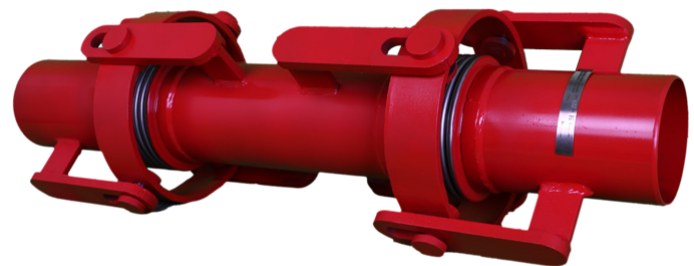
DN	x	y:±50	y:±100	y:±150	y:±200	d	s	M	Effective Area
25	30	540	640	740	840	42.4	3.2	147	17.87
32	30	540	640	740	840	42.4	3.2	147	17.87
40	30	540	640	740	840	48.3	3.2	147	23.25
50	30	610	710	810	910	60.3	3.6	161	37.02
65	60	610	710	810	910	76.1	3.6	189	57.49
80	60	660	760	860	960	88.9	4	211	78.47
100	60	660	760	860	960	114.3	4.5	242	126.98
125	60	700	900	1000	1100	139.7	5	282	185.91
150	60	700	900	1000	1100	168.3	5	327	266.34
200	60	750	950	1050	1150	219.1	6.3	419	441.34
250	60	850	1050	1150	1250	273	6.3	491	678.87
300	60	1000	1200	1300	1400	323.9	7.1	542	950.88

MV-670

ANGULAR EXPANSION JOINT

Production Standards

Size Range	DN25 - DN300
Pressure Range	PN10 - PN16 - PN25 - PN40
Design	EN 14917 & EJMA
Connection	EN 1092-2 / ISO 7005-2 Rotating Flanged, Fixed Flanged, Welding End
Face to face	EN 14917
Marking	EN 19
Tests	EN 12266-1
Temperature	-10°C to +550 °C
Expansion Range	X: 100mm., YZ: 100-200-300-400mm.



670

Product Description

MV-670 Angular Expansion Joints are designed to absorb very high amounts of movements in all X,Y,Z directions caused by earthquakes and sudden collapses. By this function pipeline damage can be prevented. Angular Expansion Joints are highly flexible and mobile joints which reduce stress on rigid pipelines. Combination of gimbal compensators and external pressure axial compensators composes the IV-670. This composition absorbs bigger lateral and axial movements. These bellows systems prevents the bending of the pipeline due to the pressure load.

Application Areas

- Hot and Cold Water Systems
- Potable Water
- Fire Lines
- Superheated water

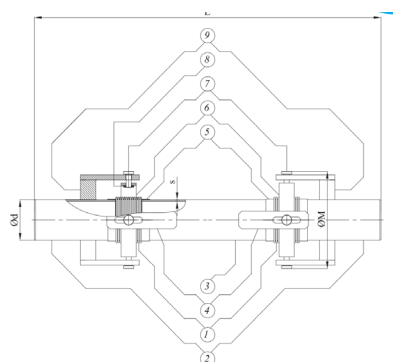
Product Features

- Reduces number of fixed points and roller bearings
- Can absorb lateral or angular movements in all axis
- Protects the pipeline from earthquakes and collapses
- High movement capacity for large temperature differences
- Designed for high temperature usage
- Better flexibility for piping layout
- Eliminates pressure instability
- Pressure balance by bellows prevent twists on the pipeline.





Technical Data



No	Part	Material
1	Bellows	AISI 304 / AISI 316 - AISI 321 (optional)
2	Welded Neck	St37-2 / AISI 304 - AISI 316 (optional)
3	Intermediate Pipe	St37-2 / AISI 304 - AISI 316 (optional)
4	Plate	St37-2 / AISI 304 - AISI 316 (optional)
5	Band	AISI 304 / AISI 316 - AISI 321 (optional)

No	Part	Material
6	Gimbal	St37-2 / AISI 304 - AISI 316 (optional)
7	Pin	St37-2 / AISI 304 - AISI 316 (optional)
8	Washer	St37-2 / AISI 304 - AISI 316 (optional)
9	Short Plate	St37-2 / AISI 304 - AISI 316 (optional)

