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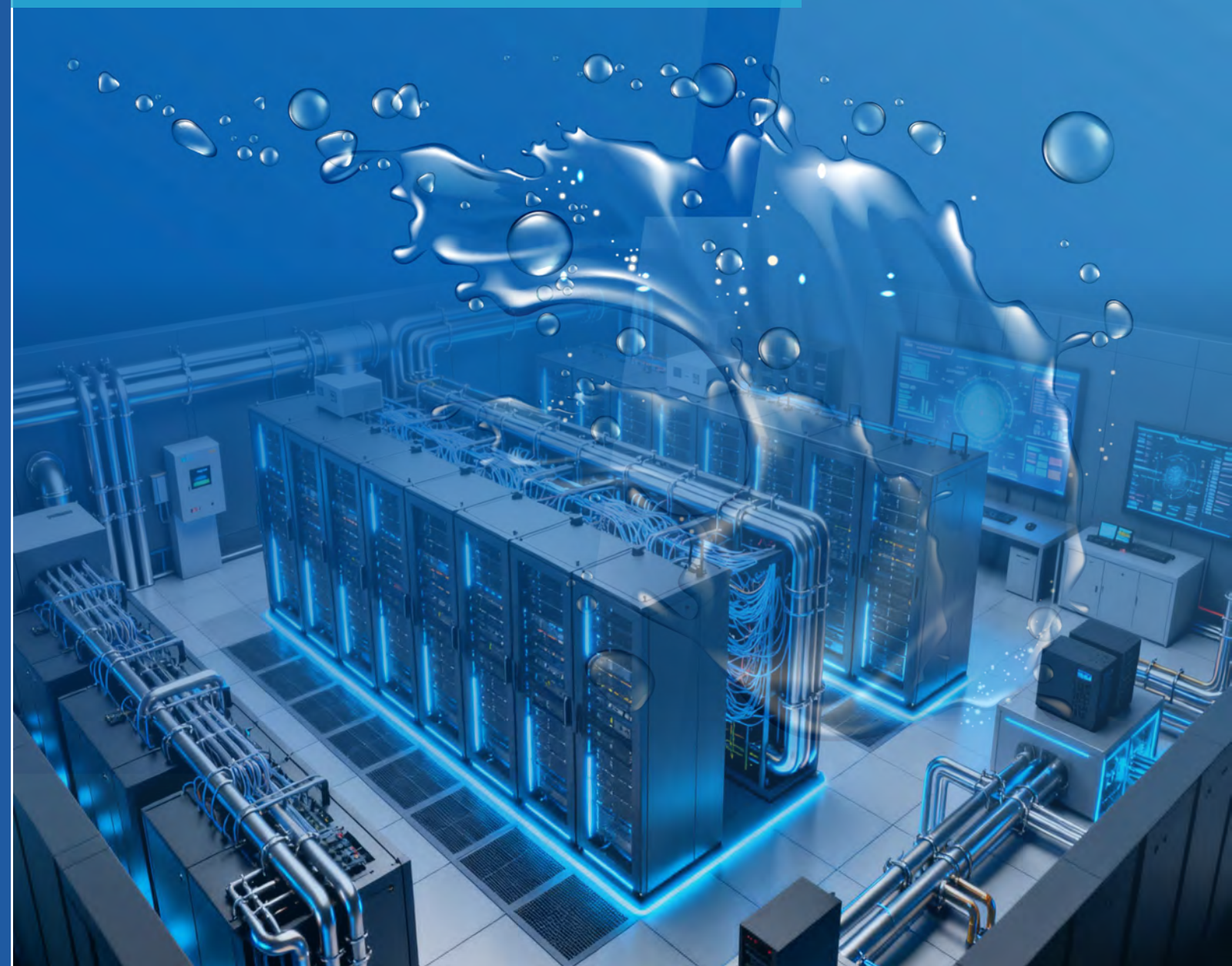


NEWAY VALVE

Cat.no.:E-DCV-2025

Data Center Solutions

Complete Valve Solutions for the Data Centers





The data center market is experiencing robust growth driven by accelerated digital transformation, rapid adoption of cloud computing, and the increasing volume of data generated across industries. One of the most vital tasks for any data center is environmental monitoring and management. Since the safety of the electronic equipment relies on maintaining a steady air temperature and relative humidity, a cooling system is necessary.



Neway Value Proposition

Neway has extensive experience in valves and projects are spread across the globe. It provides complete and innovative solutions for data center projects to meet the needs of each stage of the project. Data centers need product solutions that are reliable, high-performance and energy-efficient to ensure long-term reliability and the longest operational time. Neway provides end-to-end high-performance product solutions, and its products include high-quality valves. These valves are suitable for specific working conditions and can meet the flow control requirements of critical infrastructure.



Data Center Cooling System

A data center cooling system is the means through which heat generated by servers, PCs, and other equipment is dissipated. Data centers use a lot of power, which translates into heat. The more equipment packed into a facility, the greater the heat generated. Proper data center cooling ensures an entire facility has enough cooling, ventilation and humidity control to keep all equipment within desired temperature ranges. Air cooling and liquid cooling are two of the most popular types of data center cooling.



Reliable Flow Control for the Modern Data Center

Neway supports the world's digital infrastructure with high-performance valve solutions designed for every stage of a data center's lifecycle. Our products are built to meet the rigorous demands of critical cooling and power systems, focusing on:

Maximum Uptime

Reliable performance to ensure continuous operation

Global Reach

Proven experience in large-scale projects worldwide. Deliver excellence to your infrastructure with Neway's precision-engineered valves.

Security Performance

High-performance valve design provides security for the pipeline system and the functions of the data center.

Energy Efficiency

Neway high-performance valves designed can effectively reduce pressure losses in the system and improve the efficiency of use.

System Reliability

The unique valve structure design and superior valve sealing performance enhance the reliability of the entire system.

