



normex
VALVES PVT. LTD.

About us

Incorporated in 1987, Normex Valves Pvt. Ltd. (NVPL) offers new generation industrial valves in fluid control industry. NVPL was promoted by the professionals in valve industry, with an intention to offer next generation products. NVPL is a complete team with core competency that manifests passion, commitment and excellence in every process of business operations.

NVPL has built its own in-house capacities to offer complete facilities for valve designing, engineering, machining, assembly, testing & quality assurance and prompt support to customers. Located at Bhosari, Pune (India), one of the most prominent industrial hubs in India, NVPL is equipped with state-of-the art manufacturing facilities, which include sophisticated machines like heavy duty Bombay lathe, Radial drilling machine, hydraulic rubber press, hydraulic test rig and allied machinery. These are backed up by dedicated tooling to consistently achieve component dimensions within the prescribed tolerances.

NVPL had been accredited with three patents for unique design of Ball Type check valves and foot valves, which are truly regarded as next generation valves. Accreditation of ISO 9001 and Bureau of Indian Standards (BIS) as well as ISI certification and practising the stipulations thereof, has helped us evolve and establish the best manufacturing processes, do meticulous planning and achieve manufacturing excellence in true sense.

Our products, on the strength of precision and reliability in performance, enjoy wide acceptance and customer confidence in various market segments. Many of the renowned corporate giants rely only on Normex brand. Many segments like Fire Fighting, Utility Industry etc. also accepted and experienced the perfection in performance of the products. Normex products are employed in the wide range of Industries like Water Pumping, Supply and Distribution, ETP / STP, Power Plants, Steel Mills, Sewage Pumping, Mining, Agriculture / Irrigation, HVAC, Process & Chemical Industries, Sugar etc. Most of the users insist to have Normex valves for their highly reliable performance and long life.

It is easy to say, wherever there is a pump, Normex Valves have an application.

In order to offer off-the-shelf service, NVPL has developed wide marketing network in India and overseas.

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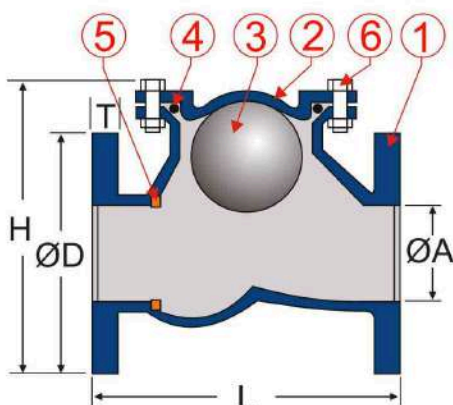
- Page 3 Normex Ball Check Valve (Double Flanged) Model B-01
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Ball Check Valve (Double Flanged) : Model B-01



Features of the Valve

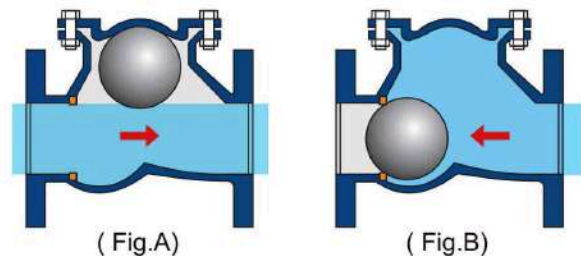
- Ball type design gives 100% leak proof sealing.
- Lower Head Loss / Pressure drop across the valve.
- Full bore, undisturbed flow, no obstruction to liquid flow.
- Reduce frictional losses.
- No mechanism involved. Virtually maintenance free.
- Non-clogging & self cleaning mechanism due to circular shape of ball.
- Dimensionally conforming with IS : 5312-1984/DIN 3202F6 / EN 558-1-548
- Can be installed horizontally as well as vertically.
- Energy saving as above
- Consistent performance and longer life.



- Note : *W : Width of Valve (not shown in drawing)
Overall dimensions to be as L x W x H
- The valve flanges to be drilled as per customers requirements.
 - Flange diameter shown as per IS 1538 / DIN 2532

Principle

The reinforced rubber ball is the heart of this valve. This ball in the valve moves freely and promptly reacts to the START & STOP of the pump. The ball moves to open position when the pump starts & allows free flow of liquid without any interference. (Fig. A) As the pump stops, the ball seats firmly against the metal seat due to its own weight & back pressure of the liquid (Fig. B) This results in DROPLESS sealing.