DN	x	y:±50	y:±100	y:±150	y:±200	d	s	M	Effective Area
25	100	710	910	1110	1310	42.4	3.2	147	17.87
32	100	710	910	1110	1310	42.4	3.2	147	17.87
40	100	710	910	1110	1310	48.3	3.2	160	23.25
50	100	790	990	1190	1410	60.3	3.6	180	37.02
65	100	785	995	1235	1485	76.1	3.6	200	57.49
80	100	815	1015	1255	1485	88.9	4	218	78.47
100	100	835	1035	1285	1535	114.3	4.5	266	126.98
125	100	965	1165	1465	1765	139.7	5	292	185.91
150	100	965	1165	1465	1765	168.3	5	347	266.34
200	100	1125	1325	1685	2035	219.1	6.3	412	441.34
250	100	1125	1325	1685	2085	273	6.3	464	678.87
300	100	1185	1385	1735	2135	323.9	7.1	515	950.88



MV-700

Y-STRAINER

Production Standards

Size Range	DN15 - DN600
Pressure Range	PN10 - PN16
Connection	En1092-2 ISO 7005 Flanged
Face to face	EN 558 Series 14 / DIN 3202 F1
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic Powder Epoxy
Temperature	+200 °C

700



Product Description

Y-Strainers are very crucial component of the piping systems that protect pumps, meters, control valves and other mechanical equipment on the pipeline from the dirt and other solid particles carried by the fluid. Y-Strainers are named after their shape.

Application Areas

- Water&Waste water systems
- Tanks and Reservoirs
- Pumping stations
- Seawater applications
- Chamber Installation

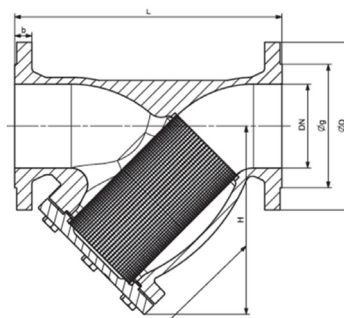
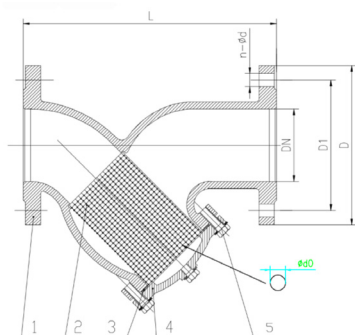
Product Features

- Filters mass particles inside the flow by steel filter chamber placed in the body.
- Can be installed horizontally and vertically as long as filters faces downwards.
- Long service life by stainless steel filter
- Screen mesh filter can be replaced by removing cover part.
- Mesh size is chosen according to wide range applications.
- Inner and outer surfaces coated by powder epoxy.
- Filtration of the metallic particles is achieved by magnetic rod that applied on cover part.





Technical Data



No	Part	Material
1	Body	Ductile Iron
2	Screen	AISI 304 Stainless Steel
3	Seating	EPDM
4	Bonnet	Ductile Iron
5	Bolt	A2 Stainless Steel

DN	L	D	g	H	b	Mesh
50	230	165	99	145	19	10
65	290	185	118	165	19	10
80	310	200	132	175	19	7
100	350	220	156	235	19	7
125	400	250	184	265	19	7
150	480	285	211	300	19	4
200	600	340	266	340	20	4
250	730	405	319	390	22	4
300	850	460	370	440	24.5	4
350	980	520	429	520	26.5	4
400	1100	580	480	630	28	4
500	1250	715	609	900	31.5	4
600	1450	840	720	1100	36	4

MV-710

GEARBOX

Production Standards

Size Range	DN40 - DN400
Pressure Range	PN10 - PN16
Design	EN ISO 5211
Marking	EN ISO 5211
Tests	EN ISO 5211
Coating	Electrostatic Powder Epoxy
Temperature	-20 °C to +80 °C



Product Description

MV-710 Gearbox has been designed for decreasing the torque needed to rotate quarter turn valves. Manual gearbox optimised to deliver reliability and consistent performance. With their simple and strong body makes them grate choice for quarter turn valve applications.

