DSS® VALVES



# Severe Service Check Valves

AIS AMERICAN IRON & STEEL COMPLIANT

BAA BUY AMERICAN ACT COMPLIANT

DSSVALVES.COM

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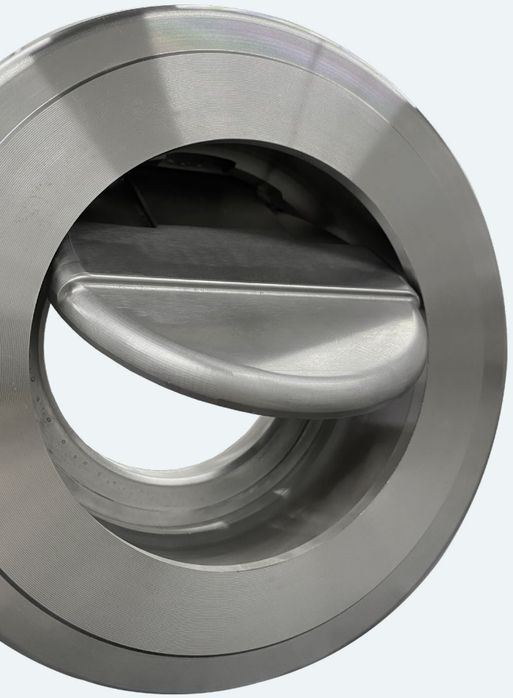
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# Introducing DSS Severe Service Check Valves

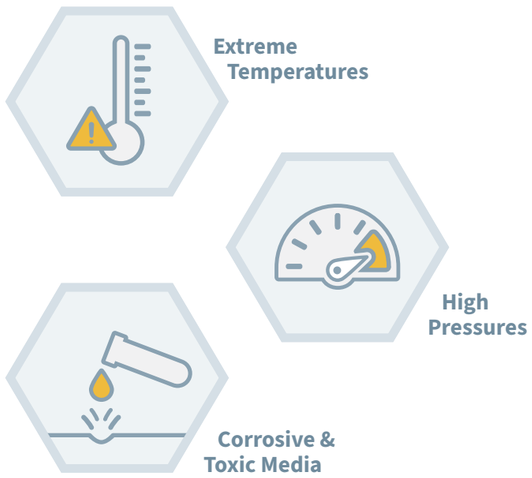
Too long have Check Valves been an after-thought for industrial processes. The time has come to improve this portion of the industry.

We put our severe service design and manufacturing experience to the test to tackle this problem. We also hired experts who have spent entire careers studying Check Valves. The result? The world's finest Severe Service Check Valve (SSCKV) on the market today.

## Why a Severe Service Check Valve?

There are many severe service applications where conventional Check Valves are unacceptable. The risk they impose on the piping system is too great.

Our SSCKV provides repeatable non-return function and cannot release fugitive emissions to atmosphere. The design also handles:






## Engineered SSCKVs

Design teams often overlook Check Valves during the creation of piping systems. Implementing failure-prone conventional designs result in unreliable non-return function.

The poor reputation of Check Valves leads end-users to put little thought into their selection. Unfortunately, this lack of foresight can end up causing pump damage, process inefficiencies, and even catastrophic failure.

DSS understands Check Valve failure modes, and has designed an advanced product to succeed where typical valves fail.






## Designed for Severe Service™

DSS Valves is comprised of industry veterans who have spent decades learning and perfecting Severe Service Valves.

Our company has built a reputation for starting with the building blocks of a Severe Service Valve, and then improving it to the next generation. This is the same approach we have taken with our SSCKV design.

## American Made

DSS is dedicated to creating American Made Severe Service Valves. When it comes to our Severe Service Check Valves, 100% of the components are sourced from US-based vendors, with the final assembly taking place in Niles, MI.

We are fully compliant with American Iron and Steel (AIS) provisions, and are proud to also be compliant with the Buy American Act (BAA).

