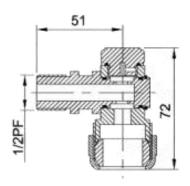
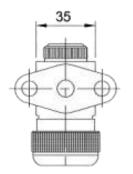
<u>Valves</u>

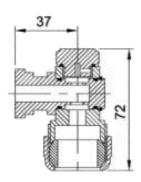
Level Gauge Valve and Samplings Valve

Upper Valves



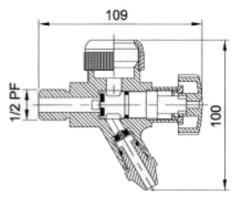


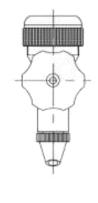




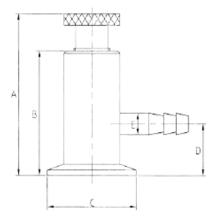
Level Valves





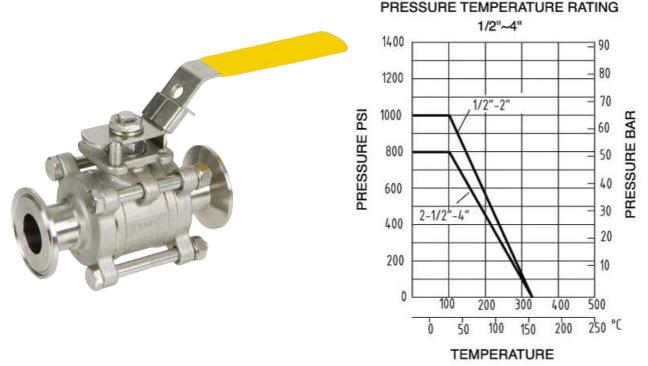






Sampling Valve							
Size	Α	В	С	D	E		
1" / 1.5"	91.5	70	50.5	29	12		

Sanitary Three Piece Body Ball Valve



Method of Operation-

Turning the handle turns the valve ball either parallel or perpendicular to the flow to control or shut off flow. Can be mounted to most commercial actuators due to standard.

Pros and Cons-

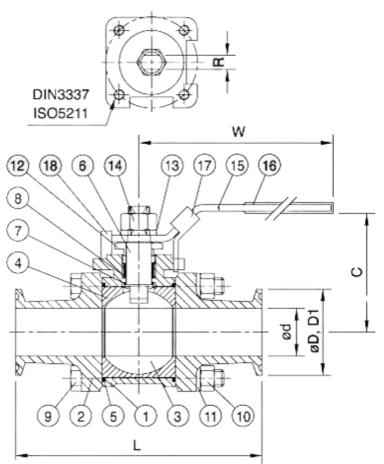
- Highest pressure Sanitary Valve
- Can achieve perfect shut off even after years of disuse
- Can be mounted to most commercial actuators
- When valve is open, no obstruction in valve means no drop in flow pressure
- Hard to clean by CIP systems, have to dismantled
- More expensive than butterfly valves

Size Availability- 0.5" to 4" (if you need a different size, call us to request it)

Material Availability- Body in SS 316L, Gaskets in PTFE

Connection Availability- Weld end, Ferrule End

Pressure to Open Valve- Up to 68 bar, reduces along with size



Comp	Component List							
No.	Part Name	Material						
1	Body	ASTM-A351-CF8M						
2	Cap	ASTM-A351-CF8M						
3	Ball	A351-CF8M						
4	Seat	PTFE						
5	Gasket	PTFE						
6	Stem	316						
7	Thrust Washer	PTFE						
8	Stem Packing	PTFE						
9	Bolt	304						
10	Hex Nut	304						
11	Bolt Washer	304						
12	Gland	304						
13	Washer	304						
14	Nut	304						
15	Handle	304						
16	Plastic Cover	Plastic						
17	Lock Device	304						
18	Stop Pin	304						

Clam	Clamp and Weld End									
Size	DN	ISO5211	С	L	W	Ød	øD	øD1	R	L1
0.5"	15	F03	55	89	132	9.5	25.4	12.7	5	32.75
0.75"	20	F03	60	101	131.5	15.9	25.4	19.05	5	36.5
1"	25	F04	69	114	165	22.2	50.4	25.4	6.5	40
1.5"	40	F05	84	140	194.3	35	50.4	38.1	8.5	43.5
2"	50	F05	92	156	194.3	47.6	63.9	50.8	8.5	45.75
2.5"	65	F07	126.8	197	252	60.3	77.5	63.5	12	56
3"	80	F07	136	229	252	73	90.9	76.2	12	64.5
4"	100	F10	158.8	242.7	333	97.4	118.9	101.6	16	60.6

Butterfly Valve





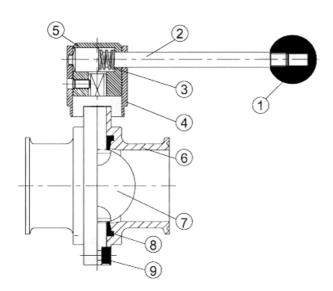
Method of Operation-

Turning the handle turns the disc either parallel or perpendicular or anywhere in between to control the flow.