Pressure rating

Size	Rating MPa/(kg/cm ² or Bar) For CI Construction	Rating MPa/(kg/cm ² or Bar) For DI(SGI), WCB, SS Construction
25 - 200NB	PN 1.6 / (16)	PN 2.0 / (20)
250 - 300NB	PN 1.0 / (10)	PN 1.6 / (16)
350NB	PN 0.6 / (6)	PN 1.0 / (10)

(For CI Construction)

Part List / Materials of Construction

Part	Description	Standard	Special
1.	Body	Cast Iron IS210, FG260/GG25	DI (SGI)/WCB/SS
2.	Cover	Cast Iron IS210, FG260/GG25	DI (SGI)/WCB/SS
3.	Ball	Nitrile Rubbercoated	EPDM, Neoprene
4.	Cover Ring	Nitrile ASTM D2000	Viton
5.	Seat Ring	SS 304	L.T.Bronze
6.	Fasteners	Carbon Steel CL4	St. Steel

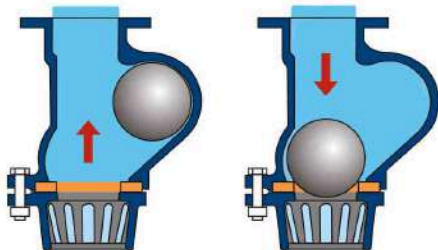
Dimensions (ØA = Valve size in mm NB)

ØA	25	40	50	65	80	100	125	150	200	250	300	350
ØD	115	150	165	185	200	220	250	285	340	395	445	505
L	144	175	200	240	260	300	350	400	500	600	700	800
H	125	170	188	222	242	285	345	410	510	600	700	835
T (Min)	15	16	17	20	20	22	22	27	28	28	28	32
*W	115	150	165	185	200	220	280	310	375	433	501	540
App wt.(kg)	4.5	7	9	14	20	25	50	60	105	165	223	310

Ball Foot Valve (Flanged) : Model B-05 (N)

Principle

The reinforced rubber ball is the heart of this valve. This ball in the valve moves freely and promptly reacts to the ON & OFF of the pump. The ball moves to open position when the pump starts & allows free flow of liquid without any interference. (Fig. A) As the pump stops, the ball seats firmly against the metal seat due to its own weight & back pressure of the liquid (Fig. B) This results in DROPLESS sealing



(Fig.A)

(Fig.B)

Features of the Ball Type Foot Valve

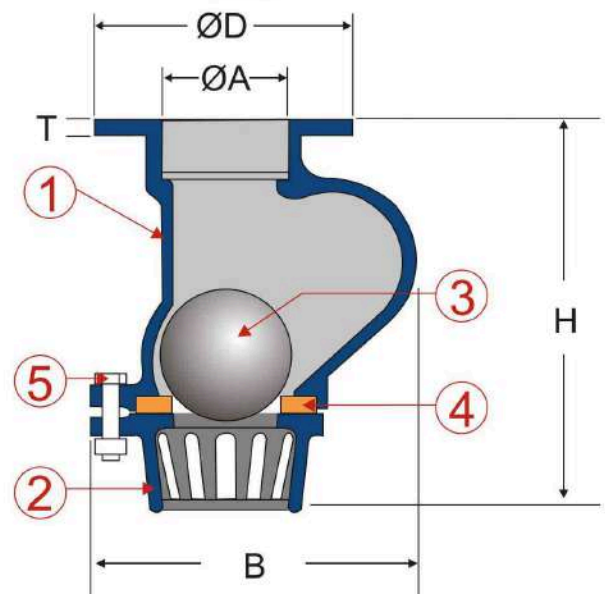
- Ball type design gives 100% leak proof sealing.
- Lower Head Loss / Pressure drop across the valve.
- Full bore , undisturbed flow, no obstruction to liquid flow.
- Reduce frictional losses.
- No mechanism involved. Virtually maintenance free.
- Non-clogging & self cleaning mechanism due to circular shape of ball.
- Energy saving as above
- Consistent performance and longer life.

Part List / Materials of Construction

Part	Description	Material
1.	Body	Cast Iron - IS210, FG260 / GG25
2.	Strainer	Cast Iron - IS210, FG260 / GG25
3.	Ball	Nitrile Rubber Coated
4.	Seat Ring	50-65 NB: Nitrile Rubber 80-200 NB : SS304
5.	Fastener	SS202 / Carbon Steel CL4

Dimensions (ØA = Valve size in mm NB)

ØA	50	65	80	100	125	150	200
ØD	165	185	200	220	250	285	340
H	185	235	275	312	370	440	540
B	170	205	235	275	335	400	495
T	15	16	18	18	18	18	22
*W	167	186	208	222	255	295	378
App. Wt (kg)	5	8	11	16	24	41	82



Note : *W : Width of Valve (not shown in drawing)

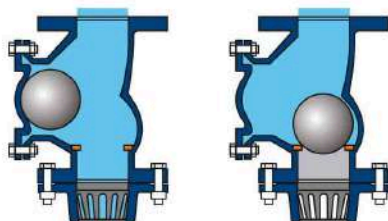
Overall dimensions to be as B x W x H

- The valve flanges to be drilled as per customers requirements.
- Flange diameter shown as per IS 1538 / DIN 2532
- We can offer MOC in DI/SGI

Pressure rating

Size	Rating (MPa)	Rating (kg/cm ²)/(Bar)
50 - 200NB	PN 0.6	PN 6

(For CI Construction)



(Fig.A)

(Fig.B)

Pressure rating

Size	Rating (MPa)	Rating (Kg/Cm ²)/(Bar)
25 - 200NB	PN 1.6	PN 16
250 - 300NB	PN 1.0	PN 10
350 NB	PN 0.6	PN 6

(For CI Construction)