Complete System

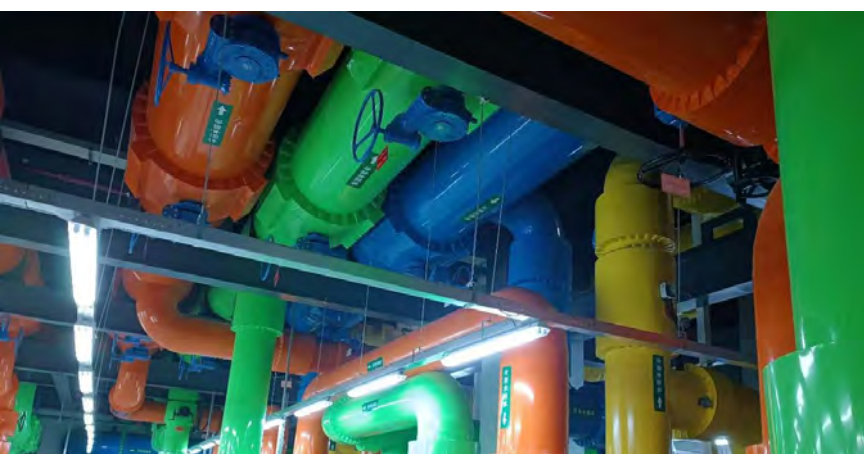
Provide valve combination products that are fully compatible with data centers, offering a complete system solution for data centers.

Valve Type Selection

Covers wide range of types, such as Gate valve/Butterfly valve/Check valve /Ball valve/Air release valve/Control valve/Strainer. Etc.

Body Material Selection

Covers wide range of materials, such as Ductile Iron/Carbon steel/Bronze /Stainless Steel/Duplex steel/Alloy steel. Etc.

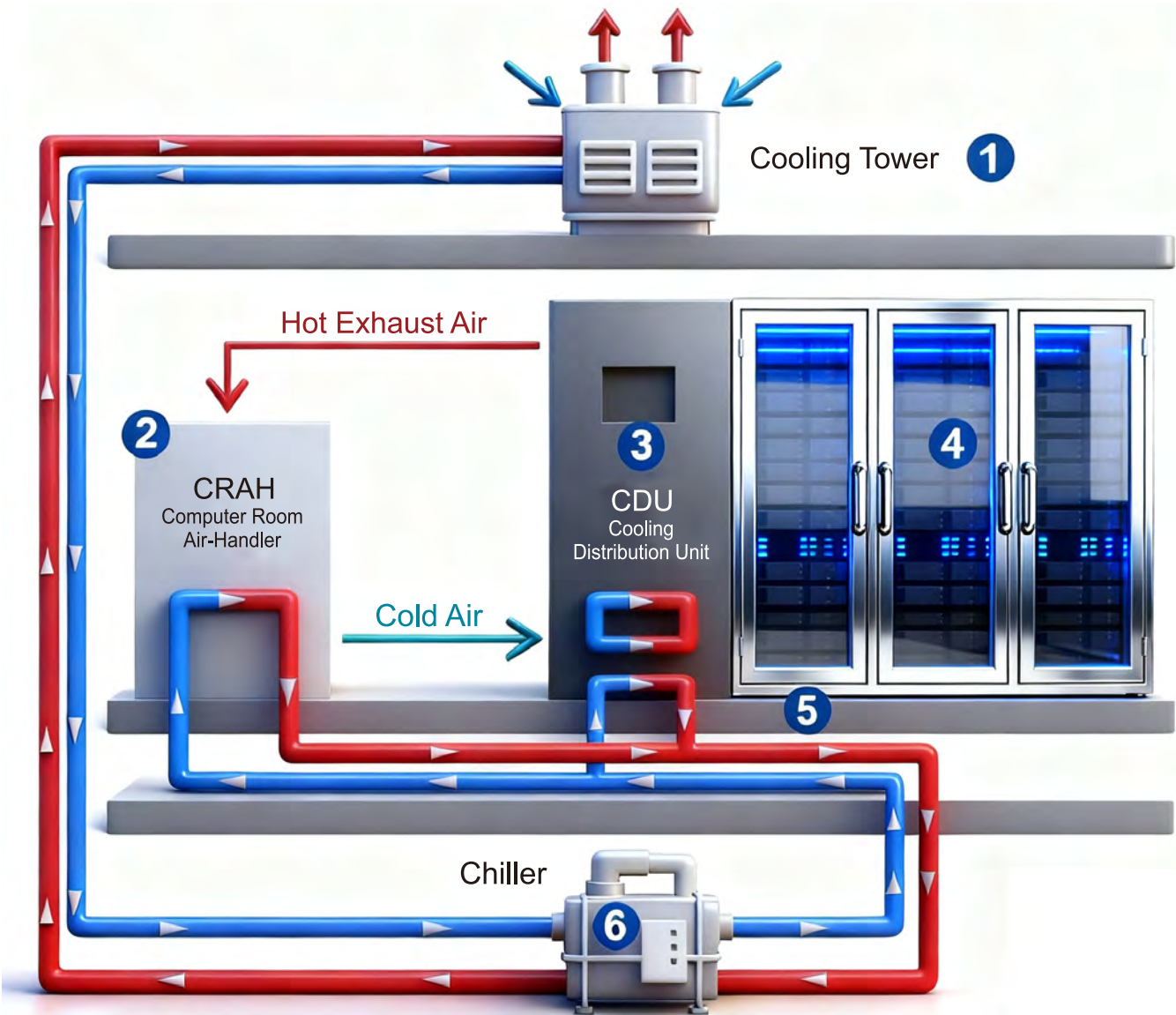


Data Center Valves

Valves play a vital role in regulating, isolating, and controlling fluids and gases within the many data center subsystems. The core valves in the data center are mainly used in the pipeline cooling system, and are also applied in auxiliary systems such as fire protection and water supply and drainage. With the rise in liquid cooling technologies and off-grid, energy-integrated campuses, the demand for advanced valve technologies is growing—both in volume and technical sophistication



Liquid Cooling in Data Centers



- 1 Automated Control Valves, Modulating Control Valves Isolating Valves, Non Return Valves, Etc.
- 2 Modulating Control Valves, Isolating Valves, Automated Staging Valves, Non Return Valves, Etc.
- 3 Modulating Control Valves, Isolating Valves, Etc.
- 4 Modulating Control Valves, Isolating Valves, Etc.
- 5 Isolating Valves, Y Strainer, Etc.
- 6 Automated Staging Valves, Minimum Flow By-pass Valves, Isolating Valves, Etc.

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Concentric Butterfly Valve (LUG Type)

Size:2"-24" (DN50-600)

Product description

Concentric butterfly valve with lug end connection is widely used in pipeline systems for flow isolation and regulation. It offers manual or automatic operation options and features a compact structural length, facilitating easy installation and integration into piping networks.

