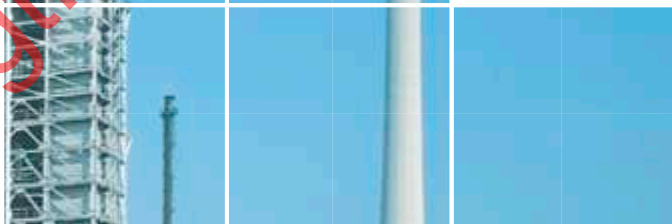
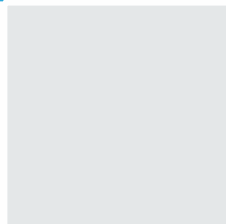
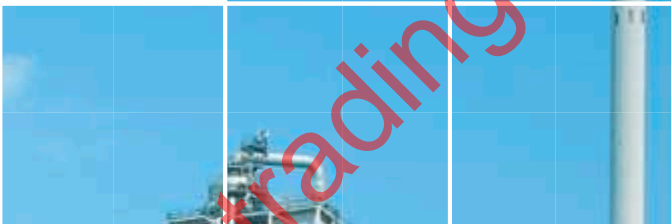
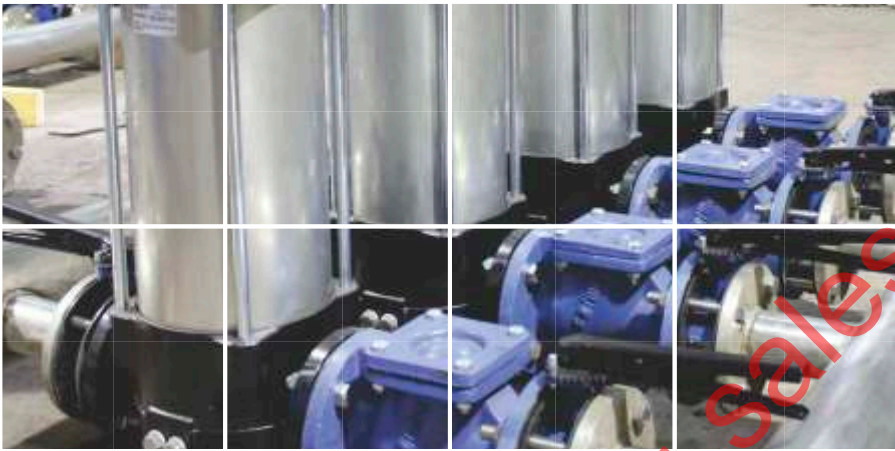




**normex**  
VALVES PVT. LTD.



Products Overview



[www.cgtrading.in](http://www.cgtrading.in) E-mail: [sales@cgtrading.in](mailto:sales@cgtrading.in)

## About us

Normex Valves Pvt. Ltd. (Normex) was incorporated in 1987 with intention to offer new generation industrial valves in fluid control industry. Normex was promoted by professionals in valve industry and now consists of complete team with core competency.

Normex has its own in-house strength to offer complete facilities for valve designing, engineering, machining, assembly, testing and quality assurance and prompt support to customers. Located at Bhosari, Pune (India), one of the largest industrial estates in India & equipped with sophisticated machines like heavy duty Bombay lathe, radial drilling, Multi Spindle Drilling, hydraulic rubber press, hydraulic test rig and allied machinery and dedicated tooling to consistently achieve component dimensions within tolerances.

Normex was accredited with three patents in India for unique design of Ball Type Check Valve and Foot Valve – truly next generation valves. Accreditation of ISO 9001 and Bureau of Indian Standards (BIS) ISI-certification is a truly reorganization to the manufacturing process, planning and quality of the Normex products.

The perfection in products in all respect has gained wide acceptance in various industrial segments. Many of the giants have made Normex brand as the only brand accepted by default. Many segments like Fire Fighting industry etc. also accepted and experienced the perfection in performance of the products. Normex products are employed in the wide range of industries like Sugar, Agriculture, Paper, Power, Steel, Mining etc.

