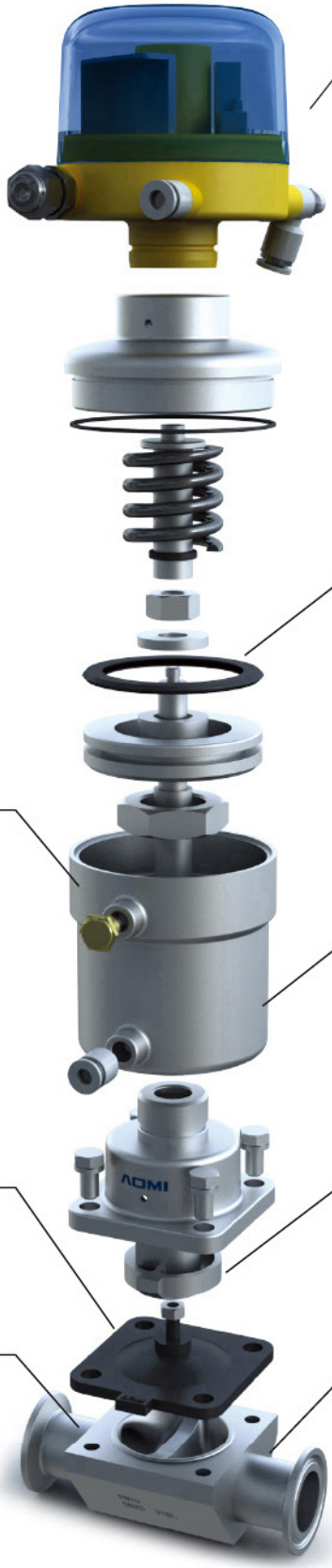


Smart controller

We use only the best-of-breed components for the smart controller. It is equipped with relief valve and sealed electronic devices inside. ZK4 smart controller is available. It is applied to actuators with a stroke range of 5-50mm. It maximizes cost performance with modular design. It can perform real-time monitoring of the valve working conditions as well as timely feedback of signals by remote control.

Adopt long lifetime configuration design

The inner cylinder wall is processed by CNC machine

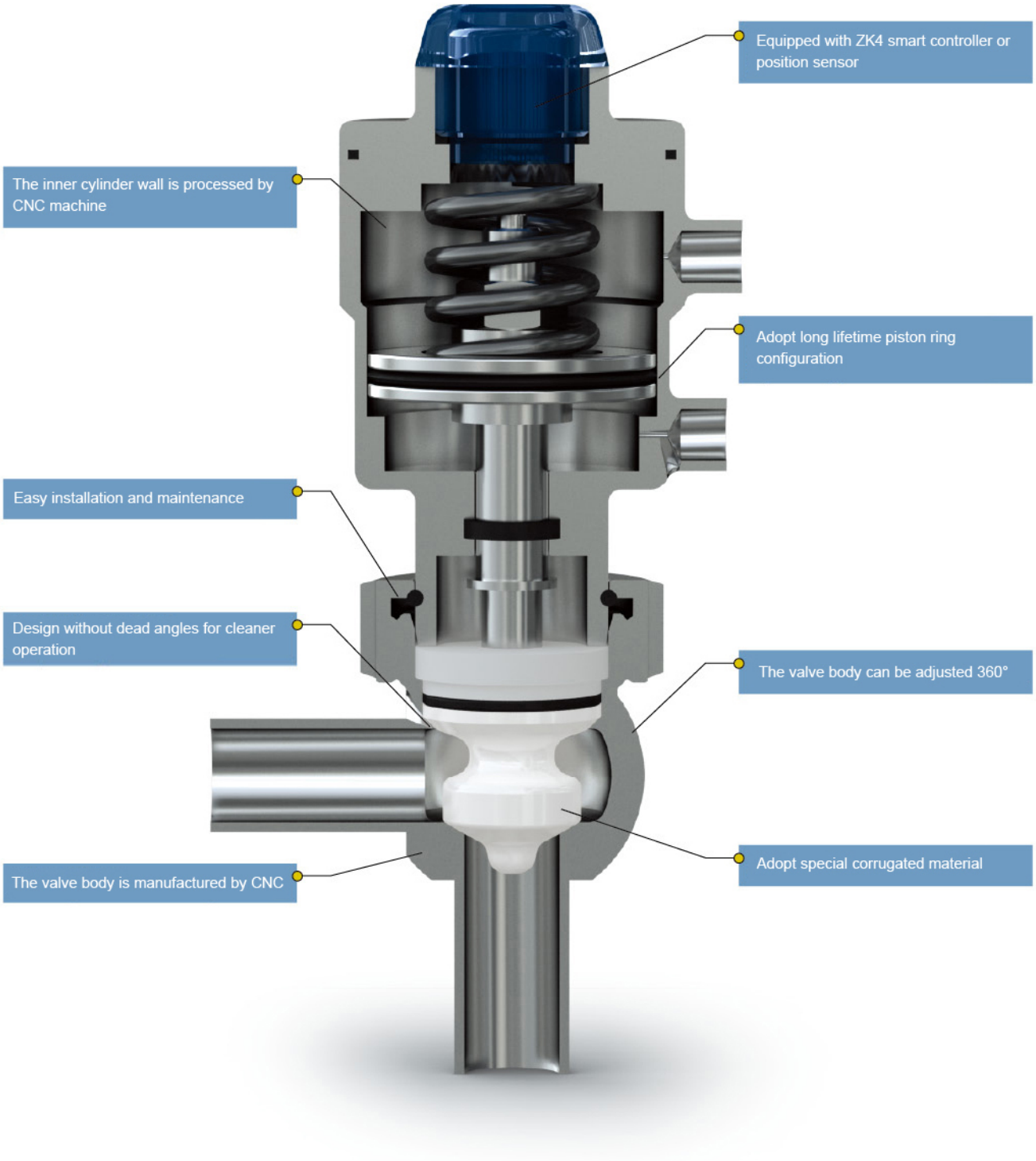
Fixing angle of actuator can be adjusted 360°

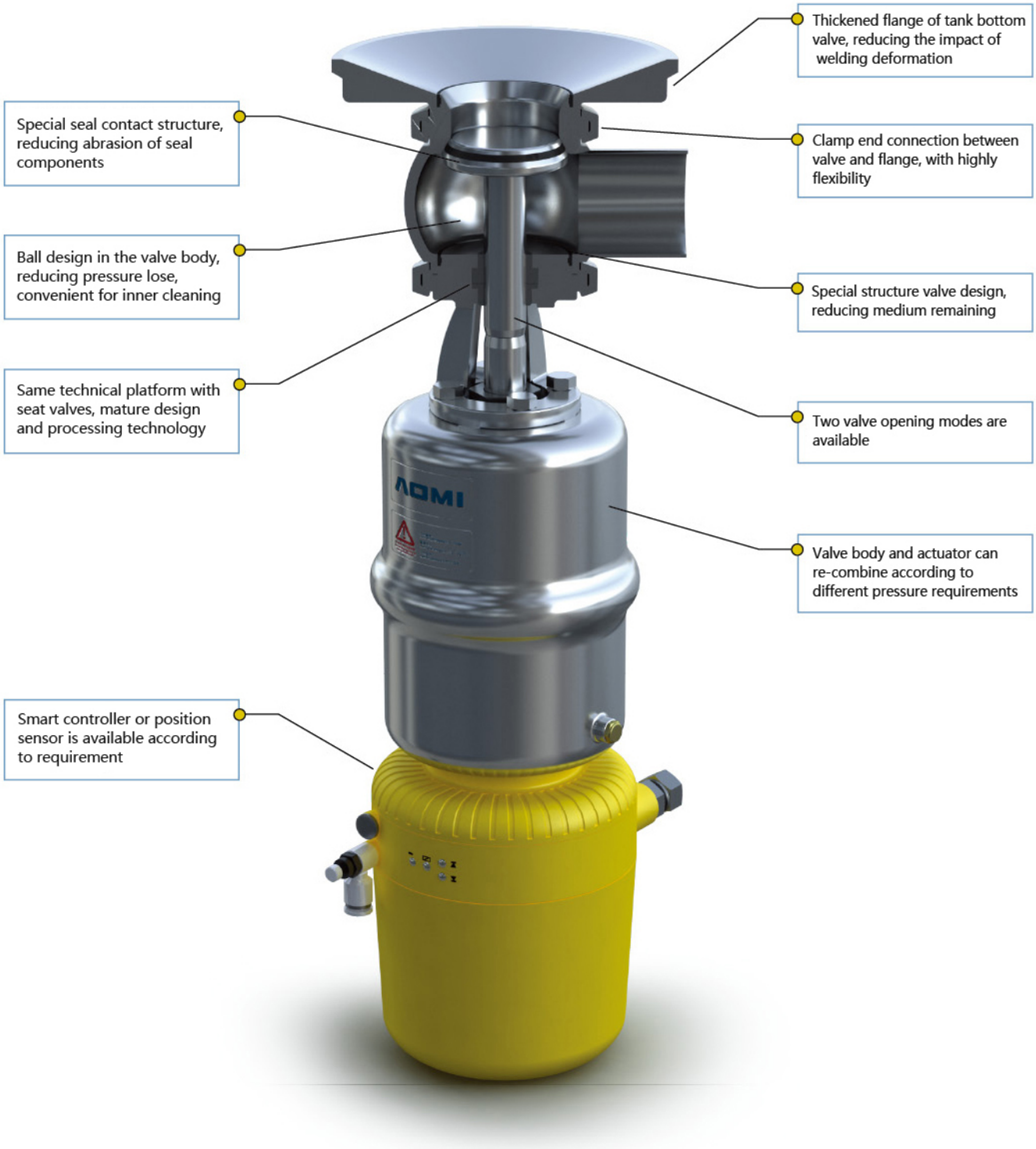
The materials of diaphragms comply with FDA177.2600