Design standards

- EN 1074 part 1 & 2; EN593; AWWA C504; API 609

Face-to-face dimension

- EN 558; AWWA C504; API 609

Flange drilling

- EN1092-2 PN10 / 16 / PN25; ASME B 16.1 / 16.42 CL125 / CL150; AWWA C207; ASME B16.5; ASME B16.47

Test

- EN 12266; API 598
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar)

Design pressure

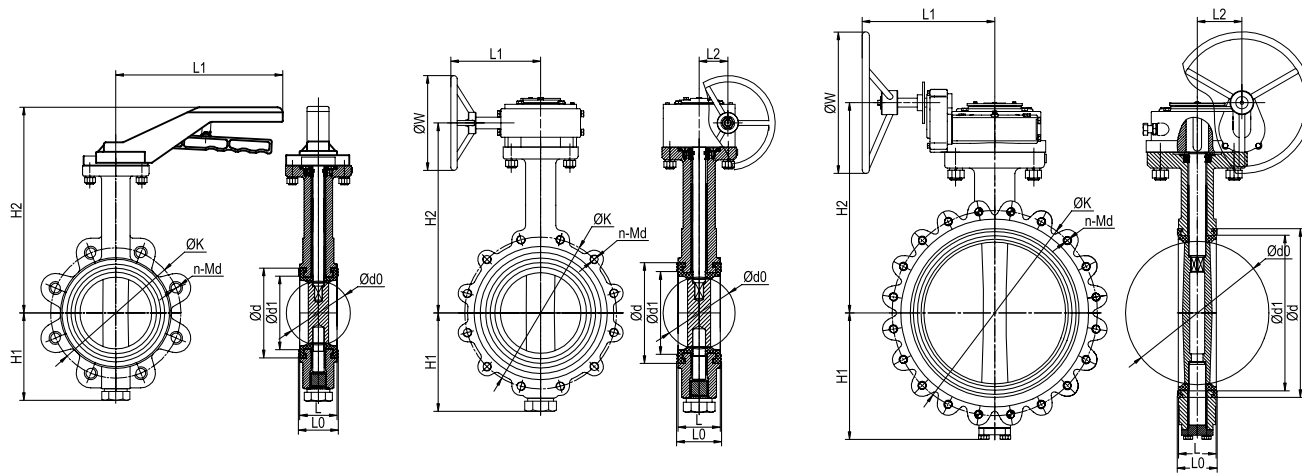
- PN16
- PN10 / 25(option available)

Features

- Replaceable seat
- Triple shaft bearing
- Anti-blow-out shaft design
- With double-stem and no pin to resist to leak
- Fusion bonded epoxy coating inside and outside

Operator options

- Gear box
- Pneumatic actuator
- Electric actuator
- Hydraulic actuator



Dimensions

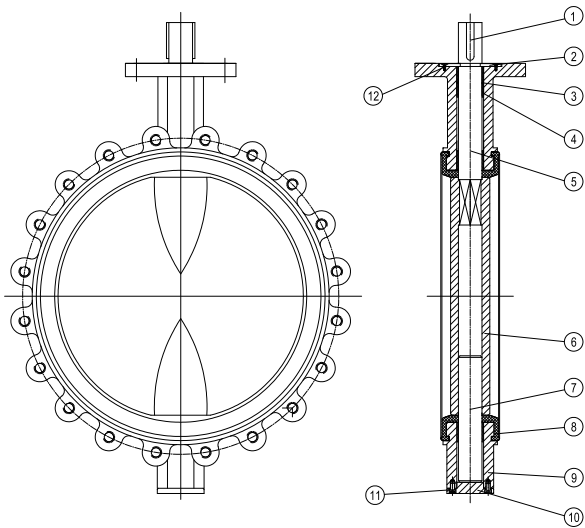
DN	L	L0	d	d0	d1	H2 (Gear / Lever)	H1*	L1* (Gear / Lever)	L2*	W*
50	43	46	81	53	69	172/193	62	160/210	45	145
65	46	49	93	64.7	81	184/205	72	160/210	45	145
80	46	50	111	79.1	98	192/213	95	160/210	45	145
100	52	56	140	104.1	128	209/230	106	160/210	45	145
125	56	59	165	123.3	152	224/245	123	160/210	45	145
150	56	60	186	155.5	173	235/256	138	160/210	45	145
200	60	64	246	201.7	233	287	173	245	63	300
250	68	72	301	250.5	277	320	207	245	63	300
300	78	83	352	301.6	332	364	235	245	78	300
350	78	85	388	333.6	374	408	267	245	78	300
400	102	109	450	389.6	431	510	312	245	160	300
450	114	124	506	440.5	489	535	330	245	160	300
500	127	138	561	491.7	541	595	363	245	160	300
600	154	162	650	592.6	600	693	440	260	154	400

NOTE:* Values are for reference only

Part List

Item	Part Name	Material
1	Key	Stainless Steel
2	Block Plate	Stainless Steel
3	O-ring	NBR
4	Bushing	PTFE
5	Upper Shaft	Stainless Steel
6	Disc	Ductile Iron
7	Lower Shaft	Stainless Steel
8	Seat	EPDM
9	Body	Ductile Iron
10	Lower Gland	Ductile Iron
11/12	Bolt / Screw	Stainless Steel

Note: Carbon steel, Stainless steel, DSS, SDSS for optional.



Stainless Steel Butterfly Valve

(Welding and Clamp Connection Type)

SIZE:1/2"-8" (DN15-200)

Product description

The stainless steel butterfly valve features a split-body design, facilitating convenient installation and maintenance. It is available with two connection types: welding end and clamp end, and is widely used in industrial and liquid cooling systems.

Design standards

- 3A / ISO / IDF / DIN / SMS, ETC

Design pressure

- PN10

Design temperature

- 10°C to 100°C

End connection

- WELDING: DIN 11850 / ISO 2037
- CLAMP: DIN 32676 / ISO 2852

Test

- EN 12266; API 598
- SEAT: 1.1 X PN (IN BAR), BODY: 1.5 X PN (IN BAR).

