KENNEDY VALVE

MIPL

KENNEDY VALVE

McWANE India Pvt Ltd

www.kennedyvalveindia.com

KENNEDY VALVE

MIPL

Kennedy Valve Company

A Division of McWANE, Inc

A TRADITION OF MORE THAN 125 YEARS:
Kennedy Valve Since 1877

Located in the bustling town of Elmira, New York in USA, Kennedy Valve started in l877. Recognized as one of the most experienced manufacturers and suppliers of water works products in the country, Kennedy does it all. Our modern facilities and cutting edge technologies have made us an economic, environmental and community leader. From state of the art environmental upgrades to advanced training initiatives and community out reach, we're working everyday to make sure that Kennedy is the best in the business.

Highlights

- Daniel Kennedy starts making gate valves in a shop on Gold Street in lower Manhattan.
- To provide larger manufacturing facilities, the plant is moved to Coxsackie, New York. The D.Kennedy firm becomes the Kennedy Valve Manufacturing Co.
- The Kennedy Valve business continues to develop rapidly and a larger, more modern plant is built on a 20- acre site in Elmira, New York - now 52.59 acres.
- Kennedy Valve expands with the addition of a brass foundry.
- The plant receives three Maritime Commission awards to manufacture eight million valves for the Victory Fleet.

Manufacturing Plant

The factory is certified to the ISO 9001 :2015 Quality Management Systems standards. Kennedy Valve received this certification from ULDQS, an ANAB registrar. The plant is committed to Quality, Innovation, Safety and Environmental management systems.

Environmental, Health & Safety policy

Compliance: We will manage our business activities to meet all government laws and regulations as well as internally established environmental, health, and safety requirements. Our goal is 100% compliance, 100% of the time.

Protection: We will conduct our activities in a responsible manner to protect our employees, the public, and the environment, and to minimize impacts from our operations.

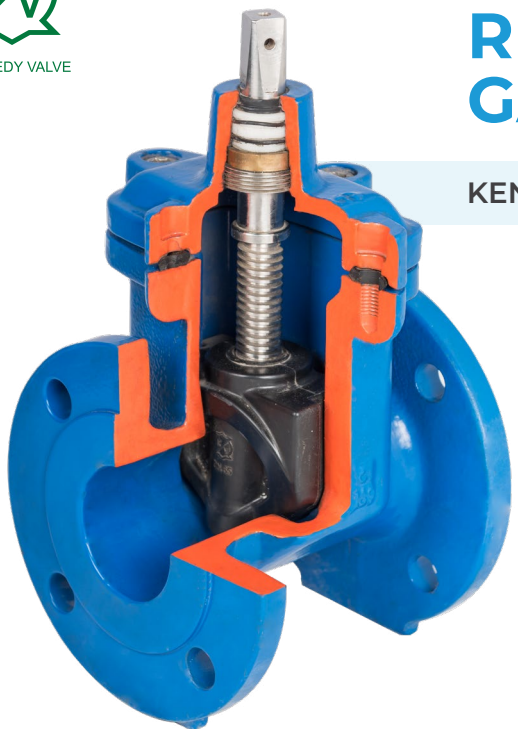
Improvement: We will strive to continually improve our environmental, health, and safety performance.

Ductile Iron Valves and Hydrants

We believe that Ductile Cast Iron is the natural Green material for water transmission with 100% recyclable properties. Kennedy valves and hydrants are considered as some of the most reliable and dependable products meeting the following customer expectations:

- Long service Life
- Economical installed cost
- Maintenance free operation
- Excellent corrosion resistant FBE coating
- Tight shut off

KENNEDY VALVE



RESILIENT SEATED GATE VALVES

KENNEDY SERIES 31 to IS/BS/EN/ISO Standards

Kennedy Gate Valves with their unique features have been used in the water and fire protection industries since 1877. Our Series 31 Gate valves conform to IS / BS / EN / ISO standards and have been designed to maintain the high quality and integrity of existing designs but incorporates many superior features like unique integral wedge nut and a maintenance free triple stem seal design. It is NSF compliant for 60°C. Series 31 Gate Valves are made in Ductile Iron body with wedges totally encapsulated in Rubber, offering bubble tight shut off. Valves are designed with smooth unobstructed flow paths and are free of pockets, cavities and depressions in the seat area.
Valves are suitable for water and neutral liquids to a maximum temperature of 70° C.

GENERAL SPECIFICATIONS

Design & Test Standards: IS14846/BS5163/EN1171/ EN1074 - 1&2.

Type: Resilient Seated Ductile Iron Gate Valves Non Rising Stem.

Sizes: DN 50 - 800 Resilient Seated, and above up to 1800 mm Metal Seated Gate Valve are Available on Request.

Working Pressure: 10 Bar / 16 Bar / 25 Bar Available on Request.

MODELS

311: Face to Face ISO 5752 Series 3
314: Face to Face ISO 5752 Series 14
315: Face to Face ISO 5752 Series 15

FACE TO FACE

IS 14846 / BS 5163 / DIN 3202 - F4 / EN 558 / ISO 5752

FLANGES

EN 1092-2, IS 1538 / IS 9523

TEST PRESSURE

EN 1074-1&2, IS 14846
Seat Test : 1.1 x PN
Body Test :1.5 x PN

COATING

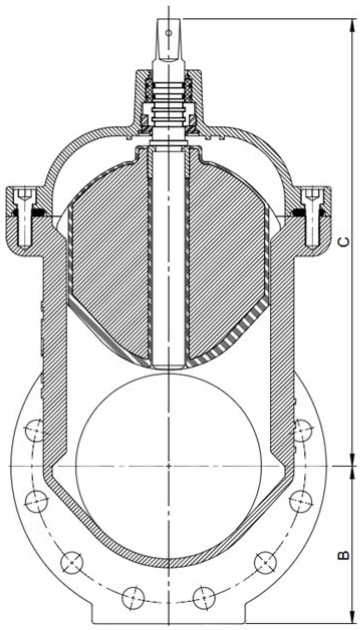
Fusion bonded non-toxic epoxy coating NSF 61 / WRAS 300 micron
Bolts are sealed with hot melt

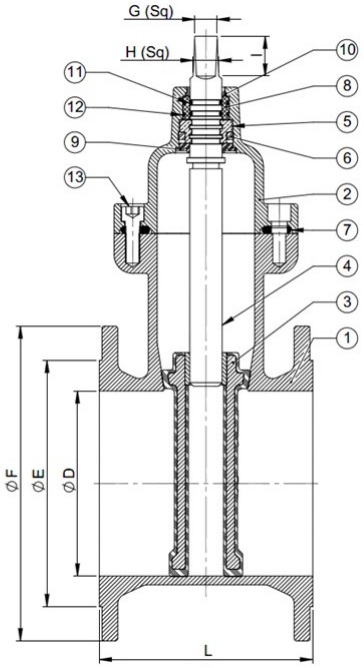
MATERIAL SPECIFICATIONS

Body & Bonnet : Ductile Iron - GGG50 / GGG40	**0 Rings :** EPDM
Wedge : EPDM encapsulated Ductile Iron	**Thrust Collar :** Copper Alloy, (Ph.Bronze)
Stem : Stainless Steel 316 & 420	**Bonnet Gasket :** EPDM
Wedge Nut : Copper Alloy, (Ph.Bronze)	**Stem Bearing :** Polyamide Polymer
Bolt & Nuts : Stainless Steel A4	**Coating :** Fusion Bonded Epoxy 300 µm

EPDM Rubber with NSF 61 / WRAS approval suitable for potable water. Please check with us for other material combinations.

DIMENSIONS AND PART LIST - RS GATE VALVE SERIES 31





COMPONENTS LIST

1. Body
2. Bonnet
3. Wedge
4. Stem
5. Thrust Collar
6. Thrust Collar Nut
7. Gasket
8. Bush
9. Seal
10. End Seal
11. 0 Ring Stem
12. O Ring Bush
13. Socket Head Cap Screw

DIMENSIONS (MM)

SIZE DN	L			B	C	ØD	ØE	ØF	G (SQ)	H (SQ)	I	WEIGHT APPROX. (KG.)		
	MODEL 314	MODEL 311	MODEL 315									MODEL 314	MODEL 311	MODEL 315
50	150	178	250	82.5	217	50	99	165	13.5	16	26.5	12	12	13
65	170	190	270	92.5	234	65	118	185	17	20	34	15	15	16
80	180	203	280	100	261	80	132	200	17	20	34	16	17	18
100	190	229	300	110	299	100	156	220	19	22	38	20	21	23
125	200	254	325	125	355	125	184	250	19	22	38	33	35	36
150	210	267	350	142.5	393	150	211	285	19	22	38	40	42	45
200	230	292	400	170	483	200	266	340	24	28	43	60	63	68
250	250	330	450	200	568	250	319	400	27	31	47	84	89	96
300	270	356	500	227.5	686	300	370	455	27	31	47	148	157	173
350	290	381	550	260	762	350	429	520	32	37	55	205	210	235
400	310	406	600	290	842	400	480	580	32	37	55	254	260	290

450 to 800 Resilient Seated, 700 to 1800mm Metals seated Available on Request.

Kennedy and MIPL are divisions of McWane Inc. USA

The specifications and material grades shown are subject to revision without notice based on our product improvement programme

KENNEDY VALVE

CONCENTRIC BUTTERFLY VALVE

KENNEDY SERIES 517 DN50 TO DN600 CBFV WAFER

Kennedy valves with its unique features have been used in water and fire protection industry since 1877. Our Concentric Butterfly Valve Series 517 conforms to EN / ISO / IS standards and has been designed to maintain the high quality and integrity of existing designs but incorporates many superior features. Concentric Butterfly Valve Series 517 are made in cast ductile iron body.

Valves are suitable for water and neutral liquids to a maximum temperature of 70°C.