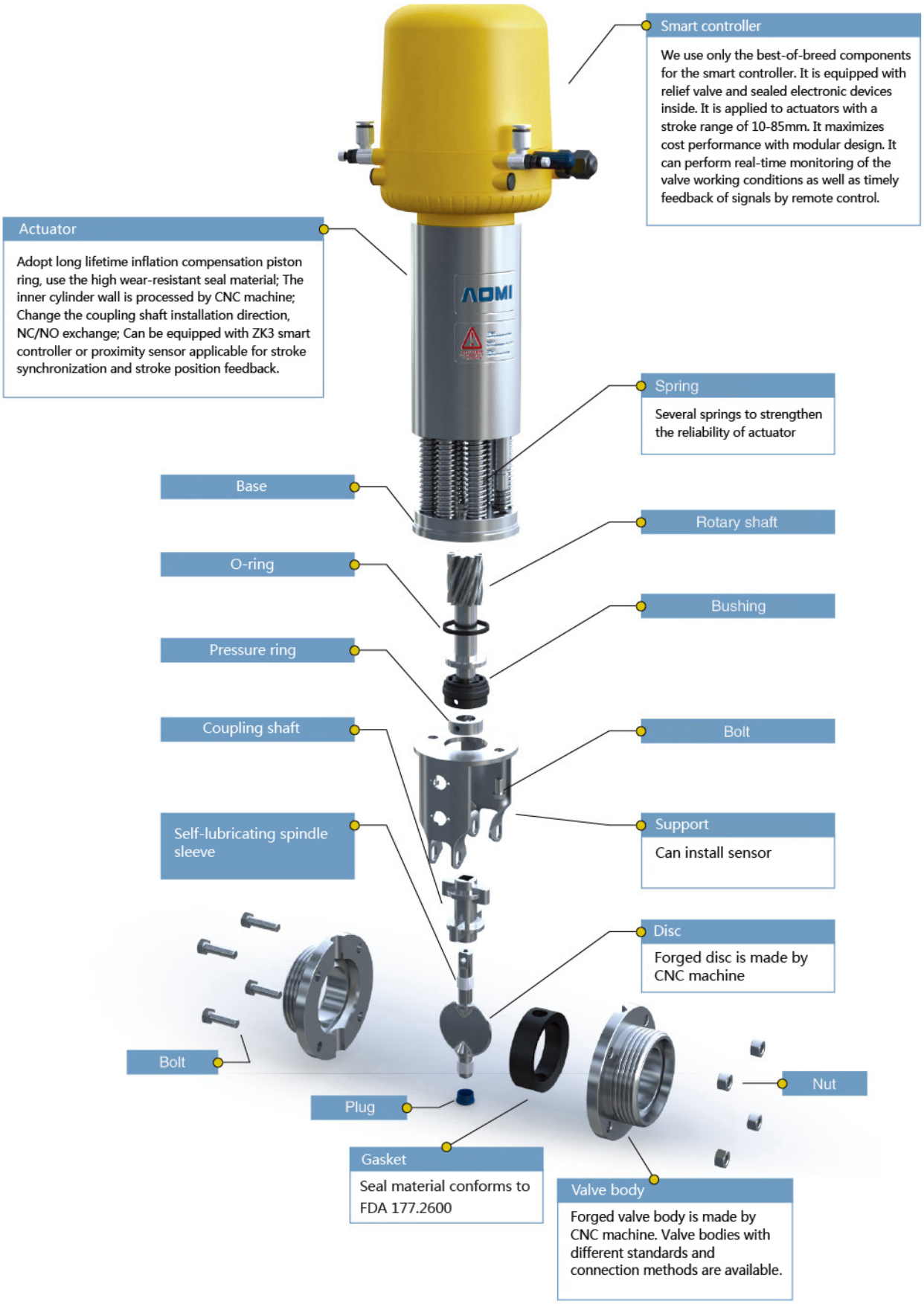
Connecting structure of special diaphragm and valve plate

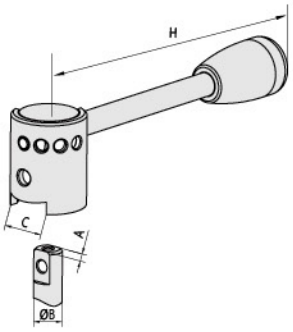
Forged valve body is made by CNC machine
EN10204 3.1 B certificate is provided

Valve bodies with various standards and connection methods are available


Equipped with ZK4 smart controller or position sensor
The inner cylinder wall is processed by CNC machine
Adopt long lifetime piston ring configuration
Easy installation and maintenance
Design without dead angles for cleaner operation
The valve body can be adjusted 360°
Adopt special corrugated material
The valve body is manufactured by CNC


Thickened flange of tank bottom valve, reducing the impact of welding deformation
Special seal contact structure, reducing abrasion of seal components
Clamp end connection between valve and flange, with highly flexibility
Ball design in the valve body, reducing pressure lose, convenient for inner cleaning
Special structure valve design, reducing medium remaining
Same technical platform with seat valves, mature design and processing technology
Two valve opening modes are available
Valve body and actuator can re-combine according to different pressure requirements
Smart controller or position sensor is available according to requirement


Smart controller
We use only the best-of-breed components for the smart controller. It is equipped with relief valve and sealed electronic devices inside. It is applied to actuators with a stroke range of 10-85mm. It maximizes cost performance with modular design. It can perform real-time monitoring of the valve working conditions as well as timely feedback of signals by remote control.
Actuator
Adopt long lifetime inflation compensation piston ring, use the high wear-resistant seal material; The inner cylinder wall is processed by CNC machine; Change the coupling shaft installation direction, NC/NO exchange; Can be equipped with ZK3 smart controller or proximity sensor applicable for stroke synchronization and stroke position feedback.
Spring
Several springs to strengthen the reliability of actuator
Base
Rotary shaft
O-ring
Bushing
Pressure ring
Coupling shaft
Bolt
Support
Can install sensor
Self-lubricating spindle sleeve
Disc
Forged disc is made by CNC machine
Bolt
Nut
Plug
Gasket
Seal material conforms to FDA 177.2600
Valve body
Forged valve body is made by CNC machine. Valve bodies with different standards and connection methods are available.

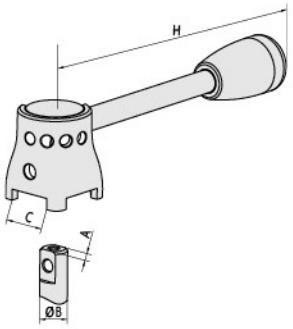


Handle Type 1 Dimensions (mm)

Size		A	B	C	H
DN25-DN50	1.0"-2.0"	8	12	20	140
DN65	2.5"-3.0"	8	12	20	155
DN80-DN100	4.0"	10	14	24	155
DN125-DN150	5.0"-6.0"	12	16	30	192

Adjusting Method

The handle can be adjusted to 2 positions, 3 positions, or 4 positions, and can be equipped with all kinds of butterfly valves.

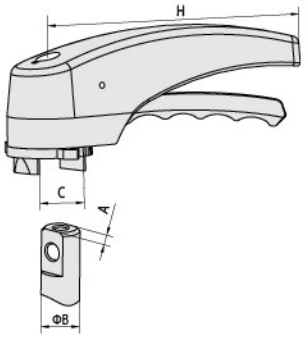


Handle Type 2 Dimensions (mm)

Size		A	B	C	H
DN25-DN50	1.0"-2.0"	8	12	20	140
DN65	2.5"-3.0"	8	12	20	155
DN80-DN100	4.0"	10	14	24	155
DN125-DN150	5.0"-6.0"	12	16	30	192

Adjusting Method

The handle can be adjusted to 2 positions, 3 positions, or 4 positions, and can be equipped with all kinds of butterfly valves.