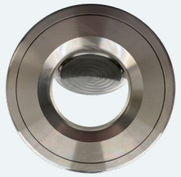
# Problems We Solve



**PROBLEM:** **Fugitive Emissions**

**SOLUTION:** • Retainerless body • Engineered interference fit between body and seat insert

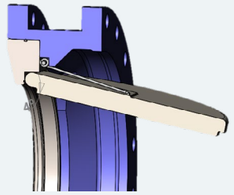
Eliminating fugitive emissions is a major focus of the industry and our retainerless body removes potential leakage paths that exists in other Check Valves. Previous generations of Severe Service Check Valves had inherent design flaws and were never truly *engineered*.



**PROBLEM:** **Pressure Drop**

**SOLUTION:** • Minimally obstructed bore • Engineered flow path

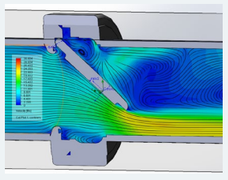
Our disc swings mostly out of the flow path producing a large bore with minimal obstructions; this results in very low pressure drop. Additionally, we have engineered the geometry of the bore using CFD software to improve flow characteristics over previous generation Severe Service Check Valves.



**PROBLEM:** **Disc/Obturator Breakage**

**SOLUTION:** • Single piece disc/shaft/hinge

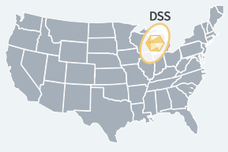
Conventional Check Valves use discs that are comprised of as many as seven different components, and they're usually built to sloppy tolerances. It is common to find Check Valve disc components that have traveled downstream causing damage to pumps and other equipment. DSS replaces all of these components with one integral piece that cannot come loose and travel downstream. We have also engineered this component based on experience and with the aid of FEA tools to make improvements to critical locations to provide the longest service life.



**PROBLEM:** **Failures Due to Slamming**

**SOLUTION:** • Proper Check Valve sizing

The leading cause of Check Valve failures is due to oversized bores which leads to slamming. We have optimized the size of our disc and the geometry of our inlet to overcome many of these slamming concerns. Additionally, we have the capability to run sizing calculations using CFD software to create custom sized bores while maintaining external dimensions to remove the need for piping modifications.




**PROBLEM:** **Lead Time**

**SOLUTION:** • Integrated supply chain • Investment in inventory

Previous generation Severe Service Check Valves typically come with very long lead times. Utilizing our nimble supply chain and multiple manufacturing partners within driving distance of our factory, we can provide large bore valves, high alloys, and high-pressure class valves in a fraction of the time it takes our competitors.

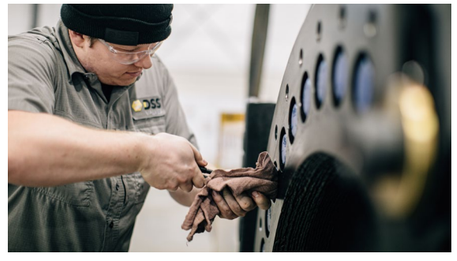


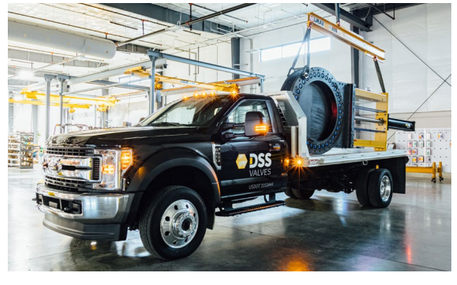



## About DSS Valves

Based in Niles, Michigan, DSS Valves is a team of engineering and manufacturing professionals with decades of experience in creating premier Severe Service Knife Gate Valves and Severe Service Check Valves for Oil & Gas, Mining, Steel, Pulp & Paper, and Water/Wastewater industries.

We specialize in creating valves that thrive in the harshest environments and our products are known for handling high differential pressure scenarios, corrosive materials, and extreme temperatures.