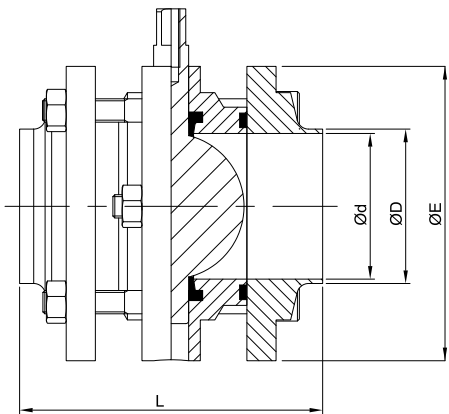
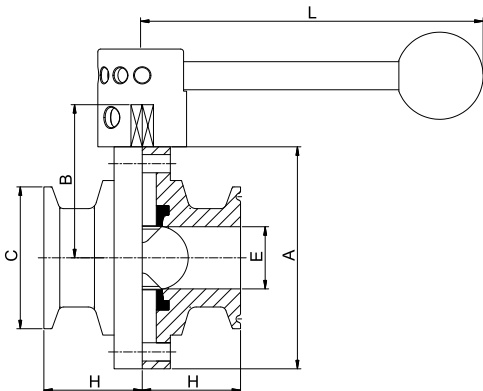
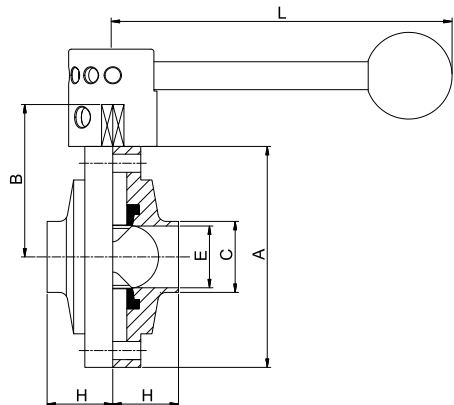
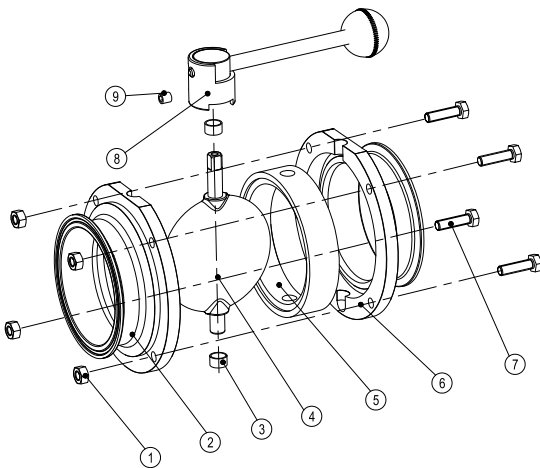
Features

- Low Torque
- Convenient For Replacement
- Degreasing



PART LIST

ITEM	PART NAME	MATERIAL
1	Locking Nut	Stainless Steel
2	Up Valve Body	Stainless Steel
3	Bushing	Plastic
4	Stem	Stainless Steel
5	Seal	EPDM
6	Down Valve Body	Stainless Steel
7	Bolt	Stainless Steel
8	Pull Rod Handle	Stainless Steel
9	Locking Screw	Stainless Steel



Stainless Steel Butterfly Valve

(Welding and Clamp Connection Type)

ISO Welding

SIZE	A	H	D	d	L	S
1/2	79	49.5	12.7	9.4	23.5	80/128
3/4	79	49.5	19.05	15.75	23.5	80/128
1	79	49.5	25.4	22.1	23.5	80/128
1 1/4	79	49.5	31.75	29	23.5	80/128
1 1/2	85	52.5	38.1	34.8	23.5	80/128
2	100	60	50.8	47.5	26	80/128
2 1/2	115	67.5	63.5	60.2	27	140
3	127	73.5	76.2	72.9	28	84/165
4	156	88	101.6	97.6	30	84/165
6	215	120	152.4	146.8	40.5	105/225
8	282	156.5	203.2	197.6	45	300

ISO Welding

SIZE	A	H	D	d	L	S
1/2	79	49.5	25.2	9.4	35	80/128
3/4	79	49.5	25.2	15.75	35	80/128
1	79	49.5	50.5	22.1	35	80/128
1 1/4	79	49.5	50.5	29	35	80/128
1 1/2	85	52.5	50.5	34.8	35	80/128
2	100	60	64	47.5	37	80/128
2 1/2	115	67.5	77.5	60.2	38	140
3	127	73.5	91	72.9	39	84/165
4	156	88	119	97.6	45	84/165
6	215	120	166.8	146.8	62.5	105/225
8	282	156.5	217.7	197.6	45	300

DIN Welding - 3 Piece

SIZE	D	L	E
DN15	19	88	69
DN20	23	88	69
DN25	29	88	69
DN32	35	88	76
DN40	41	92	82
DN50	53	92	98
DN65	70	94	118
DN80	85	105	134
DN100	104	105	155
DN125	129	121	185
DN150	154	121	217
DN200	204	121	284

Stainless Steel Ball Valve

(Three-piece)

Size: 1/2"-4" (DN15-100)

Product description

The three-piece stainless steel ball valve features a fully enclosed valve seat design and is available with welding or clamp connections. It supports manual or automatic operation and is widely used in industrial and liquid cooling applications.

Design Standards

- 3A / ISO / IDF / DIN / SMS, etc

Design Temperature

- 10°C to 100°C

Design Pressure

- PN10(DN65-100); PN16(DN15-50)

End Connection

- Welding: DIN 11850 / ISO 2037
- Clamp: DIN 32676 / ISO 2852

Test

- EN 12266; API 598
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar).

Features

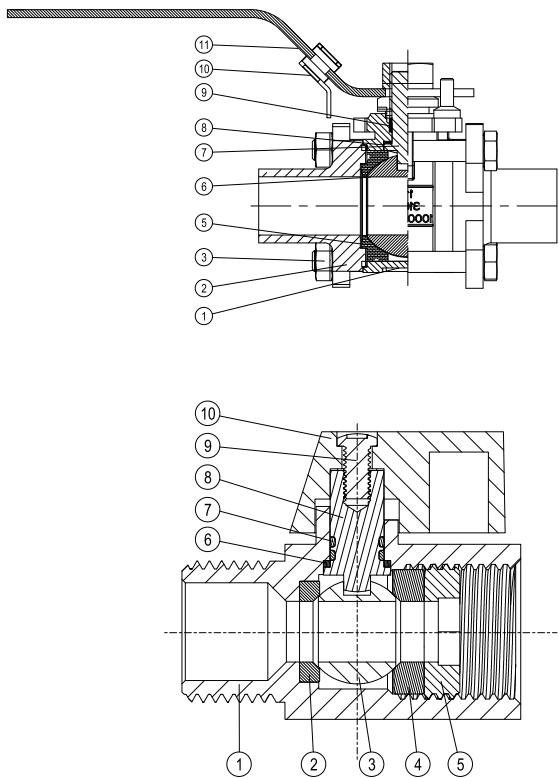
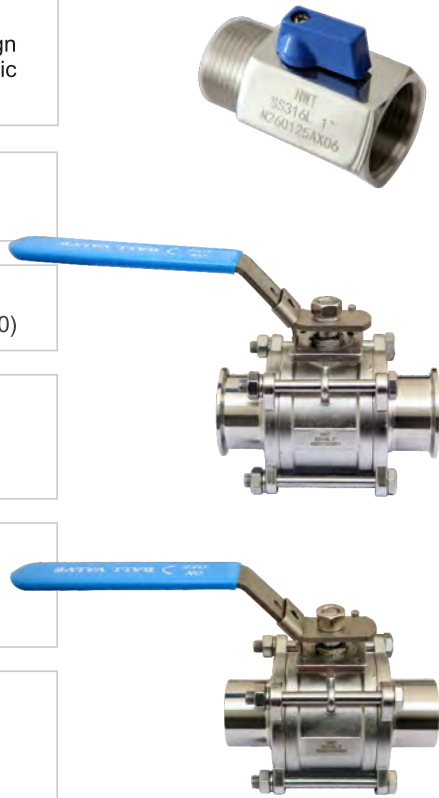
- Low torque
- Convenient for replacement
- Degreasing