For offering off-the-shelf service, Normex developed wide marketing network in India as well as abroad.

normex



### Links To Page No.

Page 4 Normex Ball Check Valve (Flanged) Model B-01

Page 5 Normex Ball Check Valve (Threaded) Model B-06

Page 6 Normex Silent Check Valve Model H-01

Page 7 Normex Rubber Lined/FRP Lined Ball Check Valve Model B-02

Page 8 Normex Wafer Check Valve Model WCV

Page 9 Normex Foot Valve (Flanged) Model B-05(N)

Page 10 Normex Ball Foot Valve (Flanged) Model B-05

Page 11 Normex Ball Foot Valve (Threaded) Model B-04

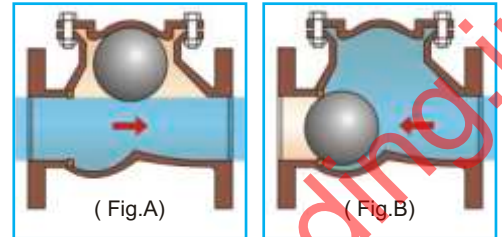
Page 12 Normex Silent Foot Valve Model H-04

Page 13 Normex Butterfly Valve Model BFV

## Ball Check Valve (Flanged) : Model B-01

### 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

- New generation valve with unique and non-conventional Ball Check design.
- Suitable for a very wide range of applications like slurry, sewage, paper, chemical, water supply, agriculture, muddy water, slurry, paper stock, viscous liquid and clear water.
- Robust and very simple mechanism.
- A floating reinforced rubber coated ball is used instead of hinge-pin-disc.
- Highly sensible to arrest flow with perfect sealing.
- Very low head loss
- Non clogging and self cleaning mechanism
- Maintenance free
- Power saving
- Large solid handling capacity
- Dimensionally conforming with DIN 3202-F6 / EN558-1-S48 / IS 5312
- Installation can be vertically or horizontally
- Operates silently upto 80°C
- This valve has a quality for withstanding consistent performance and longer life.



### Part List / Materials of Construction

Part	Description	Standard	Special
1.	Body	Cast Iron IS210, FG200(min)/GG25	St. Steel, Cast Steel
2.	Cover	Cast Iron IS210, FG200(min)/GG25	St. Steel, Cast Steel
3.	Ball	Nitrile Rubbercoated	EPDM, Neoprene
4.	Cover Ring	Nitrile ASTM D2000	Butyle, Viton
5.	Ball Seat Ring	L.T.Bronze LTB2	St. Steel, Hard Rub.
6.	Fasteners	Carbon Steel CL4	St. Steel

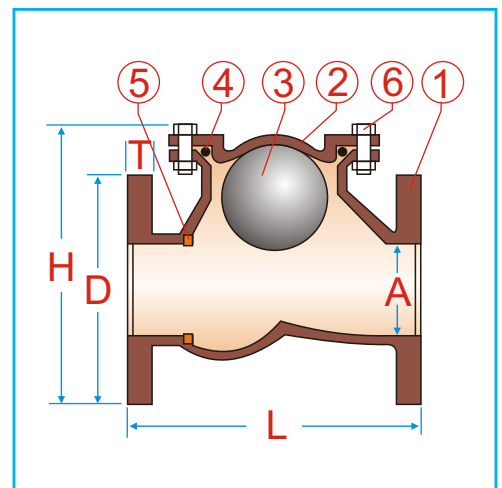
### Dimensions (ØA = Valve size in mm NB)

ØA	25	40	50	65	80	100	125	150	200	250	300	350
ØD	116	151	166	189	201	228	250	290	346	410	486	529
L	143	175	202	241	260	300	352	402	503	600	700	800
H	125	165	185	210	250	285	340	410	505	600	670	835
T (Min)	15	16	17	20	20	22	22	25	24	28	28	32
Width	115	150	166	186	202	221	275	307	375	433	501	535
App wt.(kg)	4.5	6.9	9.2	13.1	19.0	25.0	46.0	60.0	105.0	165.0	223.0	310.0

### Pressure rating

Size	Rating (MPa)	Rating (Kg/Cm <sup>2</sup> )/(Bar)
25 - 125NB	PN 1.6	PN 16
150 - 300NB	PN 1.0	PN 10
350NB	PN 0.6	PN 6

(For CI Construction)





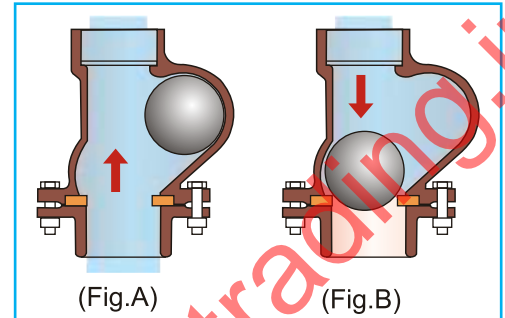
## Ball Check Valve (Threaded) : Model B-06