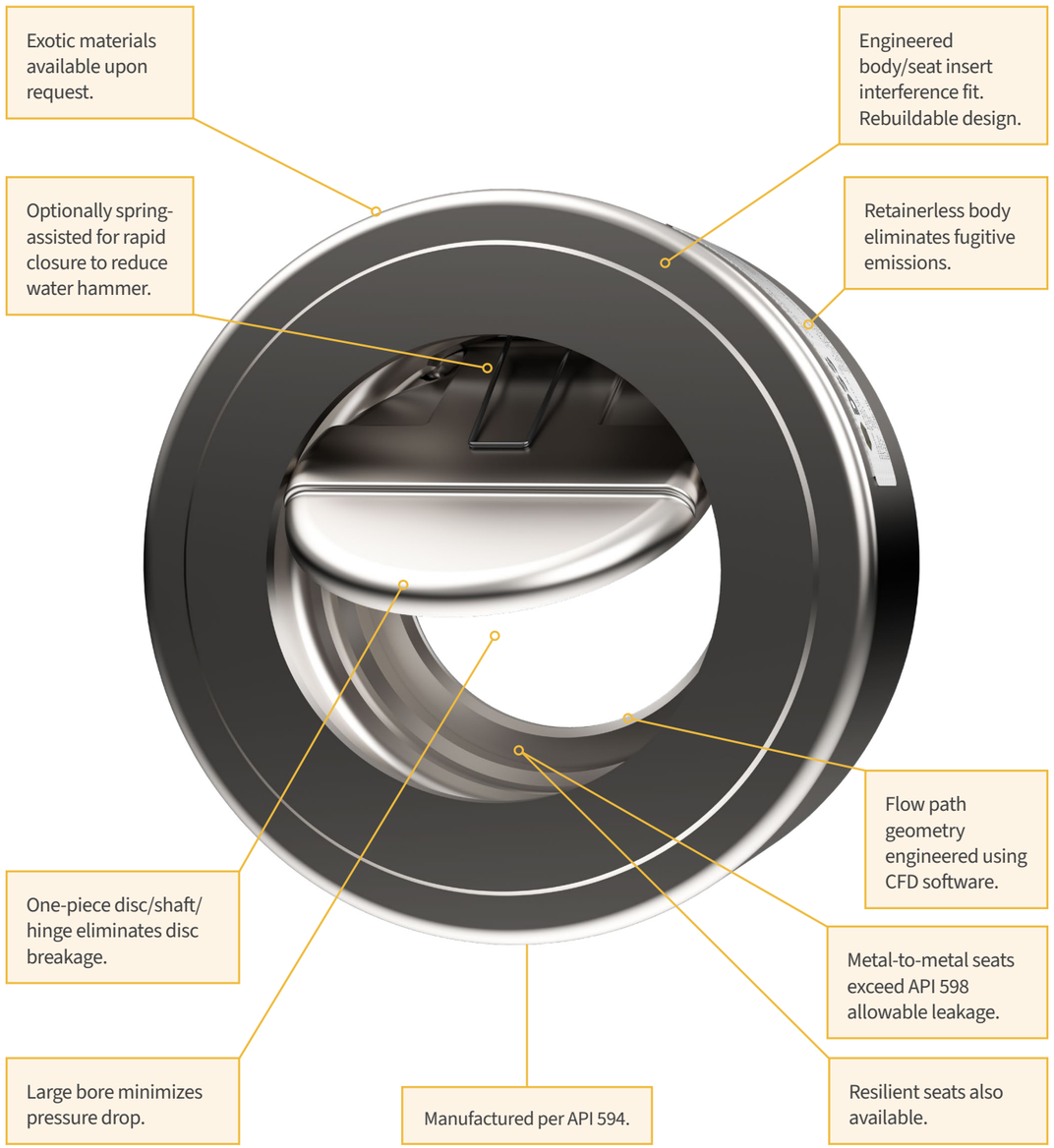




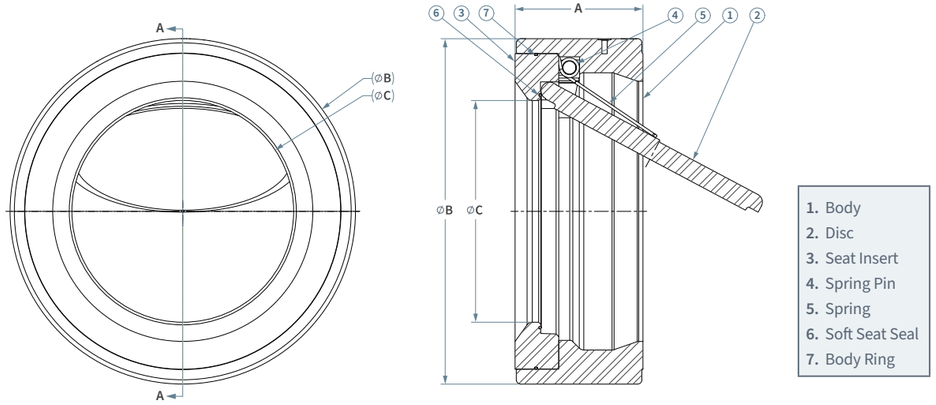


# Severe Service Check Valve

## Features and Benefits



# Swing Check Valve — **Wafer**

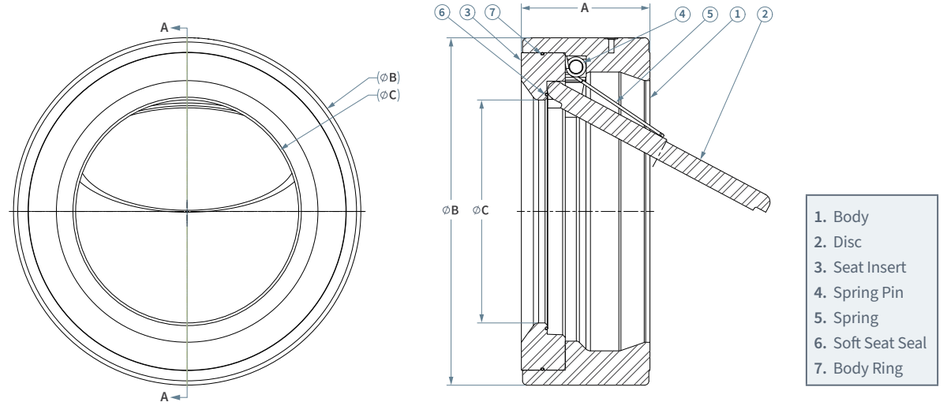



1. Body
2. Disc
3. Seat Insert
4. Spring Pin
5. Spring
6. Soft Seat Seal
7. Body Ring

| Class | NPS | A — Face To Face | B — Wafer OD | C — Bore ID | Flange Facing |
|---|---|---|---|---|---|
| 150 | 1 | 1.88 | 2.63 | 0.88 | RF/FF |
| 300 | 1 | 1.88 | 2.88 | 0.88 | RF/FF |
| 600 | 1 | 1.88 | 2.88 | 0.88 | RF/FF |
| 900 | 1 | 1.88 | 3.13 | 0.88 | RF/R16 |
| 1500 | 1 | 1.88 | 3.13 | 0.88 | RF/R16 |
| 2500 | 1 | 2.13 | 3.38 | 0.88 | RF/R18 |
| 150 | 1 1/2 | 2.38 | 3.38 | 1.31 | RF/FF |