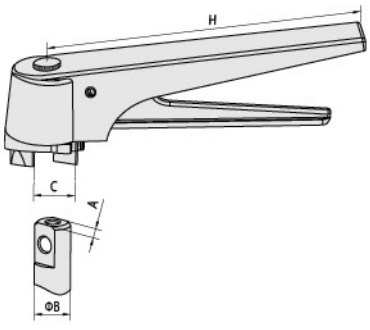


Handle Type 3 Dimensions (mm)

Size		A	B	C	H
DN25-DN50	1.0"-2.0"	8	12	20	150
DN65	2.5"-3.0"	8	12	20	150
DN80-DN100	4.0"	10	14	24	165
DN125-DN150	5.0"-6.0"	12	16	30	165

Adjusting Method

The handle can be adjusted to 13 positions by turning at an angle of 15°. It can be equipped with all kinds of butterfly valves.

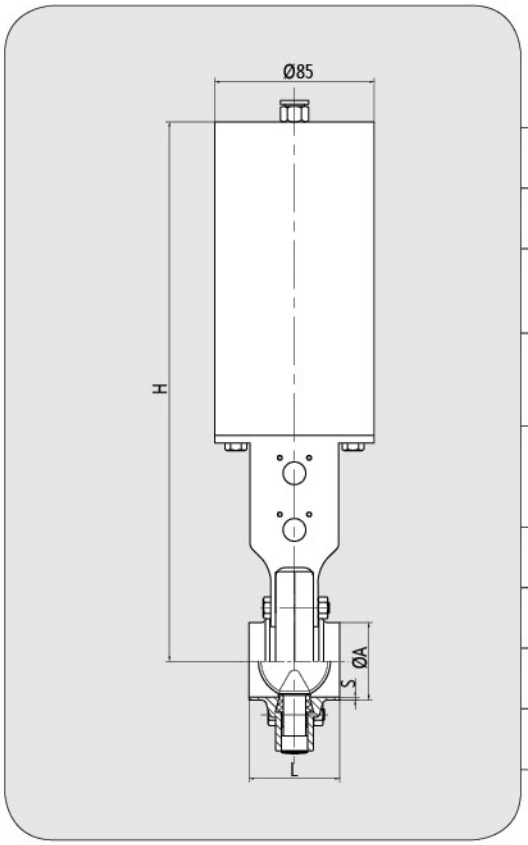


Handle Type 4 Dimensions (mm)
(Stainless Steel Multi-position Handle)

Size		A	B	C	H
DN25-DN50	1.0"-2.0"	8	12	20	155
DN65	2.5"-3.0"	8	12	20	155
DN80-DN100	4.0"	10	14	24	155
DN125-DN150	5.0"-6.0"	12	16	30	155

Adjusting Method

The handle can be adjusted to 13 positions by turning at an angle of 15°. It can be equipped with all kinds of butterfly valves.



Welding end type with pneumatic actuator

DIN

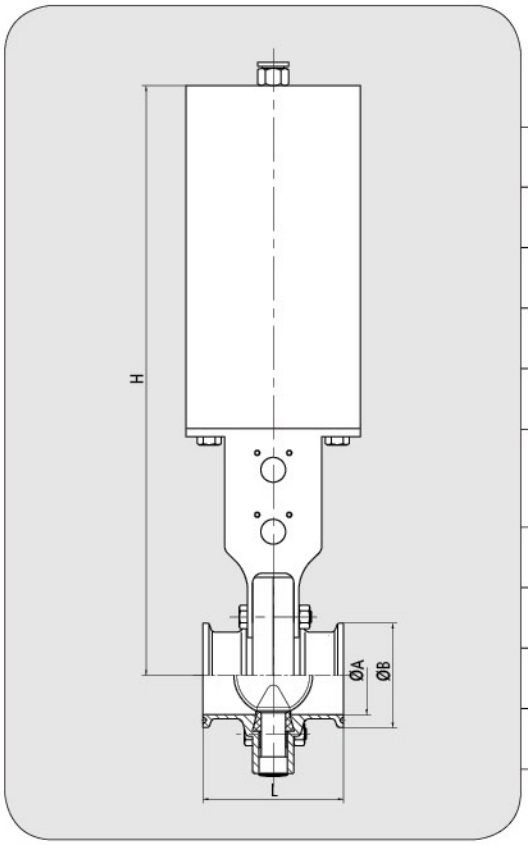
Dimensions (mm)

DN	A		S	L	H
	1	2			
DN20	22	23	1.5	44	303
DN25	28	29	1.5	44	303
DN32	34	35	1.5	48	309
DN40	40	41	1.5	48	316
DN50	52	53	1.5	48	332
DN65	70		2	50	351
DN80	85		2	56	366
DN100	104		2	60	386

SMS / 3A / ISO

Dimensions (mm)

Size	A	S	L	H
1.0"	25.4	1.65	44	303
1.5"	38.1	1.65	48	316
2.0"	50.8	1.65	48	332
2.5"	63.5	1.65	50	339
3.0"	76.2	1.65	56	349
4.0"	101.6	2.11	60	386



Clamp end type with pneumatic actuator

DIN

Dimensions (mm)

DN	A	B	L	H
DN20	20	34	66	303
DN25	26	50.5	66	303
DN32	32	50.5	66	309
DN40	38	50.5	68	316
DN50	50	64	70	332
DN65	66	91	72	351
DN80	81	106	92	366
DN100	100	119	98	386

SMS / 3A / ISO

Dimensions (mm)

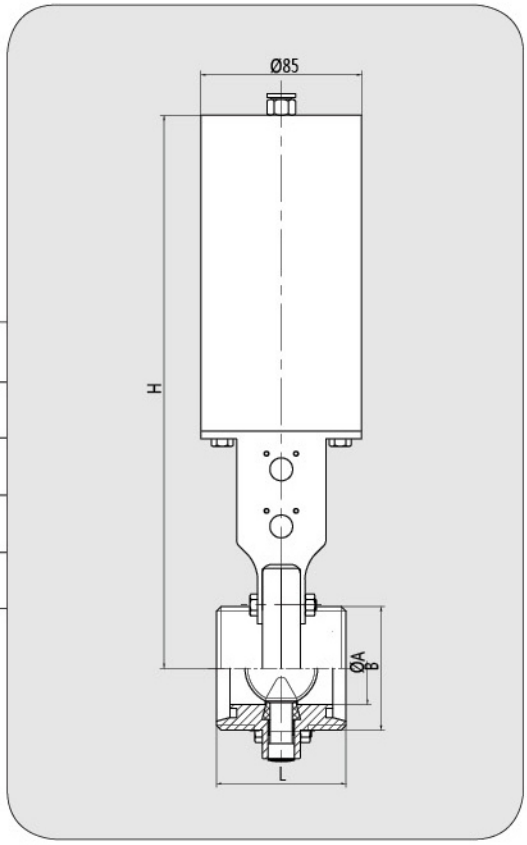
Size	A	B	L	H
1.0"	22.1	50.5	66	303
1.5"	34.9	50.5	68	316
2.0"	47.5	64	70	332
2.5"	60.2	77.5	72	339
3.0"	72.9	91	72	349
4.0"	97.6	119	98	386

Threaded end type with pneumatic actuator

DIN

Dimensions (mm)

DN	A	B	L	H
DN20	20	RD44X1/6"	66	303
DN25	26	RD52X1/6"	66	303
DN32	32	RD58X1/6"	66	309
DN40	38	RD65X1/6"	68	316
DN50	50	RD78X1/6"	70	332
DN65	66	RD95X1/6"	72	351
DN80	81	RD110X1/4"	92	366
DN100	100	RD130X1/4"	98	386

