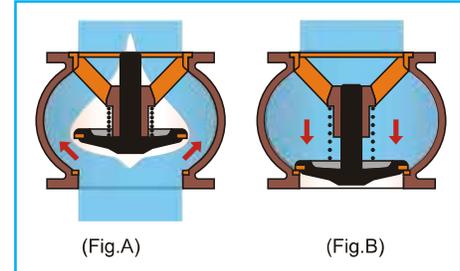


## Silent Check Valve : Model H - 01

### ■ 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.



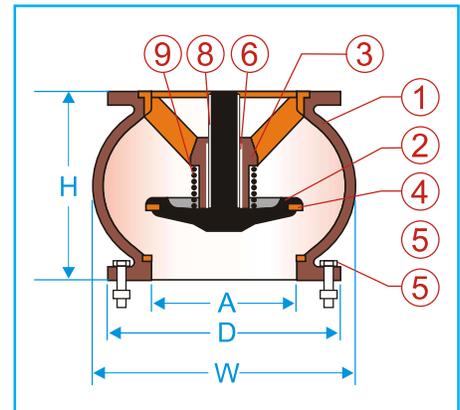
### ■ Features of the Valve

- 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)