



### Brief Description

Ball check valves are often very small, simple, and cheap. They are commonly used in liquid or gel mini pump dispenser spigots, spray devices, some rubber bulbs for pumping air, etc., manual air pumps and some other pumps, and refillable dispensing syringes. Although the balls are most often made of metal, they can be made of other materials.

PN : 1.0 ~ 1.6MPa

DN : 50 ~ 1000mm

Medium : water

Temperature : 0 ~ 80 °C

Flange drill : DIN

### Dimension

DN (mm)	50	65	80	100	125	150	200	250	300	350
L	203	216	241	292	330	356	495	622	698	781
H	180	210	225	245	280	320	380	450	470	500
H1							510	570	640	715



### Brief Description

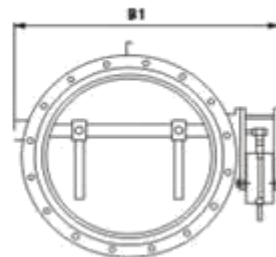
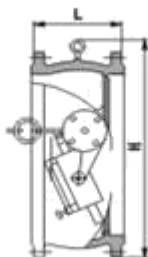
The product has novel structure, small size, and fluid resistance small, smooth operation, reliable sealing, wear resistance, cushioning performance and good features, is the best industrial water and sewage products.

The valve used for industrial water supply buffer, sewage treatment plants, pump outlet to prevent the pipe network upstream.

Technical Parameters					
Part	Body	Butterfly	Seal-ring	Stem	Packing
Material	Casting pig	Cast Iron, Ductile Iron	Oil- resisting chemigum, chloroprene rubber	Stainless steel	PTFE

**PRODUCT - CHECK VALVE**

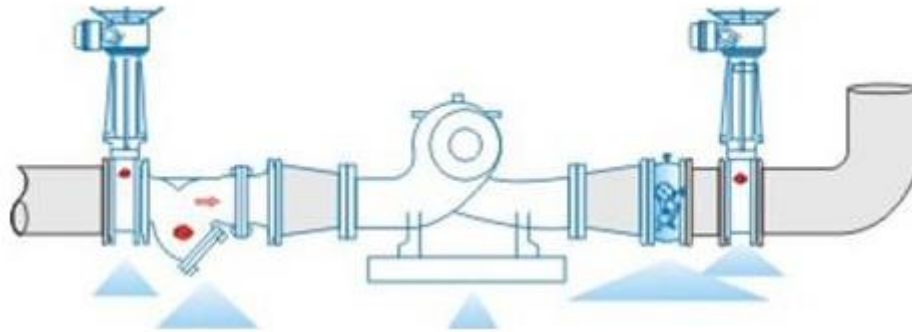
**Butterfly Buffer Check Valves**



Materials						
Model	PN(MPa)	Test pressure (MPa)		Working pressure	Medium temperature	Suitable medium
		Casing	Seal			
H47X,H47H,HH47X, HH47XF, HH47H, HDH47X	1	1.5	1.1	1	≤80 °C	Water, oil good, sea water, sludge
	1.6	2.4	1.75	1.6		
	2.5	3.75	2.75	2.5		

Dimensions							
DN	Dimension (mm)						
mm	L	D	D1	D2	H	B1	B2
200	230	360	310	278	550	540	600
250	250	425	370	332	630	600	700
300	270	485	430	390	690	650	740
350	290	550	490	448	780	710	800
400	310	610	550	505	860	770	870
450	330	660	600	555	910	830	920
500	350	730	660	610	980	900	1000
600	390	840	770	718	1070	1090	1250
700	430	955	875	815	1220	1200	1360
800	470	1070	990	930	1320	1320	1480
900	510	1180	1090	1025	1430	1420	1580
1000	550	1350	1210	1140	1550	1550	1700
1200	630	1525	1420	1350	1800	1780	1950
1400	710	1750	1640	1560	1980	2000	2175

**Typical Installation**





#### Brief introduction :

Widely used for water supply pipe network of high-rise buildings, a certain medium of a corrosive and restricted installation space as well as sewer network.

#### Features:

- The valve seat is designed to multi term narrow bands and vulcanized on valve body by complete seal with no leak.
- Structure of butterfly dual plate check valve is safe and reliable with high external force and low trash rack loss.
- Such kind of valve structure installed conveniently with short length and good rigidity.

#### Main part & material

Body: gray cast iron, carbon steel

Disc: stainless steel

Spring: Stainless steel

Seat: Stainless steel, NBR

Stem: Stainless steel

#### Technical Specification

- Nominal diameter : 50 ~ 60 0 mm

- Nominal pressure : 1.0~2.5 Mpa

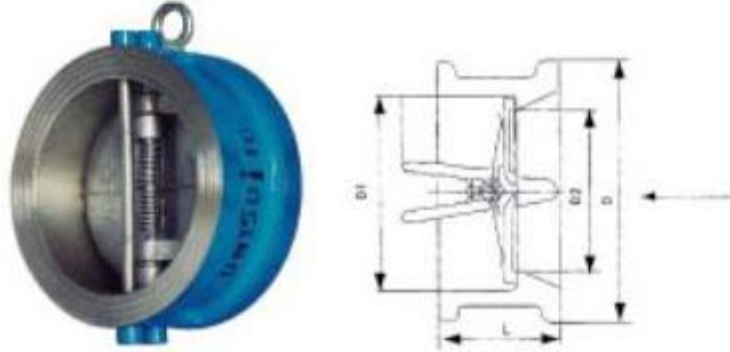
-Medium: freshwater, sewage, seawater, salt, alkali, acid, leechdom, steam, oil, food, etc.