### 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

- New generation valve with unique and non-conventional Ball Check design.
- This valve is offered in both end-threaded design.
- Suitable for a very wide range of applications like slurry, sewage, paper, chemical, water supply, agriculture, muddy water, slurry, paper stock, viscous liquid and clear water.
- Robust and very simple mechanism.
- A floating reinforced rubber coated ball is used instead of hinge-pin-disc.
- Highly sensible to arrest flow with perfect sealing.
- Very low head loss
- Non clogging and self cleaning mechanism
- Maintenance free
- Power saving
- Installation can be vertically or horizontally
- Operates silently upto 80°C
- This valve has a quality for withstanding consistent performance and longer life.



### Pressure rating

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

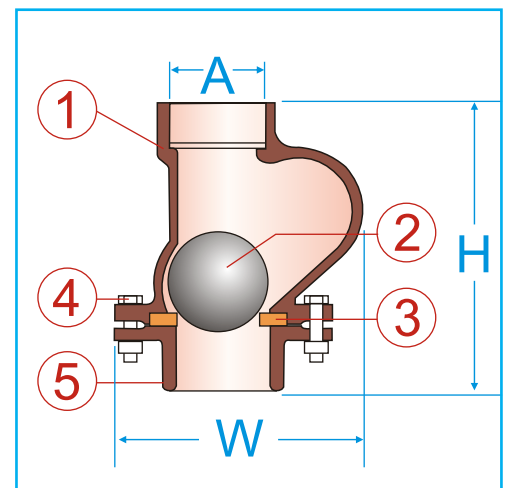
(For CI Construction)

### Part List / Materials of Construction

Part Description	Material
1. Body	Cast Iron - IS210, FG200 (min) / GG25
2. Ball	Nitrile Rubber Coated
3. Seat Ring	Nitrile ASTM D-2000 / L.T. Bronze (100MM Size Only)
4. Fastener	Carbon Steel CL4
5. Adaptor	Cast Iron - IS210, FG200 (min) / GG25

### Dimensions (∅A = Valve size in mm NB)

∅A	25	32	40	50	65	80	100
H	125	147	146	173	210	260	293
W	114	117	125	130	170	205	265
APP. Wt.(kg)	1.5	2.0	1.8	3.3	5.8	8.5	13.0



## 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 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 both side flanged 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 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.

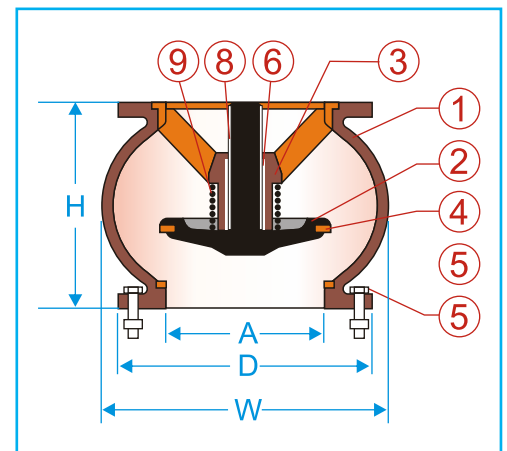
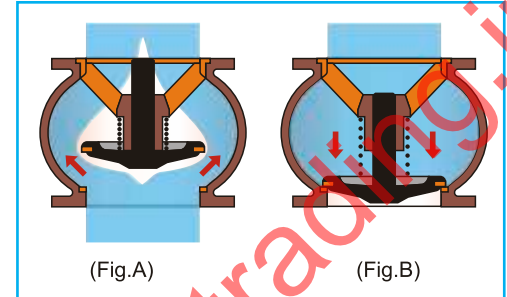
### Dimensions (ØA = Valve size in mm NB)

Size (ØA) (mm)	40	50	65	80	100	150	200	250	300	350	400
ØD	148	165	185	203	229	306	342	406	457	527	590
W	88	105	130	156	200	260	346	430	500	600	686
H	88	102	123	142	175	234	290	365	398	475	580