Application Areas

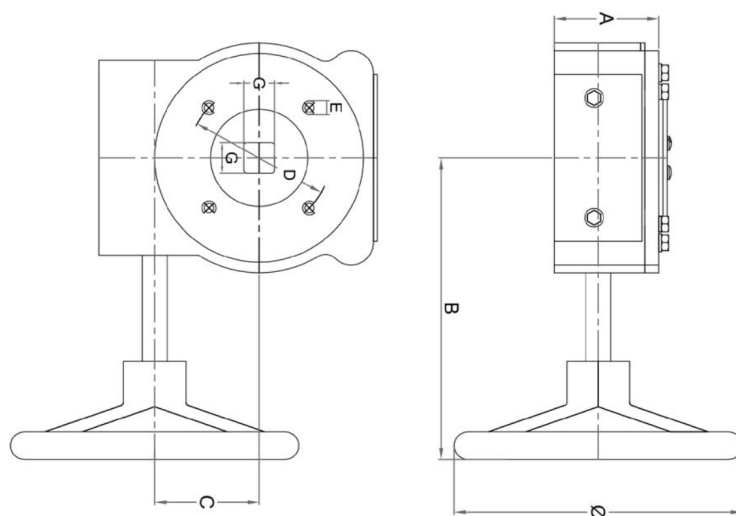
- Lug & wafer type butterfly valves
- Double eccentric butterfly valve
- Concentric butterfly valves
- Ball valves

Product Features

- Manual input
- Cast iron housing and cover
- Aluminium quadrant
- Opening and closing of the valve by single operator
- Protected steel input shaft and fasteners
- Manual actuation is usually drove by handwheels. Valves whose access location makes difficult to operate on them can be drove by chain wheels.



Technical Data



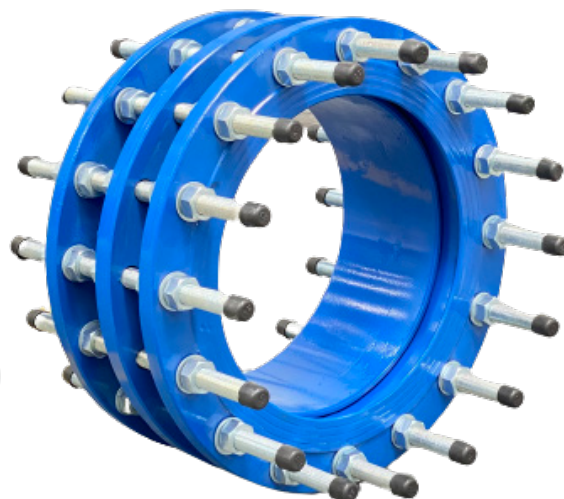
DN	Ø	A	B	C	Flange Type	D	E	GxG
40	190	60	160	47	F07	70	M8	11x11
50	190	60	160	47	F07	70	M8	11x11
65	190	60	160	47	F07	70	M8	11x11
80	190	60	160	47	F07	70	M8	11x11
100	190	65	165	45	F07	70	M8	14x14
125	190	65	165	45	F07	70	M8	14x14
150	190	65	165	45	F07	70	M8	17x17
200	295	70	235	67	F10	102	M10	17x17
250	295	70	235	67	F10	102	M10	22x22
300	295	90	230	70	F10	102	M10	22x22
350	295	90	230	70	F12	125	M12	22x22
400	390	110	240	120	F14	140	M16	27x27

MV-720

DISMANTLING JOINTS

Production Standards

Size Range	DN50 - DN2200
Pressure Range	PN10 - PN16 - PN25
Connection	EN 1092-2 ISO 7005 Flanged
Face to face	EN 558 Series 14 / DIN 3202 F4
Marking	EN 19
Tests	EN 12266-1
Coating	Electrostatic/ThermoPlastic Powder Epoxy
Temperature	+110 °C



720

Product Description

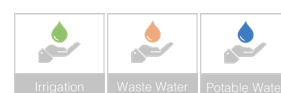
Dismantling joints play an important role in the design and layout of pipelines and valves. During the installation and removal of pipe sections and valves, dismantling joints are necessary aid. In the absence of dismantling joints, it is too hard to insert a valve exactly into a pipe section. They are essential for offering longitudinal adjustment. With this adjustment of IV-720 Dismantling joints, the valve can be fitted next to them. They reduce the operation time and ease the the installation of flanged butterfly valves, gate valves, control valves, check valves and flanged pipes and fittings.