Part List / Materials of Construction

Part	Description	Material
1.	Body	Cast Iron - IS210, FG260 / GG25
2.	Cover	Cast Iron - IS210, FG260 / GG25
3.	Ball	Nitrile Rubber Coated
4.	Cover Ring	Nitrile ASTM D2000
5.	Seat Ring	SS 304 / L.T.Bronze/IS318-LTB2
6.	Fastener	Carbon Steel CL4
7.	Strainer	Cast Iron - IS210, FG260 / GG25

Dimensions (ØA = Valve size in mm NB)

ØA	25	40	50	65	80	100	125	150	200	250	300	350
ØD	115	150	165	185	200	220	250	285	340	395	445	505
H	187	218	248	304	324	374	426	497	620	755	855	990
B	125	170	188	222	242	285	345	410	510	600	700	835
T (Min)	15	16	17	20	20	22	22	27	28	28	28	32
*W	115	150	165	185	200	220	280	310	375	433	500	540
App wt.(kg)	5	7.5	10	16	22	28	54	67	114	182	240	335

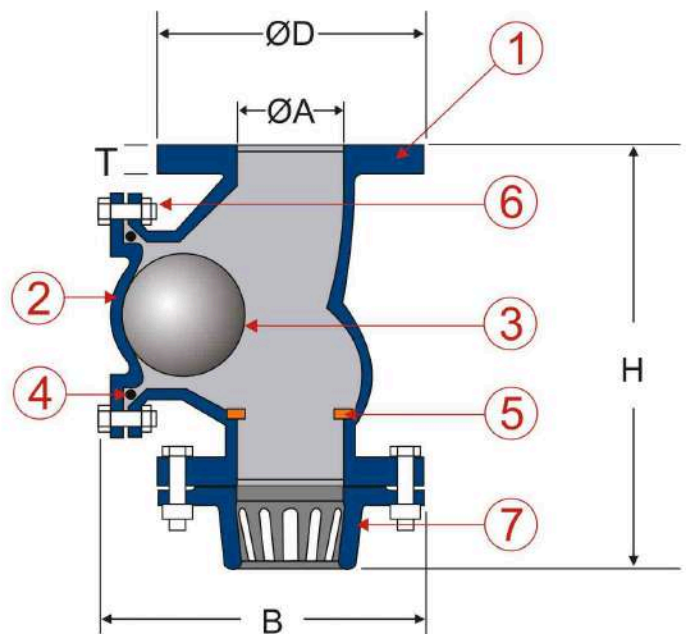
Ball Foot Valve (Flanged) : Model B-05

Principle

The reinforced rubber ball is the heart of this valve. This ball in the valve moves freely and promptly reacts to the ON & OFF of the pump. The ball moves to open position when the pump starts & allows free flow of liquid without any interference. (Fig. A) As the pump stops, the ball seats firmly against the metal seat due to its own weight & back pressure of the liquid (Fig. B) This results in DROPLESS sealing.

Features of the Valve

- Ball type design gives 100% leak proof sealing.
- Lower Head Loss / Pressure drop across the valve.
- Full bore , undisturbed flow, no obstruction to liquid flow.
- Reduce frictional losses.
- No mechanism involved. Virtually maintenance free.
- Non-clogging & self cleaning mechanism due to circular shape of ball.
- Energy saving as above
- Consistent performance and longer life.



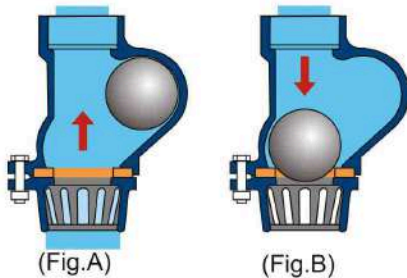
Note : *W : Width of Valve (not shown in drawing)

Overall dimensions to be as B x W x H

- The valve flanges to be drilled as per customers requirements.
- Flange diameter shown as per IS 1538 / DIN 2532.
- We can offer MOC in DI/SGL.

We Recommend to use B05 (N) for sizes upto 200mm for all general application for foot Valve

Ball Foot Valve (Threaded) : Model B-04



Principle

The reinforced rubber ball is the heart of this valve. This ball in the valve moves freely and promptly reacts to the ON & OFF of the pump. The ball moves to open position when the pump starts & allows free flow of liquid without any interference. (Fig. A) As the pump stops, the ball seats firmly against the metal seat due to its own weight & back pressure of the liquid (Fig. B) This results in DROPLESS sealing.

Features of the Valve

- Ball type design gives 100% leak proof sealing.
- Lower Head Loss / Pressure drop across the valve.
- Full bore , undisturbed flow, no obstruction to liquid flow.
- Reduce frictional losses.
- No mechanism involved. Virtually maintenance free.
- Non-clogging & self cleaning mechanism due to circular shape of ball.
- Energy saving as above
- Consistent performance and longer life.