GENERAL SPECIFICATIONS

Design & Test Standards: EN 593, IS 13095 Type: Resilient Seated Wafer (Seat on Body)

Sizes: DN50 – DN600

Working Pressure: 10 Bar / 16 Bar

MODELS

517: Wafer Type

527: Lug Type

FACE TO FACE

EN 558 Series 20

FLANGE DRILLING

ANSI B16.5 CLASS 125 & CLASS 150

BS10 TABLE D & E

IS16392 PN1.0 & PN1.6

DIN2501 PN10 & PN16

TEST PRESSURE

EN 1074-1&2, EN 12266

Seat Test: 1.1 x PN

Body Test :1.5 x PN

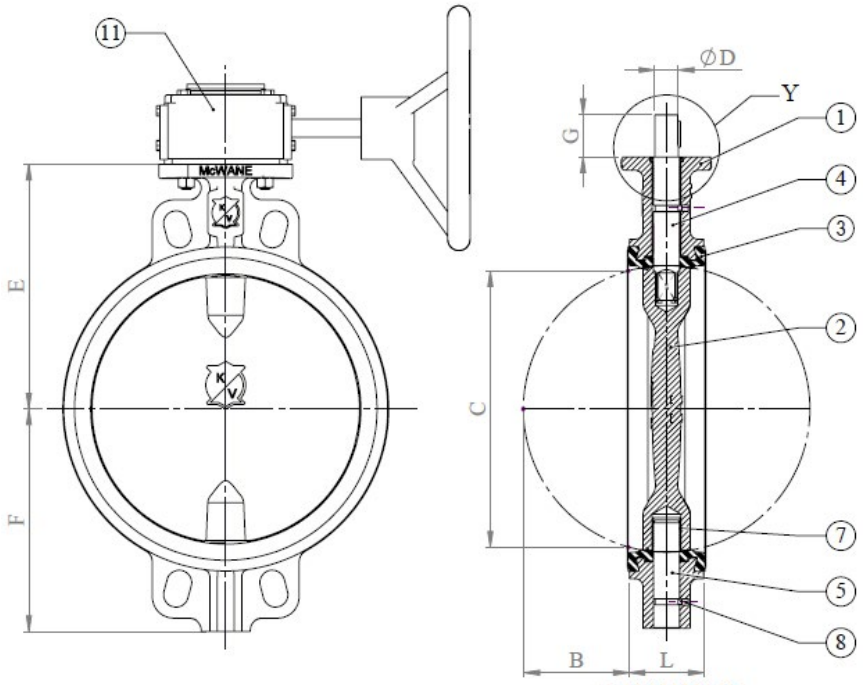
COATING

Fusion bonded non-toxic epoxy coating NSF 61 / WRAS 300-micron Bolts are sealed with hot melt.

MATERIAL SPECIFICATIONS

Body: Ductile Iron - GGG50 / GGG40
Disc: Ductile Iron - GGG50 / GGG40 & CF8M, CF3M & NI. AL. Bronze
Shaft: SS316 / SS304
Seal: EPDM
Plain Bearing: PTFE filled SS316
Bolts & Nuts: Stainless Steel A4

DIMENSIONS AND PART LIST



COMPONENTS LIST

1. Body
2. Disc
3. Seal
4. Top Shaft
5. Bottom Shaft
6. O'Ring
7. Plain Bearing
8. HEX.SOC.Half Dog
9. Key
10. Bush
11. Gear Box

DIMENSIONS (MM) FOR 16BAR

SIZE	L	B	C	E	F	G	STEM			H (SQ)	H (SQ)	TOP FLANGE ISO 5211	WEIGHT APPROX. (KG.)		
							ØD	FLAT K	KEY SIZE				BARE SHAFT	GEAR BOX	HAND LEVER
DN50	43	4.5	23	114	77	16	12	9	-	30	176	F05	2	5	2
DN65	46	10.5	45	122	84	16	12	9	-	30	176	F05	2.5	5	3
DN80	46	18	65	129	91	16	12	9	-	30	176	F05	3	6	3
DN100	52	25	86.5	141	109	19	14	11	-	30	268	F07	4	7	5
DN125	56	35.8	114	154	122	19	14	11	-	30	268	F07	6.	9	7
DN150	56	47.8	140	180	145	25	18	14	-	30	268	F07	8.5	11	9
DN200	60	70	192	220	178	30	22	17	-	65	405	F10	13.	22	14
DN250	68	92	241	250	225	45	28	22	-	73	513	F10	22	31	23
DN300	78	112	291	275	250	45	28	22	-	73	516	F12	30	43	31
DN350	92	123	324	315	275	55	28	-	8X7	-	-	F12	42	60	-
DN400	102	143	373	360	310	65	36	-	10X8	-	-	F14	60	78	-
DN450	114	162	422	385	335	65	36	-	10X8	-	-	F14	77	108	-
DN500	127	181	473	425	380	72	42	-	14X9	-	-	F14	106.5	135	-
DN600	154	217	810	503	430	90	60	-	18X11	-	-	F16	171	209	-

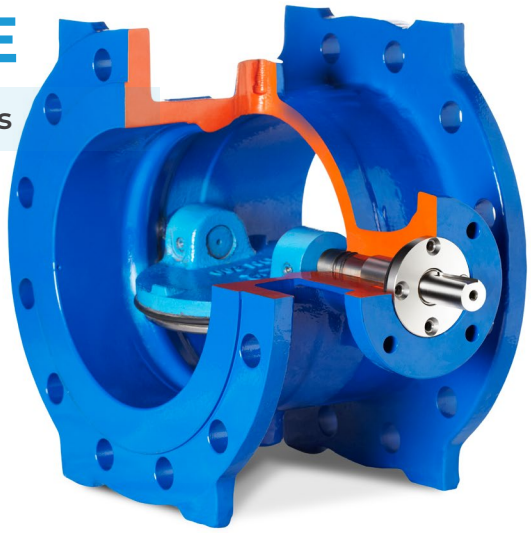
Kennedy and MIPL are divisions of McWane Inc. USA

The specifications and material grades shown are subject to revision without notice based on our product improvement programme

KENNEDY VALVE

DOUBLE OFFSET BUTTERFLY VALVE

KENNEDY SERIES 614 To IS/ BS/EN / ISO/AWWA Standards



Kennedy valves with its unique features have been used in water and fire protection industry since 1877. Our 61 Series butterfly valves conforms to EN / ISO / IS standards and has been designed to maintain the high quality and integrity of existing designs but incorporates many superior features. The double offset sealing technology with the soft sealing element on the disc to provide high sealing Performance and reliability. Series 61 butterfly valves are made in cast ductile iron body with double flanged design and integral seats and suitable for bi-directional service.
Valves are suitable for water and neutral liquids to a maximum temperature of 70°C.

OPTIONS

- SS 316 seats, Shaft in Duplex SS
- Metal Seated / Soft Seated
- External shaft locking mechanism
- Underground gear operators
- Various material combinations
- PN10 or ANSI 150 drilling
- Electric actuators
- Head stock and extension stems

GENERAL SPECIFICATIONS

BIS (ISI) Certified, NSF compliant

SIZES : DN 100 - DN 1200 DN 1400 - DN 2400 Available on Request

WORKING PRESSURE: 10 Bar/ 16 Bar

25 Bar Available on Request.

DESIGN

BS - EN 593, EN 1074-1&2, IS 13095

Face To Face EN 558 ISO 5752 , IS 13095

Actuator mounting as per ISO 5211

SERIES

13 - DN 700 to 1200

14 - DN 200 to 1200

OPERATOR

Worm Gear with hand wheel, IP67, IP68

Open and close position indicator

Electrical/ Pneumatic/ Hydraulic Actuators

Available on Request

FLANGES

EN 1092-2 - PN10 / PN16 / PN25

IS 9523 / IS 1538

TEST PRESSURE

IS 13095, EN 1074-1 &2 and EN 12266 - 1 &2

Seat Test: 1.1 X PN

Body Test: 1.5 X PN

COATING

Fusion bonded non-toxic epoxy coating NSF 61 / WRAS 300-micron Bolts are sealed with hot melt

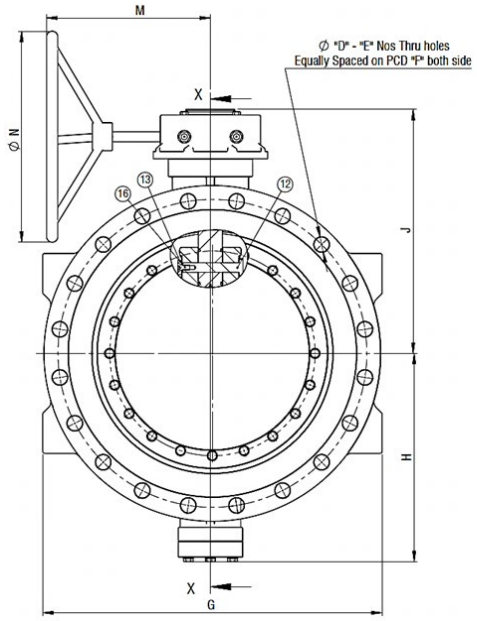
MATERIAL SPECIFICATIONS

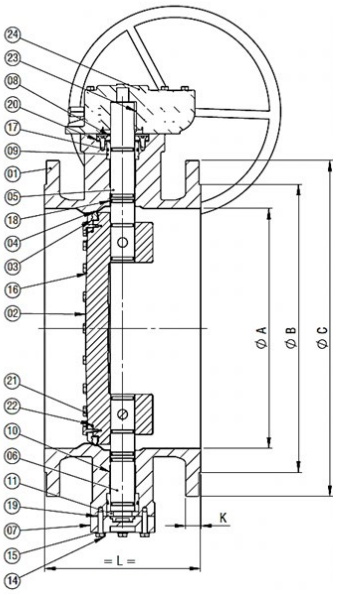
Body	Ductile GGG40 Iron EN 1563 & GGG50
Disc	Ductile Iron EN 1563 GGG50 &GGG40
Seat Retainer Ring	SS 316
Seal Ring	EPDM
Upper Shaft	SS 316
Lower Shaft	SS 316

Bottom Flange	CF8M
Gland Plate	SS 316
Bush	PH.BRONZE
Plain Bearing	PTFE / S5304
Thurst Washer	PH.BRONZE
Dowel Pin	SS 316

EPDM Rubber with NSF 61 / WRAS approval suitable for potable water. Please check with us for other material combinations.