### Part List / Materials of Construction

Part	Description	Standard	Special on request
1.	Body	Cast Iron IS210, FG200 (min) / GG25	Cast Steel / St. Steel
2.	Closing disc	S. G. Iron GGG40	Cast Steel / St. Steel
3.	Guide	Cast Iron IS210, FG200 (min) / GG25	Cast Steel / St. Steel
4.	Sealing ring	Nitrile ASTM D2000	Neoprene, Viton, Teflon etc.
5.	Seat ring	L. T. Bronze IS31 8- LTB2	St. Steel / Teflon (PTFE)
6.	Guide brush	L. T. Bronze IS318-LTB2	St. Steel / Teflon (PTFE)
7.	Fasteners	Carbon Steel CL4	
8.	Sleeve	SS304	
9.	Spring*	Spring steel / Stainless Steel	

\*Note : Not recommended for air application



### Pressure rating

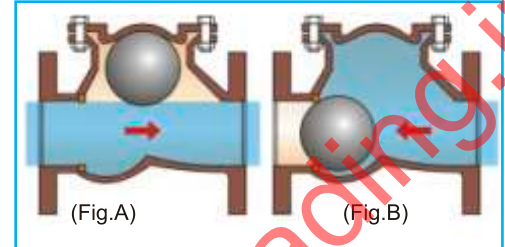
Size	Rating (MPa)	Rating (Kg/Cm <sup>2</sup> )/(Bar)
40 - 125NB	PN 1.6	PN 16
150 - 300NB	PN 1.0	PN 10
350 - 400NB	PN 0.6	PN 6

(For CI Construction)

## Rubber Lined/FRP Lined 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 6to 10mm.



### ■ Features of the Valve

- New generation valve with unique and non-conventional Wall Check design.
- This check valve is offered with inside lining of Rubber/FRP
- The selection of elastomer can be offered depending on chemicals/abrasives handled.
- Most suitable valve for handling chemicals/abrasives
- Suitable for handling corrosive and erosive fluids
- Robust and very simple mechanism.
- A floating reinforced rubber coated ball is used instead of hinge-pin-disc.
- Highly sensible to arrest flow with perfect sealing.
- Very low head loss
- Non clogging and self cleaning mechanism
- Maintenance free
- Power saving
- Large solid handling capacity
- Dimensionally conforming with IS 5312. Length more by 6 to 10mm
- Installation can be vertically or horizontally
- Operates silently upto 80°C
- This valve has a quality for withstanding consistent performance and longer life.



### ■ Pressure rating

Size	Rating (MPa)	Rating (Kg/Cm <sup>2</sup> )/(Bar)
25 - 100NB	PN 1.6	PN 16
150 - 300NB	PN 1.0	PN 10
350NB	PN 0.6	PN 6

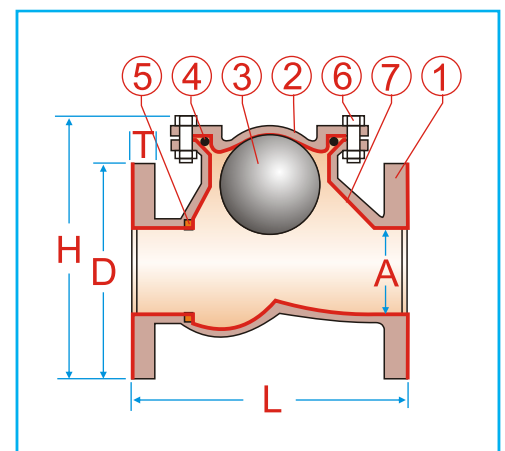
(For CI Construction)

### ■ Part List / Materials of Construction

Part	Description	Standard	Special
1.	<b>Body</b>	Cast Iron IS210, FG200 (min) / GG25	St. Steel, Cast Steel
2.	<b>Cover</b>	Cast Iron GG 25	St. Steel, Cast Steel
3.	<b>Ball</b>	Nitrile Rubbercoated	EPDM, Neoprene
4.	<b>Cover Ring</b>	Nitrile ASTM D2000	EPDM, Neoprene
5.	<b>Ball Seat Ring</b>	Integral of rubber	
6.	<b>Fasteners</b>	Carbon Steel CL4	St. Steel
7.	<b>Rubber Lining</b>	Ebonite Rubber	

### ■ Dimensions (ØA = Valve size in mm NB)

ØA	25	40	50	65	80	100	125	150	200	250	300	350
ØD	116	151	166	189	201	228	250	290	346	410	486	529
L	143	175	202	241	260	300	352	402	503	600	700	800
H	125	165	185	210	250	285	340	410	505	600	670	835
T (Min)	15	16	17	20	20	22	22	25	24	28	28	32
Width	115	150	166	186	202	221	275	307	375	433	501	535
App wt.(kg)	4.5	6.9	9.2	13.1	19.0	25.0	46.0	60.0	105.0	165.0	223.0	310.0



\* This length is without lining. With lining, total length shall be 6-12mm more and flange thickness 3-6mm more depending on lining thickness.