-Work temperature: 0~80 °C

**PRODUCT - CHECK VALVE**

**Dual Plate Check Valve**

**Main external and connection dimension**



DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Hard seal	60	67	73	73	83	98	127	146	181	184	198	203	219	222
rubber seal	43	46	64	64	70	76	89	114	114	127	140	152	152	178
D1	65	78	91	117	114	171	222	276	327	377	426	475	520	620
D2	48	57	70	91	113	135	176	222	270	320	365	420	475	570
1.0Mpa	105	124	137	162.5	192.5	218	273	328	378	438	482	532	590	690
1.6/2.5MPa	105	124	137	162.5	192.5	218	273	329	384	444	482	550	590	690



#### **Brief introduction :**

Sliding ball type check valves disc is a ball coated with rubber and dependent on the line pressure .The ball can slide up and down in the integrated chute in the body to open or close the valves without any noise and water-hammering and good sealing capability. The bore is full without any block so the flow rate is much with little resisting force and little pressure loss and water-head loss is 50% of swing check valves. It can be installed vertically or horizontally and widely used in cold water's, hot water's, industry's and sewage's pipeline and it is more for sewage submersible pump.

#### **Mail part & material**

Body: Cast iron, ductile cast iron

Bonnet: Cast iron, ductile cast iron

Ball: cast iron coated with rubber

#### **Technical Specification**

Nominal pressure: 1.0-1.6MPa

Nominal diameter: 50-350mm

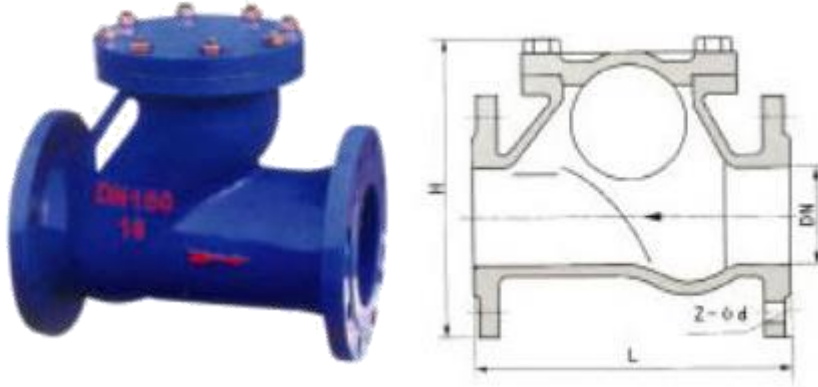
Medium: water and weak corrosive fluid

Working temperature: 0-80°C

Flanged end: GB/T17241.6 GB9113

Inspection and test: GB/T 13927 API 598

**Main external and connection dimension**



DN	50	65	80	100	125	150	200	250	300	350
L	180	200	260	300	350	400	500	600	700	800
H	185	210	245	280	335	400	495	600	715	820



**Brief introduction :**

Forged steel check valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304/graphite Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available. The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint. The check valve is also available in three different design configurations. These are piston check, ball check, or swing check designs.

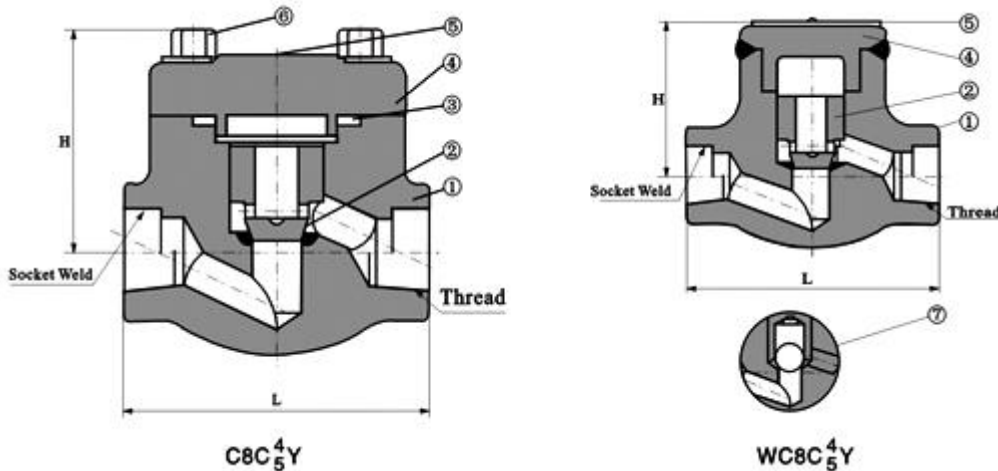
**Technical Specification**

- ❖ Globe valves conform to API 602, and ASME B 16.34 ✕ each are tested according to API 598, and marking is per MSS SP-25
- ❖ Full Port or Conventional Port ✕ Outside Screw and Yoke(OS & Y) ✕ Two piece self-aligning packing gland
- ❖ Bolted bonnet with spiral wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet
- ❖ Integral backseat
- ❖ Socket weld ends to ASME B16.11
- ❖ Screwed Ends (NPT) to ANSI/ASME B1.20.1

**PRODUCT - CHECK VALVE**

**Forged Steel Check Valve**

**Main external and connection dimension**



**Standard Material Specification**

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Piston Disc	A276 410	A276 304	A276 304(L)	A276 316(L)
3	Gasket	Corrugated SS+ graphite		SS+PTFE	
4	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
5	Nameplate	SS			
6	Bolt	A193 B7	A193 B16	A193 B8M	A193 B8M
7	Ball	A182 F304	A182 F304	A182 F304	A182 F304
Suitable Medium		Water, oil, gas etc.,		Water, oil, gas etc.,	HNO 3 ,CH 3 OOH etc
Suitable Temperature		-29 °C ~425 °C		-29 °C ~550 °C	-29 °C ~180 °C