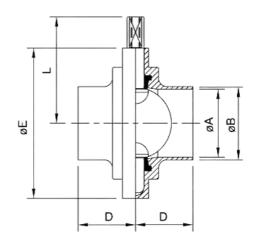
Can be equipped with an Actuator to be controlled by air, spring, or electric.

Pros and Cons-

- Relatively inexpensive
- Few spare parts, easy to repair
- Lower pressure rating compared to ball valve
 Size Availability- 0.5" to 4" (if you need a different size, call us to request it)
 Material Availability- Body in SS 304 or SS 316L, Gasket in EPDM, Silicone, or BUNA
 Connection Availability- Weld end, Ferrule End, other Sanitary Union connections
 Pressure Rating- Up to 9.5 Bar, decreases along with size

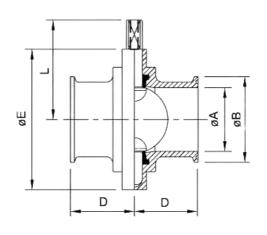


Comp	Components List					
No.	Name					
1	Knob					
2	Steel Bar					
3	Spring ST.ST					
4	ST.ST					
5	Holder					
6	Body					
7	Disc					
8	EPDM Rubber Seat					
9	Screw Bolt					



3A/E	BA/BS/SMS Weld/Weld Butterfly Valves									
Size	øΑ	øΒ	Size	øΑ	øΒ	D	øΕ	L		
0.5"	9.5	12.7	-	-	-	34	79	61		
0.75	15.8	19.50	-	-	-	34	79	61		
1"	22.1	25.4	DN25	22.5	25	34	79	61		
1.5"	34.8	38.1	DN38	35.5	38	38	85	64.3		
2"	47.5	50.8	DN51	48	51	40	105	74.3		
2.5"	60.2	63.5	DN63	60.2	63.5	40	112	77.6		
3"	72.2	76.2	DN76	72.1	76.1	41	125	84.8		
4"	97.6	101.6	DN104	100	104	44	157	101.7		
6"	146.8	152.4	-	-	-	57	214	138.9		

DIN Weld/Weld Butterfly								
Valves								
Size	øΑ	ØΒ	D	øΕ	L			
DN28	25	28	34	79	61			
DN34	31	34	38	85	64.3			
DN40	37	40	38	90	74.3			
DN50	49	52	40	105	77.6			
DN65	66	70	41	125	84.8			
DN85	81	85	42	137	91.6			
DN104	100	104	44	157	101.7			



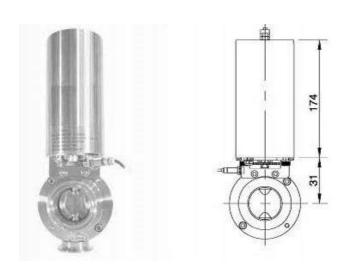
3A Cla	3A Clamp/Clamp Butterfly Valves							
Size	øΑ	ØВ	D	øΕ	L			
0.5"	9.5	25.2	34	79	61			
0.75"	15.8	25.2	34	79	61			
1"	22.1	50.5	33	79	61			
1.5"	34.8	50.5	33	85	64.3			
2"	47.5	64.0	35	105	74.3			
2.5"	60.2	77.5	35	112	77.6			
3"	72.2	91.0	38	125	84.8			
4"	97.6	119.0	38	157	101.7			
6"	146.8	166.8	57	213	138.9			

Butterfly Valve Actuator

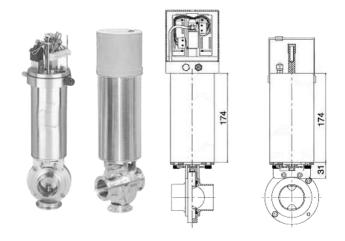
Operation Instructions

- 1) Signal Transfer:
 - a) 10-30VDC proximity switch 1 or 2 pcs (PNP or NPN),
 - b) or 3A 125 VAC, 30 VDC micro switch 2 pcs
- Air/Air (double effect) actuator or Air/Spring (single effect).