## Wafer Check Valves Model : WCV / WSP

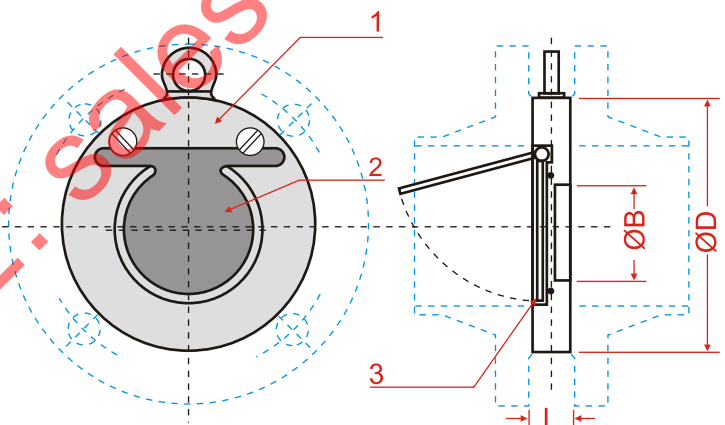
### ■ Salient Features

- 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				L (For Type WCV)
mm	in	BØ	DØ	
25	1.0	15	64	16
40	1.5	22	81	16
50	2	30	96	16
65	2.5	40	109	16
80	3	52	130	16
100	4	71	160	16
125	5	93	190	16
150	6	114	213	19
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
450	18	360	532	51
500	20	406	585	60
600	24	490	687	70



### ■ Part List / Materials of Construction

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

### ■ Technical Data

PRESSURE RATING	PN10&PN16
Types	Without spring (WCV) & spring loaded (WSP)
Sizes	40mm to 600mm
PN rating	PN1.6 / PN 1.0 KPa
Temperature	20°C to 220°C
Installation	Horizontal /Vertical
Flanges	Between any standard flanges

### ■ Installation

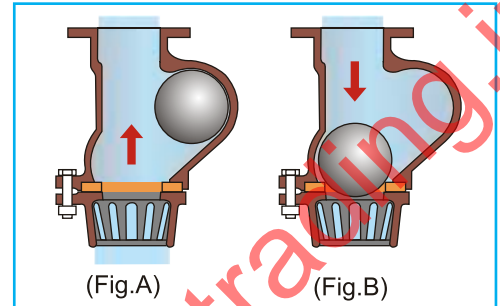
- 1) Normex Wafer Check valves can be installed between any two standard flanges.
- 2) The outside diameter of valve is designed considering the minimum P.C.D. available in various flange standards.
- 3) The valve should be centered between the outside diameter of the pipe flanges simultaneously while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



## 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



### ■ Features of the Valve

- New generation valve
- This valve is offered in one side flanged & strainer to the other side design
- Suitable for a very wide range of applications like slurry, sewage, paper, chemical, water supply, agriculture, muddy water, slurry, paper stock, viscous liquid and clear water. Robust and very simple mechanism.
- A floating reinforced rubber coated ball is used instead of hinge-pin-seat. Highly sensible to arrest flow with perfect sealing.
- Very low head loss
- Non clogging and self cleaning mechanism Maintenance free Power saving
- Large solid handling capacity Operates silently upto 80°C
- This valve has a quality for withstanding consistent performance and longer life.



### ■ Part List / Materials of Construction

Part	Description	Material
1.	Body	Cast Iron - IS210, FG200 (min) / GG25
2.	Strainer	Cast Iron - IS210, FG200 (min) / GG25
3.	Ball	Nitrile Rubber Coated
4.	Seat Ring	Nitrile ASTM D2000 L.T. Bronze IS318-LTB2
5.	Fastener	Carbon Steel CL4

### ■ Pressure rating

Size	Rating (MPa)	Rating (Kg/Cm <sup>2</sup> )/(Bar)
50 - 200NB	PN 0.6	PN 6

(For CI Construction)