**PRODUCT - CHECK VALVE**

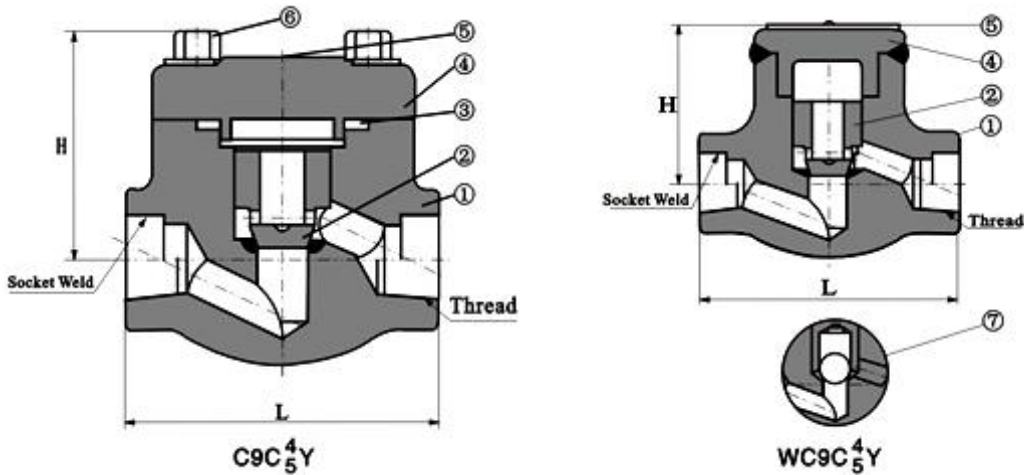
**Forged Steel Check Valve**

**Dimension (mm) and Weight (Kg)**

NPS	Conv.	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
	Full		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L		79	79	92	111	120	152	172	200
H		61	61	65	79	95	103	118	132
Weight	Bolted	1.4	1.2	1.5	3.1	3.9	5.6	8.9	12.5
	Welded	1.1	1	1.2	2.9	3.3	4.9	8.1	10.9

Note: Other materials are available upon request. CS=Carbon Steel; AS=S=Alloy Steel; SS=Stainless Steel;

**Piston Check Valve 900Lb~1500Lb**



**Standard Material Specification**

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Piston Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Gasket	Corrugated SS+ graphite		SS+PTFE	
4	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
5	Nameplate	SS			
6	Bolt	A193 B7	A193 B16	A193 B8M	A193 B8M
7	Ball	A182 F304	A182 F304	A182 F304	A182 F304
Suitable Medium		Water, oil, gas etc.,		Water, oil, gas etc.,	HNO 3 ,CH 3 OOH etc
Suitable Temperature		-29 °C ~ 425 °C		-29 °C ~ 550 °C	-29 °C ~ 180 °C

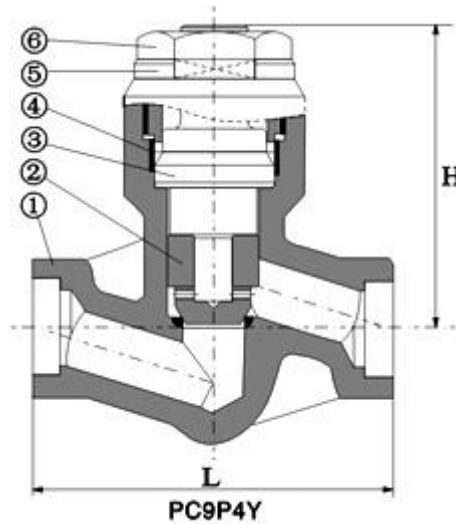
**PRODUCT - CHECK VALVE**

**Forged Steel Check Valve**

**Dimension (mm) and Weight (Kg)**

NPS	Conv.	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
	Full		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
<b>L</b>		92	111	111	120	152	172	200	220
<b>H</b>		65	79	79	97	104	120	139	215
<b>Weight</b>	<b>Bolted</b>	1.6	3.4	3.3	5.5	6.0	9.2	12.9	16.2
	<b>Welded</b>	1.3	3.2	3.1	4.8	5.4	8.5	11.2	14.3

**Pressure-seal Piston Check Valve 900Lb ~ 2500Lb**



**Standard Material Specification**

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Lift Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Sealing Seat	A105	F22	A182 F304(L)	F316(L)
4	Pressure Ring	08F	08F	A276 304L	A276 316L
5	Retaining Nut	A194 2H	A194 4	A194 8	A194 8M
6	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
<b>Suitable Medium</b>		Water, oil, gas etc.,	Water, oil, gas etc.,	HNO 3 ,CH 3 OOH etc.	
<b>Suitable Temperature</b>		-29 °C ~ 425 °C	-29 °C ~ 550 °C	-29 °C ~ 180 °C	

**PRODUCT - CHECK VALVE**

**Forged Steel Check Valve**

**Dimension (mm) and Weight (Kg)**

NPS		1/2"	1/4"	1"	1 1/4"	1 1/2"	2"
L	900Lb~1500Lb	140	140	140	178	178	216
	2500Lb	186	186	186	232	232	279
H		117	117	117	152	152	195
Weight	900Lb~1500Lb	7.5	7	6.8	18.5	18.1	20.3
	2500Lb	9	7.6	8.4	19.5	20.1	21.8

**Swing Check Valve 800Lb, 900Lb~1500Lb**

**Standard Material Specification**

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A276 410	A276 304	A276 304(L)	A276 316(L)
3	Swing Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
4	Nut	A194 2H	A194 4	A194 8	A194 8M
5	Hinge	A105	A182 F22	A182 F304L	A182 F316(L)
6	Gasket	Corrugated SS+ Graphite		SS+PTFE	
7	Bonnet	A105	A182 F22	A182 F304L	A182 F316(L)
8	Bolt	A193 B7	A193 B16	A193 B8M	A193 B8M
9	Pin	A276 420		A182 F304	A182 F316
Suitable Medium		Water, oil, gas etc.,	Water, oil, gas etc.,	HNO 3 ,CH 3 OOH etc	
Suitable Temperature		-29 °C ~425 °C	-29 °C ~550 °C	-29 °C ~180 °C	

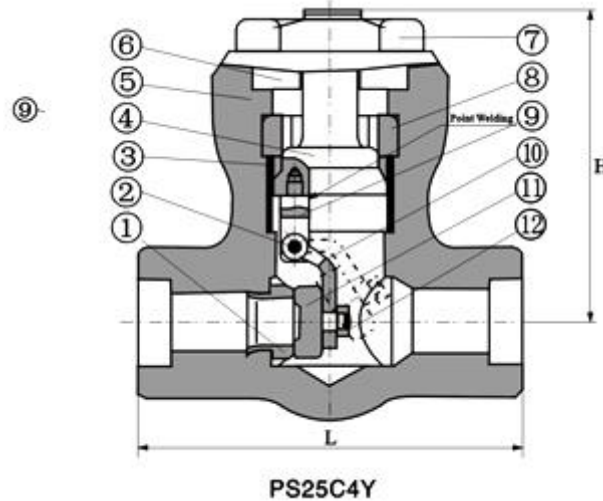
**Dimension (mm) and Weight (Kg)**

NPS		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	800Lb	79	79	92	111	120	120	140
	900Lb~1500Lb	92	111	111	120	120	140	178
H	800Lb	61	61	78	84	101	120	133
	900Lb~1500Lb	79	79	79	97	105	120	140
Weight	800Lb	1.1	1	1.9	3.9	4.5	7.3	10
	900Lb~1500Lb	3.1	3	3.6	4.3	6.1	8.8	12.6