| 300 | 1 1/2 | 2.38 | 3.75 | 1.31 | RF/FF |
| 600 | 1 1/2 | 2.38 | 3.75 | 1.31 | RF/FF |
| 900 | 1 1/2 | 2.38 | 3.88 | 1.31 | RF/R20 |
| 1500 | 1 1/2 | 2.38 | 3.88 | 1.31 | RF/R20 |
| 2500 | 1 1/2 | 2.75 | 4.63 | 1.31 | RF/R23 |
| 150 | 2 | 2.38 | 4.13 | 1.75 | RF/FF |
| 300 | 2 | 2.38 | 4.38 | 1.75 | RF/FF |
| 600 | 2 | 2.38 | 4.38 | 1.75 | RF/FF |
| 900 | 2 | 2.75 | 5.63 | 1.75 | RF/R24 |
| 1500 | 2 | 2.75 | 5.63 | 1.75 | RF/R24 |
| 2500 | 2 | 2.75 | 5.75 | 1.75 | RF/R26 |
| 150 | 3 | 2.88 | 5.38 | 2.75 | RF/FF |
| 300 | 3 | 2.88 | 5.88 | 2.75 | RF/FF |
| 600 | 3 | 2.88 | 5.88 | 2.56 | RF/R31 |
| 900 | 3 | 3.25 | 6.50 | 2.56 | RF/R31 |
| 1500 | 3 | 3.25 | 6.88 | 2.56 | RF/R35 |
| 2500 | 3 | 3.38 | 7.75 | 2.56 | RF/R32 |