PART LIST

ITEM	PART NAME	MATERIAL
1	Body	Stainless Steel
2	Cap	Stainless Steel
3	Bolt	Stainless Steel
4	Nut	Stainless Steel
5	Seat	PTFE
6	Ball	Stainless Steel
7	Stem	Stainless Steel
8	Stem Packing	PTFE
9	Thrust Washer	PTFE
10	Lock Washer	Stainless Steel
11	Handle Cover	Plastic

PART LIST

ITEM	PART NAME	MATERIAL
1	Body	Stainless Steel
2	Seal Ring	PTFE
3	Ball	Stainless Steel
4	Seal Ring	PTFE
5	Cap	Stainless Steel
6	Washer	Stainless Steel
7	O-ring	FKM
8	Stem	Stainless Steel
9	Screw	Stainless Steel
10	Lever	Stainless Steel



Stainless Steel Ball Valve

(Three-piece)

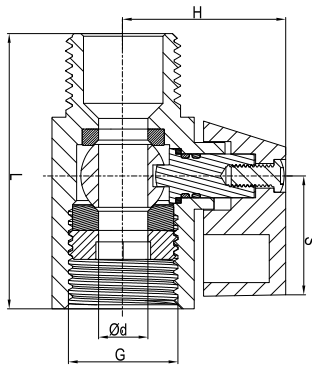
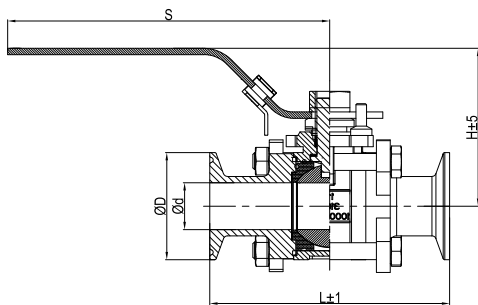
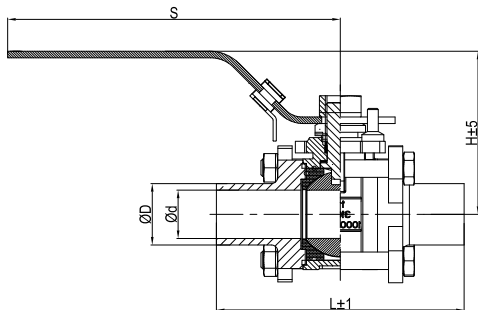
ISO Welding

SIZE	L±1	d±0.06	D±0.06	H±5	S±10
1/2	110.5	9.4	12.7	60	133
3/4	123.4	15.75	19.05	65	133
1	134.2	22.1	25.4	75	170
1 1/4	126	28.45	31.75	75	170
1 1/2	156.7	34.8	38.1	89	190
2	173.2	47.5	50.8	114	230
2 1/2	187.3	60.2	63.5	127	230
3	212.3	72.9	76.2	145	320
4	239.5	97.4	101.6	170	320

ISO Clamp

SIZE	L±1	d±0.06	D±0.06	H±5	S±10
1/2	90.5	9.4	25.2	60	133
3/4	103.4	15.75	25.2	65	133
1	114.2	22.1	50.5	75	170
1 1/4	126	28.45	50.5	75	170
1 1/2	136.7	34.8	50.5	89	190
2	153.2	47.5	64	114	230
2 1/2	167.3	60.2	77.5	127	230
3	192.3	72.9	91	145	320
4	239.5	97.4	119	170	320

SIZE	L±2	d±0.5	Thread	H±2	S±2
DN8	47	7.0	G 1/4"	27	22
DN10	45.5	7.0	G 3/8"	26	22
DN15	50.0	9.0	G 1/2"	30	22
DN20	55	12.0	G 3/4"	32	22
DN25	68	15.0	G 1"	38	33



Stainless Steel Check Valve

Size: 1/2"-4"(DN15-100)

Product description

The stainless steel check valve prevents medium backflow in pipelines and is available with welding or clamp connections. It supports manual or automatic operation and is widely used in industrial and liquid cooling applications.

Design Standards

- 3A / ISO / IDF / DIN / SMS, etc

Design Temperature

- -10°C to 100°C

Design Pressure

- PN10

End Connection

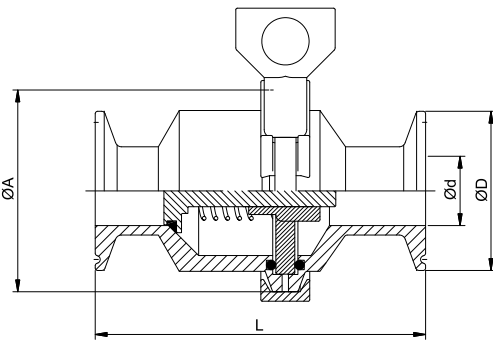
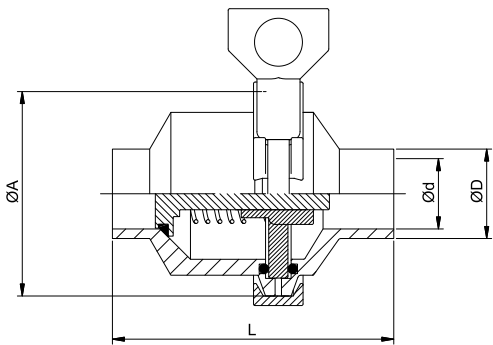
- Welding: DIN 11850 / ISO 2037
- Clamp: DIN 32676 / ISO 2852

Test

- EN 12266; API 598
- Body: 1.5 x PN (in bar).