DIMENSIONS AND PART LIST





COMPONENTS LIST

1. Body
2. Disc
3. Seat Retainer Ring
4. Seat Ring
5. Upper Shaft
6. Lower Shaft
7. Bottom Flange
8. Gland Plate
9. Bush
10. Plain Bearing
11. Thurst Washer
12. Dowel Pin

13. Dowel Pin Washer
14. Hex. Screw
15. Sealing Washer
16. CSK Screw (Dowel Pin)

17. O' Ring (Bush)
18. O' Ring (Stem)
19. O' Ring (Bottom Flange)
20. Gland Gasket

21. Hex. Screw
22. O' Ring (Retainer Ring)
23. Key
24. Gear Box

DIMENSIONS (MM) FOR 16BAR

SIZE	L	ØA	ØB	ØC	FLANGE			G	H	J	M	ØN	WEIGHT (kgs)
					ØD	E NOS	ØF PCD						
DN 200	230	200	266	340	23	12	295	346	210	288	257	200	50
DN 250	250	250	319	400	28	12	355	406	235	313	257	200	65
DN 300	270	300	370	455	28	12	410	460	274	351	275	250	97
DN 350	290	350	429	520	28	16	470	530	318	397	275	250	131
DN 400	310	400	480	580	31	16	525	592	333	412	280	300	162
DN 500	350	500	609	715	34	20	650	722	422	489	336	400	278
DN 600	390	600	720	840	37	20	770	846	521	613	397	500	442
DN700	430	700	794	910	37	24	840	916	596	700	314	250	625
DN800	470	800	900	1025	41	24	950	1032	677	785	314	300	890
DN900	510	900	1000	1125	41	28	1050	1150	743	352	380	350	1184
DN1000	550	1000	1112	1255	44	28	1170	1264	835	950	380	350	1621
DN1200	630	1200	1328	1485	50	32	1390	1500	920	1050	380	350	2380

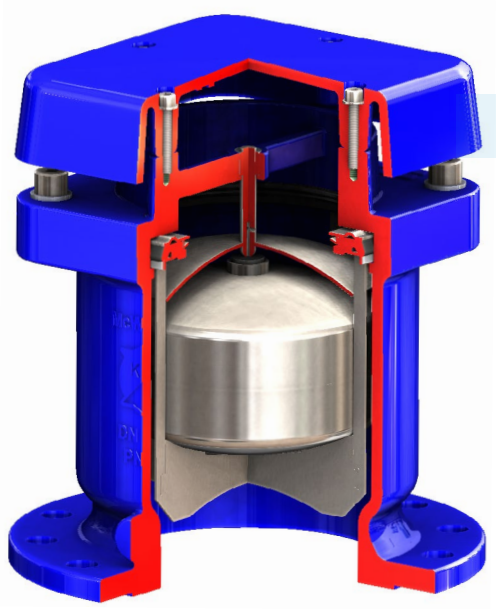
Sizes above 1200mm Available on Request.

Kennedy and MIPL are divisions of McWane Inc. USA

The specifications and material grades shown are subject to revision without notice based on our product improvement programme

KENNEDY VALVE

SINGLE CHAMBER AIR RELEASE VALVE



Kennedy Series 122 ISO Standards

Kennedy Single Chamber air release valve kinetic type Air Valve with Tamper proof design offers solution for releasing and adding air to water pipelines, protecting pipe line systems and improving efficiency. Our air valves are made in ductile cast iron body with floats in stainless steel.

GENERAL SPECIFICATIONS

DESIGN & TEST STANDARDS: EN 1074-1&4

TYPE: Single Chamber Air release Valve

SIZES: DN 40 - DN 300

40mm, 250mm, 300mm Available on Request

WORKING PRESSURE :10 Bar / 16 Bar

25 Bar Available on Request

FLANGE

EN 1092-2 PN10 / PN16 / IS 1538 / IS 9523

TEST PRESSURE

Pressure Testing to EN 1074 - 1 &4

Seat Test: 1.1 x PN

Body Test: 1.5 X PN

COATING

Fusion bonded non-toxic epoxy coating

NSF 61 / WRAS 300 micron.

OPTIONAL FEATURE

Drain Plug

Isolation valve

PRODUCT FEATURES

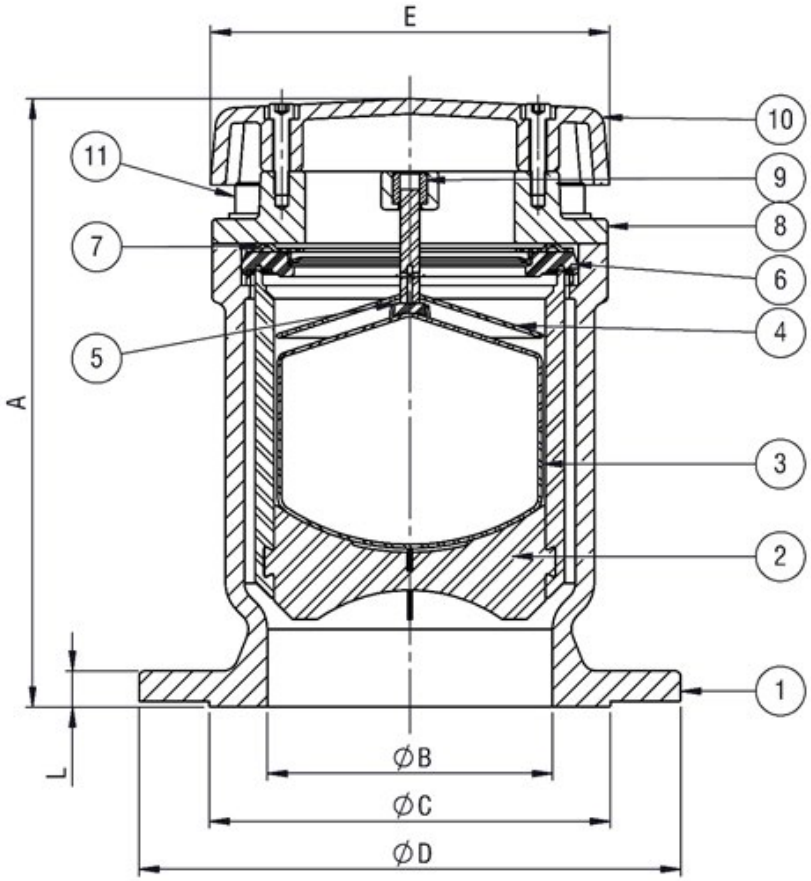
- Single Chamber Air Valve with Compact, simple, robust and reliable design with fully corrosion-resistant parts.
- Maintenance free operation and more service life.
- Size of the inlet area corresponds to the size of the outlet area.
- Triple function air valve (Air Release, Intake and Dropped Air Release)
- Sealing by EPDM- highly reliable
- Designed in compliance with EN 1074-1 & 4. Factory approval and Quality Control - Performance and specification tested and measured with specialized test bench.

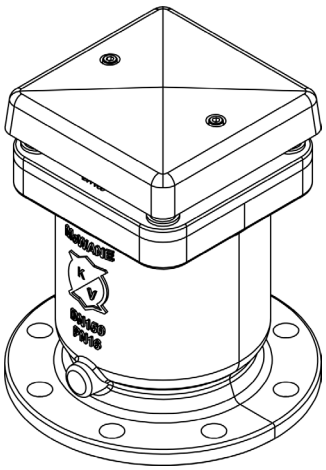
MATERIAL SPECIFICATIONS

Body, Bonnet & Cowl: Ductile Iron GGG50 / GGG40
Seat &Seal : EPDM
Float & Guides : Stainless Steel 316
Fasteners : Stainless steel A4 / SS316

(EPDM Rubber available with NSF 61 Approval suitable for Potable water. Please check with us for other material combinations)

DIMENSIONS AND PART LIST





COMPONENTS LIST

1. Body
2. Large float guide
3. Large orifice
4. Small orifice
5. Sealing face
6. Seat ring
7. Seal ring
8. Bonnet
9. Bush
10. Cowl
11 Fasteners

DIMENSIONS (MM)

SIZE	A	ØB	ØC	ØD	E	F	ØG	ØH	L	WEIGHT (kgs)
DN 40	272	40	84	150	Ø160	4	19	110	19	12.75
DN 50	272	50	99	165	Ø160	4	19	125	19	13
DN 80	263	80	132	200	Ø160	8	19	160	19	14
DN 100	319	100	156	220	Ø178	8	19	180	19	20.5
DN 150	320	150	211	285	Ø210	8	23	240	19	27.75
DN 200	370	200	266	340	Ø260	8	23	295	20	41.75
DN 250	608	250	319	400	Ø430	12	29.5	355	22	132.5
DN 300	677	300	370	455	Ø475	12	29.5	410	24.5	164

Kennedy and MIPL are divisions of McWane Inc. USA

The specifications and material grades shown are subject to revision without notice based on our product improvement programme

KENNEDY VALVE

DOUBLE ORIFICE/ CHAMBER AIR RELEASE VALVE

Kennedy Series 112 to EN/ISO Standards

Kennedy double Orifice / Chamber air release valve combine both large and small orifices within one valve and offers solution for releasing and adding air to water pipelines, protecting pipe line systems and improving efficiency. The three function automatic air valve discharge the large volume of air during charging of the pipeline, admit air during emptying of the pipeline and discharge air accumulated under normal operating conditions. Our series 112 air valve offered with a kinetically designed large orifice and float to avoid premature closing of the valve by the discharging air. The small orifice is sealed by a float at all pressure above atmospheric except when air accumulates in the valve body. Series 112 air valves are made in ductile iron body with floats in stainless Steel. Valves are suitable for clean and neutral water to a maximum temperature of 70° C.