Pressure rating

Size	Rating (MPa)	Rating (Kg/Cm ²)/(Bar)
25 - 100NB	PN 0.6	PN 6

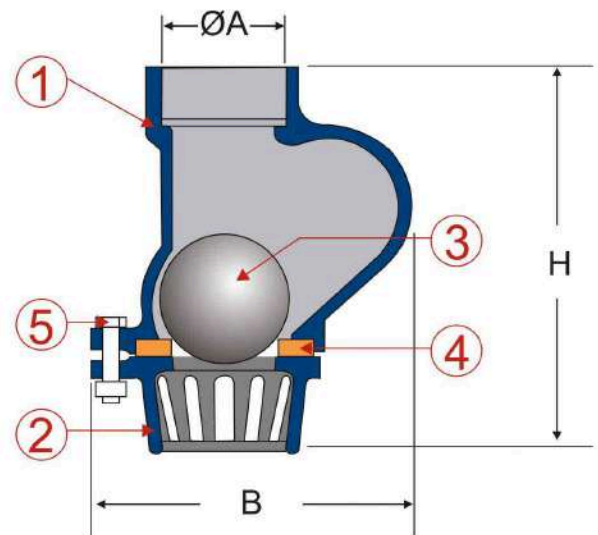
(For CI Construction)

Part List / Materials of Construction

Part	Description	Material
1.	Body	Cast Iron - IS210, FG260 / GG25
2.	Strainer	Cast Iron - IS210, FG260 / GG25
3.	Ball	Nitrile Rubber Coated
4.	Seat Ring	25-65NB : Nitrile Rubber 80-100 NB : SS304
5.	Fastener	SS202 / Carbon Steel CL4

Dimensions (ØA = Valve size in mm NB)

ØA	25	32	40	50	65	80	100
H	145	147	156	183	232	275	305
B	115	116	125	132	168	202	254
*W	96	96	96	120	148	138	185
App. Wt.(kg)	1.6	1.7	1.8	3	6	8	13



Note : *W : Width of Valve (not shown in drawing)
Overall dimensions to be as B x W x H
● We can offer MOC in DI/SGL.

Ball Check Valve (Threaded) : Model B-06



Features of the Valve

- Ball type design gives 100% leak proof sealing.
- Lower Head Loss / Pressure drop across the valve.
- Full bore , undisturbed flow, no obstruction to liquid flow.
- Reduce frictional losses.
- No mechanism involved. Virtually maintenance free.
- Non-clogging & self cleaning mechanism due to circular shape of ball.
- Can be installed horizontally as well as vertically.
- Energy saving as above
- Consistent performance and longer life.

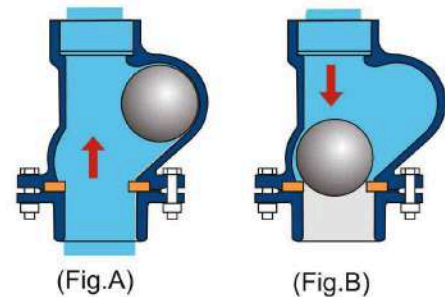
Part List / Materials of Construction

Part Description	Material
1. Body	Cast Iron - IS210, FG260 / GG25
2. Adaptor	Cast Iron - IS210, FG260 / GG25
3. Ball	Nitrile Rubber Coated
4. Seat Ring	25-65NB : Nitrile Rubber / 80-100 NB : SS304
5. Fastener	SS202

Note : *W : Width of Valve (not shown in drawing)
Overall dimensions to be as B x W x H
● We can offer MOC in DI/SGL.

Principle

The reinforced rubber ball is the heart of this valve. This ball in the valve moves freely and promptly reacts to the ON & OFF of the pump. The ball moves to open position when the pump starts & allows free flow of liquid without any interference. (Fig. A) As the pump stops, the ball seats firmly against the metal seat due to its own weight & back pressure of the liquid (Fig. B) This results in DROPLESS sealing.



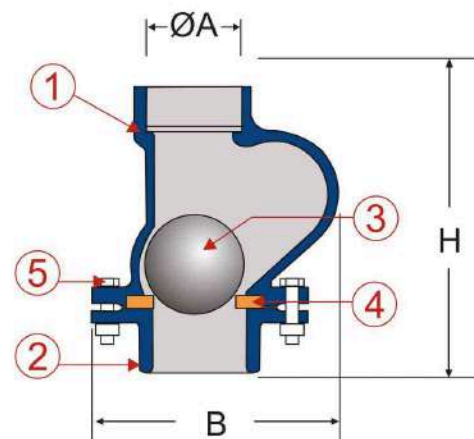
Pressure rating

Size	Rating (MPa)	Rating (kg/cm ²)/(Bar)
25 - 100NB	PN 0.6	PN 6

(For CI Construction)

Dimensions (ØA = Valve size in mm NB)

ØA	25	32	40	50	65	80	100
H	124	132	147	171	212	265	294
B	115	116	125	132	168	202	254
*W	96	96	101	120	148	138	181
App. Wt.(kg)	1.5	1.9	2	3	6	8	13



Normex Butterfly Valve (Available with  mark)

IS:13095
CML:7637789



IS:13095

CML:7637789

Quality Features

- Excellent flow control in quarter turn operation.
- Compact, space saving design.
- Bi-directional 100% tight shut off.
- Low weight, low maintenance, long service life.
- Easy automation / retrofit possible.
- Stream lined valve disc for lower pressure drop.
- Both shafts mounted in bearing supports for easy operating torques.
- Replaceable / Bonded seat options.
- Suitable for mounting between all standard flanges.
- Gasket packing not required to install between flanges.