Application Areas

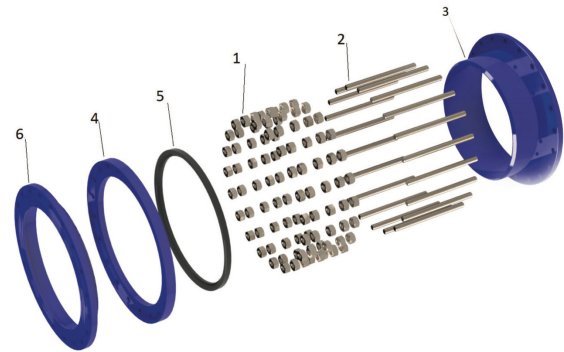
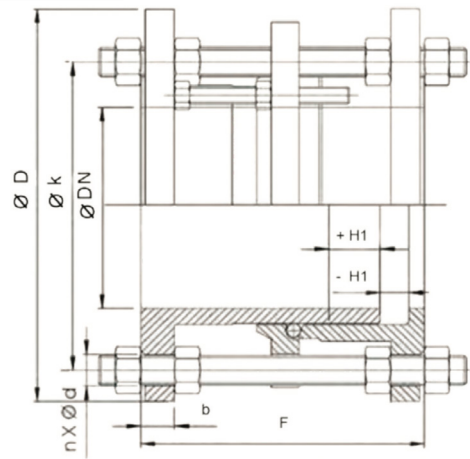
- Potable water applications
- Water treatment and distribution lines
- Industrial applications
- Shipbuilding and drilling facilities
- Pumping stations
- Oil and gas processes
- Seawater applications

Product Features

- Fully restrained and unrestrained configurations.
- EPDM sealing gaskets.
- Ductile iron GGG-40/50 body galvanized 8.8 bolts, nuts and washers.
- The ductile iron body has high resistance to the high tension stress which can occur at the pipelines.
- Easy installation and light weight.
- High-quality FBE coatings protect dismantling joints from long term corrosion.



Technical Data



No	Part	Material
1	Nut	8.8 Galvanized Steel
2	Stud Bolt	8.8 Galvanized Steel
3	Flanged Pipe - Long	Ductile Iron
4	Flange	St37 / GGG40 - GGG50
5	Gasket	EPDM
6	Flange Pipe - Short	Ductile Iron

MM	Dimensions							Weights	
	PN 10			PN 16			H	PN 10	PN 16
DN	D	k	d2xn	D	k	d2xn	H	Kg	Kg
50	165	125	19x4	165	125	19x4	40	8	8
65	185	145	19x4	185	145	19x4	40	9	9
80	200	160	19x8	200	160	19x8	40	16	16
100	220	180	19x8	220	180	19x8	40	21	21
125	250	210	19x8	250	210	19x8	40	26	26
150	285	240	23x8	285	240	23x8	40	35	35
200	340	295	23x8	340	295	23x12	40	46	50
250	400	350	23x12	405	355	28x12	40	70	80
300	455	400	23x12	460	410	28x12	40	90	99
350	505	460	23x16	520	470	28x16	40	105	140
400	565	515	28x16	580	525	31x16	40	135	165
450	615	565	28x20	640	585	31x20	40	145	190
500	670	620	28x20	715	650	34x20	40	155	210
600	780	725	31x20	840	770	37x20	40	215	300
700	895	840	31x24	910	840	37x24	40	265	340
800	1015	950	34x24	1025	950	41x24	40	310	400
900	1115	1050	34x28	1125	1050	41x28	40	370	450
1000	1230	1160	37x28	1255	1170	44x28	40	450	500
1100	1340	1270	37x32	1355	1270	44x32	40	600	700
1200	1455	1380	41x32	1485	1390	50x32	40	730	840
1300	1585	1490	42x32	1585	1490	50x32	40	810	950
1400	1675	1590	44x36	1685	1590	50x36	40	890	1020
1500	1785	1700	44x36	1820	1710	57x36	40	1050	1250
1600	1915	1820	50x40	1930	1820	57x40	40	1680	2100
1800	2115	2020	50x44	2130	2020	57x44	40	2100	2800
2000	2325	2230	50x48	2345	2230	62x48	40	2400	3050
2200	2550	2440	56x56	2555	2440	62x52	40	3000	3530



MV-730

FLANGE ADAPTOR

Production Standards

Size Range	DN40 - DN600
Pressure Range	PN10 - PN16
Gasget	EPDM or NBR
Standart Flanges	Raised Flange&Reduced Bore
Marking	EN 19
Tests	EN 12266-1
Coating	Fusion Bonded Epoxy
Temperature	+110 °C



730

Product Description

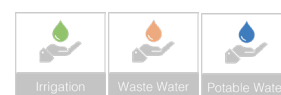
Flange adaptor is the most basic type of dismantling joint. On one side, it has a flange connection in accordance with the required flange standard, on the other an insertion socket for the pipe. A variety of standard pipe types can be connected.