GENERAL SPECIFICATIONS

DESIGN & TEST STANDARDS:

EN 1074-1&4,IS - 14845

TYPE: Double Chamber Kinetic Air release Valve

SIZES & WORKING PRESSURE

DN40 to DN200, PN10, PN16, PN25.

DN250 & DN 300 Available on Request.

FLANGE

EN 1092-2 PN16 / IS 9523 / IS 1538

TEST PRESSURE

Pressure Testing to EN 1074 - 1 &4

Seat Test: 1.1 x PN

Body Test: 1.5 X PN

COATING

Fusion bonded non-toxic epoxy coating

NSF 61 / WRAS 300 micron.

OPTIONAL FEATURE

Drain Plug

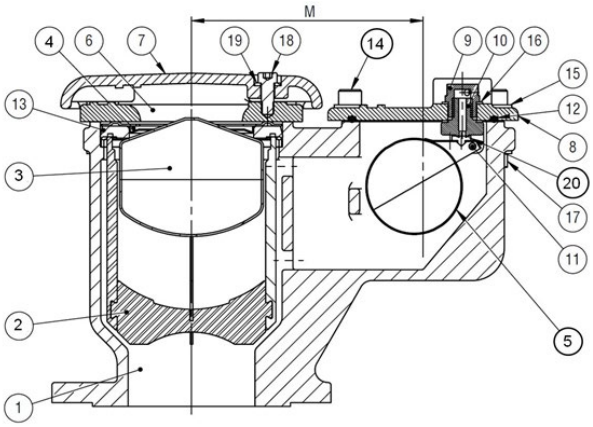
Isolation valve

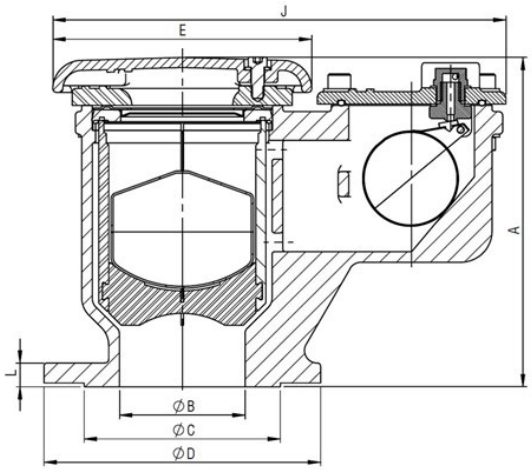
MATERIAL SPECIFICATIONS

Body,Bonnet & Cowl: Ductile iron - GGG50 / GGG40
Seat, Seal, Rubber Washer, O-Ring : EPDM
Nozzle Holder, Nozzle : Acetal
Washer, Nut, Socket Head Cap Screw, Pin : Stainless steel A4 /SS316
Seal ring, Guide top, Guide bottom, Guide ring : Stainless steel SS316
Small and Large orifice Float : Stainless steel SS316

(EPDM Rubber available with NSF 61 Approval suitable for Potable water. Please check with us for other material combinations)

DIMENSIONS AND PART LIST





COMPONENTS LIST

1. Body	11. Pin
2. Float guide	12. O - Ring
3. Large orifice	13. Seat Ring
4. Seal Ring	14. Socket Head Cap Screw
5. Small Orifice	15. Washer
6. Large Orifice Bonnet	16. Rubber Washer
7. Cowl	17. Nut
8. Small Orifice Bonnet	18. Scoket Head Cap Screw
9. Nozzle Holder	19. Washer
10. Nozzle	20. Sealing Face

DIMENSIONS (MM)

SIZE DN	A	ØB	ØC	ØD	E	G Nos	J	L	M	WEIGHT (kgs)
40	260	40	84	150	175	4	340.5	19	182.5	19
50	260	50	99	165	175	4	342.5	19	182.5	20
80	260	80	132	200	156	8	240.0	19	182.5	21
100	263.5	100	156	220	206	8	360.5	19	182.5	26
150	303	150	211	285	246	8	403.0	19	205	35
200	303	200	266	340	304	12	459.5	20	235	40

Kennedy and MIPL are divisions of McWane Inc. USA

The specifications and material grades shown are subject to revision without notice based on our product improvement programme

KENNEDY VALVE

RESILIENT SEATED SWING CHECK VALVE

Kennedy Series 22 to EN/ISO Standards

Kennedy Check Valves with their unique features have been used in the water and fire protection industries since 1877. Our Series 22 Check valves confirm to EN/ISO standards and have been designed to maintain the high quality and integrity of existing designs but incorporates many superior features like full bore and compact design. The valves are constructed in such a way that all internal parts can be replaced without removing the valve from the line. Series 22 check valves are made in cast ductile iron body with disc totally encapsulated in rubber. The valves are offered with lever and weight operator.

Valves are suitable for water and neutral liquids to a maximum temperature of 70° C.

GENERAL SPECIFICATIONS BIS Certified

TYPE : Swing Check Valve Resilient Seated with Lever and Weight

SIZE RANGE : DN50 -DN400

WORKING PRESSURE : 16 Bar

ENDS : Flanged

DESIGN & TESTING STANDARD

IS 5312, EN10741 & 3

FLANGES

EN 1092-2 PN16, IS 9523 & IS 1538

FACE TO FACE

EN 558-2 & ISO 5752 Series 10

TEST PRESSURE

Pressure Testing to EN 1074-1&3, IS 5312

SEAT TEST: 1.1 x PN

BODY TEST :1.5 x PN

COATING

Fusion bonded non-toxic epoxy coating NSF 61 / WRAS

OPTIONS

Guard kit for lever and weight.

Lever and weight, mounted RHS as standard,

-can be mounted LHS on request. Tapping plug

Free shaft option up to DN 150

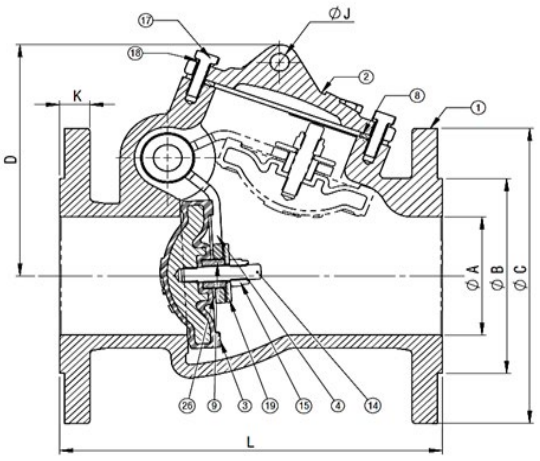
MATERIAL SPECIFICATIONS

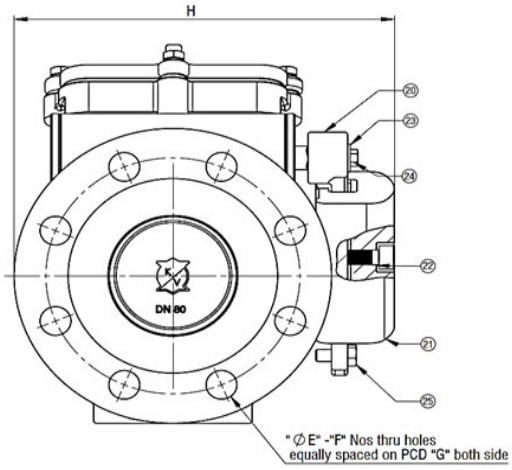
Body & Cover : Ductile Iron GGG50 / GGG40	**O Rings :** EPDM
Disc : EPDM encapsulated ductile iron	**Gasket :** EPDM
Hinge, END CAP, Spacer, Shaft : Stainless Steel 316	**Bolts, Stud, & Nuts :** A4-80
Bush : Copper Alloy (Ph. Bronze)	**Washer :** SS 316
Sleeve : Acetal	**Dowel Pin :** SS 316
Lever & Counter Weight : Ductile Iron EN-S 1050 & GGG50/40	**Coating :** FBE 300 µm

DN5O available with free shaft design only - EPDM Rubber available with NSF 61 Approval suitable for Potable Water.

Please check with us for other material combinations.

