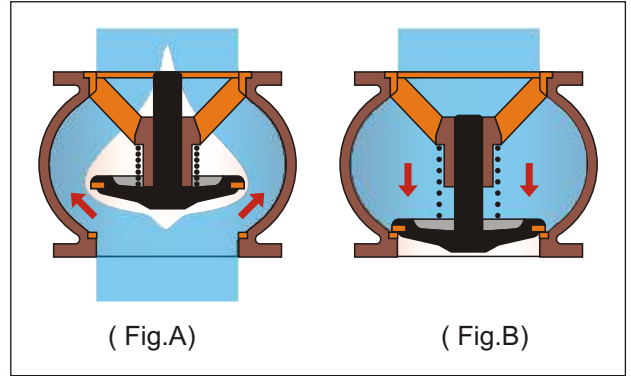


## Principle

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
- Working principal hydrodynamic guided closing
- 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 oC
- This valve has a quality for withstanding consistent performance and longer life.



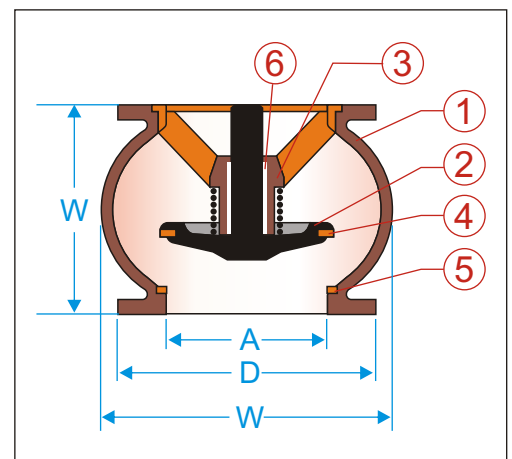
## Pressure rating

Size 150 - 300 mm = PN 16  
 350 mm = PN 16

Body test : 1.5 times rated Pressure  
 Seat test : 1.1 times rated Pressure

## Dimensions

Size(A) (mm)	D	W	H
40	150	85	85
50	165	105	100
65	185	128	120
80	200	156	140
100	220	194	170
150	285	264	230
200	340	346	290
250	406	430	355
300	457	500	398
350	527	600	475
400	578	686	560



## Part List / Materials of Construction

Part	Description	Standard	Special
1	Body	Cast Iron	Cast Steel / St. Steel
2	Closing disc	S. G. Iron	Cast Steel / St. Steel
3	Guide	Cast Iron	Cast Steel / St. Steel
4	Sealing ring	Nitrile Rubber	Neoprene, Viton, Teflon etc.
5	Seat ring	L. T. Bronze	St. Steel / Teflon (PTFE)
6	Guide brush	L. T. Bronze	St. Steel / Teflon (PTFE)