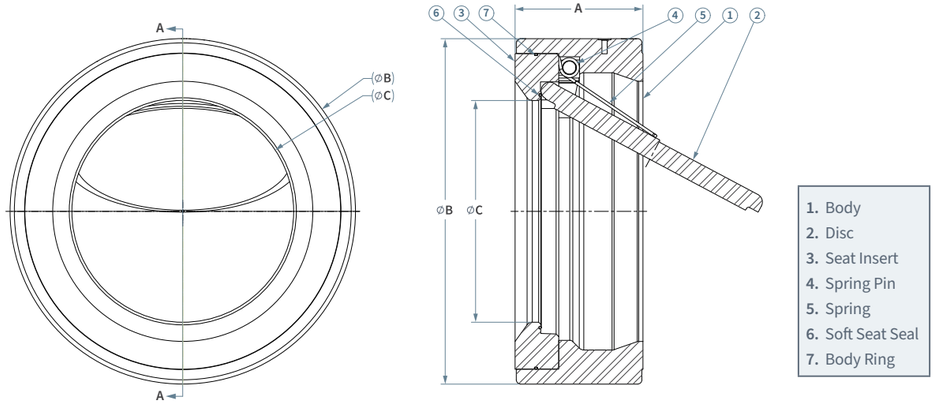
# Swing Check Valve — **Wafer**




1. Body
2. Disc
3. Seat Insert
4. Spring Pin
5. Spring
6. Soft Seat Seal
7. Body Ring

| Class | NPS | A — Face To Face | B — Wafer OD | C — Bore ID | Flange Facing |
|---|---|---|---|---|---|
| 150 | 4 | 2.88 | 6.88 | 3.38 | RF/FF |
| 300 | 4 | 2.88 | 7.13 | 3.38 | RF/FF |
| 600 | 4 | 3.13 | 7.63 | 3.38 | RF/R37 |
| 900 | 4 | 4.00 | 8.13 | 3.38 | RF/R37 |
| 1500 | 4 | 4.00 | 8.25 | 3.38 | RF/R39 |
| 2500 | 4 | 4.12 | 9.25 | 3.38 | RF/R38 |
| 150 | 6 | 3.88 | 8.75 | 4.75 | RF/FF |
| 300 | 6 | 3.88 | 9.88 | 4.75 | RF/FF |
| 600 | 6 | 5.38 | 10.50 | 4.75 | RF/R45 |
| 900 | 6 | 6.25 | 11.38 | 4.75 | RF/R45 |
| 1500 | 6 | 6.25 | 11.13 | 4.75 | RF/R46 |
| 2500 | 6 | 6.25 | 12.50 | 4.75 | RF/R47 |
| 150 | 8 | 5.00 | 11.00 | 6.75 | RF/FF |
| 300 | 8 | 5.00 | 12.13 | 6.75 | RF/FF |
| 600 | 8 | 6.50 | 12.63 | 6.75 | RF/R49 |
| 900 | 8 | 8.12 | 14.13 | 6.75 | RF/R49 |
| 1500 | 8 | 8.12 | 13.88 | 6.75 | RF/R50 |
| 2500 | 8 | 8.12 | 15.25 | 6.75 | RF/R51 |
| 150 | 10 | 5.75 | 13.38 | 8.00 | RF/FF |
| 300 | 10 | 5.75 | 14.25 | 8.00 | RF/FF |
| 600 | 10 | 8.38 | 15.75 | 8.00 | RF/R53 |
| 900 | 10 | 9.50 | 17.13 | 8.00 | RF/R53 |
| 1500 | 10 | 9.75 | 17.13 | 7.75 | RF/R54 |
| 2500 | 10 | 10.00 | 18.75 | 7.75 | RF/R55 |