Applications

- Water treatment plants
- Water distribution systems
- Fire fighting systems
- Power stations
- Drip Irrigation / Agriculture
- Chemical Industries
- Steel mills
- Sugar factories / Breweries
- Sewage / Effluent treatment
- Process Industries
- Seawater & Brine pumping
- Food Processing Industries
- Mining Industries
- Petrochemical Industries



Actuator Mounted

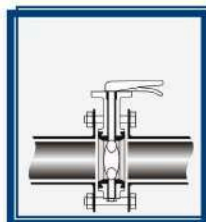


Gear Box Mounted

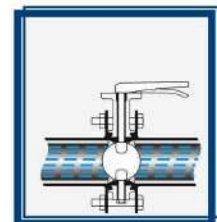
Installation Procedure



1 Keep the mating flanges well apart so that the valve can be inserted freely between the gap of mating flanges. The valve disc should be in semi-open position, but ensure that it does not protrude out of the valve body.

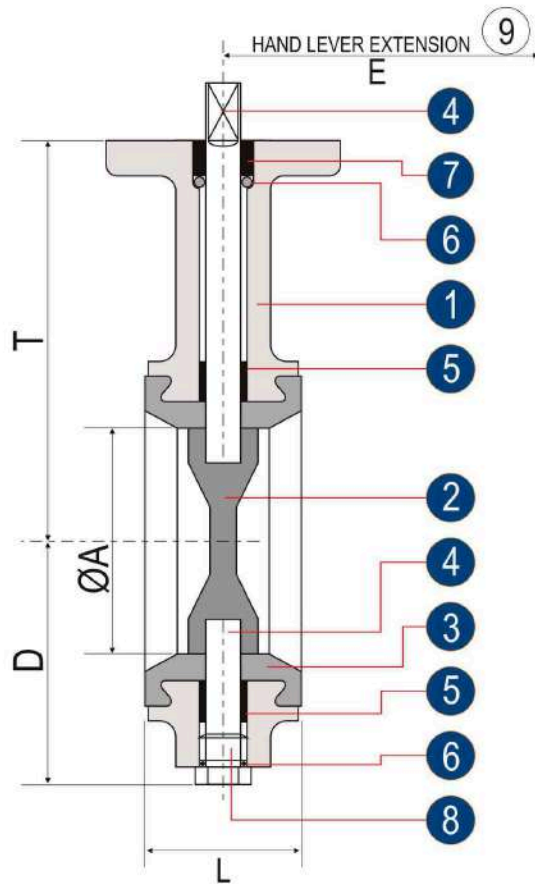


2 Insert the valve between the flanges. Insert the bolts firstly passing through eye on valve on top side to support the valve and then insert the other bolts touching the sides of the valve. Select the bolt length such that it connects the mating flanges and valve can be tightened between the two flanges.



3 Centralize the valve referring the O.D.. of flange and tighten the bolts evenly, packing gaskets are not required as they are inherent on valve face. Open /close the valve and now it is ready for service.

IMP: Butterfly valves should be stocked / transported in semi-open condition (and not in fully closed position.) Also ensure the disk does not protrude out of the valve face / body.



Ordering Data

- Size of valve.
- M.O.C. for body, disc & seat.
- Details of flow medium i.e., name, temperature, pressure.
- If any specific change to standard materials of other parts.
- Operation manual / Gearbox / Actuator (give details of Actuator).

Technical Data

PRESSURE RATING	PN1.6 / 1.0 MPa (16/10 bar)
PRESSURE TESTING	a) Body : 1.5 x PN b) Seat : 1.1xPN
TEMPERATURE	(-)25°C to 150°C
FACE TO FACE DIMENSION	ISO - 5752 / IS -1 3095 / BS-5155
TO SUIT FLANGES DRILLED AS PER	IS, ANSI, BS, DIN Standards
OPERATION	Bidirectional
PAINTING	Epoxy coated

Dimension Chart

ØA	40	50	65	80	100	125	150	200	250	300	350	400	450
L	33	43	46	46	52	56	56	60	68	78	78	100	108
D	55.5	64	72.5	79.5	99	115	128	156	212	239	260	298	326
T	101	111	121	128	147	159	173	199	248	270	321	345	373
E	185	185	250	250	250	250	355	355	500	-	-	-	-
App. Wt.(kg)	2.1	2.8	3.4	3.6	4.6	6.3	8.7	12.2	25	32	64.5	69.4	-

Note: Size up to 250 mm with H / L 300 mm and above, with gear box

Parts List & Materials

Part	Description	STD. MODE OF CONSTRUCTION	OPTIONS
1.	Body	Cast Iron, GG - 25 / IS -210 - FG-260 / BS-1452Gr. 260	SG Iron (Ductile Iron)
2.	DISC	SG Iron (Ductile Iron) :GGG 40 / IS-1865, SG 400 / 15 / BS-2789 Gr. 240/12	CF8 / CF8M
3.	SEAT	EPDM	Nitrile / Neoprene
4.	SHAFTS	AISI410	AISI304 / AISI316
5.	BEARING	Sliding Bearing MU	PTFE
6.	'O' RINGS	EPDM	Nitrile / Neoprene
7.	BUSH	Polyacetal (Delrin)	PTFE
8.	PLUG	Nylon / MS (Size : 250 & above)	-
9.	HAND LEVER	MS	CI / SGI / SS