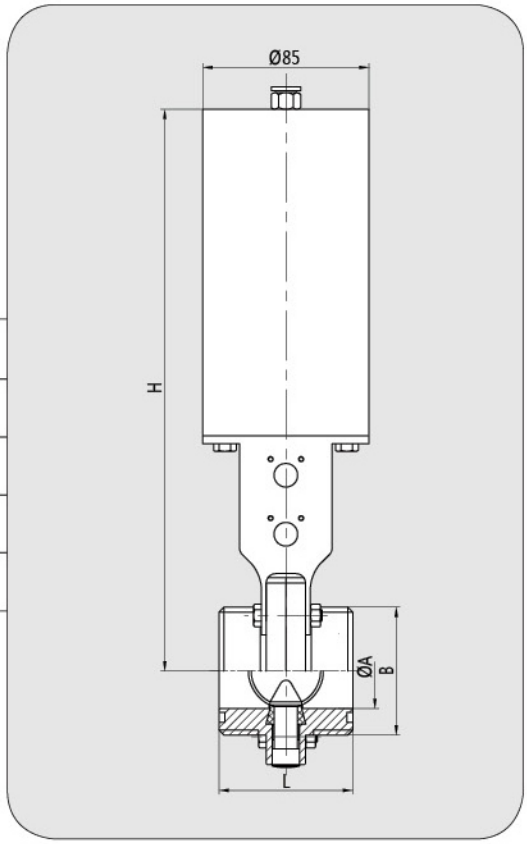


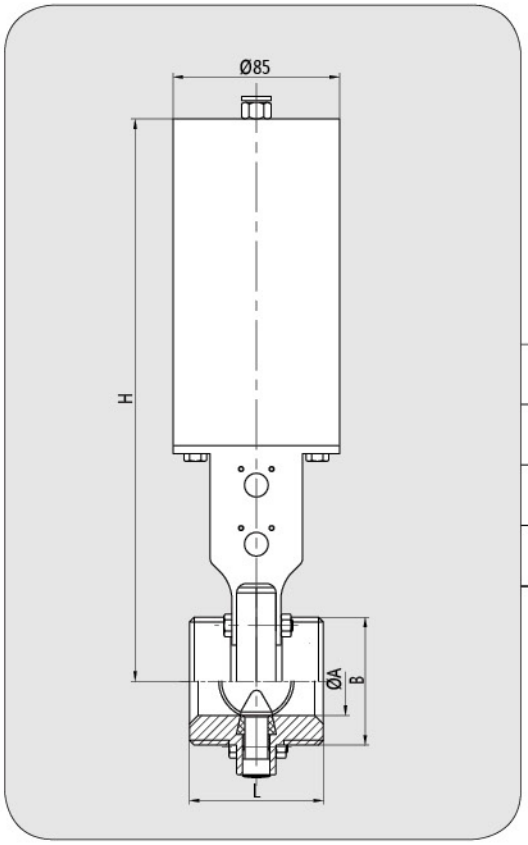
Threaded end type with pneumatic actuator

SMS

Dimensions (mm)

Size	A	B	L	H
SMS25	22.5	RD40X1/6"	66	303
SMS38	35.5	RD60X1/6"	68	316
SMS51	48.5	RD70X1/6"	70	332
SMS63.5	60.5	RD85X1/6"	80	339
SMS76	72.9	RD98X1/6"	80	349
SMS101.6 Min	97.6	RD125X1/4"	98	386
SMS101.6 Max	97.6	RD132X1/6"	104	386



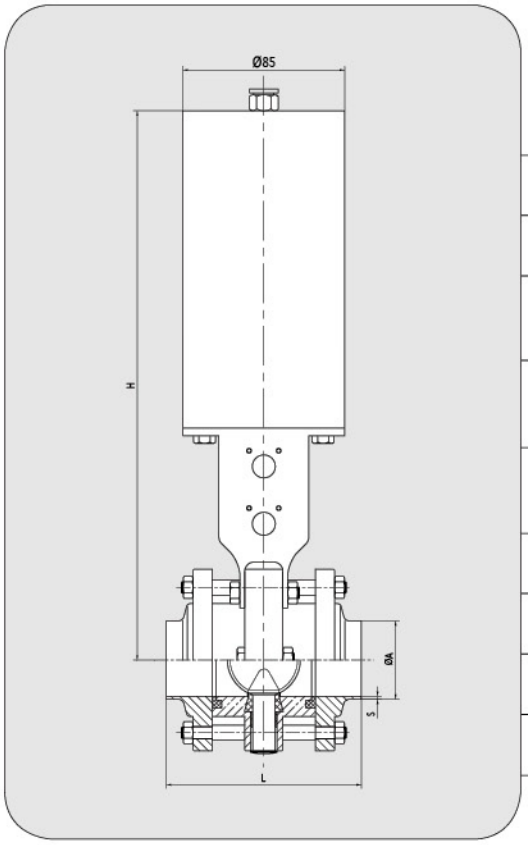


Threaded end type with pneumatic actuator

3A

Dimensions (mm)

Size	A	B	L	H
1.0"	22.1	37.13x8TPI ACME	66	303
1.5"	34.8	50.65x8TPI ACME	68	316
2.0"	47.5	64.16x8TPI ACME	70	332
2.5"	60.2	77.67x8TPI ACME	80	339
3.0"	72.9	91.19x8TPI ACME	80	349
4.0"	97.38	119.25x6TPI ACME	98	386



Three-piece type with pneumatic actuator

DIN

Dimensions (mm)

DN	A		S	L	H
	1	2			
DN20	22	23	1.5	100	303
DN25	28	29	1.5	100	303
DN32	34	35	1.5	100	309
DN40	40	41	1.5	110	316
DN50	52	53	1.5	114	332
DN65	70		2	130	351
DN80	85		2	135	366
DN100	104		2	160	386

Inch

Dimensions (mm)

Size	A	S	L	H
1.0"	25.4	1.65	100	303
1.5"	38.1	1.65	110	316
2.0"	50.8	1.65	114	332
2.5"	63.5	1.65	130	351
3.0"	76.2	1.65	135	366
4.0"	101.6	2.11	160	386

Welding end type with manual handle

DIN

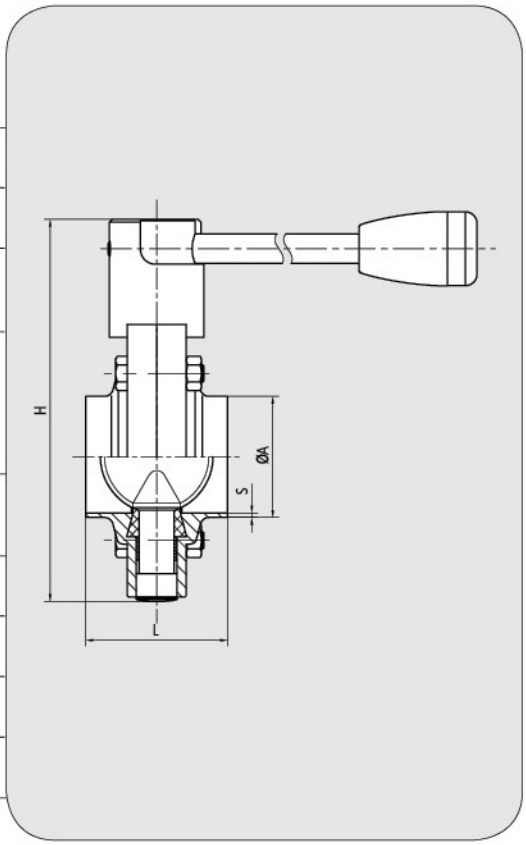
Dimensions (mm)

DN	A		S	L	H
	1	2			
DN20	22	23	1.5	44	113.5
DN25	28	29	1.5	44	113.5
DN32	34	35	1.5	48	123.5
DN40	40	41	1.5	48	132.5
DN50	52	53	1.5	48	145
DN65	70		2	50	163
DN80	85		2	56	190
DN100	104		2	60	210
DN125	129		2	70	239
DN150	154		2	80	288

Inch

Dimensions (mm)

Size	A	S	L	H
1"	25.4	1.65	44	113.5
1.5"	38.1	1.65	48	132.5
2"	50.8	1.65	48	145
2.5"	63.5	1.65	50	163
3"	76.2	1.65	56	190
4"	101.6	2	60	210



Clamp end type with manual handle

DIN

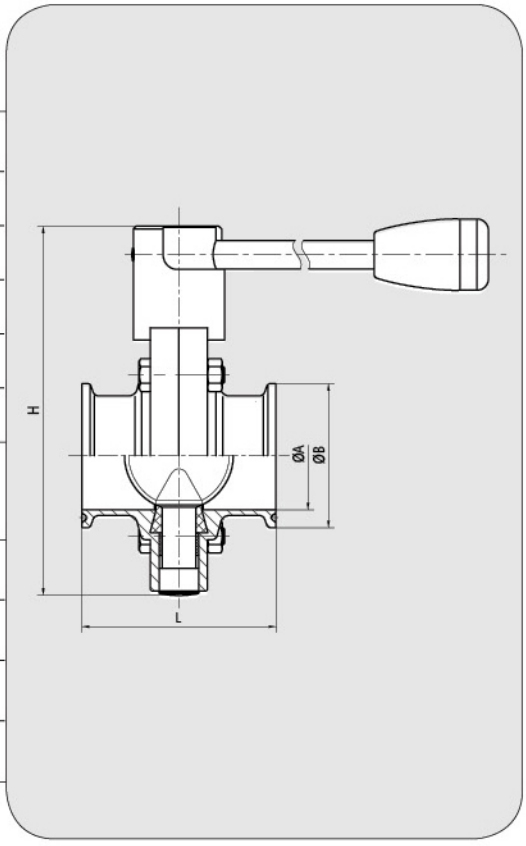
Dimensions (mm)