	C2	C3
Shut Off Time (seconds)	1.5	1.5
Weight (kg)	3.85	3.85
Operating Air Pressure 6Kg/cm ²	5-9 bar	5-9 bar
Air Consumption at 5 bar	0.266	0.266
	liters	liters
Material	SS 304	SS 304
Equipped with Actuator	Yes	No
Control Box		
Max Output Torque (N/M)	20	20

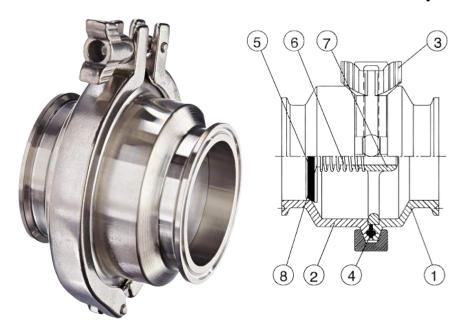






C3 with control box

.Non-Return Valve / Check Valve



Components List					
No	Name				
1	Short Body				
2	Long Body				
3	Clamp				
4	13 PG				
5	Seal Ring				
6	ST.ST Spring				
7	Flow Support Plate				
8	Disc				

The sanitary check valve contains a stainless steel body which houses a disc supported by a spring. When enough pressure is applied, the disc opens and allows product to flow through.

Method of Operation-

Works automatically when enough flow pressure pushes the disc so that the product flows through.

When pressure is not high enough, the disc remains pushed shut so that product does not flow through.

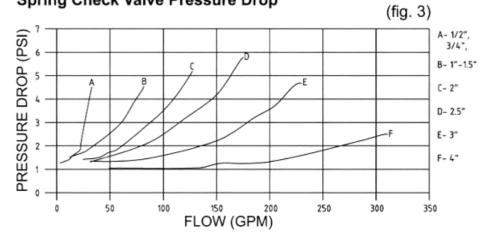
Pros and Cons-

- Relatively small automatically operating valve body helps save space in tight pipe line situations
- Spare parts are few and replaceable
- A minimal pressure drop in pipe line flow due to disc always staying in the path of the flow

Size Availability- 0.5" to 4" (if you need a different size, call us to request it)
Material Availability- Body in SS 316, Gaskets in EPDM
Connection Availability- Weld end, Ferrule End
Pressure to Open Valve- 0.5 psi to 3 psi depending on size

Pressure required for opening the valve fitted in a vertical pipe, max pressure is 10 bar

Spring Check Valve Pressure Drop



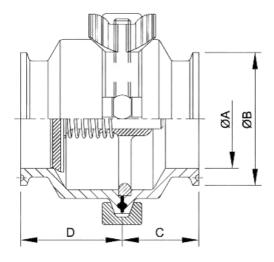
Note:

For the diagram the following applies:

Medium: Water(20°C)

Opening Pressure (PSI)

0.5"	0.75"	1"	1.5"	2"	2.5"	3"	4"
0.5	0.5	3	1.6	0.6	1.3	0.8	0.9



Check Valve with Ferrule Ends								
3A	øΑ	øΒ	DIN	øΑ	øΒ			
0.5"	9.5	25.2	-	-	-			
0.75	15.8	25.2	-	-	-			
1"	22.1	50.5	DN25	25	50.5			
1.5"	34.8	50.5	DN32	31	50.5			
2"	47.5	64	DN40	37	64			
2.5"	60.2	77.5	DN50	49	77.5			
3"	72.9	91	DN65	66	91			
4"	97.6	119	DN100	100	119			

Pressure Relief Valve



The sanitary pressure relief valve contains a disc supported by springs, when enough pressure is applied, the disc opens to allow unwanted pressure to flow through.

Method of Operation-

Works automatically when enough pressure pushes valve disc to release pipeline air pressure.

Size Availability- 1"-2.5"

Material Availability- Body in SS 304 and SS 316L

Connection Availability- Weld End and Ferrule End

Vacuum Relief Valve



The sanitary vacuum relief valve contains a disc supported by springs, when enough pressure is applied, the disc opens to allow unwanted pipe line air to flow through.

Method of Operation-

Works automatically when enough pressure pushes valve disc to release pipeline air pressure.

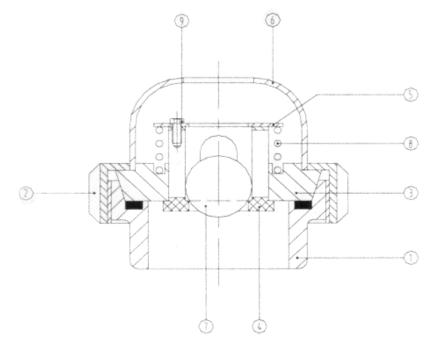
Similarly, when there is enough vacuum pressure present, the disc is pushed in the opposite direction to relief pipe line vacuum pressure.