Features

- Low resistance
- Convenient for replacement
- Degreasing



Stainless Steel Check Valve

ISO Welding

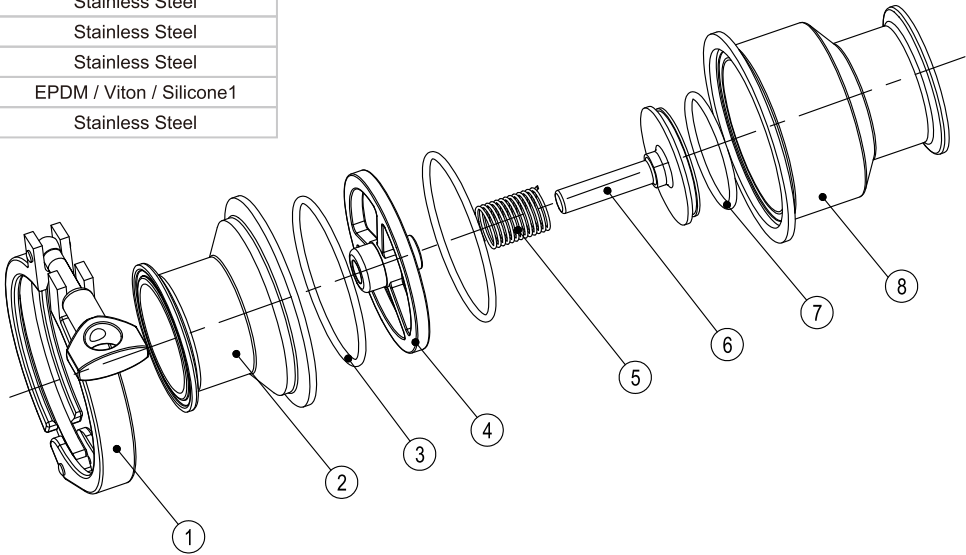
SIZE	A	d	D	L±2
1/2	50.5	9.4	12.7	60
3/4	64	15.75	19.05	60
1	64	22.1	25.4	81
1 1/4	77.5	29	31.75	83
1 1/2	77.5	34.8	38.1	83
2	91	47.5	50.8	91
2 1/2	106	60.2	63.5	98
3	119	72.9	76.2	109
4	144.5	97.6	101.6	108

ISO Welding

SIZE	A	d	D	L±2
1/2	50.5	9.4	25	69
3/4	64	15.75	25	69
1	64	22.1	50.5	104
1 1/4	77.5	29	50.5	106
1 1/2	77.5	34.8	50.5	106
2	91	47.5	64	114
2 1/2	106	60.2	77.5	121
3	119	72.9	91	132
4	144.5	97.6	119	137

PART LIST

ITEM	PART NAME	MATERIAL
1	Clamp	Stainless Steel
2	Cap	Stainless Steel
3	Seal Ring	EPDM
4	Circular Ring	Stainless Steel
5	Spring	Stainless Steel
6	Plug	Stainless Steel
7	Seal Ring	EPDM / Viton / Silicone1
8	Body	Stainless Steel



Size: 1/2"-4"(DN15-100)

Product description

The stainless steel strainer removes impurities from the medium, ensuring the reliable operation of valves and equipment. It is available with welding or clamp connections and is suitable for liquid cooling and industrial applications.

Design Standards

- 3A / ISO / IDF / DIN / SMS, etc

Design Temperature

- 10°C to 100°C

Design Pressure

- PN10

End Connection

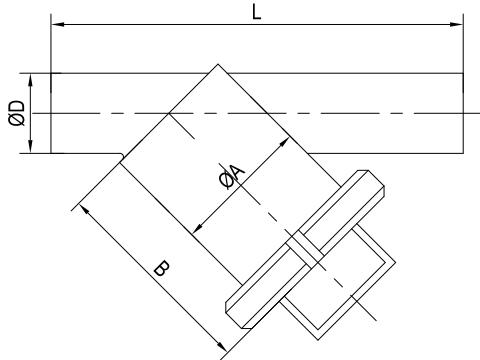
- Welding: DIN 11850 / ISO 2037
- Clamp: DIN 32676 / ISO 2852

Test

- EN 12266; API 598
- Body: 1.5 x PN (in bar).

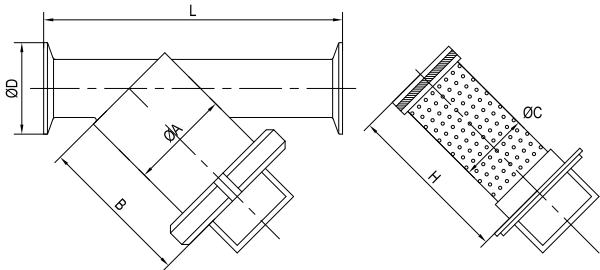
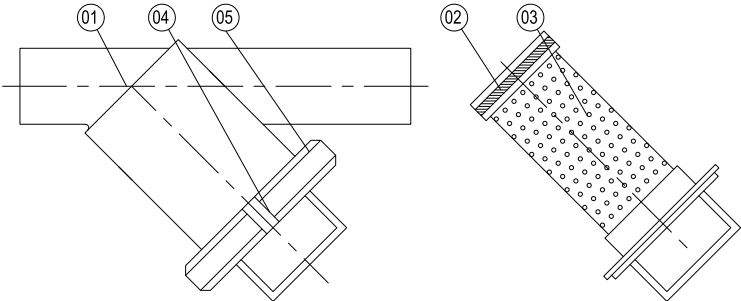
Features

- Low resistance
- Convenient for replacement
- Degreasing



DN	D	L	A	B	C	H
1	25.4	170	45	110	30	98
1 1/2	38.1	205	63	130	40	118
2	50.8	225	76	150	51	138
2 1/2	63.5	275	89	185	71	173
3	76.2	310	102	205	71	193
4	101.6	390	133	270	100	258

PART LIST		
ITEM	PART NAME	MATERIAL
1	Body	Stainless Steel
2	Sealing	EPDM(FKM Optional)
3	Screen	Stainless Steel
4	Bonnet	Stainless Steel
5	Nuts	Stainless Steel



DN	D	L	A	B	C	H
1	50.5	170	45	110	30	98
1 1/2	50.5	205	63	130	40	118
2	64	225	76	150	51	138
2 1/2	77.5	275	89	185	71	173
3	91	310	102	205	71	193
4	119	390	133	270	100	258

Ductile Iron Strainer

Size:1/2"-20"(DN15-500)

Product description

Ductile Iron Strainer removes impurities from the medium, ensuring the reliable operation of valves and equipment. It is suitable for liquid cooling and industrial applications.

