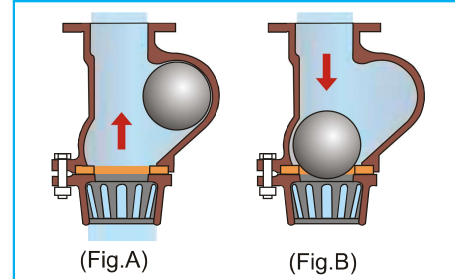


Ball Foot Valve (Flanged) : Model B-05 (N)

■ 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 ²)/(Bar)
50 - 200NB	PN 0.6	PN 6

(For CI Construction)

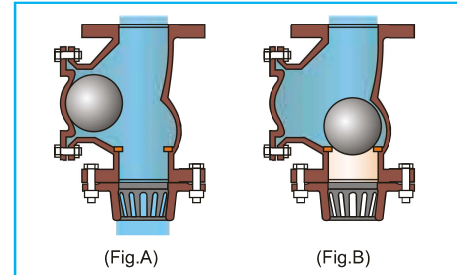
■ Dimensions (∅A = Valve size in mm NB)

∅A	50	65	80	100	125	150	200
∅D	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)

■ Pressure rating

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

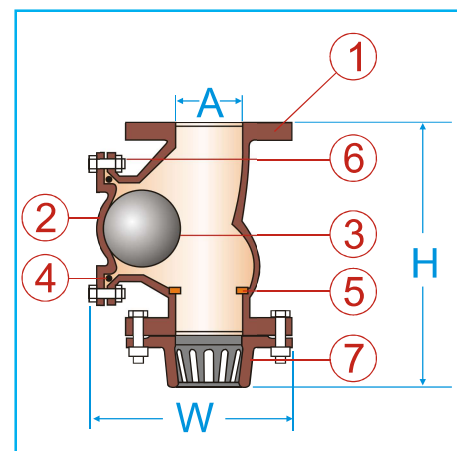
(For CI Construction)

■ 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.	Seat Ring	L.T.Bronze/SS318-LTB2
6.	Fastener	Carbon Steel CL4
7.	Strainer	Cast Iron - IS210, FG200 (min) / GG25

■ Dimensions (ØA = Valve size in mm NB)

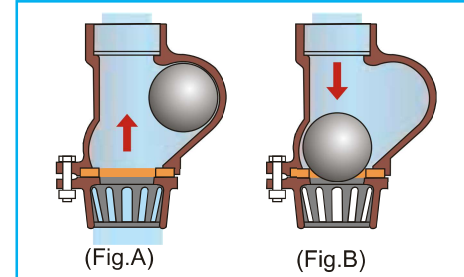
ØA	25	40	50	65	80	100	125	150	200	250	300	350
ØD	116	151	166	189	201	228	250	290	346	410	486	529
L	188	220	250	306	320	375	427	517	633	755	855	1000
H	125	165	185	210	250	285	340	410	505	600	670	835
T (Min)	15	16	17	20	20	22	22	25	24	28	28	32
Width	115	150	166	186	202	221	275	307	375	433	501	535
App wt.(kg)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



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 ²)/(Bar)
25 - 100NB	PN 0.6	PN 6

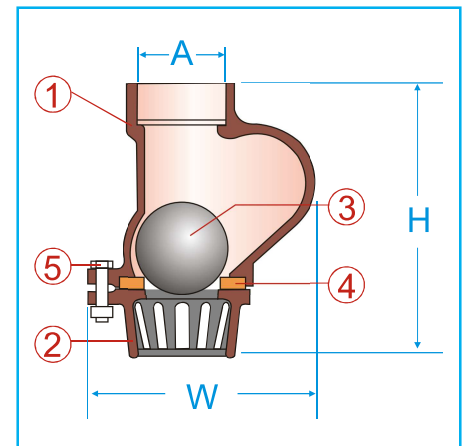
(For CI Construction)

■ Part List / Materials of Construction

Part	Description	Material
1.	Body	Cast Iron - IS210, 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)

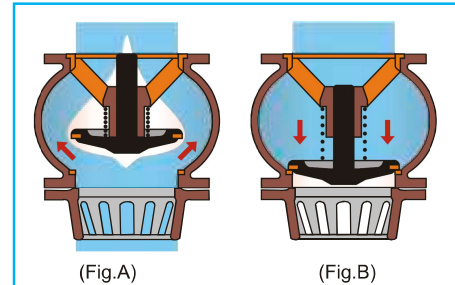
∅A	25	32	40	50	65	80	100
H	144	160	158	185	235	265	308
W	114	117	125	130	170	205	265
APP. Wt.(kg)	1.6	1.9	1.7	3.1	4.9	7.7	12.6



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.



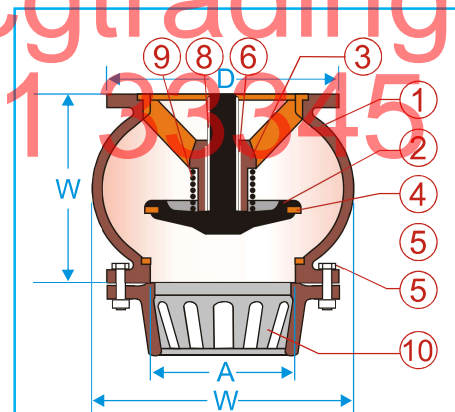
■ Features of the Valve

- 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 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	
10.	Strainer	Cast Iron - IS210, FG200 (min) / GG25	

*Note : Not recommended for air application

■ Pressure rating

Size	Rating (MPa)	Rating (Kg/Cm ²)/(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)