Size Availability- 2.5" (if you need a different size, call us to request it)

Material Availability- Body in SS 304 and SS 316L

Connection Availability- Weld end

Pressure to Open Valve- 0.02 bar Opening Pressure or 0.01 bar Vacuum Pressure



Comp	Components List							
No.	Qty	Item Name	Material					
1	1	Male Part	AISI 304L					
2	1	Nut	AISI 304L					
3	1	Taper Blank	AISI 304L					
4	1	Locking Device	PTFE					
5	1	Upper Disc	AISI 304					
6	1	Сар	AISI 304					
7	1	Ball	AISI 304					
8	1	Vacuum	AISI 304					
		Spring						
9	2	Screw 3Max8	AISI 304					

Three Way Plug Valve



Method of Operation-

Turn the handle rotates the conical plug inside the valve to divert and shut off flow.

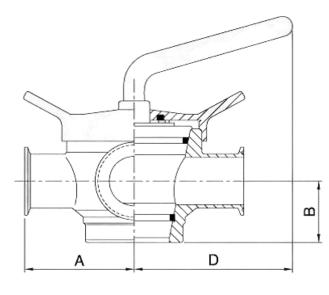
The only Sanitary Valve to achieve shut off and divert flow at the same time.

Size Availability- 0.5" to 4" (*if you need a different size, call us to request it*)

Material Availability- Body in SS 304 or SS 316L, Gasket in EPDM or BUNA

Connection Availability- Weld end, Ferrule End, other Sanitary Union connections

Pressure Rating- Up to 1.7 bar, decreases along with size



2/3 Way Plug Valve for Weld/Male/Clamp Ends						
Size	•	•	Clamp	В	D	
(OD)	Α	Α	Α			
DN25/1"	66.3	95.3	94.9	26	139.19	
DN40/1.5"	85.1	118.1	113.7	35	139.19	
DN50/2"	114.2	149.2	142.8	45	143.01	
DN65/2.5"	132	172	160.6	55	143.69	
DN80/3"	168.6	213.6	197.2	70	143.81	
DN100/4"	206.3	260.3	234.9	75	174.21	

NKE FLOW COMPONENTS SUPPLY SDN BHD

Sight Glass

Size Availability- 1" to 4" (*if you need a different size, call us to request it*)

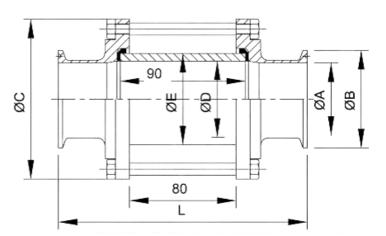
Material Availability- SS 316L body houses a Borosilicate Glass Tube

Connection Availability- Weld end, Ferrule End

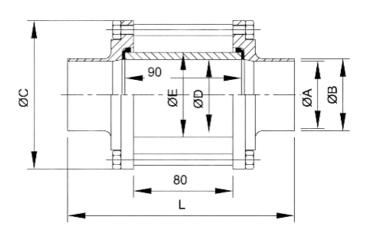
Pressure Rating- 10 bar







Clamp End Sight Glass						
Size	øΑ	øΒ	øC	øD	øΕ	L
1"	22.1	50.5	79	26	32	143
1.5"	34.8	50.5	85	34	40	146
2"	47.5	64	105	50	60	150
2.5"	60.2	77.5	112	65	75	150
3"	72.9	91	125	75.4	85	156
4"	97.6	119	157	100	110	156



Weld End Sight Glass						
Size	øΑ	øΒ	øC	øD	øΕ	L
DN25	22.5	25	79	26	32	148
DN38	35.4	38	85	34	40	156
DN51	48	51	105	50	60	160
DN63.5	602	63.5	112	65	75	160
DN76	72	76	125	75.4	85	162
DN104	100	104	157	100	110	168

Tank Sight Glass

Method of operation -

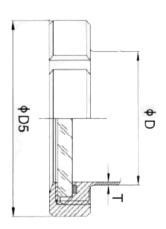
Installed by welding on a tank, it provides a means of viewing the insides.

Commonly used to observe liquid levels and contents of a tank.

Material Availability- Body comes in SS 304 and SS 316L, gaskets in EPDM, Teflon, Silicone.

Pressure Rating – 3 to 10 bar







SMS Union Sight Glass					
Size	øD	øD5	øΤ		
1"	25.4	51	1.25		
1.5"	38.1	74	1.25		
2"	50.8	84	1.25		
2.5"	63.5	100	1.5		
3"	76.1	114	1.5		
4"	101.6	138	2		