

JFS

BEIJING JOINT FLOW SYSTEM CO.



CHECK VALVE



SILENT TYPE CHECK VALVE

INTRODUCTION

Silent type Check Valve is the preferred solution for critical non-return applications such as the protection of rotating equipment and systems where low pressure loss, stable operation and dynamic behaviour are essential. This design can be used in a wide range of critical and demanding service applications, such as fast-reversing reciprocating compressor system or in installations where the check valve must be placed in close proximity to the pump inlet or outlet.



FEATURE

- Axial flow
Streamlined flow path through full-port expanded body avoids turbulence and prevents erosion and vibration. Process downtime and maintenance costs are eliminated.
- Easy opening
The low static pressure in the throat area is applied behind the disc and creates a pressure differential over the disc, resulting in easy opening.
- Non-slam operation
The spring-assisted design ensures ultra-fast closing without backflow and pressure surges, in critical applications such as multi-pump systems.
- Water hammer free
Water hammer problems are eliminated with this design because of the spring loaded disc, properly sized for your specific application, low mass and short closure stroke.
The spring initiates disc closure of the disc before water hammer effects can occur.
- A simple loose guide bushing for the shaft is provided made of the same material as the shaft. This bushing is held in place by the spring, so that in the event it is considered necessary to take the valve apart in the field, the bushings can be easily removed by hand.

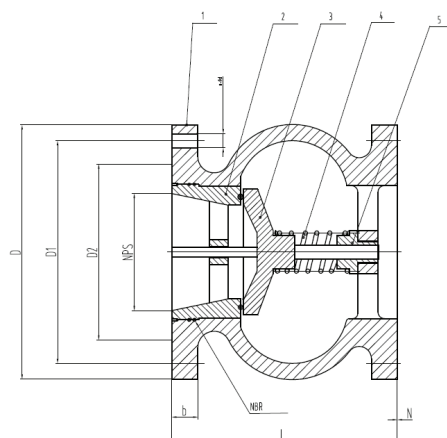
TEST DATA

Nominal Diameter DN (mm)	200 - 900	
Nominal Pressure PN (MPa)	2.0 (Class 125&150)	5.0 (Class 250&300)
Hydraulic Shell Test Pressure (MPa)	2.2	5.5
Hydraulic Seal Test Pressure (MPa)	3.0	7.5

*More test specifications are available on request.

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PARTS LIST AND MATERIAL



No.	Parts Name	Material
1	Body	Cast Iron/Ductile Iron/WCB
2	Disc	Bronze/Stainless Steel
3	Spring	Stainless Steel
4	Baffle	Bronze/Stainless Steel
5	Stem Sleeve	Copper Alloy

*More material specifications are available on request.

DIMENSION

DN	200	250	300	350	400	450	500	600	750	900
NPS	8"	10"	12"	14"	16"	18"	20"	24"	30"	36
L	257	305	362	400	448	476	524	610	743	1143

*More dimension specifications are available on request.