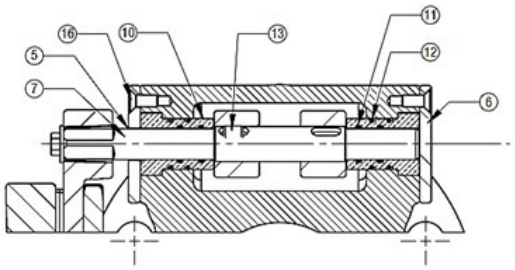
DIMENSIONS AND PART LIST





COMPONENTS LIST

1. Body	12. 0 Ring Cap
2. Cover	13. 0 Ring
3. Disc Encapsulated	14. Dowel Pin
4. Hinge	15. Stud
5. END Cap - Open	16. Hex Nut
6. END Cap - Closed	17. CSK Screw - Cap
7. Shaft	18. Hex Bolt Cover
8. Gasket	19. Washer - Cover
9. Sleeve	20. Wide Washer
10. Bush	21. Lever
11. 0 Ring Stem	22. Counter Weight



23. Allen Bolt
24. Washer - Lever
25. Hex Bolt - Lever
26. Hex Bolt - Lever
27. Spacer

DIMENSIONS (MM)

SIZE DN	A	B	C	D	ØE	G NOS	H PCD	J	K	L	WEIGHT (kgs)
50	203	50	99	165	19	4	125	165	8	19	10
80	241	80	132	200	19	8	160	240	12	19	20
100	292	100	156	220	19	8	180	262	12	19	25
150	356	150	211	285	23	8	240	340	14	19	50
200	495	200	266	340	23	12	295	420	14	20	82
250	622	250	319	400	28	12	355	507	22	22	137
300	698	300	370	455	28	12	410	561	24	24.5	177.5
350	790	350	429	520	32	16	470	550	24	27	310
400	914	400	480	580	32	16	525	590	24	30	416

Sizes above DN 400 available on request

Kennedy and MIPL are divisions of McWane Inc. USA

The specifications and material grades shown are subject to revision without notice based on our product improvement programme

KENNEDY VALVE

DUAL PLATE CHECK VALVE

Kennedy Series 112 to EN/ISO Standards

The Dual Plate Check Valve design is the result of attempts to solve the problems associated with swing check valve and lift check valve. The Dual Plate Check Valve employs two spring-loaded plates hinged on a central hinge pin.

They are Small in size, light in weight , compact in structure and easy in maintenance. Two torsion springs are added to each of the pair valve plates which close the plates quickly and automatically. The quick-close action prevents the medium from flowing back. It has a short face to face and good rigidity. Easy installation, it can be installed on both horizontal and vertical direction pipelines. This valve is tightly sealed without leakage under the water pressure test. Safe and reliable in operation and high interference resistance.

Sizes available upto DN 1200

CHARACTERISTIC OF PRODUCT

- Small in size light in weight compact in structure easy in maintenance.
- Two torsion springs are added to each of the pair valve plates which close the plates quickly and automatically.
- The quick-close action prevents the medium from flowing back.
- Short face to face and good rigidity.
- Easy installation, it can be installed on both horizontal and vertical direction pipelines.
- This valve is tightly sealed without leakage under the water pressure test.
- Safe and reliable in operation high interference-resistance.

FLANGE CONNECTIONS

Series EH, MH conform to EN1092;
Series AH, BH conform to ANSI B16.1;

FACE TO FACE

Series EH conform to EN558-1;
Series AH conform to ANSI B16.10

Series EH

Series AH

Series BH

Series MH

1 BODY
Short face to face and good rigidity.

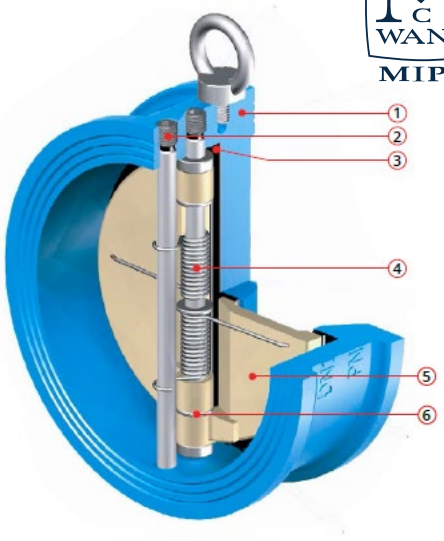
2 FASTEN SCREW
Effectively prevent the shaft from traveling, prevent valve work from failing and shaft end from leaking.

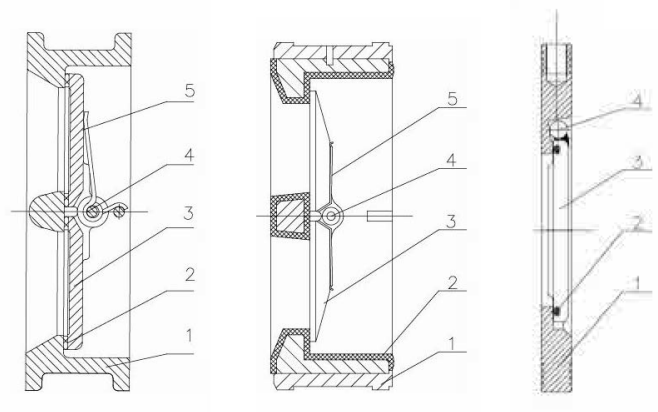
3 RUBBER SEAT
Vulcanized on body.tight fit and tight seat with no leakage.

4 SPRINGS
Dual springs distribute the load force evenly across each plate ensuring quick shut off in back flow.

5 DISC
Adopting unitized design of dual discs and two torsion springs the disc closes quickly and removes water-hammer.

6 GASKET
It adjusts fit-up gap and assures disc seal performance.





Technical Specifications

SERIES		EH	AH		BH		MH		
DN Nominal Diameter		"40~700(1.5 ""~28"") "	"50-750(2""~30"")"	"50-300(2""~12"")"	"50-500(2""~20"")"	"50-300(2""~12"")"	"50-600(2""~24"")"		50~400 (2"~16")
PN Nominal Pressure		1.0MPa	150PSI	200PSI	150PSI	200PSI	1.0MPa	1.6MPa	2.5MPa
Testing Pressure	Shell	1.5MPa	225PSI	300PSI	225PSI	300PSI	1.5MPa	2.4MPa	3.75MPa
	Sealing	1.1MPa	165PSI	220PSI	165PSI	220PSI	1.1MPa	1.76MPa	2.75MPa
Working Temperature		-15~+150							
Suitable Media		Fresh water,Sewage,Sea water,Air,Vapour,Food,Medicine,Oils,Acids,Alkalis,Salts,etc.							

Materials of Main Parts

No	Part	Material		
		AH EH	BH	MH
1	Body	CI DI WCB CF8 CF8M C95400	CI DI WCB CF8 CF8M C95400	WCB CF8 CF8M C95400
2	Seat	NBR EPDM VITON etc.	DI Covered Rubber	NBR EPDM VITON etc.
3	Disc	DI C95400 CF8 CF8M	DI C95400 CF8 CF8M	WCB CF8 CF8M C95400
4	Stem	416/304/316	304/316	SS316
5	Spring	316 / 410		------

Kennedy and MIPL are divisions of McWane Inc. USA

The specifications and material grades shown are subject to revision without notice based on our product improvement programme

KENNEDY VALVE

CONTROL VALVE

STANDARD

- Design & Manufacturing according to **EN 1074-1 / EN 1074-5 / EN 1349**
- Face-to-face according to **EN 558 S1**
- Flanges according to **EN 1092-1/2** or **ANSI B16.5 CL 150/ ASME Sec. VIII**
- Class A tightness according to **EN 12266**
- Cv Testing As per ISA 75.02 and **EN 1267**
- Potable water approved **DM174 / WRAS / ACS /DVGW / NSF**
- Sizing **ISA 75**

PRODUCT RANGE

From DN 50 to DN 1000(reduced bore)

From DN 50 to DN 800 (full bore)

PRESSURE CLASSES

PN 10-16-25

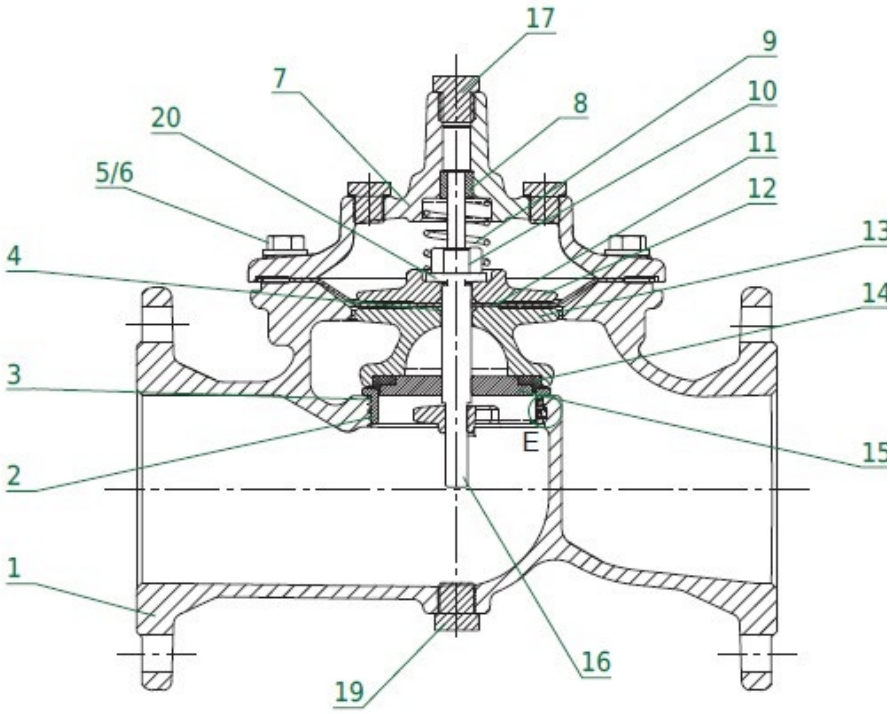
COATING

Corrosion protection by FBE coating 300 microns, color RAL 5005 & 5017

1. Body in ductile cast iron GJS-500-7
2. Shaft, obturator and seat body are in stainless steel
3. Diaphragm in rubber+nylon fiber (tested for 1.000.000 cycles)
4. Internal/External bolts are in stainless steel (A2-A4)
5. All the acessories are in stainless steel

COMPONENTS LIST

1. Body
2. Seat
3. O-Ring
4. O-Ring
5. Bolts
6. Washer
7. Cover
8. Bushing
9. Spring
10. Nut
11. Diaphragm
12. Support Ring
13. Obturator
14. Main Gasket
15. Seal Retainer
16. Stem
17. Plug
18. Screw
19. Plug
20. Fixing Washer