Application Areas

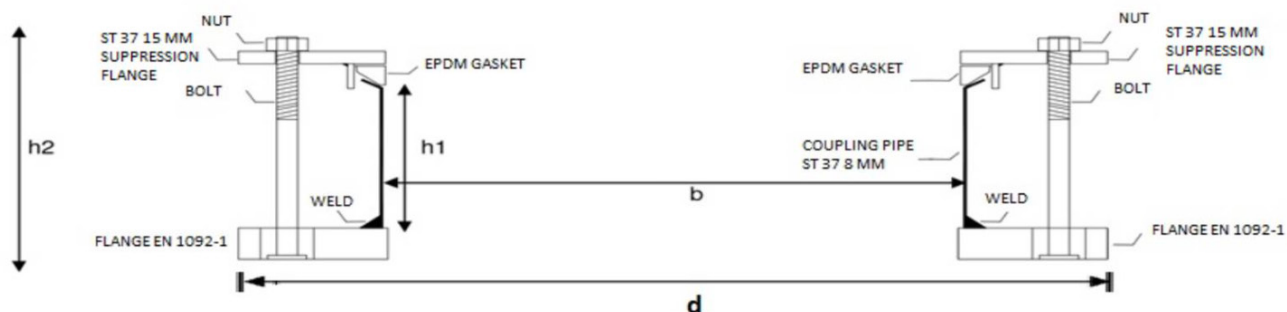
- Water distribution lines
- Water transmission pipelines
- Waste water applications
- Pumping Stations

Product Features

- Ductile Iron body with galvanized 8.8 bolts, nuts and washers.
- No need to use extra gaskets for installation.
- Adaptor has an expansion and contraction of $\pm 2,5$ mm for the gasket, and offers an adjustability of ± 25 mm during installation as well an angular deflection of 3° .
- Zero stem leakage eliminates media loss and satisfies environmental regulations.
- Can be used with steel, PVC, ductile, concrete and GRP pipes.
- Reduced bore provides to connect smaller size valves to bigger size pipes.
- Fast and Easy installation due to the compact design.



Technical Data



Type	Internal Diameter (b)	Internal Height (h1)	Total Height (h2)	Adaptor Coupling Thickness (mm)	Flange	Flange Standart	Bolts & Nuts	Gasket	Coating
Dn80 88*133 Flange Adaptor	103	125	200	5mm St37	DN80 PN10/PN16	EN 1092	M14/200 St37 4 sets	EPDM	Blue Epoxy
Dn100 109*126 Flange Adaptor	128	125	200	5mm St37	DN100 PN10/PN16	EN 1092	M14/200 St37 4 sets	EPDM	Blue Epoxy
Dn125 138*153 Flange Adaptor	155	125	200	5mm St37	DN125 PN10/PN16	EN 1092	M14/200 St37 4 sets	EPDM	Blue Epoxy
Dn150 159*181 Flange Adaptor	183	125	200	5mm St37	DN150 PN10/PN16	EN 1092	M14/200 St37 4 sets	EPDM	Blue Epoxy
Dn200 215*230 Flange Adaptor	243	125	200	5mm St37	DN200 PN10/PN16	EN 1092	M14/200 St37 4 sets	EPDM	Blue Epoxy
Dn200 230*243 Flange Adaptor	243	125	200	5mm St37	DN200 PN10/PN16	EN 1092	M14/200 St37 4 sets	EPDM	Blue Epoxy
Dn250 280*300 Flange Adaptor	302	125	200	5mm St37	DN250 PN10/PN16	EN 1092	M14/200 St37 6 sets	EPDM	Blue Epoxy
Dn300 315*332 Flange Adaptor	334	125	200	5mm St37	DN300 PN10/PN16	EN 1092	M14/200 St37 6 sets	EPDM	Blue Epoxy
Dn300 340*357 Flange Adaptor	357	125	200	5mm St37	DN300 PN10/PN16	EN 1092	M14/200 St37 6 sets	EPDM	Blue Epoxy
Dn350 269*385 Flange Adaptor	391	125	200	5mm St37	DN350 PN10/PN16	EN 1092	M14/200 St37 6 sets	EPDM	Blue Epoxy
Dn350 394*411 Flange Adaptor	413	125	200	5mm St37	DN350 PN10/PN16	EN 1092	M14/200 St37 8 sets	EPDM	Blue Epoxy
Dn400 418*435 Flange Adaptor	437	125	200	5mm St37	DN400 PN10/PN16	EN 1092	M14/200 St37 8 sets	EPDM	Blue Epoxy
Dn400 449*472 Flange Adaptor	474	125	200	5mm St37	DN400 PN10/PN16	EN 1092	M14/200 St37 8 sets	EPDM	Blue Epoxy
Dn500 495*512 Flange Adaptor	514	125	200	5mm St37	DN500 PN10/PN16	EN 1092	M14/200 St37 10 sets	EPDM	Blue Epoxy
Dn500 521*538 Flange Adaptor	540	125	200	5mm St37	DN500 PN10/PN16	EN 1092	M14/200 St37 10 sets	EPDM	Blue Epoxy
Dn500 552*572 Flange Adaptor	574	125	200	5mm St37	DN500 PN10/PN16	EN 1092	M14/200 St37 10 sets	EPDM	Blue Epoxy
Dn600 601*618 Flange Adaptor	620	125	200	5mm St37	DN600 PN10/PN16	EN 1092	M14/200 St37 12 sets	EPDM	Blue Epoxy
Dn600 623*640 Flange Adaptor	640	125	200	5mm St37	DN600 PN10/PN16	EN 1092	M14/200 St37 12 sets	EPDM	Blue Epoxy
Dn600 575*700 Flange Adaptor	700	125	200	5mm St37	DN600 PN10/PN16	EN 1092	M14/200 St37 12 sets	EPDM	Blue Epoxy