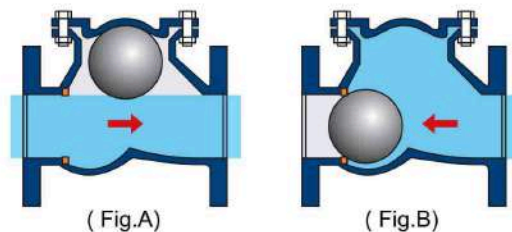
Rubber Lined/Ebonite Hard Ball Check Valve : Model B-02

Principle

The reinforced rubber ball is the heart of this valve. This ball in the designed path of the valve moves freely and promptly reacts to the ON & OFF of the pump. The ball moves to open position when the pump starts & allows free flow of liquid without any interference. (Fig. A) As the pump stops, the ball seats firmly against the metal seat due to its own weight & backpressure of the liquid (Fig. B) This results in DROPLESS sealing. In this Rubber Lined Ball Check Valve, the entire wetted area inside the valve is lined with rubber so nowhere metal part comes in contact with fluid. This feature is highly effective in pumping of corrosive & erosive fluids. The overall dimension of this valve will be similar to our Model B-01 except face to face length more by 6 to 10mm.

Features of the Valve

- Ball type design gives 100% leak proof sealing.
- Lower Head Loss / Pressure drop across the valve.
- Full bore, undisturbed flow, no obstruction to liquid flow.
- Reduce frictional losses.
- No mechanism involved. Virtually maintenance free.
- Non-clogging & self cleaning mechanism due to circular shape of ball.
- Can be installed horizontally as well as vertically.
- Energy saving as above
- Consistent performance and longer life.
- Dimensionally conforming with IS 5312. Length more by 6 to 10mm due to rubber lining on flange face.



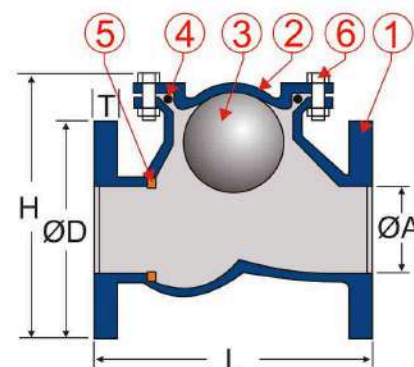
(Fig.A)

(Fig.B)

Pressure rating

Size	Rating (MPa)	Rating (kg/cm ²)/(Bar)
25 - 200NB	PN 1.6	PN 16
250 - 300NB	PN 1.0	PN 10
350NB	PN 0.6	PN 6

(For CI Construction)



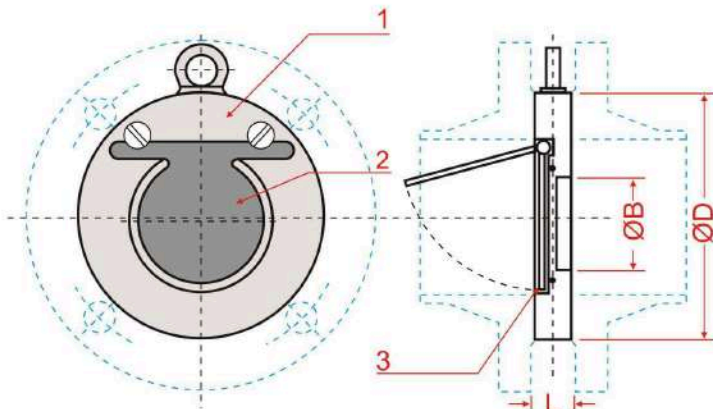
- Note : *W : Width of Valve (not shown in drawing)
Overall dimensions to be as L x W x H
- The valve flanges to be drilled as per customers requirements.
 - Flange diameter shown as per IS 1538 / DIN 2532
 - This length is without lining. With lining, total length shall be 6-12mm more and flange thickness 3-6mm more depending on lining thickness.

Part List / Materials of Construction

Part	Description	Standard	Special
1.	Body	Cast Iron IS210, FG260 (min) / GG25	SGI, Cast Steel
2.	Cover	Cast Iron IS210, FG260 (min) / GG25	SGI, Cast Steel
3.	Ball	Nitrile Rubbercoated	EPDM, Neoprene
4.	Cover Ring	Nitrile ASTM D2000	EPDM, Neoprene
5.	Seat Ring	Integral of rubber	
6.	Fasteners	Carbon Steel CL4	St. Steel
7.	Rubber Lining	Ebonite Rubber	

Dimensions (ØA = Valve size in mm NB)

ØA	25	40	50	65	80	100	125	150	200	250	300	350
ØD	115	150	165	185	200	220	250	285	340	395	445	505
L	144	175	200	240	260	300	350	400	500	600	700	800
H	125	170	188	222	242	285	345	410	510	600	700	835
T (Min)	15	16	17	20	20	22	22	27	28	28	28	32
*W	115	150	165	185	200	220	280	310	375	433	501	540
App wt.(kg)	4.5	7	9	14	20	25	50	60	105	165	223	310