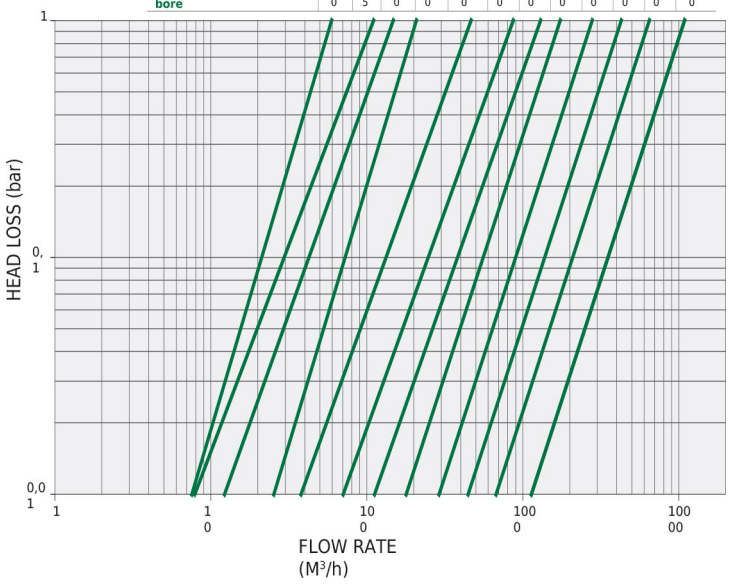


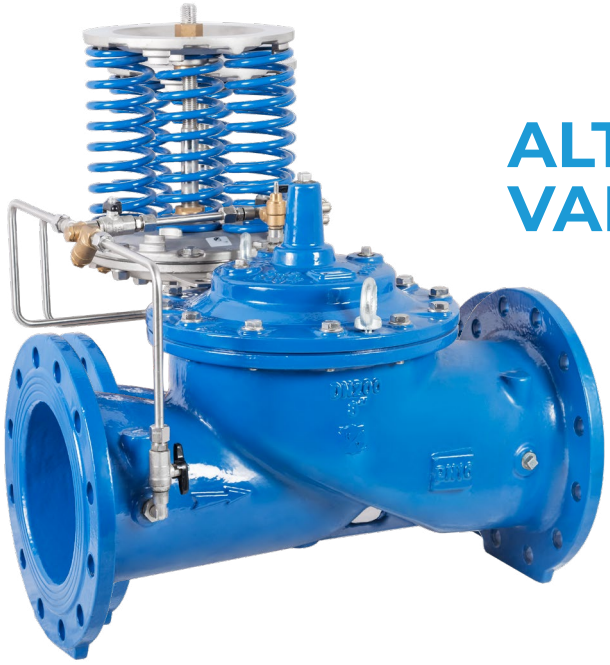
ADVANTAGES & BENEFITS

- Accurate construction by use of cutting edge technologies for all the components.
- Main body based on the design of globe valve with low pressure losses .
- Entirely made of ductile iron with internal components in stainless steel.
- Replaceable seat in stainless steel.
- Heavy duty corrosion protection by FBE epoxy coating 300 microns (500 microns on request).
- A full range pilots and solutions for any need.
- A smart system for a high performance “pressure management systems”.
- McWane SMART VALVES able to interface with SCADA SYSTEM and with a modern “stand alone” electronic system for a high quality and reliable “Pressure Manager” system.

HEAD LOSS DIAGRAM

AUTOMATIC CONTROL VALVE	D N											
reduced bore	6 8 0		10 0	12 15 0	20 0	25 0	30 0	35 40 0	45 50 0	60 0	70 0	100 0
full bore	5 0	6 5	8 0	10 0	15 0	20 0	25 0	30 0	40 0	50 0	60 0	80 0





ALTITUDE CONTROL VALVE

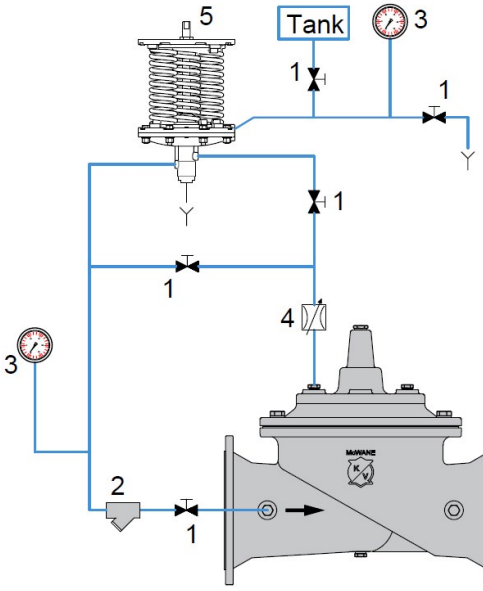
VALVE FUNCTION

- Altitude Control Valve is a hydraulic, diaphragm actuated plug controlled valve,
- Valve is used to maintain a preset water level of reservoirs or water tanks. The valve is activated by line pressure and is commanded by an Altitude Pilot. The altitude pilot is mounted on the valve, therefore there is no installation required on top of the reservoir.
- Valve stays open as long as the water level of the reservoir is below a preset level.

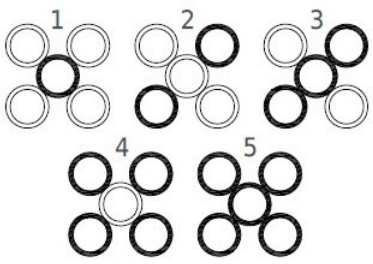
OPERATING PRINCIPLE

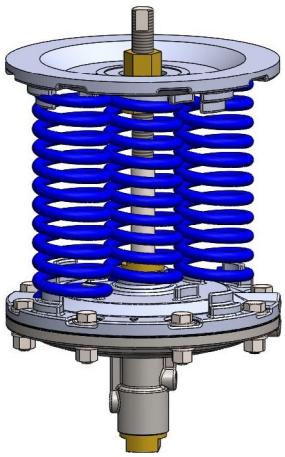
Under normal conditions, when the water level in the reservoir is lower than the preset altitude, the valve is open. When the water level rises the pressure head under the pilot's membrane rises consequently. When the water reaches its maximum pre set level the pressure overcomes the pilot's spring. The pilot's membrane moves upwards and connects the control chamber to line pressure. The valve fully closes. When the water level in the reservoir drops again, the valve's control chamber drains to the atmosphere through the pilot's vent. Line pressure supply is closed in parallel. The valve fully opens due to line pressure.

Applicable Areas Potable Water Systems | Industrial Applications | Agricultural Irrigation



Spring Quantity	Pressure Range (bar)	Level Range (m)
1	0.5 - 1.2	5 - 12
2	1.0 - 2.4	10 - 24
3	2.2 - 3.6	22 - 36
4	3.2 - 4.8	32 - 48
5	4.0 - 6.0	40 - 60





KENNEDY VALVE

PRESSURE REDUCING VALVE

VALVE FUNCTION

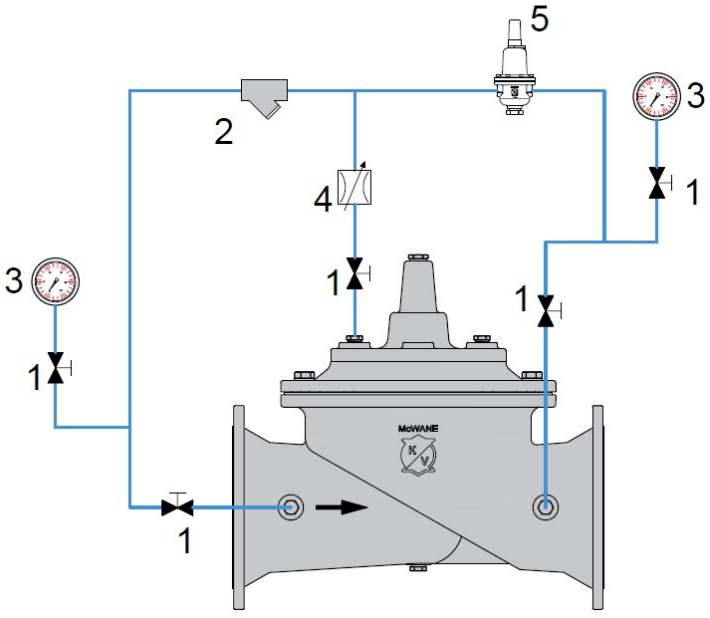
Pressure Reducing Valve Model is a Globe pattern body , piston actuated controlled valve. Its function is reducing the upstream pressure to a desired downstream pressure maintaining the pressure constant regardless of flow rate or upstream pressure fluctuations. when the downstream pressure tends to increase above the set value due to decreasing demand on the downstream line, the valve tends to close to decrease the pressure to fit back to the set pressure. The whole operation is done automatically by the hydraulic pressure balance in the pressure reducing pilot, which commands the main valve to act open or close the valve further autonomously.

OPERATING PRINCIPLE

The pilot, operates when hydraulic pressure is applied below the spring loaded membrane which is connected to the pilot's seal trim.

The pilot is Normally Open (N.O.) pilot. Once pipeline pressure is built downstream of the main valve,it will be conveyed to the pilot's membrane through the sensor port. When the pressure surpasses the set point (pre adjusted through the pilot's adjusting screw) the membrane moves upwards and water passage closes, closing the main valve. When the downstream pressure reduces below the pilot's set point, the membrane moves downwards and opening the water passage and allowing the main valve to open.