MV-740

COUPLINGS

Production Standards

Size Range	DN40 - DN600
Pressure Range	PN10 - PN16
Gasget	EPDM or NBR
Standart Flanges	Raised Flange&Reduced Bore
Marking	EN 19
Tests	EN 12266-1
Coating	Fusion Bonded Epoxy
Temperature	+110 °C



740

Product Description

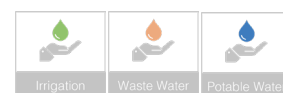
MV-740 Couplings allow needed repairs and modifications on the pipelines with different size and types. Couplings are useful for aligning the pipeline and absorbing vibrations and noises. Couplings allow an expansion and contraction of $\pm 2,5$ mm and an angular deflection of 3° for each gasket.

Application Areas

- Water distribution lines
- Water transmission pipelines
- Waste water applications
- Pumping Stations

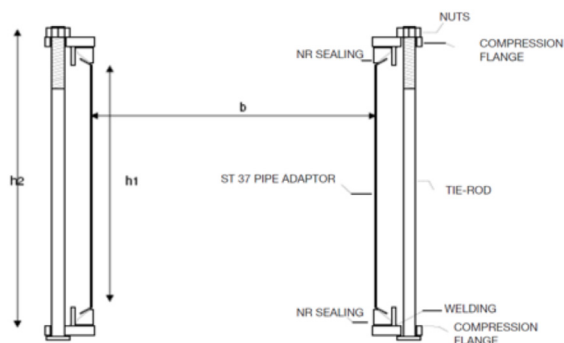
Product Features

- Compact Ductile iron body allows quick and easy installation
- Angular misaligned pipes can be connected easily.
- Can be used with carbon steel, PVC, ductile iron and politehylene pipelines.
- Reduced bore pipe couplings can connect different size pipes.
- Fusion bonded epoxy coated body protects from corrosion.
- Can be used at sewage and drainage pipelines with NBR gasket.
- Follower End Rings and middle ring guarantees zero leakage.
- Flange drilling according to EN 1092-2/ISO 7005-2