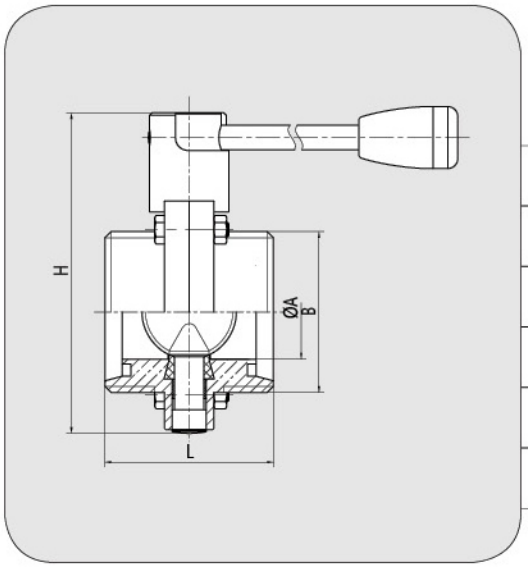
DN	A	B	L	H
DN20	20	34	66	113.5
DN25	26	50.5	66	113.5
DN32	32	50.5	66	125.5
DN40	38	50.5	68	132.5
DN50	50	64	70	145
DN65	66	91	72	163
DN80	81	106	92	190
DN100	100	119	98	210
DN125	125	155	106	239
DN150	150	183	120	288

SMS / 3A / ISO

Dimensions (mm)

Size	A	B	L	H
1.0"	22.1	50.5	66	113.5
1.5"	34.8	50.5	68	132.5
2.0"	47.5	64	70	145
2.5"	60.2	77.5	72	163
3.0"	72.9	91	72	190
4.0"	97.38	119	98	210

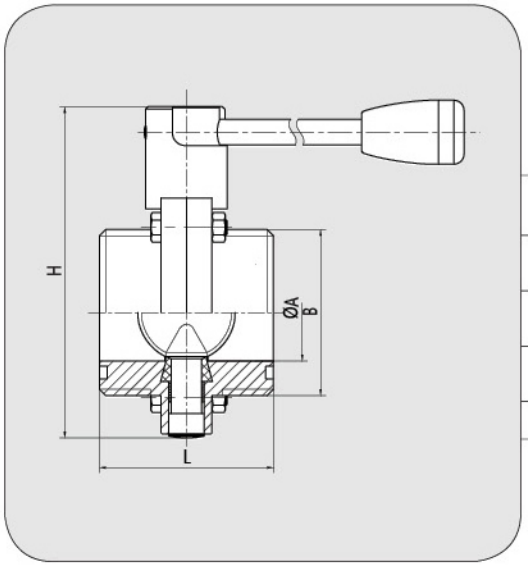




Threaded end type with manual handle
DIN

Dimensions (mm)

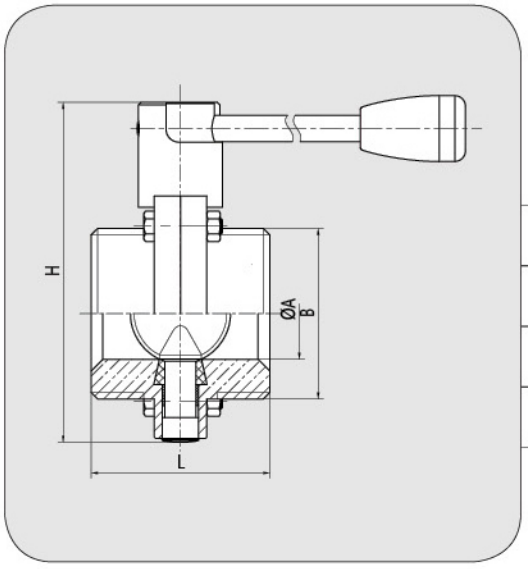
DN	A	B	L	H
DN20	20	RD44X1/6"	66	113.5
DN25	26	RD52X1/6"	66	113.5
DN32	32	RD58X1/6"	66	125.5
DN40	38	RD65X1/6"	68	132.5
DN50	50	RD78X1/6"	70	145
DN65	66	RD95X1/6"	72	163
DN80	81	RD110X1/4"	92	190
DN100	100	RD130X1/4"	98	210
DN125	125	RD160X1/4"	106	239
DN150	150	RD190X1/4"	120	288



Threaded end type with manual handle
SMS

Dimensions (mm)

Size	A	B	L	H
SMS25	22.5	RD40X1/6"	66	113.5
SMS38	35.5	RD60X1/6"	68	132.5
SMS51	48.5	RD70X1/6"	70	145
SMS63.5	60.5	RD85X1/6"	80	163
SMS76	72.9	RD98X1/6"	80	190
SMS101.6 min	97.6	RD125X1/4"	98	210
SMS101.6 max	97.6	RD132X1/6"	104	210



Threaded end type with manual handle
3A

Dimensions (mm)

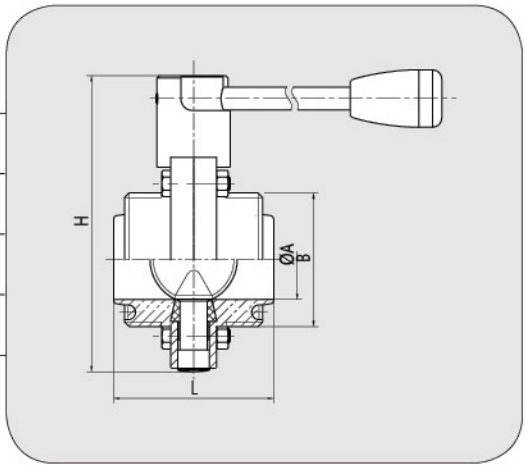
Size	A	B	L	H
1.0"	22.1	37.13x8TPI ACME	66	113.5
1.5"	34.8	50.65x8TPI ACME	68	132.5
2.0"	47.5	64.16x8TPI ACME	70	145
2.5"	60.2	77.67x8TPI ACME	80	163
3.0"	72.9	91.19x8TPI ACME	80	190
4.0"	97.6	119.25x6TPI ACME	98	210

Threaded end type with manual handle

RJT

Dimensions (mm)

Size	A	B	L	H
1.0"	22.1	45.72x8TPI WHIT	66	113.5
1.5"	34.8	58.42x8TPI WHIT	68	132.5
2.0"	47.5	72.72x6TPI WHIT	70	145
2.5"	60.2	85.42x6TPI WHIT	80	163
3.0"	72.9	98.12x6TPI WHIT	80	190
4.0"	97.6	123.52x6TPI WHIT	98	210

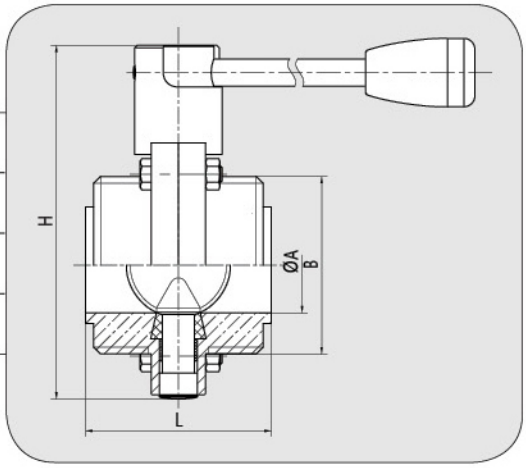


Threaded end type with manual handle

IDF

Dimensions (mm)

Size	A	B	L	H
1.0"	22.1	37.13x8TPI ACME	66	113.5
1.5"	34.8	50.65x8TPI ACME	68	132.5
2.0"	47.5	64.16x8TPI ACME	70	145
2.5"	60.2	77.67x8TPI ACME	80	163
3.0"	72.9	91.19x8TPI ACME	80	190
4.0"	97.6	125.9x6TPI ACME	98	210



Three-piece type with manual handle

DIN

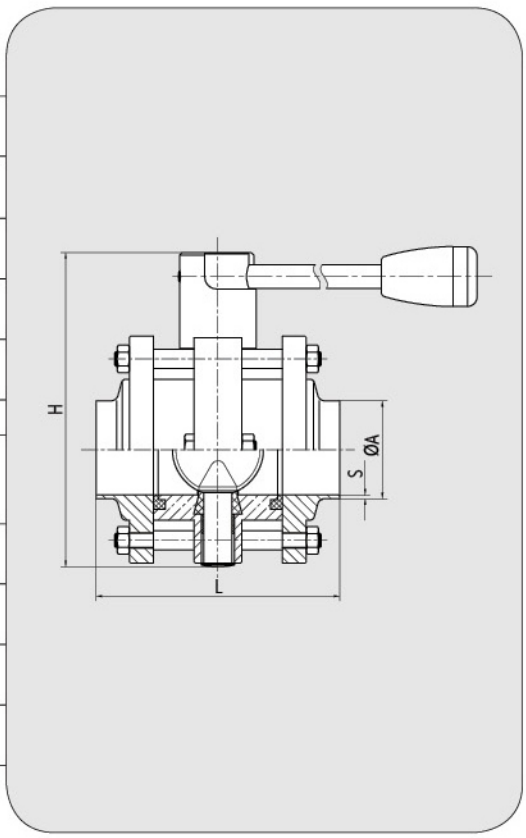
Dimensions (mm)