**PRODUCT - CHECK VALVE**

**Forged Steel Check Valve**

**Pressure-seal Swing Check Valve 900Lb~2500Lb**



**Standard Material Specification**

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Seat Ring	A276 410	A276 304	A276 304(L)	A276 316(L)
2	Pin	A276 420		A182 F304	A182 F3 16
3	Pressure Ring	A276 304L			A276 316(L)
4	Pressure Seat	A105	A182 F304	A182 F304(L)	A182 316(L)
5	Body	A105	A182 F22	A182 F304(L)	A182 316(L)
6	Bonnet	A105	A182 F22	A182 F304 L	A182 316(L)
7	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
8	Quarter Ring	A276 420	A182 F304		A182 F316
9	Pont levis	A105	A182 F22	A182 F304 L	A182 F316(L)
10	Hinge	A105	A182 F22	A182 F304 L	A182 F316(L)
11	Disc	A276 A420	F304	A182 F304(L)	F316(L)
12	Nut	A194 2H	A194 4	A194 8	A194 8M
<b>Suitable Medium</b>		Water, oil, gas etc.,	Water, oil, gas etc.,	HNO 3 ,CH 3 OOH etc	
<b>Temperature</b>		-29 °C ~425 °C	-29 °C ~550 °C	-29 °C ~180 °C	



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**PRODUCT - CHECK VALVE**

**Forged Steel Check Valve**

**Dimension (mm) and Weight (Kg)**

NPS		1/2"	1/4"	1"	1 1/4"	1 1/2"	2"
L	900Lb~1500Lb	140	140	140	178	178	216
	2500Lb	186	186	186	232	232	279
H		117	117	117	152	152	195
Weight	900Lb~1500Lb	8.2	7.8	7.7	19.8	19.2	21.3
	2500Lb	10	9.6	9.4	21.5	21.1	22.8



### **Brief Description**

Design Standards GB, ANSI, AWWA, DIN

Nominal Diameter DN300-3600mm (12" -144")

Nominal Pressure PN6-PN25 (86LB-300LB)

Material Specification Cast iron, ductile iron, carbon steel, stainless steel

Sealing Rubber, stainless steel

Operating Type Full hydraulic control, counter-weight pressure retaining, counter-weight locking

Temperature Range – 29 °C until + 425 °C





**Description**

Lift check valves are suitable for installation in horizontal or vertical lines with upward flow. They are recommended for use with steam, air, gas, water, and on vapor lines with high flow velocities.

**Dimension**

PN(MPa)	DN(mm)	L	D0	D1
16/20	25	180	22	42
	32	200	29	54
	40	230	36	60
	50	260	45	73
	65	290	58	89
	80	340	72	108
	100	400	90	133
	125	550	115	159
	150	600	135	192
25/40	25	180	22	42
	32	200	29	56
	40	230	36	64
	50	260	45	76
	65	290	58	89
	80	340	72	114
	100	400	90	146
	125	550	115	159
	150	600	135	195



#### Brief Description

Foot valve is a kind of energy-saving valve, usually installed at the bottom of pump suction pipe to prevent medium in the pipe flow back to water source. There are many inlet holes and reinforcing ribs in the valve cover, so the pipe will not be easily clogged up.



**Description:**

With its optimum designed aerodynamic flow path through the valve, the valve produces very low pressure losses. The axial design allows for a streamlined flow path around the disc and high pressure recovery, minimizing pressure drop across the valve. This highly efficient design combined with the highly responsive non-slam operation make this valve ideally suited to demanding check valve applications.

**Features:**

- Non-slam closure
- Low pressure loss
- Very short face-to-face length
- Very low weight
- Maintenance free



#### **Brief introduction :**

Rubber disc check valves consist of body, cover and rubber disc. Inside of the rubber disc is steel plate, steel bar and reinforced nylon liner and the outside is rubber and the disc life is more than one million open-close cycles. The valves is designed with unimpeded bore, so the pressure loss is very little and no sundries pile up in the body and it is easy to maintain this kind of valves. The valves is used for feeding system and installed at the outlet of the pump to prevent the fluid flowing backward and water hammering. Also it can be installed at the inlet of inlet/outlet's bypass pipe to prevent the water in the cistern flowing backward into the pipe.

#### **Main part & material**

Body: gray cast iron, ductile cast iron

Disc: steel plate+ nylon + NBR

Bonnet: gray cast iron, ductile cast iron

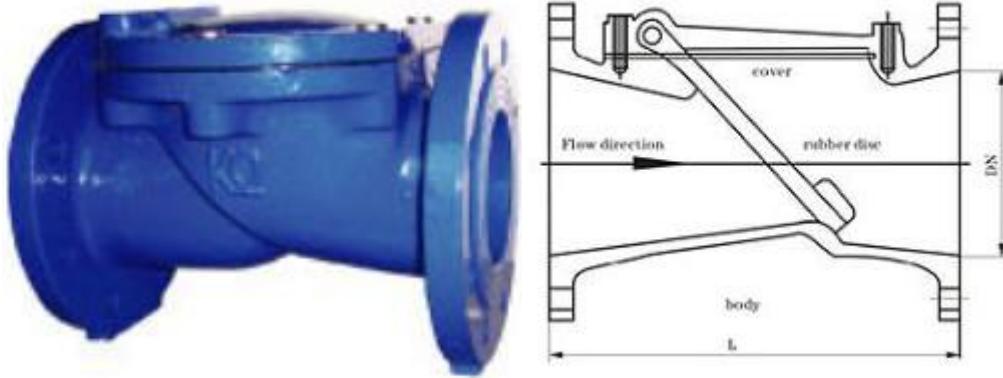
#### **Technical Specification**

-Nominal diameter : 50~600mm

-Nominal pressure : 1.0~1.6Mpa-Medium: water and weak corrosive fluid, etc.