Design Pressure

- PN16
- PN10 / 25 (Option Available)

Flange Drilling

- EN1092-2 PN10 / 16 / 25

Design Temperature

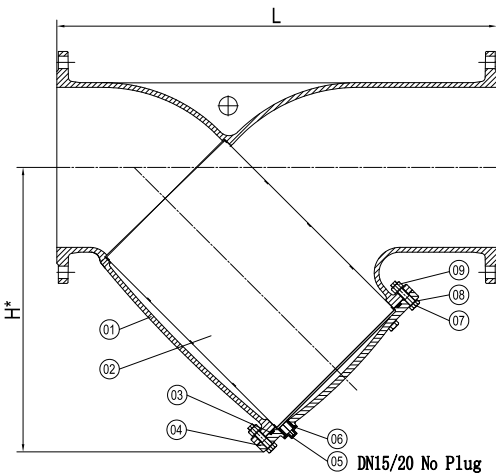
- 0°C to 80°C

Face-to-face Dimension

- DIN-F1; BS2080

Features

- Easy maintenance
- Low head loss
- Drain plug design can realize full drainage without removing the bonnet



PART LIST		
ITEM	PART NAME	MATERIAL
1	Body	Ductile Iron
2	Screen	Stainless Steel
3	O Ring	NBR
4	Bonnet	Ductile Iron
5	Plug	Stainless Steel
6	O Ring	NBR
7	Bolts	Stainless Steel
8	Washers	Stainless Steel
9	Nuts	Stainless Steel

DN	OUTLINE (mm)		DN	OUTLINE (mm)	
	L	H*		L	H*
	DIN-F1			DIN-F1	
15	130	78	125	400	262
20	150	84	150	480	301
25	160	87	200	600	370
32	180	105	250	730	486
40	200	108	300	850	582
50	230	136	350	980	650
65	290	162	400	1100	711
80	310	184	450	1200	821
100	350	211	500	1250	924

Stainless Steel Air Release Valve

Size:1/2"-1"(DN15-25)

Product description

The stainless steel Air Release Valve automatically removes air from pipes or equipment, preventing negative pressure, suction, and medium leakage to ensure stable pipeline system operation.

Design Standards

- EN1074-4, ASME B16.34, AWWA C512, etc

Design Pressure

- PN16

End Connection

- Threaded

Design Temperature

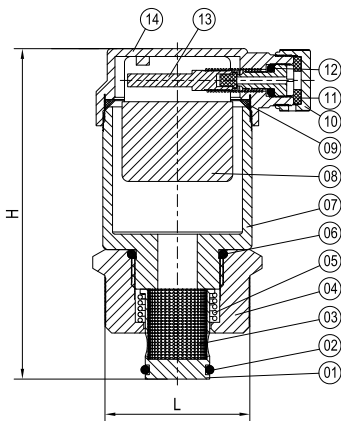
- -20°C to 100°C

Test

- EN 12266-1
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar).

Features

- Stainless steel is corrosion-resistant and has high mechanical strength.
- Excellent design, high performance, and easy installation.
- Lightweight and easy to install, the design suits compact pipe layouts.
- Automatic venting to prevent medium leakage. The entire process requires no manual intervention.



PART LIST					
ITEM	PART NAME	MATERIAL	ITEM	PART NAME	MATERIAL
1	Sleeve	Stainless Steel	8	Floater	POM
2	O-Ring	NBR/EPDM	9	Seal Ring	NBR/EPDM
3	Strainer	Stainless Steel	10	Cover	Stainless Steel
4	Supporting Seat	Stainless Steel	11	Gasket	NBR/EPDM
5	Spring	Stainless Steel	12	O-Ring	NBR/EPDM
6	O-Ring	NBR/EPDM	13	Connecting Rod	Stainless Steel
7	Body	Stainless Steel	14	Bonnet	Stainless Steel

DN	DN15	DN20	DN25
L	79	79	79
H	12	15	16

Resilient Dual Plate Check Valve

Size:1/2"-20"(DN15-500)

Product Description

- Resilient dual plate check valve for drinking water, cooling water, waste water and other neutral fluids.

Design Standards

- EN 1074 part1 & 3; EN16767; API594

Design Pressure:

- PN10/16

Flange Drilling

- EN1092-2 PN10/16; ASME B 16.1/16.42 CL125/CL150; AWWA; ASME B16.5/16.47

Design Temperature

- 0°C to 80°C

Test

- EN 12266;
Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar).

Features

- Non slam
- Low operating pressure

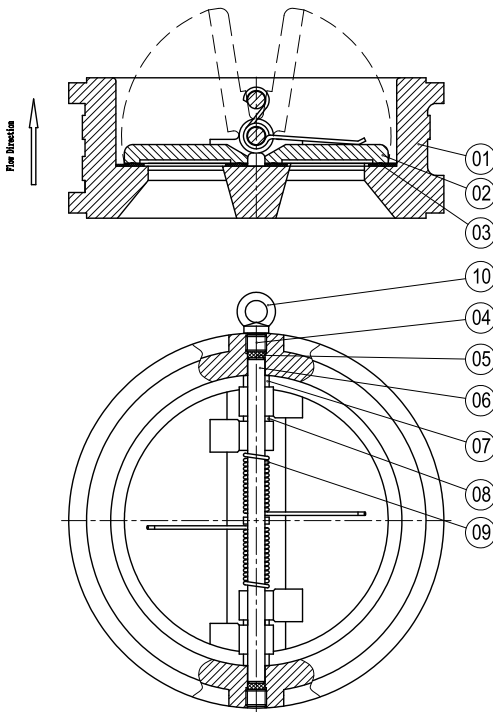


PART LIST

ITEM	PART NAME	MATERIAL
1	Body	Ductile Iron
2	Disc	Ductile Iron
3	Seat	EPDM / NBR / Viton/ PTFE
4	Screw	Stainless Steel
5	Sealing Gasket	EPDM
6	Shaft	Stainless Steel
7	Washer	PTFE
8	Washer	PTFE
9	Spring	316SS
10	Lifting Eye Bolts	Carbon Steel

Note: Carbon steel, Stainless steel, DSS, SDSS for optional.