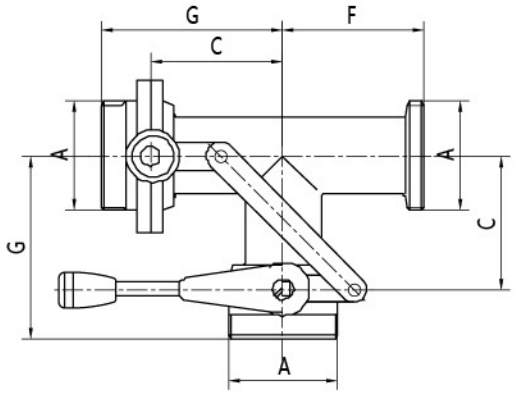
DN	S	A		L	H
		1	2		
DN25	1.5	28	29	100	113.5
DN32	1.5	34	35	100	123.5
DN40	1.5	40	41	100	132.5
DN50	1.5	52	53	110	145
DN65	2	70		114	163
DN80	2	85		130	190
DN100	2	104		135	210
DN125	2	129		160	239
DN150	2	154		180	288

Inch

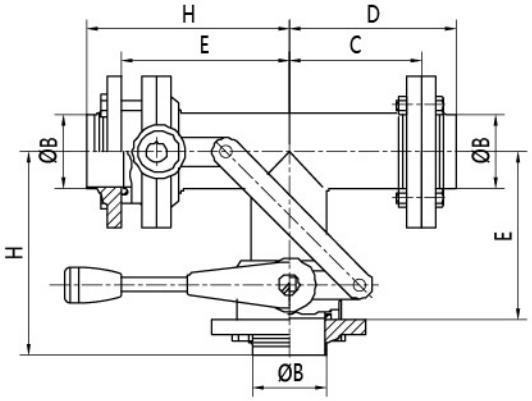
Dimensions (mm)

Size	S	A	L	H
1"	1.65	25.4	100	113.5
1.5"	1.65	38.1	100	132.5
2"	1.65	50.8	110	145
2.5"	1.65	63.5	114	163
3"	1.65	76.2	130	190
4"	2.11	101.6	135	210

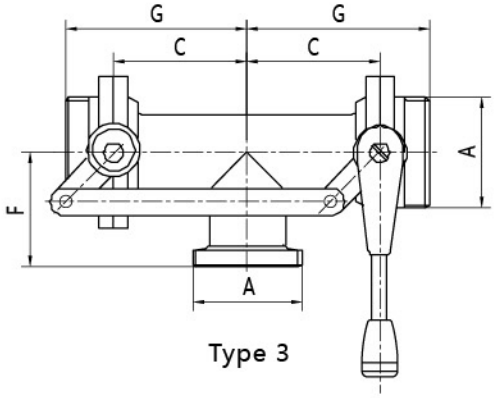




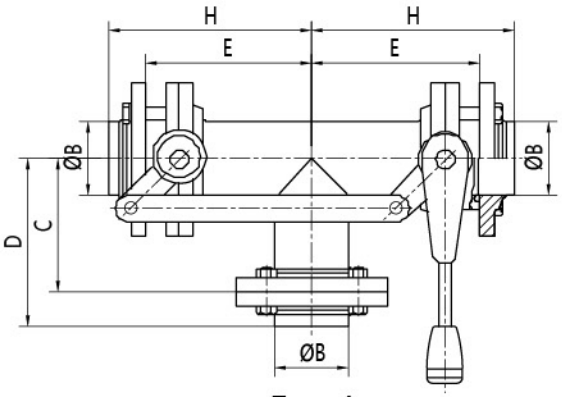
Type 1



Type 2



Type 3



Type 4

Three-way type with manual handle/pneumatic actuator

DIN

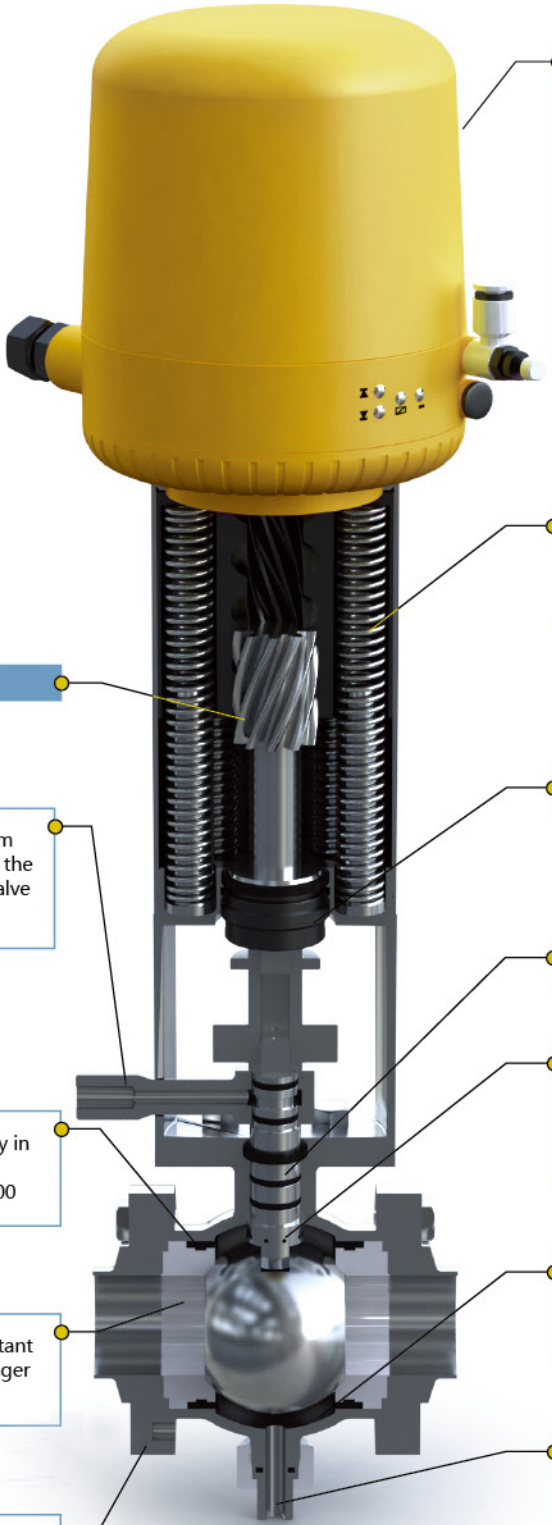
Dimensions (mm)

DN	A	B	C	D	E	F	G	H
DN20	RD44X1/6"	22/23X1.5	62	84	90	59	95	112
DN25	RD52X1/6"	28/29X1.5	72	94	100	72	106	122
DN32	RD58X1/6"	34/35X1.5	79	103	105	77	112	129
DN40	RD65X1/6"	40/41X1.5	84	108	110	82	118	134
DN50	RD78X1/6"	52/53X1.5	94	118	120	93	129	144
DN65	RD95X1/6"	70X2	105	130	130	105	141	155
DN80	RD110X1/4"	85X2	108	146	157	115	154	174
DN100	RD130X1/4"	100X2	120	160	167	130	169	190

Inch

Dimensions (mm)

Size	A			B	C	D	E	F	G	H
	SMS	3A	RJT							
1"	RD40X1/6"	37.13X8TPI ACME	45.72×8TPI WHIT	25.4X1.65	77	99	99	74	105	121
1.5"	RD60X1/6"	50.65X8TPI ACME	58.42×8TPI WHIT	38.1X1.65	94	118	110	93	118	134
2"	RD70X1/6"	64.16X8TPI ACME	72.72×6TPI WHIT	50.8X1.65	106	130	120	105	130	154
2.5"	RD85X1/6"	77.67X8TPI ACME	85.42×6TPI WHIT	63.5X1.65	130	155	148	132	155	173
3"	RD98X1/6"	99.19X8TPI ACME	98.12×6TPI WHIT	76.2X1.65	138	166	156	137	166	184
4"	RD125X1/4"	119.25X6TPI ACME	123.52×6TPI WHIT	101.6X2.11	180	210	198	180	210	228



Smart controller

We use only the best-of-breed components for the smart controller. It is equipped with relief valve and sealed electronic devices inside. It is applied to actuators with a stroke range of 10-85mm. It maximizes cost performance with modular design. It can perform real-time monitoring of the valve working conditions as well as timely feedback of signals by remote control.