-Work temperature: 0~80°C

**Main external and connection dimension**



<b>DN</b>	50	65	80	100	150	200	250	300	350	400	450	500	600
<b>L</b>	203	216	241	292	356	495	622	698	787	914	978	978	1295



**Brief Description**

Rubber Flapper Swing Check Valve, Oil Control Bottom Buffer is a safety device mounted in the pipeline or pump outlet to prevent the pump from inversed running due to the water hammer’s shock produced in the side-flow of the medium when the pump stops. And it features by the light flap, big opening, notable power saving, small fluid resistance, new-style of water hammer removal mechanism’s design, stable and reliable seal performance, wearable, long duration, stable running, without vibration and noise etc.

Suitable for the pipeline related to the systems of water supply and drainage, fire-fighting, warming etc. or the pump outlet to prevent both pump and pipeline from being damaged due to the water hammer produced in medium’s back-flow.

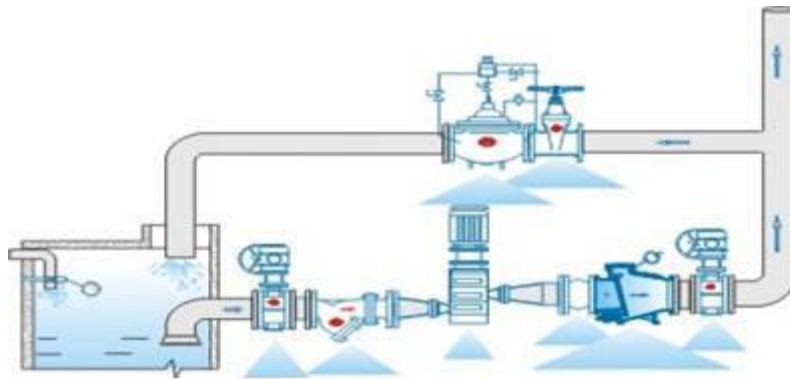
Technical Parameters				
PN(MPa)		1	1.6	2.5
Test pressure	Shell strength	1.5	2.4	3.75
(MPa)	Sealing performance	1.1	1.76	2.75
Working temperature		≤80 °C		
Applicable medium		Rinsing Dead oil		

**PRODUCT - CHECK VALVE**
**Rubber Flapper Swing Check Valves**

<b>Materials</b>			
<b>Name of parts</b>	Body、 Bonnet	Seat	Valve shaft
<b>Material</b>	Casting Iron, Ductile iron	Rubber assembly	Stainless steel

<b>Dimensions</b>								
<b>DN</b>	<b>ENHH44X/T/H-10</b>							
<b>mm</b>	<b>L</b>	<b>D</b>	<b>D1</b>	<b>B</b>	<b>H</b>	<b>H1</b>	<b>B</b>	<b>Z-φd</b>
40	200	150	110	220	300	140	20	4-18
50	230	165	125	270	300	140	20	4-18
65	290	185	145	290	320	150	20	4-18
80	310	200	160	315	330	162	22	8-18
100	350	220	180	340	460	260	24	8-18
150	480	285	240	402	580	274	26	8-22
200	500	340	195	470	680	302	28	8-22
250	600	391	350	550	730	348	28	12-22
300	700	445	400	622	850	370	28	12-22
350	800	505	460	660	950	410	30	16-22
400	900	565	515	800	1030	450	32	16-26
500	1100	670	620	950	1262	550	34	20-26
600	1300	780	725	1122	1520	635	36	20-30
700	1400	895	840	1810	1644	720	40	24-30
800	1500	1015	950	1250	1774	780	44	24-33
900	1700	1115	1050	1470	2084	920	46	28-33
1000	1900	1230	1160	1570	2195	970	50	28-36
1200	2220	1450	1380	1920	2615	1150	56	32-39

### Typical Installation







**Brief introduction :**

The Silent Check Valve is the preferred choice in applications where silent operation and cost are major concern. Its short linear stroke and spring return action combine to close the valve prior to flow reversal which effectively eliminates the shock and water hammer normally associated with the sudden stoppage of a reverse flow.

**Main part & material**

Body: gray cast iron, ductile cast iron

Disc: steel plate, bronze

Spring: Stainless steel

Seat: bronze

Pin: Stainless steel

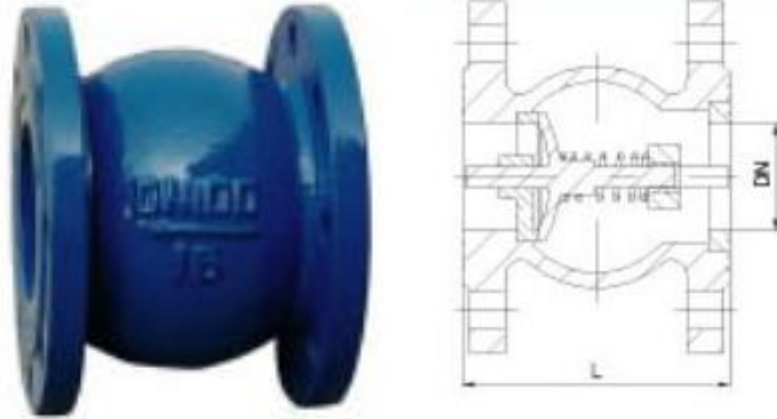
**Technical Specification**

-Nominal diameter : 50~350mm

-Nominal pressure : 1.0~1.6Mpa-Medium: water and weak corrosive fluid, etc.

-Work temperature: 0~80°C

**Main external and connection dimension**



<b>DN</b>	50	65	80	100	125	150	200	250	300	350
<b>L</b>	125	145	155	175	200	225	275	325	375	425



**Brief introduction :**

The silent resilient check valve is applied to the vertical pipelines in which medium flow runs upwards and the back-wards flowing are effectively stopped. It could be widely used in water-supply system and drain system and it works silence.