Part List / Materials of Construction

Part	Standard Material	Optional Material
1.Body	CI/MS	CS, SS
2.DISC	DI / MS	SS
3. 'O'Ring	Nitrile	EPDM, Neoprene, Viton

Technical Data

PRESSURE RATING	PN10&PN16
Types	Without spring (WCV)
Sizes	40mm to 400mm
PN rating	PN1.6
Temperature	(-)20°C to 150°C
Installation	Horizontal /Vertical
Flanges	Between any standard flanges

Wafer Check Valves Model : WCV

Salient Features

- Sturdy but simple design.
- 100% leak proof
- Short length - less space required.
- Lightweight.
- Lower pressure drop across the valve.
- Low opening & closing pressures.
- Wide range of materials, temperature & pressure ratings
- Efficient flow characteristics.
- Can be mounted horizontally & vertically.
- Highly economical.
- Epoxy coating over the entire surface.

Dimension Chart

Size				
mm	in	BØ	DØ	L
25	1.0	15	64	20
40	1.5	22	81	20
50	2	30	96	20
65	2.5	40	109	20
80	3	52	130	20
100	4	71	160	20
125	5	93	190	20
150	6	114	213	20
200	8	157	270	28
250	10	195	327	28
300	12	230	377	38
350	14	270	437	41
400	16	310	487	51

Installation

- 1) Normex Wafer Check valves can be installed between any two standard flanges.
- 2) The outside diameter of valve is designed considering the minimum P.C.D. available in various flange standards.
- 3) The valve should be centered between the outside diameter of the pipe flanges simultaneously while tightening the bolts.
- 4) Recheck that valve outside diameter is equidistant to flange diameter on all sides and fully tighten the bolts.

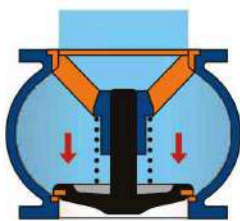
Silent Check Valve : Model H - 01

Principle

This is spring loaded hydrodynamic guided closing design. The disc in valve moves upward and specially designed profile of the disc and body gives passage to the media without causing any change in its velocity. This gives the aero/hydrodynamic effect which result in minimum pressure drop (Fig A) When the pump stops, the disc moves backward quickly (Fig. B) Due to its long axial guide there is no displacement of the disc while closing. This action including its concentric machining results in perfect sealing. Due to its precisely designed spring, the valve is closed before the back flow starts and the water hammer is eliminated. This is a latest technology for check valve in India.



(Fig.A)



(Fig.B)

Pressure rating

Size	Rating (MPa)	Rating (kg/cm ²)/(Bar)
40 - 100NB	PN 1.6	PN 16
150 - 300NB	PN 1.0	PN 10
350 - 400NB	PN 0.6	PN 6

(For CI Construction)

125mm Size not available

Dimensions (ØA = Valve size in mm NB)

Size ØA (NB)	40	50	65	80	100	150	200	250	300	350	400
ØD	150	165	185	200	220	285	340	395	445	505	565
L	86	102	120	140	174	230	290	365	398	480	580
B	150	165	185	203	229	307	350	430	500	600	686
T	13	16	16	20	22	22	22	25	28	30	30
*W	150	165	185	203	229	307	350	430	500	600	686
App.wt.(kg)	4	6	8.5	13	19	37.5	65	98	150	-	-

Part List / Materials of Construction

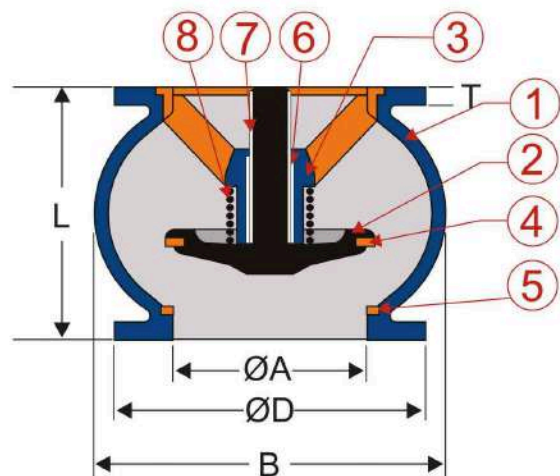
Part	Description	Standard	Special on request
1.	Body	Cast Iron IS210, FG260 / GG25	DI(SGI) / WCB
2.	Closing disc	S. G. Iron GGG40	DI(SGI) / WCB
3.	Guide	Cast Iron IS210, FG260 / GG25	DI(SGI) / WCB
4.	Sealing ring	Nitrile ASTM D2000	Neoprene, Viton, Teflon etc.
5.	Seat ring	SS304	L. T. Bronze (IS318-LTB 2)
6.	Guide brush	L. T. Bronze IS318-LTB2	
7.	Sleeve	SS304	
8.	Spring*	Spring steel / Stainless Steel	