Spring

Multiple springs to strengthen the reliability of actuator

Rotary shaft

Bushing

External CIP, CIP and steam sterilizing is carried out in the valve chamber after the valve is open or closed

Concussion-proof design of valve stem

Valve stem is covered with vent holes, which can perform more thorough cleaning with farther spraying distance

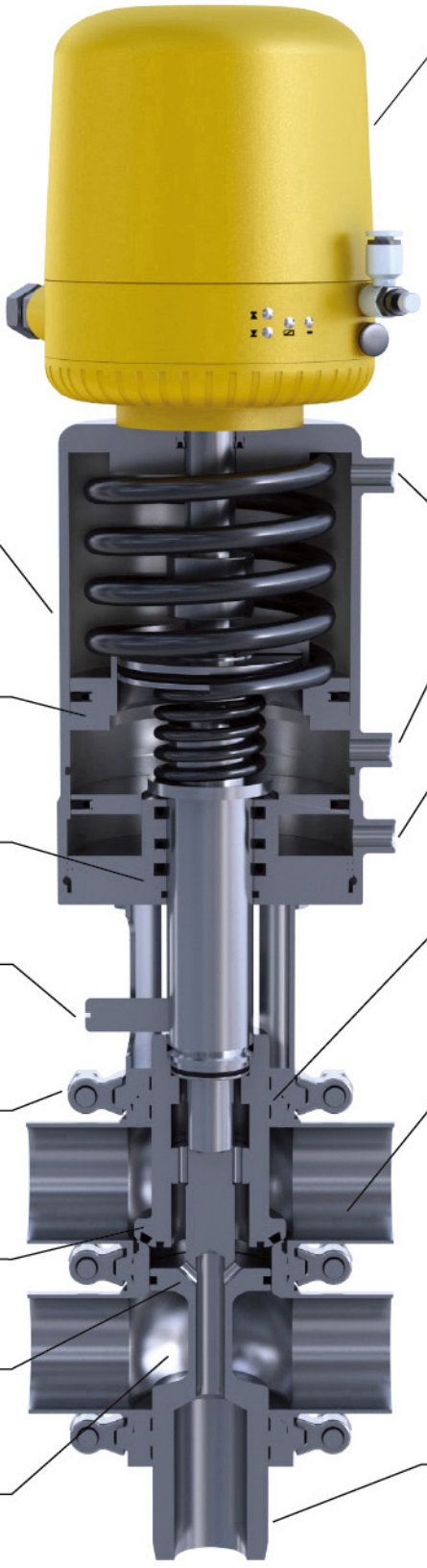
All seal materials directly in contact with products conform to FDA 177.2600

The leaking liquid is drained quickly, avoiding products contamination and mixing

Use the high wear-resistant PTFE valve seat with longer lifetime

External residual fluid recovery system is available, convenient for observing the seal condition of valve

Valve body materials are forged by Aomi and processed by CNC machine



Smart controller

We use only the best-of-breed components for the smart controller. It is equipped with relief valve and sealed electronic devices inside. It is applied to actuators with a stroke range of 10 -85mm. It maximizes cost performance with modular design. It can perform real-time monitoring of the valve working conditions as well as timely feedback of signals by remote control.

Pneumatic actuator (can be removed)

Compressed air connection to control the stroke of lower valve seat

The upper valve seat is closed while the lower valve seat works

Compressed air connection to control main stroke

All the moving parts are fitted with friction resistant bushing

Compressed air connection to control the stroke of upper valve seat

External CIP available for leakage chamber between double-valve seats (optional)

Two seals isolate the product from the outside. The seal that contacts with medium conforms to FDA 177.2600

Clamp connection, convenient for installation and maintenance

The mobility of the valve cavity and seat are optimized to ensure the continuity and high cleaning efficiency of product processing. The combined valve bodies have various structures and more extensive applications.

Valve seat seal, easy to install

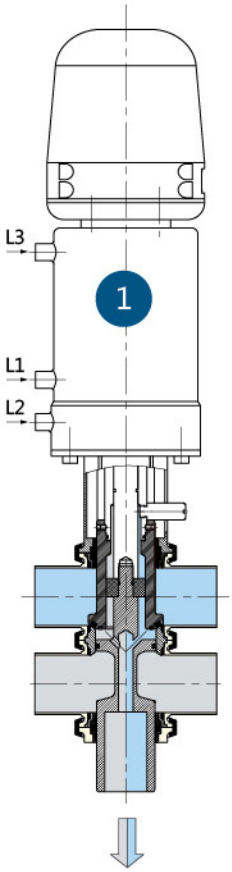
The stroke of lower valve seat can be adjusted

Pressure balance design analysis

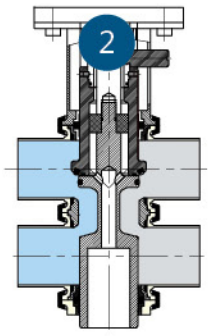
Can increase steam loops on all exposed surfaces for cleaning and steam sterilization

FH6 Seat Lift Type

Basic Functions

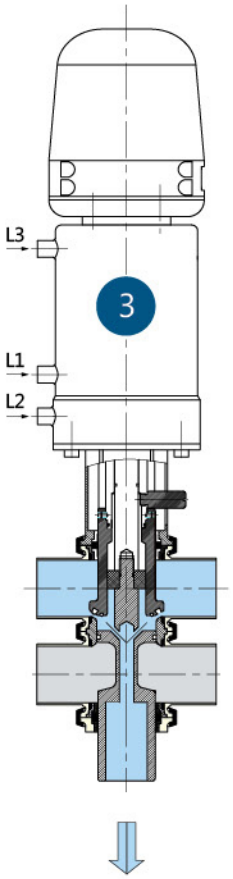


① **Valve Status: "CLOSED"**
- Control air pressure 0 bar on connection L 1 (main stroke)
- Control air pressure 0 bar on connection L 2 (stroke of upper valve seat)
- Control air pressure 0 bar on connection L 3 (stroke of lower valve seat)
- Separation of two different media
- In case of any leakage, the product flows out through the leakage chamber in a state of reducing pressure.

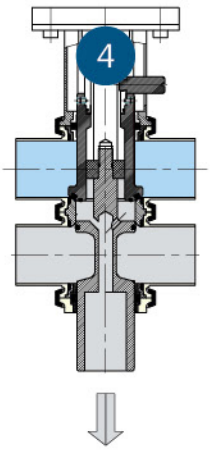


② **Valve Status: "OPEN"**
- Control air pressure 6 bar on connection L 1
- Lower valve body is lifted and the leakage chamber is closed.
- Both valve seats are lifted.
- Top and bottom rail will open.

③ **Cleaning the upper valve housing / valve seat**
- Control air connection 6 bar on connection L 2
- Applicable stroke is set and upper valve seat is lifted during cleaning process.
- Valve seat, valve seals and leakage exhaust pipe are cleaned.

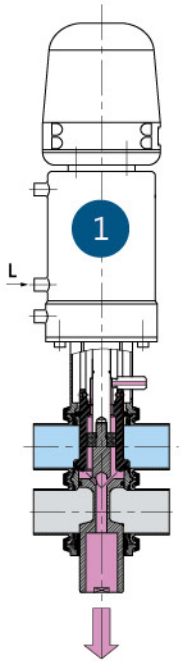


④ **Cleaning the lower valve seat via valve housing**
- Control air pressure 6 bar on connection L 3
- Lower valve seat is lifted during cleaning process.
- Valve seat, valve seals and leakage exhaust pipe are cleaned.



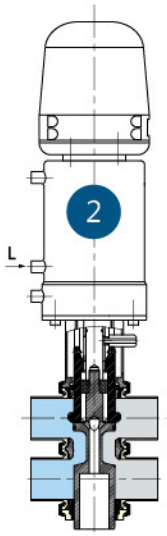
FH8 External CIP Type

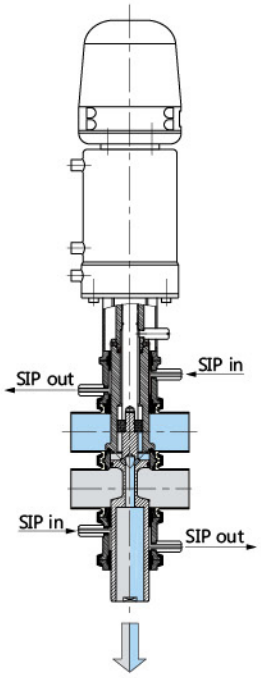
Basic Functions



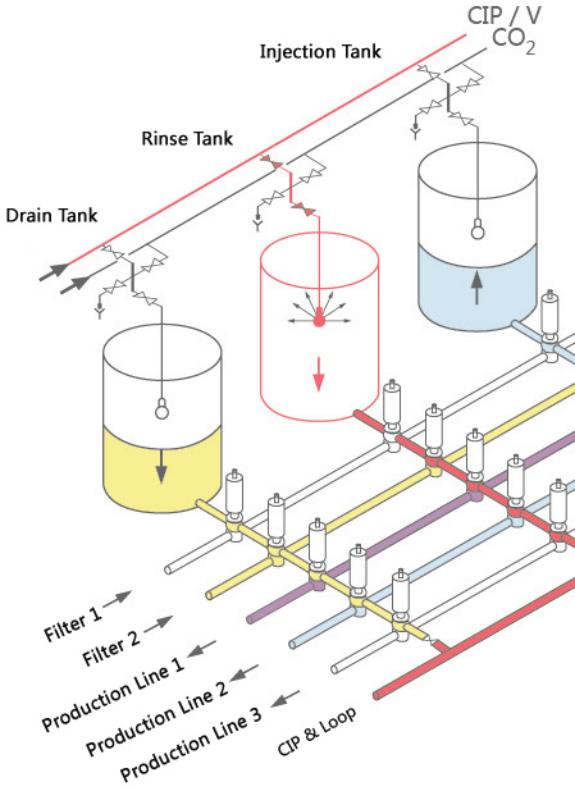
① Valve Status: "CLOSED"
- Control air pressure 0 bar on connection (stroke of upper valve seat)
- Separation of two different media
- In case of any leakage, the product flows out through the leakage chamber in a state of reducing pressure.