**Features:**

Professional design: The inner cavity of valve is designed as streamline shape, which can effectively stop the turbulence. The spherical surface is introduced to form the front of disc and cone contact for the seating couple; these structures will extremely the shock force of medium and decrease the resistance coefficient of flow. Thin shell structures is employed when design the diversion component to ensure the laminar flow and greatly drop the weight. The reasonable open height and cavity space enable the obtaining of maximum area of flow section. It can avoid occurring of the air chamber; the valve parameter Cv is improved.

Excellent proof corrosion characteristics: Internal and external epoxy resin coating.

Reliable hygiene principles: Epoxy resin and rubber comply with hygiene standard, the trim, such as disc, spring, etc., are made of stainless steel.

**PRODUCT - CHECK VALVE**

**Silent Lift Check Valve**

**Main part & material**

Body, Line: GGG50 with internal and external epoxy resin coating

Disc: GGG50 or casting steel

Guiding stem, spring: 1Cr17Ni12Mo2Ti, Stainless steel

Guiding bushing: Bronze CuAl10Fe3

Flange washer, O-ring: NBR, EPDM or FPM

**Technical Specification**

-Nominal diameter : 50~350mm

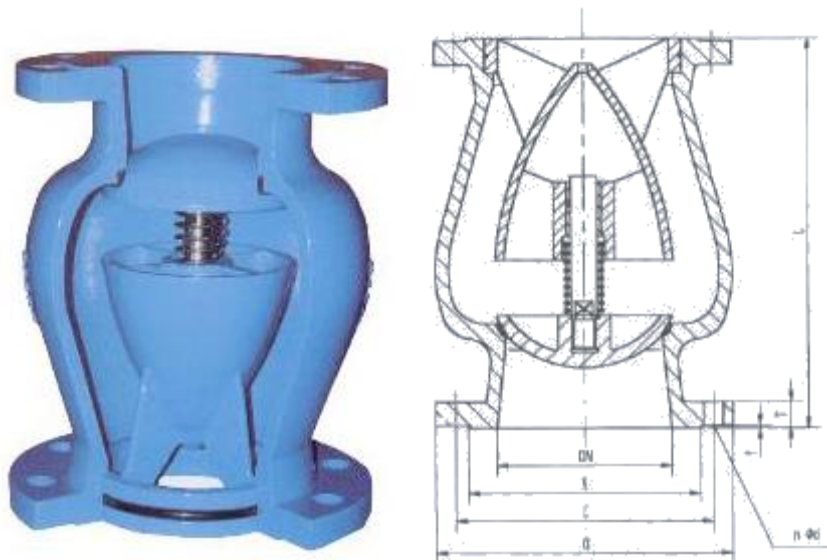
-Nominal pressure : 1.0/1.6Mpa-Strength testing pressure : 1.5/2.4Mpa

-Sealing testing pressure : 1.1/1.76Mpa

**Executive standard**

<b>Design standard</b>	AWWA A508
<b>Face to face</b>	Enterprise standard
<b>Flange end</b>	DIN 2501
<b>Test &amp; inspection</b>	JG/T 9092-1999
<b>Working temperature</b>	NBR<80 °C ; EPDM<120 °C ; FPM<160 °C

**Main external and connection dimension**





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**PRODUCT - CHECK VALVE**

**Silent Lift Check Valve**

DN	L	Flange dimensions comply with GB/T17421.6-1998										
		O		C		g		f	b		n-d	
		1.0MPa	1.6MPa	1.0MPa	1.6MPa	1.0MPa	1.6MPa		1.0MPa	1.6MPa	1.0MPa	1.6MPa
50	120	165	165	125	125	99	99	3	19	19	4-19	4-19
65	150	185	185	145	145	118	118	3	19	19	4-19	4-19
80	180	200	200	160	160	132	132	3	19	19	8-19	8-19
100	229	220	220	180	180	156	156	3	19	19	8-19	8-19
125	254	250	250	210	210	184	184	3	19	19	8-19	8-19
150	267	285	285	240	240	211	211	3	19	19	8-23	8-23
200	292	340	340	295	295	266	266	3	20	20	8-23	12-23
250	330	395	405	350	355	319	319	3	22	22	12-23	12-28
300	356	445	460	400	410	370	370	4	24.5	24.5	12-23	12-28
350	381	505	520	460	470	429	429	4	24.5	24.5	16-23	16-28

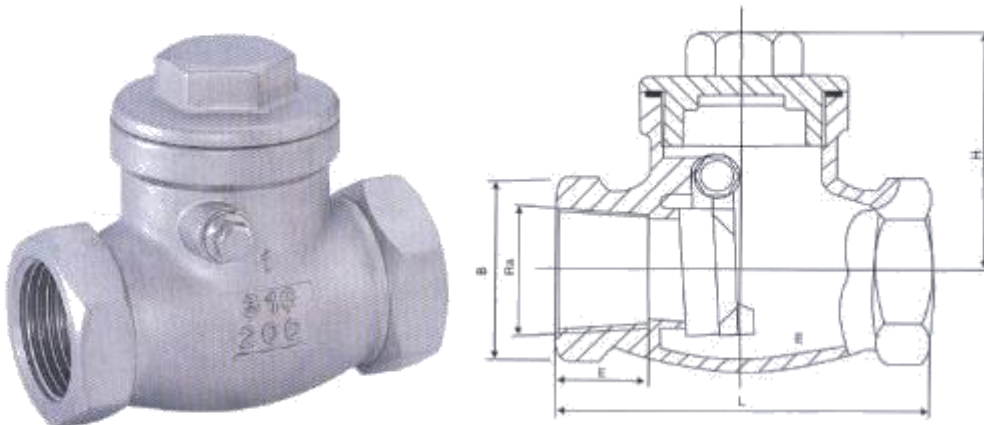


**Brief introduction :**

The check valve is designed and manufactured according to API 6D and ANSI B 16.34. It can work in high temperature and pressure circumstance. It also has the features of good appearance, nice function and superior, widely used with petroleum, chemical water treatment industries.