Technical Data



DN (mm)	Corresponding Size	Pipe Size Range	Internal Diameter (b) mm	Internal Height (h1) mm	Total Height (h2) mm	Coupling Thickness (mm)	Suppression Flange	Bolds and Nuts	Gasket	Pressure Range	Coating
100	110 mm	109 - 126	128	190	260	5 mm St37	GGG 40	M14/270 St37 4 sets	EPDM / NBR	10 - 16 - 25	Blue Epoxy
150	160 mm	155 - 170	183	180	260	5 mm St37	GGG 40	M14/270 St37 4 sets	EPDM / NBR	10 - 16 - 25	Blue Epoxy
200	225 mm	215 - 230	243	180	260	5 mm St37	GGG 40	M14/270 St37 4 sets	EPDM / NBR	10 - 16 - 25	Blue Epoxy
250	250 mm	270 - 275	302	250	350	5 mm St37	GGG 40	M14/360 St37 6 sets	EPDM / NBR	10 - 16 - 25	Blue Epoxy
300	300 mm	315 - 332	334	250	350	5 mm St37	GGG 40	M14/360 St37 6 sets	EPDM / NBR	10 - 16 - 25	Blue Epoxy
350	350 mm	340 - 357	359	250	350	5 mm St37	GGG 40	M14/360 St37 6 sets	EPDM / NBR	10 - 16 - 25	Blue Epoxy
400	400 mm	418 - 435	437	250	350	5 mm St37	GGG 40	M14/360 St37 8 sets	EPDM / NBR	10 - 16 - 25	Blue Epoxy
500	500 mm	495 - 512	514	250	350	5 mm St37	GGG 40	M14/360 St37 10 sets	EPDM / NBR	10 - 16 - 25	Blue Epoxy
600	600 mm	623 - 640	640	250	350	5 mm St37	GGG 40	M14/360 St37 12 sets	EPDM / NBR	10 - 16 - 25	Blue Epoxy

MV-750

EXTENSION SPINDLE & SURFACE BOX SET

Product Description

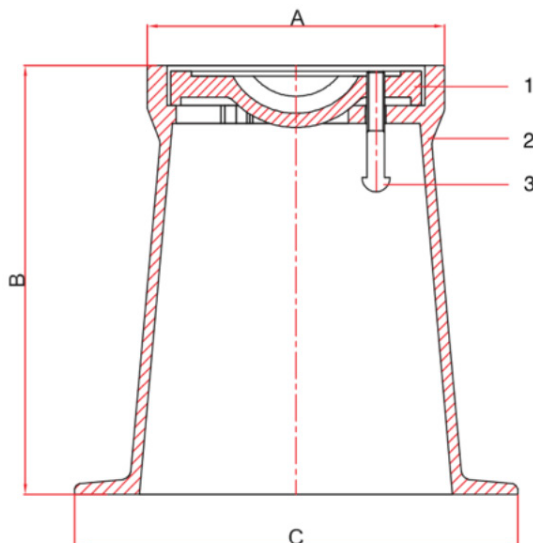
Extension Spindle&Surface box set is an useful kit for actuating the valves and hydrants installed underground from below ground.

Product Features Extension Spindle

- Extension Spindle manufactured from ST 37 steel
- Locking mechanism enables rigid position.
- Rigid and Telescopic types are available.
- Available in three different height range.
- PE ensures corrosion resistant
- Easy to actuate valve with Pin mechanism.
- Long service life.

Product Features Surface box

- Ductile/cast iron body is durable to heavy loads.
- Surface box protects spindle from dirt.
- Bitumen coated.
- Makes it easier to locate and operate valves.
- Compact Size & Light weight
- Can be locked mechanically against theft.



750

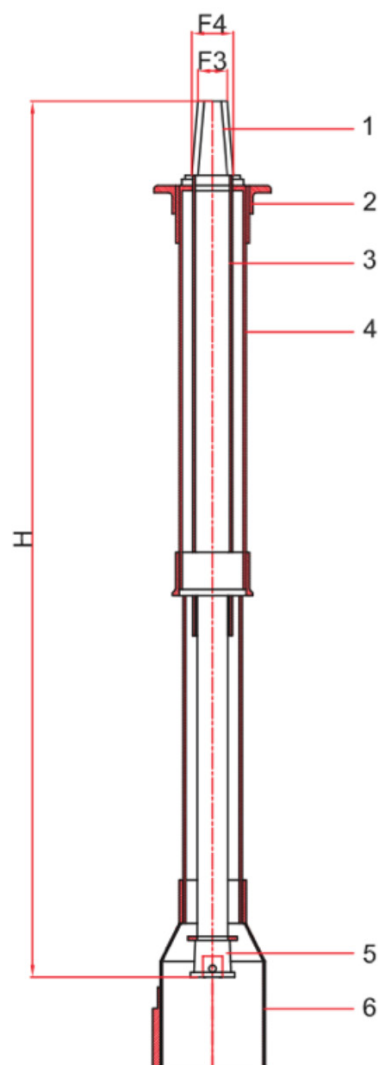


Application Areas

- Hot&Cold Water
- Fire Protection
- Steam
- Water Distribution
- House connection lines