### ■ Dimensions (ØA = Valve size in mm NB)

ØA	50	65	80	100	125	150	200
ØD	168	186	202	228	254	290	340
L	180	240	270	320	370	440	537
W	135	165	205	260	285	385	462
T	14	15	15	18	16	17	18
APP. Wt (kg)	4.9	7.8	11.3	16	22.1	38.0	86

## 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

- New generation valve with unique and non-conventional design.
- This valve is offered in one side flanged & strainer to the other side design,
- Heavy duty foot valve. Most suitable where suction pressure is on higher side
- Suitable for a very wide range of applications like slurry, sewage, paper, chemical, water supply, agriculture, muddy water, slurry, paper stock, viscous liquid and clear water.
- Robust and very simple mechanism.
- A floating reinforced rubber coated ball is used instead of hinge-pin-disc.
- Highly sensible to arrest flow with perfect sealing.
- Very low head loss
- Non clogging and self cleaning mechanism
- Maintenance free
- Power saving
- Large solid handling capacity
- Operates silently upto 80°C
- This valve has a quality for withstanding consistent performance and longer life.

**Note :** Model B-05 is higher pressure rated foot Valve. This is a check Valve with strainer attached used as foot Valve. To be used where ever very high pressure in suction line.

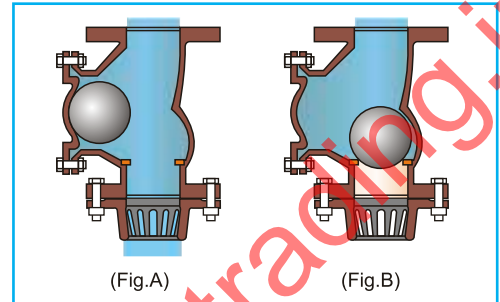
Generally Model B-05 (N) is a recommended foot Valve for most applications. (Above valid for Sizes 25 - 350mm)

### ■ Part List / Materials of Construction

Part	Description	Material
1.	Body	Cast Iron - IS210, FG200 (min) / GG25
2.	Cover	Cast Iron - IS210, FG200 (min) / GG25
3.	Ball	Nitrile Rubber Coated
4.	Cover Ring	Nitrile ASTM D2000
5.	SeatRing	L.T.Bronze/IS318-LTB2
6.	Fastener	Carbon Steel CL4
7.	Strainer	Cast Iron - IS210, FG200 (min) / GG25

### ■ Dimensions (∅A = Valve size in mm NB)

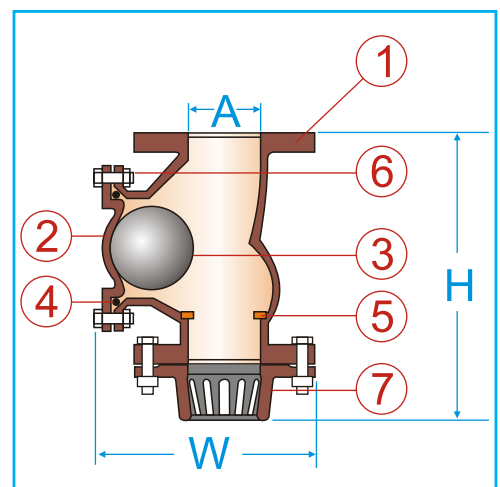
∅A	25	40	50	65	80	100	125	150	200	250	300	350
∅D	116	151	166	189	201	228	250	290	346	410	486	529
L	188	220	250	306	320	375	427	517	633	755	855	1000
H	125	165	185	210	250	285	340	410	505	600	670	835
T (Min)	15	16	17	20	20	22	22	25	24	28	28	32
Width	115	150	166	186	202	221	275	307	375	433	501	535
App wt.(kg)	5.0	7.4	10.0	14.5	20.6	28.4	49.5	66.5	112.0	182.0	240.0	328.0



### ■ Pressure rating

Size	Rating (MPa)	Rating (Kg/Cm <sup>2</sup> )/(Bar)
25 - 125NB	PN 1.6	PN 16
150 - 300NB	PN 1.0	PN 10
350 NB	PN 0.6	PN 6

(For CI Construction)



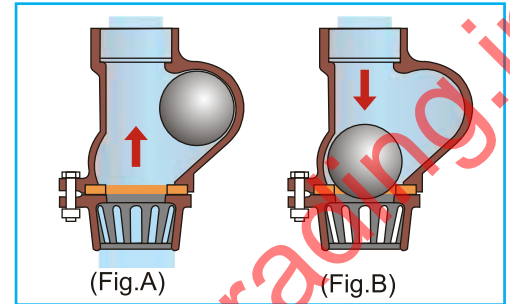
## Ball Foot Valve (Threaded) : Model B-04