**Main part & material**

Part name	Material
body	WCB,ZG1Cr18Ni9Ti,CF8,CF8M
Disc	1Cr18Ni9Ti 304,316
stem	1Cr18Ni9Ti 304,316
Seal ring	304,316(CF8,CF8M)
Packing	Polytetrafluoroethylene (PTFE)



**PRODUCT - CHECK VALVE**

**Stainless Steel Female Thread Check Valve**

DN	G	L	E	B	H
6	1/4"	60	10	24	45
10	3/8"	60	10	24	45
15	1/2"	65	12	26	48
20	3/4"	80	17	32	53
25	1"	91	20	14	59
32	1-1/4"	104	20	51	70
40	1-1/2"	120	20	58	75
50	2"	140	23	69	84

**Specification**

Nominal pressure(Mpa)	PN	2.5,4.0
Strength testing pressure(Mpa)	PT	3.8,6.0,9.6
Low pressure seal test(Mpa)		0.6
High pressure seal test(Mpa)		2.8,4.4,7.04
Applicable medium	water, oil, gas, nitric acid, acetic acid	
Applicable temperature	-40 ~ 180 °C	

**Feature:**

Resist friction: Valve disc is given enough intensity and rigidity. Disc sealing surface may be built-up welded with satellite alloy inlaid or other material responding to the users' request.

Agility of switch: Solid ping is precisely installed and provided with high intensity to ensure operational performance and service life of valve.

Sealing credibility: The check valve adopt swing configuration. All the sealing part inside the valve, so all exterior leak may except the middle flange, and also the middle flange gasket may be different according to pressure class.

Distortion compensating: The disc and the hinge are connected between slippery spherical surface, and this makes the disc can circumgyrate in a little angle and regulates the sealing capability.



**Brief introduction :**

The check valve is designed and manufactured according to API 6D and ANSI B 16.34. It can work in high temperature and pressure circumstance. It also has the features of good appearance, nice function and superior. Widely used in petroleum, chemistry, water treatment industries.

Features:

-Resist friction

Valve disc is given enough intensity and rigidity. Disc sealing surface may be built-up welded with satellite alloy inlaid or other material responding to the users' request.

-Agility of switch

Solid ping is precisely installed and provided with high intensity to ensure operational performance and service life of valve.

-Sealing credibility

The check valve adopt swing configuration. All the sealing part inside the valve, so all exterior leak may except the middle flange, and also the middle flange gasket may be different according to pressure class.

-Distortion compensating

The disc and the hinge are connected between slippery spherical surface, and this makes the disc can circumgyrate in a little angle and regulates the sealing capability.





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**PRODUCT - CHECK VALVE**

**Swing Check Valve**

### Main part & material

	Item Name of parts	material
1	Body	WCB, CF8
2	Seat	304, A105+ satellite
3	Disc	304, A105+ satellite
4	Gasket	Graphite+304
5	Bonnet	WCB,CF8
6	Yoke	WCB, CF8
7	Hinge	WCB, CF8,2Cr13
8	Hinge pin	2Cr13, 304

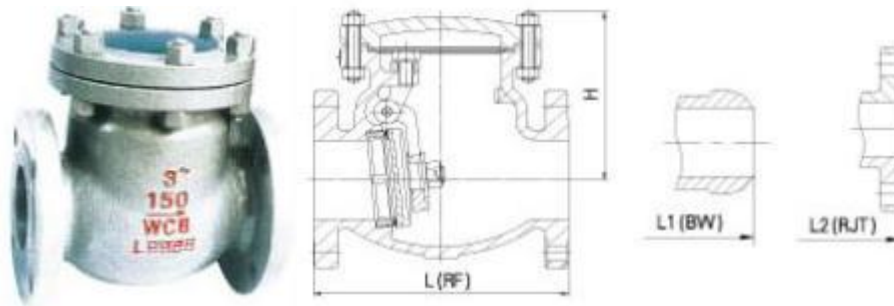
### Technical Specification

- Nominal diameter: 2"-24"
  - Applicable Temperature: -29°C~425°C
  - Nominal pressure: 150Lb 300Lb 600Lb 900Lb
  - Applicable Medium: water, gas, oil, and other causticity medium.
- Applications Standard
- Manufacture standard: ANSI B16.34
  - Face to face dimension: ANSI B 16.10, API 6D
  - Flange dimension: ANSI B 16.5
  - Test: API 598

**PRODUCT - CHECK VALVE**

**Swing Check Valve**

**Main external and connection dimension**



**CLASS150**

size(in)	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L,L1-RF.BW	203	216	214	292	330	356	495	622	699	787	864	978	978	1295
L2-RTJ(mm)	216	229	254	305	343	368	508	635	717	800	876	991	991	1308
H(mm)	155	190	200	225	245	260	350	390	410	435	530	570	625	675
Weight(Kg)	16	25	34	46	75	89	120	220	337	471	575	788	916	1275

**CLASS300**

size(in)	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L,L1-RF.BW	267	292	318	355	400	440	533	622	711	838	863	977	1016	1346
L2-RTJ(mm)	283	308	333	371	416	460	549	638	727	854	854	994	1036	1368
H(mm)	180	200	225	240	275	310	370	410	440	500	500	605	675	785
Weight(Kg)	26	32	53	73	110	157	234	384	450	650	650	970	1350	2210

**CLASS600**

size(in)	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
L,L1-RF.BW	292	330	356	432	508	559	660	787	838	889	991	1092	1194
L2-RTJ(mm)	295	333	359	435	511	562	664	791	841	892	994	1095	1200
H(mm)	190	215	250	260	310	350	420	490	525	580	630	690	810
Weight(Kg)	33	49	62	95	120	195	360	465	725	875	1075	1475	1900