② Valve Status: "OPEN"
- Control air pressure 6 bar on connection L (stroke of upper valve seat)
- Lower valve body is lifted and the leakage chamber is closed.
- Both valves are open.
- Top and bottom rail will open.

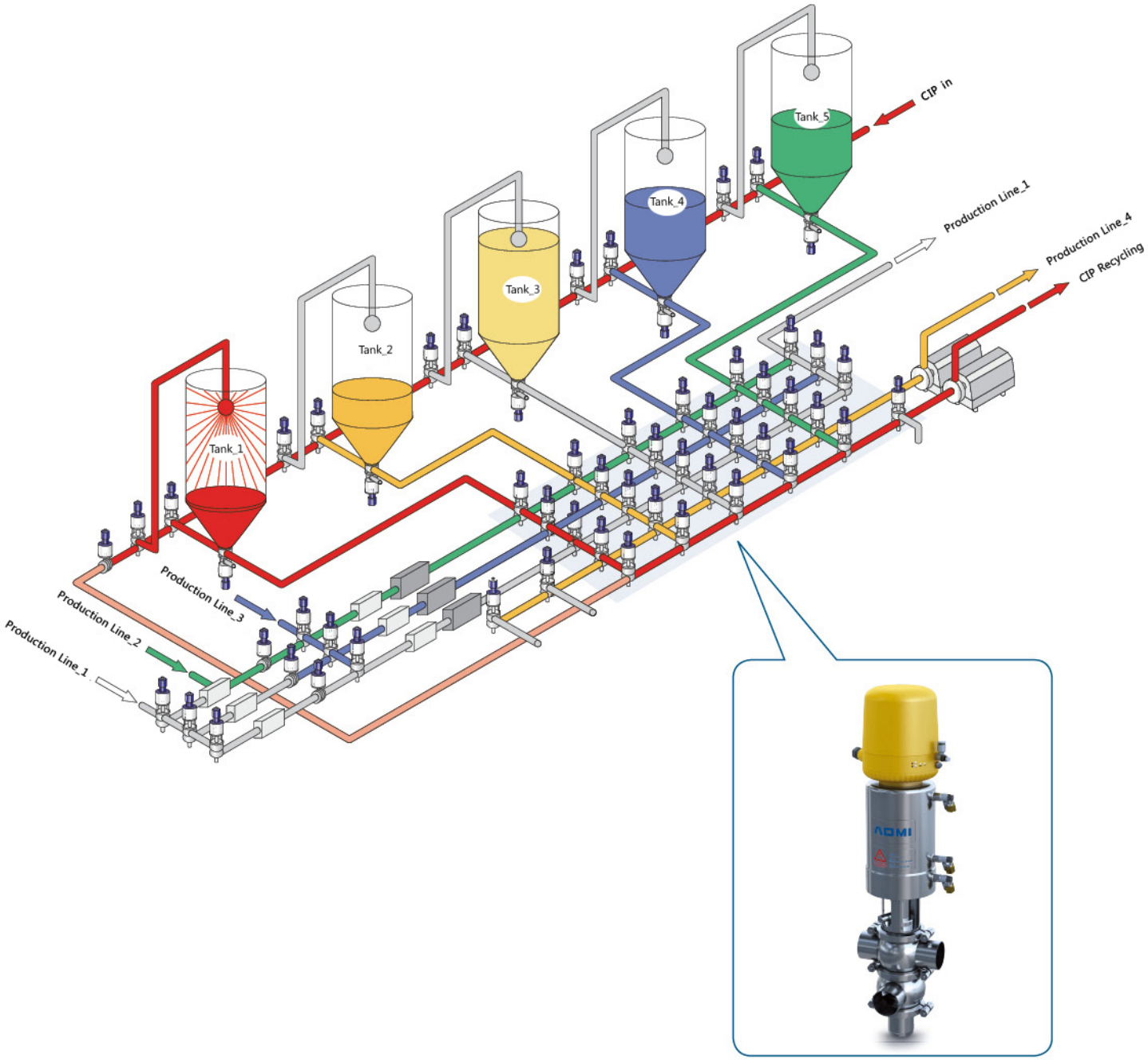


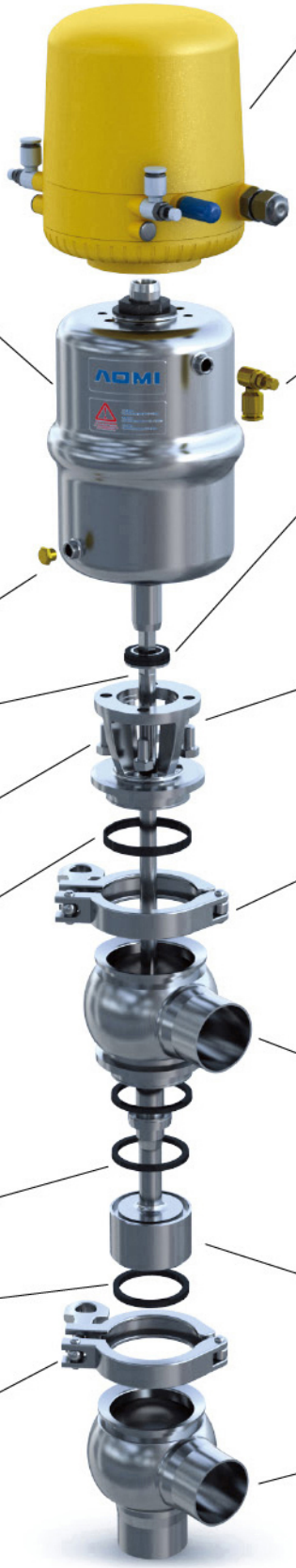


FH6-SP/FH8-SP Double-Seat Valve
In order to meet the high requirement of sanitary fluid industry, SIP sterilization loops are added to FH6/FH8 basic double-seat mix-proof valve and then FH6-SP/FH8-SP double seat valve appears.



Factories with sanitary and aseptic requirements are able to establish automatic multi-channel system by employing Aomi double seat valves. The parallel operation of modern production and cleaning circulation is required for the modernization of production process, in order to achieve maximum plant utilization and economic optimization of certain technical operations. Double seat valve technology ensures that the products or cleaning fluids in all the complicated channels are separated from each other. The following diagram visually shows how to establish an automatic channel system from a series of tank containers to multiple channels by combinations between the upper and lower ports of every valve in the valve matrix.





Smart controller

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Actuator

Adopt long lifetime piston ring, use the high wear-resistant seal material; The inner cylinder wall is processed by CNC machine; Change the actuator installation direction, NC/NO exchange; Can be equipped with ZK3 smart controller or position sensor applicable for stroke synchronization and stroke position feedback.

Gas pipe adapter

Guide sleeve

PEFE self-lubricating guide sleeve has better guiding effect

Muffler

Connecting rod

Stand

The open support structure reduces the heat conduction from valve body to actuator, convenient for sealing inspection

Bolt

Gasket

Product wetted seal materials conform to FDA 177.2600, including EPDM SI, NBR, and VITON

Clamp

The clamp connection is convenient to install and maintain

Upper valve body

The fluid flow optimized valve cavity guarantees more effective processes continuity and cleanliness. The varied valve body structure permits more widespread use in different applications.

Valve stem gasket

Valve stem gasket

Valve stem

Adopt metal braking, enhance the sealing life

Clamp

Lower valve body

* Note: DZ3 sanitary single seat valves with various diameters have the identical actuator installation dimensions. This is convenient for the combination of valve bodies and actuators with various diameters to meet different customers' requirements on valve working pressure.