Applicable Areas Potable Water Systems | Industrial Applications | Agricultural Irrigation



Type Pilot	Range (bar)	Spring Color
ACV100 A	0.1 - 2.0	Yellow
ACV100 B	0.5 - 3.5	Blue
ACV100 C	1.0 - 5.0	Red
ACV100 D	1.5 - 8.5	Green
ACV100 E	1.5 - 10.0	Orange
ACV100 F	2.0 - 15.0	Grey
ACV100 G	2.5 - 21.0	Grey

Kennedy and MIPL are divisions of McWane Inc. USA

The specifications and material grades shown are subject to revision without notice based on our product improvement programme

PRESSURE RELIEF/ SUSTAINING VALVE

VALVE FUNCTION

Pressure Relief Control Valve is a hydraulic, diaphragm actuated controlled valve. As line pressure rises above preset level, the valve opens quickly to relieve the excessive pressure through pilot control.

Pressure Relief valve protects water systems from quickly rising excessive pressure, due to water hammer surge. It is advised to install this valve at the system head, right next to the main supply line or booster pump.

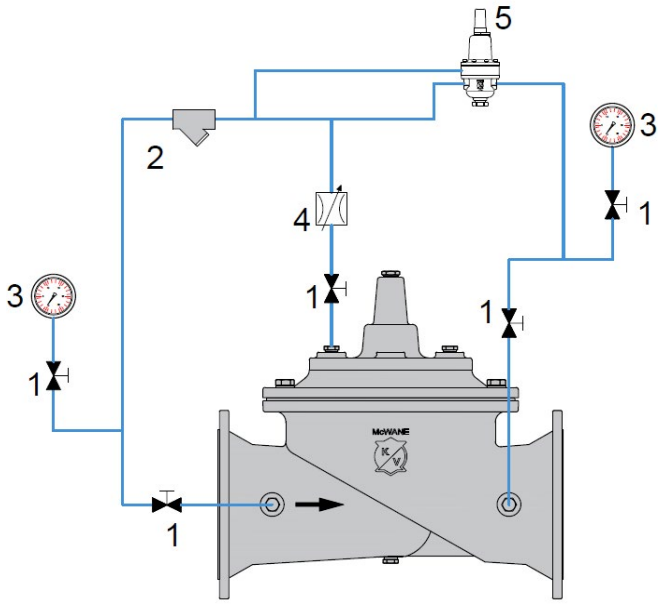
OPERATING PRINCIPLE

Pilot is activated by line pressure and controlled by a pilot valve.

The Pilot includes a spring-loaded membrane, which is exposed to line pressure. The displacement of the membrane due to a rise of line pressure against the spring force changes the water flow inside the pilot.

In normal flow regime, the valve is closed. When the line pressure is higher than the preset value valve is piloted to open.

Applicable Areas Potable Water Systems | Industrial Applications | Agricultural Irrigation



KENNEDY VALVE

FLOW CONTROL VALVE FUNCTION

VALVE FUNCTION

Flow Rate Control Valve is hydraulic, diaphragm actuated plug controlled valve activated by line pressure. Normally valve is partly open to allow a preset constant flow rate.

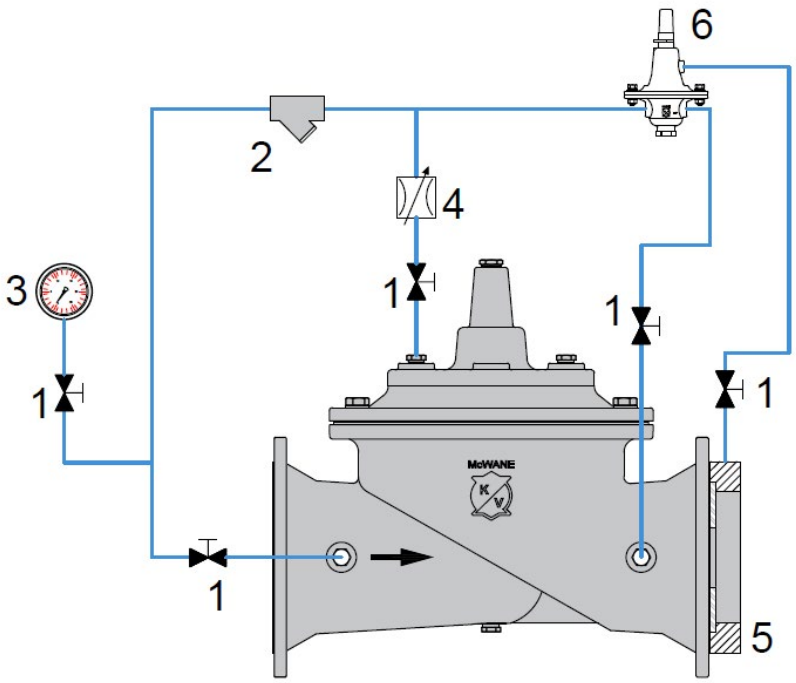
Flow rate through the this is determined indirectly using an orifice plate. The head loss across the orifice is proportional to the actual flow rate. On rising head loss, this valve is automatically piloted to close. On the other case, the valve opens. Thus the flow rate is maintained constant, regardless of line pressure fluctuations or the downstream demand.

OPERATING PRINCIPLE

Flow Rate Control Valve is activated by line pressure and controlled by a pilot valve. The pilot include a spring loaded membrane. An orifice plate is installed either downstream or upstream of the valve. The orifice size is prepared in advance to suit the specified required flow rate. The head loss across the orifice is proportional to flow rate through the valve.

This head loss is transferred to the opposite sides of the pilot's membrane, which moves upward or downward accordingly. These movements open or close the inner ports of the pilot valve, directing the line pressure to control the valve.

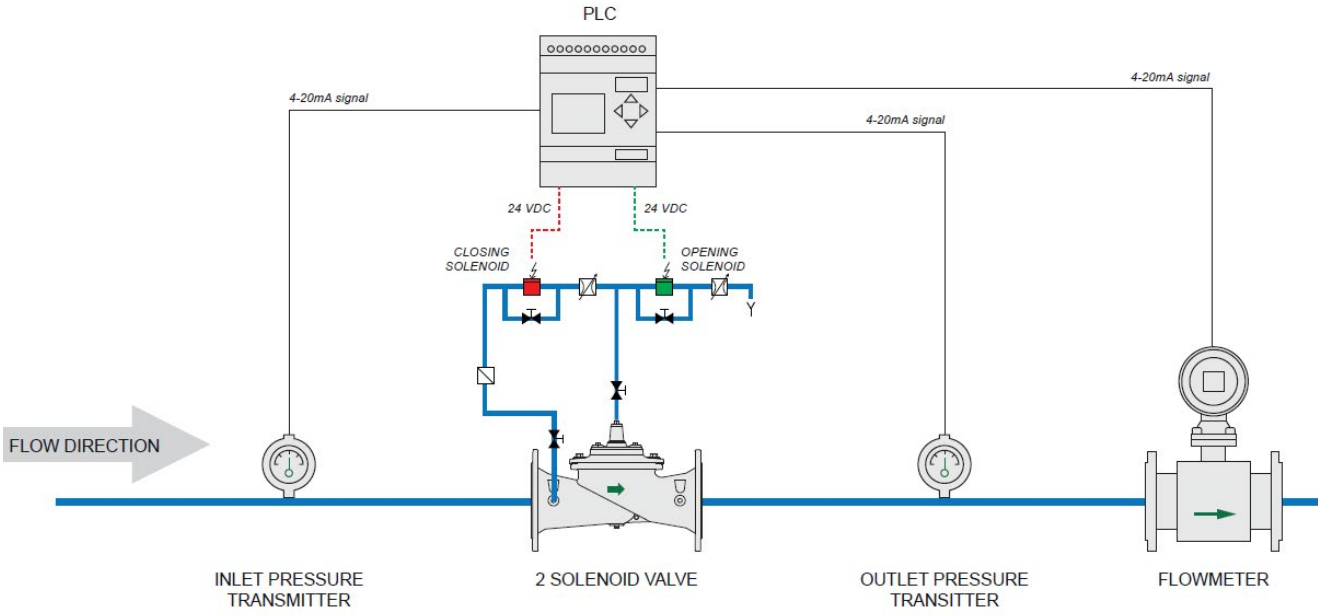
Applicable Areas Potable Water Systems | Industrial Applications | Agricultural Irrigation

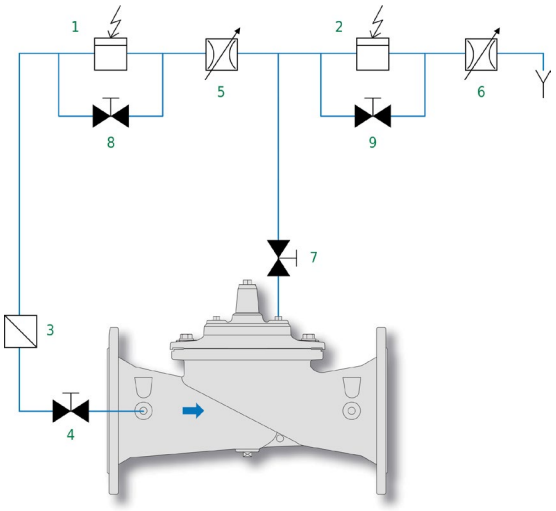


SOLENOID CONTROL VALVE

The dual solenoid valve interfaces with the controller to provide electronic control of flow rate, pressure or level. Its provides precise control remotely with minimal power. This control loop also has manual controls in case of emergency. The flow in and out of the upper operating chamber of the main valves is controlled by the two pilot solenoids. The electronic control determines whether to open or close the solenoid valve. The change in valve position is dependent upon which solenoid is operated and the duration of the energized period. The electronic control determines the valve function. Virtually any hydraulic function can be achieved using the "open-close" output from the SCADA controller to the valve.