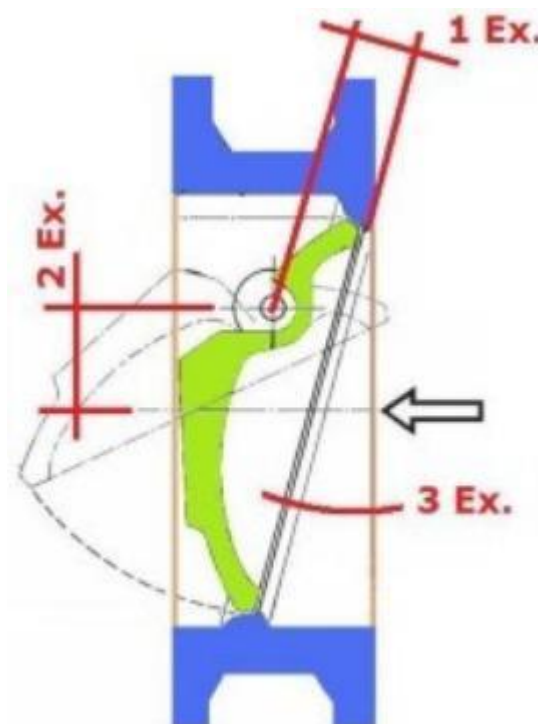
**CLASS900**

size(in)	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"
L,L1-RF.BW	368	419	381	457	559	610	737	838	965	1029
L2-RTJ(mm)	371	422	384	460	562	613	740	841	968	1038
H(mm)	195	235	260	275	320	370	435	520	530	580
Weight(Kg)	55	70	90	135	165	295	525	900	1075	1225



### Description

Tilting disc valves are designed with triple eccentric structure, which are high quality, high efficiency, and energy-saving and environmental protection products.





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**PRODUCT - CHECK VALVE**

**Tilting Disc Check Valve**

**First eccentric:** It is the offset between the shaft and the seat plane. This eccentricity removes any interference of the seat with the shaft and therefore the seat has an integral and continuous construction both in the body and disc, and potential leakage can be avoided.

**Double eccentric:** It is the offset between the shaft and the disc diameter. This eccentricity works when reverse comes or normal flow pressure is so low than it can't make enough force to hold the closing torque caused by the weight of the disc.

**Triple eccentric:** It is the angle of tilting of the seat plane with the normal plane of the pipe. This tilting reduce the stroke of the disc, therefore it could close faster at backflow.

Furthermore of geometry and weight of the disc, in some cases other elements can optimize the closing sequence. Springs can be used in order to increase the speed of the disc closure before reverse flow starts. In the other side, when reverse flow is a reality but the valve still not close at all a slow closure can avoid slam over the valve.



Body: Cast iron/Ductile iron Face to face is according to ISO STANDARD

Disc: Cast iron/Ductile iron Flange drilled is according to DIN, BS, JIS, and ANSI etc.

Disc ring: NBR Test Spring: Stainless steel/Steel with zinc

Working pressure, PN10/PN16 Class125/150

Screen: Stainless steel / Steel, zinc plated, Shell

Pressure: PN16/PN25 300PSI

DN ( mm )	50	65	80	100	125	150	200	250	300
h	166	201	221	265	300	360	580	568	653
Remark: Our design can be suitable for all standard(BS,DIN,ANSI,JIS standard etc.)									



#### Brief Description

Light flap, big opening, notable power saving, small fluid resistance, new-style of water hammer removal mechanisms design, stable and reliable seal performance, wearable, long duration, stable running, without vibration and noise etc. Suitable for the pipeline related to the systems of water supply and drainage, fire-fighting, warming etc. or the pump outlet to prevent both pump and pipeline from being damaged due to the water hammer produced in mediums back-flow.



### Description

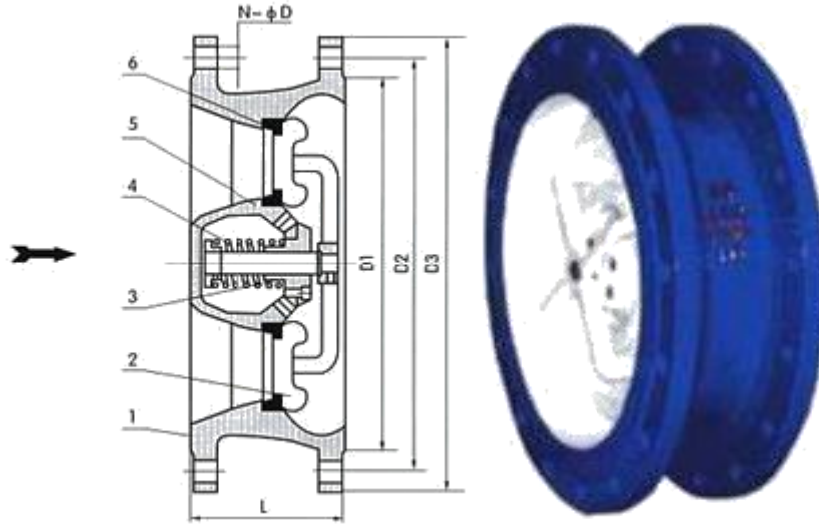
DN	DN300-600mm
PN	1.0/1.6/2.5MPa
Temperature	0°C-80°C
Seal	1.1 rate
Strength	1.5 rate

### Material

No.	Parts	Material
1	body	GG25
2	disc	QA19-4
3	stem	QA19-4
4	spring	SYS316
5	guide	GG25
6	seat	QA19-4

**PRODUCT - CHECK VALVE**

**Wafer Lift Check Valve**



**Dimension (DIN or BS)**

Model	DN	D1		D2		D3		N-φD		L
		1.0MPa	1.6 MPa	1.0MPa	1.6 MPa	1.0MPa	1.6 MPa	1.0MPa	1.6 MPa	
CVKR-0300	DN300	370		400	410	460		Dec-13	Dec-28	181
CVKR-0350	DN350	429		460	470	520		16-23	16-28	184
CVKR-0400	DN400	480		515	525	580		16-28	16-31	191
CVKR-0450	DN450	530		565	585	640		20-28	20-31	203
CVKR-0500	DN500	582		620	650	715		20-28	20-34	219
CVKR-0600	DN600	682		725	770	810	840	20-31	20-37	222
CVKR-0700	DN700	794		840	840	895	910	24-31	24-37	280
CVKR-0800	DN800	901		950	950	1015	1025	24-34	24-40	356
CVKR-0900	DN900	1001		1050	1050	1125	1125	28-40	28-40	368
CVKR-1000	DN1000	1112		1160	1170	1230	1255	28-43	28-43	432
CVKR-1200	DN1200			1380	1390	1455	1485	32-49	32-49	524