No	Part	Material
1	Cover	GG25 Gray Iron / GGG40 Ductile Iron
2	Body	GG25 Gray Iron / GGG40 Ductile Iron
3	Pin	St37 Steel

No	Small (mm)	Large (mm)
A	182	170
B	242	178
C	259	206



No	Part	Material
1	T-Key Adaptor	Ductile Iron
2	Top Adaptor	PE
3	Stem	Galvanised Steel
4	Cover Tube	PE
5	Spindle Adaptor	Ductile Iron
6	Bottom Cover	PE

Type	Valve Size Range	Spindle Height (H)
Short	DN50 - 300	450 - 700 mm
Medium	DN50 - 300	650 - 1100 mm
High	DN50 - 300	1050 - 1750 mm

No	T-Key Adaptor Size
F3	23 ± 2 mm
F4	32 ± 2 mm



MV-760

FOOT VALVE

Production Standards

Size Range	DN40 - DN600
Pressure Range	PN10 - PN16
Connection	EN 1092-2 ISO 7005 Flanged
Marking	EN 19
Tests	EN 12266-1
Coating	Industrial Epoxy
Temperature	+130 °C



760

Product Description

MV-760 Foot Valves used to prevent back flow of the medium from the suction pipe of pumps when the pump is turned off. Strainer prevents debris from entering the piping system.

Application Areas

- Suction Lines
- Tanks & Reservoirs
- Sea water Applications

Product Features

- Spring Check Valve and Filter Combination design
- Spring check valve prevents back-flow and discharge of the pipeline
- Filter prevents residuals from entering the pipeline and harming the pump.
- Minimal head-loss due to %10 larger flow area than pipe size
- Long service life at low and high pressures.
- Optimize pumping efficiency.

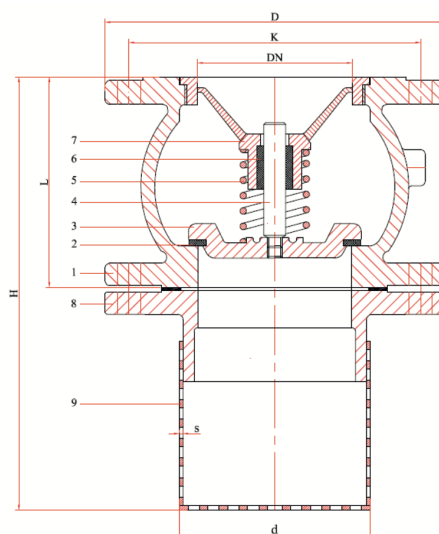
Accessories

- Extension spindle
- Surface Box
- T key





Technical Data



No	Part	Material
1	Body	EN-GCS - 400 Ductile Iron
2	Seat	1.4301 - AISI 429 Stainless Steel
3	Disc	EN-GCS - 400 Ductile Iron
4	Stem	1.4301 - AISI 429 Stainless Steel
5	Spring	1.4301 - AISI 429 Stainless Steel
6	Ring	PTFE
7	Guide	EN-GCS - 400 Ductile Iron
8	Flange	EN-GCS - 400 Ductile Iron
9	Basket	1.4301 - AISI 429 Stainless Steel

DN	40	50	65	80	100	125	150	200	250	300	350	400	500	600
L	85	100	120	140	170	200	230	288	354	395	472	560	670	710
H	185	200	245	280	320	400	450	510	600	650	735	860	1020	1400
d	71	81	101	111	140	161	190	235	295	354	410	454	554	654
S	1.5	1.5	1.5	1.5	1.5	1.5	2	2	2	2	2	2.5	2.5	2.5
Kv	47	99	159	222	396	619	890	1120	2010	2459	2843	4280	6914	9533
D-PN10	150	165	185	200	220	250	285	340	395	445	505	565	670	780
K-PN10	110	125	145	160	180	210	240	295	350	400	460	515	620	725
D-PN16	150	165	185	200	220	250	285	340	405	460	520	580	715	840
K-PN16	110	125	145	160	180	210	240	295	355	410	470	525	650	770
Kg	6.2	8.8	11	14	19.5	30.5	39	64.5	110	156	250	342	590	630