Automatic Control Valve
Step by Step (Two Solenoid Valve)





Item	Description	Materials
1	Solenoid Valve NC	Brass
2	Solenoid Valve NC	Brass
3	Y Strainer	Brass
4	Ball Valve	Nickel Brass
5	Bidirectional Needle Valve	Brass
6	Bidirectional Needle Valve	Brass
7	Ball Valve	Nickel Brass
8	Ball Valve	Nickel Brass
9	Ball Valve	Nickel Brass

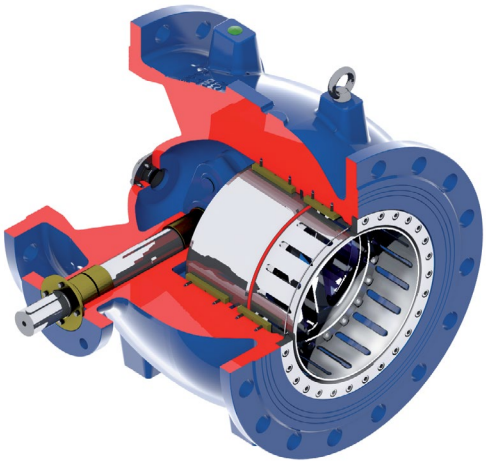
KENNEDY VALVE

PLUNGER/NEEDLE VALVES

DN 80 to 2000 - PN 10-16-25

Plunger control valve has unique benefits that make the valve specifically suitable for the more special and severe service control applications.

Axial flow designs are streamlined annular flow path and evenly distributed flow through the cage – this reduces highlocal velocities, turbulence and impacts of flow jets and particles. This is fundamental for reliable valve performancebecause vibration, erosion and unbalanced flow and forces are avoided.



HIGH CAPACITY

The inherent capacity of the axial control valve is very high compared to conventional globe control valve designs and enables the selection of a smaller valve size. Alternatively, higher capacity can be used to minimize pressure drop over the valve or to provide for special features, such as a modified control characteristic, additional noise abatement, anti-cavitation or a wider operating envelope for future process changes.

A COMPACT AND LOW WEIGHT DESIGN

The axial flow valve is a rugged design and provides - especially in combination with relatively small actuators - a very compact and low weight solution.

TRIM SELECTION

A wide variety of trims for liquid applications are available, single-stage cages with high capacity and low noise capabilities. All trims can be provided with linear or equal% control characteristics.

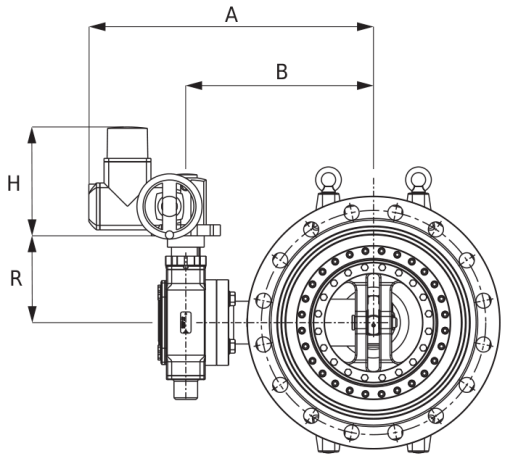
MATERIAL SPECIFICATIONS

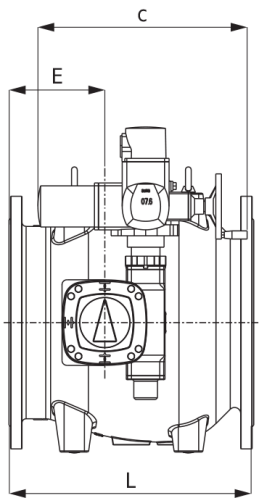
Body: DI GGG50
Piston : SS316
Internals: SS316
Gasket : EPDM
Actuators: Auma/Rotork
415V, 3 Phase, SCADA compatible for flow control application with IP68

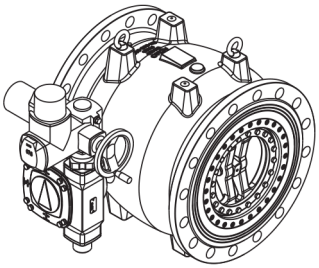
ACCESSORIES

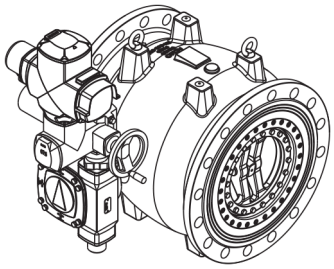
ELECTRIC ACTUATOR
CYLINDER ANTI-CAVITATION
WITH HYDRAULIC CYLINDER AND COUNTER-WEIGHT
WITH SYSTEM VENTING

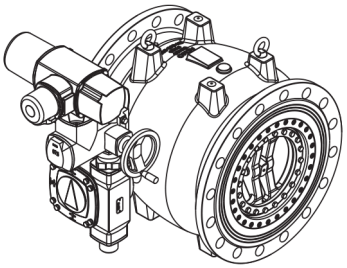
DIMENSIONS AND PART LIST











DIMENSIONS (MM)

EN558 S15					PN10 Actuator								ISO*** 5210
DN	L	B*	E*	R*	C*	H*	A*	Kg*	A*	Kg*	A*	Kg*	
125	300	170	120	100	514	288	408	20	518	27	408	27	F10
200	400	220	150	125	514	288	458	20	568	27	458	27	F10
250	450	260	165	125	514	288	498	21	608	28	498	28	F10
300	500	305	185	130	514	288	543	21	653	28	543	28	F10
350	550	350	205	259	514	288	588	21	698	28	588	28	F10
400	600	385	235	259	514	288	623	21	733	28	623	28	F10
450	650	420	240	259	514	288	658	21	768	28	658	28	F10
500	700	445	245	259	514	288	683	21	793	28	683	28	F10

INDICATIVE DIMENSIONS |WITH STANDARD OBTURATOR |GEARBOX FLANGE | UNIT: mm |

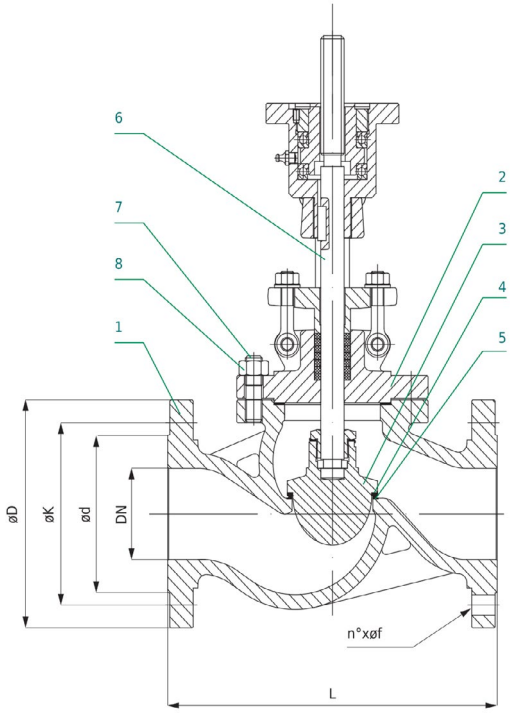
Sizes above DN 700 upto 2000 Available on Request.

Kennedy and MIPL are divisions of McWane Inc. USA

The specifications and material grades shown are subject to revision without notice based on our product improvement programme

KENNEDY VALVE

CONTROL VALVE PISTON TYPE



Single seat control valves

Single-port is the most common valve body style and is simple in construction. A single seat control valve is a unit which operates with supplementary aids to change the flow rate of a process system. The unit comprises of one valve fitted with an actuator which varies the position of a closure member within the valve body according to the signal from the regulator. The most preferable application for this valve is when a high standard of regulation, high pressure differences, tight seal and operation with cavitation or low noise level is required.

Accessories : Electrical Actuators, Hydraulic Actuator, Pneumatic Actuator, GearBox

COMPONENTS LIST

1. Body	2. Cover	3. Piston
4. Seat Disc Ring	5. Seat Boby Ring	6. Stem
7. Stud Bolts	8. Nuts	

DIMENSIONS (MM)

EN558 - S1		DRILLING FLANGES EN1092-1 PN16						PESO/WEIGHT/POID (kgs)
DN	L	ØD	ØK	ØF	NR	M	Ød	
15	130	95	65	14	4	M12	45	5
20	150	105	75	14	4	M12	58	6
25	160	115	85	14	4	M12	68	7
32	180	140	100	18	4	M16	78	11
40	200	150	110	18	4	M16	88	14
50	230	165	125	18	4	M16	102	18
65	290	185	145	18	8	M16	122	25
80	310	200	160	18	8	M16	138	36
100	350	220	180	18	8	M16	158	50
125	400	250	210	18	8	M16	188	74
150	480	285	240	22	8	M20	212	99
200	600	340	295	22	12	M20	268	160
250	730	405	355	26	12	M24	320	305
300	850	460	410	26	12	M24	378	367
350	980	520	470	26	12	M24	438	555

WORKING PRESSURE PFA: 16 bar OPERATING TEMPERATURE T.Max. : +400°C with epoxy Protection

Kennedy and MIPL are divisions of McWane Inc. USA

The specifications and material grades shown are subject to revision without notice based on our product improvement programme

McWANE
FAMILY OF COMPANIES

At the McWane Family of Companies, we produce ductile iron products — including pipe, valves, hydrants, fittings, and plumbing products manufacture fire extinguishers, fire suppression systems, steel pressure vessels, and build network switches and monitoring equipment.

KENNEDY VALVE

KENNEDY VALVE

1021 East Water Street
PO Box 931, Elmira, New York 14901,
USA.
www.kennedyvalve.com

MIPL

MCWANE INDIA PVT. LTD.

Head Office: 483, Kamarajar Road, Uppilipalayam Post,
Singanallur, Coimbatore - 641 015, Tamil Nadu, India.
Factory : 143/2A, Anna Nagar Road,
Neelambur, Coimbatore - 641062, Tamil Nadu, India.
Phone no: 0422-4006400
Email: sales@mcwaneindia.com
www.mcwane.com | www.kennedyvalveindia.com