### 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

- New generation valve with unique and non-conventional Ball Check design.
- This valve is offered in one side threaded and other side strainer design.
- Suitable for a very wide range of applications like slurry, sewage, paper, chemical, water supply, agriculture, muddy water, slurry, paper stock, viscous liquid and clear water.
- Robust and very simple mechanism.
- A floating reinforced rubber coated ball is used instead of hinge-pin-disc.
- Highly sensible to arrest flow with perfect sealing.
- Very low head loss
- Non clogging and self cleaning mechanism
- Maintenance free
- Power saving
- Large solid handling capacity
- Installation can be vertically or horizontally
- Operates silently upto 80°C
- This valve has a quality for withstanding consistent performance and longer life.



### Pressure rating

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

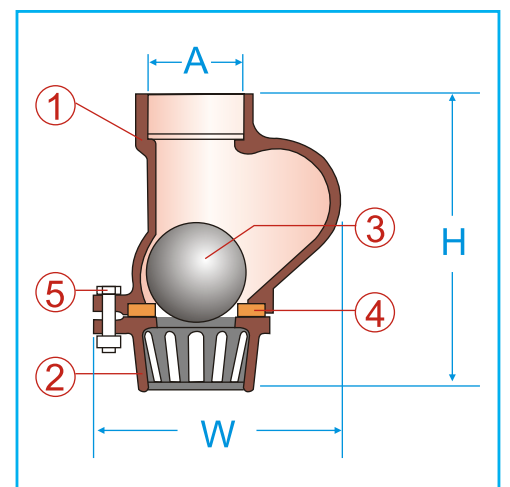
(For CI Construction)

### Part List / Materials of Construction

Part	Description	Material
1.	Body	Cast Iron - IS210, FG200 (min) / GG25
2.	Strainer	Cast Iron - IS210, FG200 (min) / GG25
3.	Ball	Nitrile Rubber Coated
4.	Seat Ring	25 - 80NB = Nitrile ASTM D-2000 100NB = L.T.BRONZE (LTB-2)
5.	Fastener	Carbon Steel CL4

### Dimensions (∅A = Valve size in mm NB)

∅A	25	32	40	50	65	80	100
H	144	160	158	185	235	265	308
W	114	117	125	130	170	205	265
APP. Wt.(kg)	1.6	1.9	1.7	3.1	4.9	7.7	12.6



## 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.

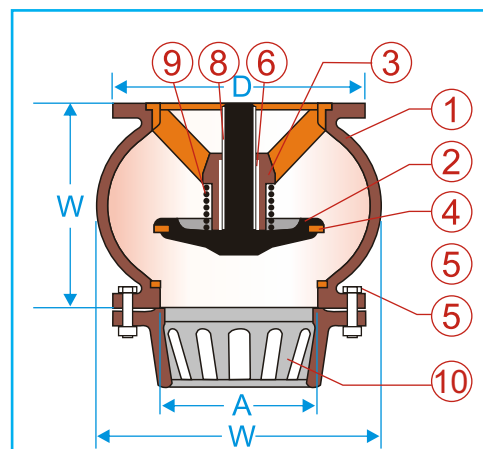
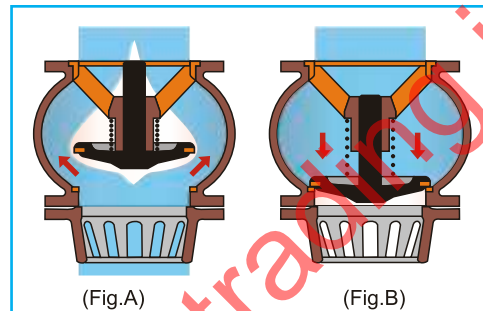
### Dimensions (ØA = Valve size in mm NB)

Size (ØA) (mm)	40	50	65	80	100	150	200	250	300	350	400
ØD	148	165	185	203	229	285	342	406	457	527	590
W	88	105	128	156	200	264	346	430	500	600	686
H	133	150	188	202	250	349	420	520	553	675	780

### Part List / Materials of Construction

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

\*Note : Not recommended for air application



### Pressure rating

Size	Rating (MPa)	Rating (Kg/Cm <sup>2</sup> )/(Bar)
40 - 125NB	PN 1.6	PN 16
150 - 300NB	PN 1.0	PN 10
350 - 400NB	PN 0.6	PN 6