*Note : Spring to be removed for air application



Features of the Valve

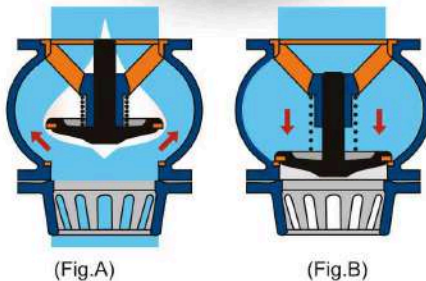
- The closing mechanism is guided and backed with return spring for quick closing and opening.
- Due to aero/hydro dynamic effect water hammer can be eliminated.
- Very low pressure loss.
- Most suitable for clear liquids and air.
- The concentric machining results in to perfect sealing
- Suitable for mounting vertically, horizontally or angular
- Silent operation.
- Operates silently up to 80°C
- This valve has a quality for withstanding consistent performance and longer life.



Note : *W : Width of Valve (not shown in drawing)

Overall dimensions to be as L x B x W

- The valve flanges to be drilled as per customers requirements.
- Flange diameter shown as per IS 1538 / DIN 2532



Silent Foot Valve : Model H - 04

Principle

This is spring loaded hydrodynamic guided closing design. The disc in valve moves upward and specially designed profile of the disc and body gives passage to the media without causing any change in its velocity. This gives the aero/hydrodynamic effect which result in minimum pressure drop (Fig. A) When the pump stops, the disc moves backward quickly (Fig. B) Due to its long axial guide there is no displacement of the disc while closing. This action including its concentric machining results in perfect sealing. Due to its perfectly designed spring, the valve is closed before the back flow starts and the water hammer is eliminated. This is a latest technology for check valve in India.

Features of the Valve

- This valve is offered in one side flanged & strainer to the other side design
- The closing mechanism is guided and backed with return spring for quick closing and opening.
- Due to aero/hydro dynamic effect water hammer is eliminated.
- Very low pressure loss.
- Most suitable for clear liquids.
- The concentric machining results in to perfect sealing.
- Silent operation
- Suitable for low suction head.
- Suitable for vertical and slanted position.
- Operates silently upto 80°C
- This valve has a quality for withstanding consistent performance and longer life.

Dimensions (ØA = Valve size in mm NB)

Size ØA (NB)	40	50	65	80	100	150	200	250	300	350	400
ØD	150	165	185	200	220	285	340	395	445	505	565
H	130	150	184	204	248	327	410	520	553	670	760
B	150	165	185	203	229	307	350	430	500	600	686
T	13	16	16	20	22	22	22	25	28	30	30
*W	150	165	185	203	229	307	350	430	500	600	686
App.wt.(kg)	4.5	7	10	15	23	45.5	72.5	115	167	-	-

Part List / Materials of Construction

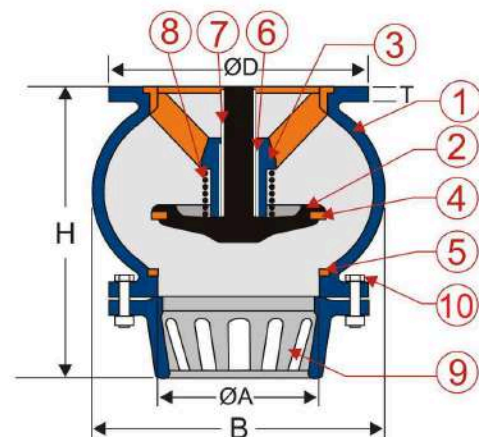
Part	Description	Standard	Special on request
1.	Body	Cast Iron IS210, FG260 / GG25	DI(SGI) / WCB
2.	Closing disc	S. G. Iron GGG40	DI(SGI) / WCB
3.	Guide	Cast Iron IS210, FG260 / GG25	DI(SGI) / WCB
4.	Sealing ring	Nitrile ASTM D2000	Neoprene, Viton, Teflon etc
5.	Seat ring	SS304	L. T. Bronze (IS318-LTB 2)
6.	Guide brush	L. T. Bronze IS318-LTB2	St. Steel / Teflon (PTFE)
7.	Sleeve	SS304	
8.	Spring*	Spring steel / Stainless Steel	
9.	Strainer	Cast Iron - IS210, FG200 (min) / GG25	DI(SGI) / WCB
10.	Fasteners	Carbon Steel CL4	

*Note : Not recommended for air application

Pressure rating

Size	Rating (MPa)	Rating (kg/cm ²)/(Bar)
40 - 100NB	PN 1.6	PN 16
150 - 300NB	PN 1.0	PN 10
350 - 400NB	PN 0.6	PN 6

(For CI Construction)



Note : *W : Width of Valve (not shown in drawing)

Overall dimensions to be as H x B x W

- The valve flanges to be drilled as per customers requirements.

- Flange diameter shown as per IS 1538 / DIN 2532



normex
VALVES PVT. LTD.

NORMEX VALVES PVT. LTD.

Address : J - 511, M.I.D.C., Bhosari, Pune - 411 026, Maharashtra, India.

Telefax : +91 - 20 - 66114538, Mobile : +91 86058 24555

E-mail - info@normexvalves.com, normexvalves@gmail.com