DN	40	50	65	80	100	150	200	250	300	350	400	450	500
L	33	43	46	64	64	76	89	114	114	127	140	152	152



Static Balancing Valve

Size:1/2"-2"(DN15-50)

Product Description

- Static balancing valves provide precise maximum flow control for pipe and equipment to achieve static balance.

Design Pressure:

- PN10/16

Flange Drilling

- Thread End

Design Temperature

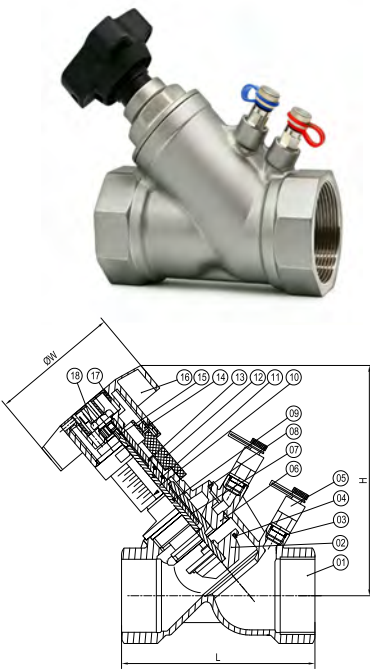
- 20°C to 100°C

Test

- EN 12266;
Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar).

Features

- Straight-way structure ensures low flow resistance
- Positive shut-off function
Soft seat design for tight seal
Flow regulation is excellent, with a linear relationship between flow and valve opening.



PART LIST

ITEM	PART NAME	MATERIAL	ITEM	PART NAME	MATERIAL
1	Body	Stainless Steel	10	Shaft	Stainless Steel
2	Disc	Stainless Steel	11	O-Ring	EPDM
3	O-Ring	EPDM	12	Indicator	Plastic
4	O-Ring	EPDM	13	Circlip	Stainless Steel
5	Test Plug	Stainless Steel	14	Fixed Part	Plastic
6	Bonnet	Stainless Steel	15	Plug	Stainless Steel
7	Pin	Stainless Steel	16	Handwheel	Plastic
8	O-Ring	EPDM	17	Handwheel Part	Plastic
9	O-Ring	EPDM	18	Bolt	Stainless Steel

DN	L	H	W	DN	L	H	W
DN15	80	114	70	DN32	110	136	70
DN20	85	116	70	DN40	120	138	70
DN25	98	119	70	DN50	150	148	70

SS type thread type static balancing valve-KV value

Cycle Number	DN	DN50	Cycle Number	DN	DN50
0.50		6.5	2.50		18.68
1.00		10.4	3.00		19.2
1.50		13.77	3.50		21.25
2.00		16.62	4.00		23.65

Size: 2"-12"(DN50-300)

Product Description

Static balancing valves provide precise maximum flow control for pipe and equipment to achieve static balance.

Design Pressure

- PN10/16

Flange Drilling

- EN1092-2 PN10/16/25

Design Temperature

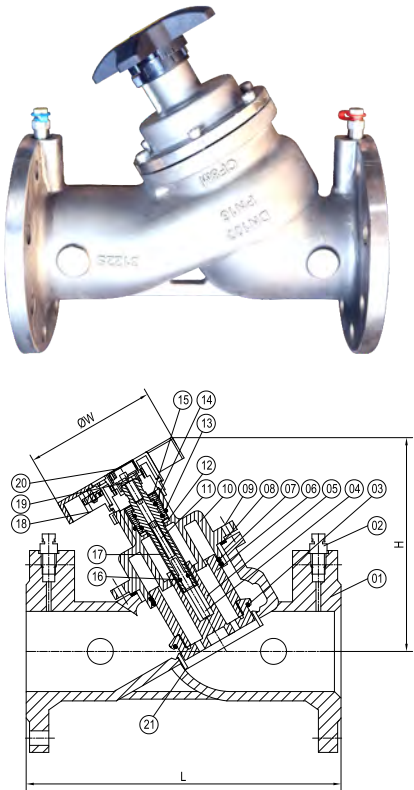
- -20 to 100°C

Test

- EN 12266
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar)

Features

- Straight-way structure ensures low flow resistance
- Positive shut-off function
- Soft seat design for tight seal
- Flow regulation is excellent, with a linear relationship between flow and valve opening



PART LIST					
ITEM	PART NAME	MATERIAL	ITEM	PART NAME	MATERIAL
1	Body	Stainless Steel	12	Gasket	Stainless Steel
2	Testing Point	Stainless Steel	13	O-Ring	EPDM
3	O-Ring	EPDM	14	O-Ring	EPDM
4	Pin	Stainless Steel	15	Gland	Brass
5	Plug	Stainless Steel	16	O-Ring	EPDM
6	Plug Barrel	Stainless Steel	17	Stem	Stainless Steel
7	O-Ring	EPDM	18	Handwheel	Plastic
8	Gasket	EPDM	19	Bolt	Plastic
9	Bolt	Stainless Steel	20	Cover	Plastic
10	Bonnet	Stainless Steel	21	Seat	Stainless Steel
11	Bolt	Stainless Steel			

DN	L	H	W	DN	L	H	W
DN50	230	195	140	DN150	480	270	140
DN65	290	195	140	DN200	600	388	315
DN80	310	212	140	DN250	730	411	315
DN100	350	236	140	DN300	850	460	315
DN125	400	263	140				

SS Type Flanged Type Static Balancing Valve-kv Value

DN Cycle Number	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
1	5.7	7.3	7.2	11.2	11.1	17.6	47.7	70.4	60.3
2	11.3	11.7	13.1	23.4	27.5	45.3	103.4	156.3	159.6
3	23.9	19	20.1	41.3	54.5	92.0	164.9	241.9	249.5
4	35.8	34	37.4	59.4	85.6	134.0	253.8	311.3	305.4
5	45.7	47	61.4	90.0	125.5	183.9	385.9	409.0	377.5
6	53.7	55.8	81.4	116.3	158.1	221.4	474.0	554.2	555.9
7	62	67.2	100.6	142.5	194.1	298.5	558.0	683.1	691.2
8	70.5	76.8	110.1	164.0	230.7	359.5	637.1	758.0	790.4
9		84.9	118.0	187.4	263.9	400.8	699.2	826.0	933.3
10							726.9	920.0	1036.6
11								1010.9	1168.7
12								1087.8	1232.2
13									1276.2