(For CI Construction)



**Normex Butterfly Valve** (Available with  mark)

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
- Irrigation
- Chemical Industries
- Steel mills
- Sugar factories / Breweries
- Sewage / Effluent treatment
- Process Industries
- Seawater & Brine pumping
- Food Processing Industries
- Mining Industries
- Petrochemical Industries

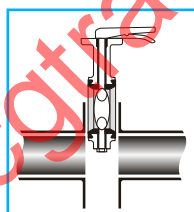


Actuator Mounted

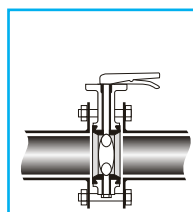


Gear Box Mounted

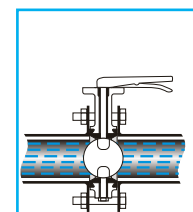
■ **Installation Procedure**



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.

## Parts List & Materials

Part	Description	STD. MODE OF CONSTRUCTION	OPTIONS
1.	Body	Cast Iron, GG - 251 IS -210 FG-260 / BS-1452Gr. 260	SG Iron, GGG 40 Cast Steel (WCB) Stainless Steel CF8 / CF8M
2.	DISC	SG Iron, GGG 40 IS- 1 865 SG 400 / 1 21 BS - 2789 Gr. 240/12	Cast Steel (WCB) Stainless Steel CF8 / CF8M Aluminium Bronze IS 305 Gr2
3.	SEAT	Black Nitrile	Cast Steel / St. Steel
4.	SHAFTS	AISI410	AISI304 / AISI316
5.	BEARING	Sliding Bearing MU	PTFE
6.	'O' RINGS	Nitrile	EPDM, Neoprene
7.	BUSH	Polyacetal (Delrin)	PTFE
8.	TAPER PIN	Al Si 4 10 / 304	AISI316
9.	PLUG	Carbon Steel	-
10.	HAND LEVER	MS	CI / SGI / SS

## 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	56	64	73	79	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	240	240	240	240	330	330	500	500	-	-	-
Wt.(kg)	2.1	2.8	3.4	3.6	4.6	6.3	8.7	12.2	25.0	32.0	64.5	69.4	-

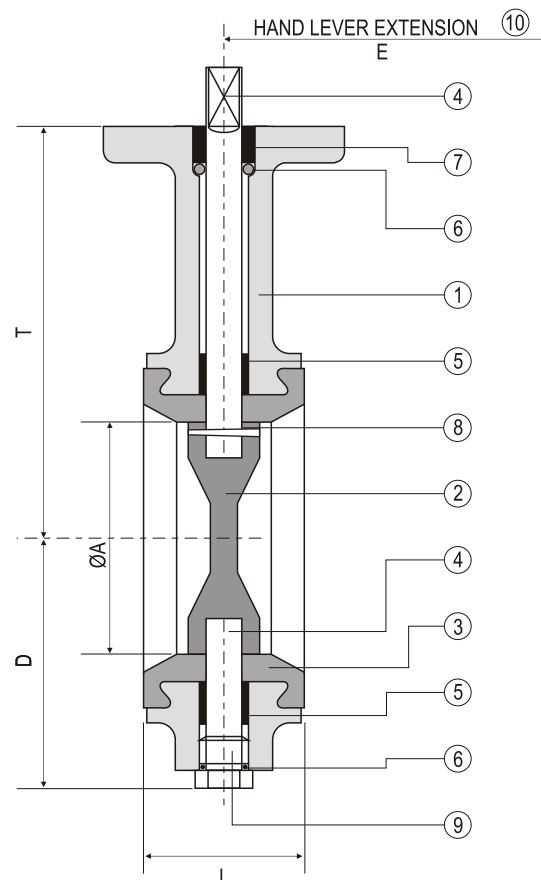
Note: Size up to 250 mm with H / L 300 mm and above, with gear box

## Technical Data

PRESSURE RATING	PN1.6 / 1.0 KPa (16/10 bar)
PRESSURE TESTING	a) Body : 1.5 x PN b) Seat : 1.1xPN
TEMPERATURE	(-)40°C to 200°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

## 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).




[www.cgtrading.in](http://www.cgtrading.in) E: [sales@cgtrading.in](mailto:sales@cgtrading.in)