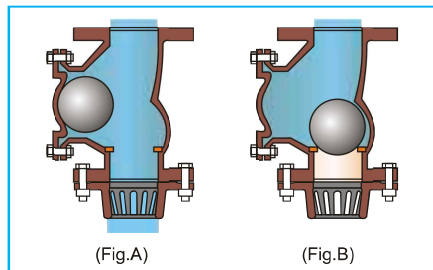


## Ball Foot Valve (Flanged) : Model B-05

### 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 <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)

### 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.BronzelS318-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