# Swing Check Valve — **Wafer**

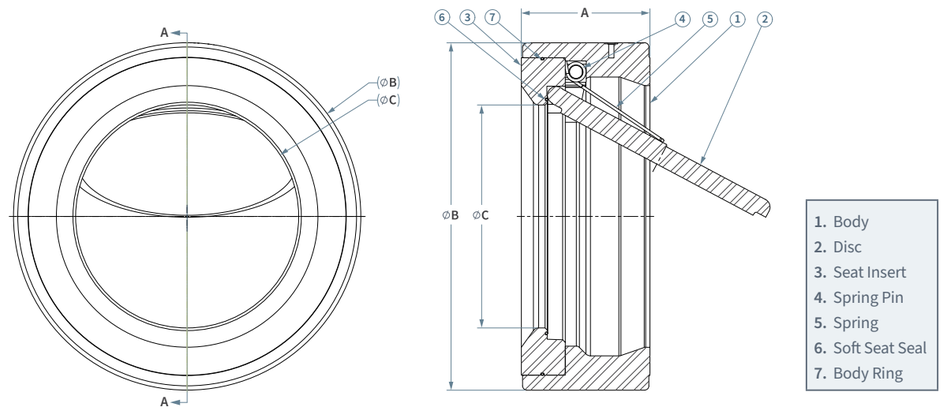



1. Body
2. Disc
3. Seat Insert
4. Spring Pin
5. Spring
6. Soft Seat Seal
7. Body Ring

| Class | NPS | A — Face To Face | B — Wafer OD | C — Bore ID | Flange Facing |
|---|---|---|---|---|---|
| 150 | 12 | 7.13 | 16.13 | 9.88 | RF/FF |
| 300 | 12 | 7.13 | 16.63 | 9.88 | RF/FF |
| 600 | 12 | 9.00 | 18.00 | 9.88 | RF/R57 |
| 900 | 12 | 11.50 | 19.63 | 9.88 | RF/R57 |
| 1500 | 12 | 12.00 | 20.50 | 9.50 | RF/R58 |
| 2500 | 12 | 12.00 | 21.63 | 9.50 | RF/R60 |
| 150 | 14 | 7.25 | 17.75 | 11.50 | RF/FF |
| 300 | 14 | 8.75 | 19.13 | 11.50 | RF/FF |
| 600 | 14 | 10.75 | 19.38 | 11.50 | RF/R61 |
| 900 | 14 | 14.00 | 20.50 | 11.50 | RF/R62 |
| 1500 | 14 | 14.00 | 22.75 | 11.00 | RF/R63 |
| 150 | 16 | 7.50 | 20.25 | 13.00 | RF/FF |
| 300 | 16 | 9.13 | 21.25 | 13.00 | RF/FF |
| 600 | 16 | 12.00 | 22.25 | 13.00 | RF/R65 |
| 900 | 16 | 15.12 | 22.63 | 13.00 | RF/R66 |
| 1500 | 16 | 15.12 | 25.25 | 12.50 | RF/R67 |
| 150 | 18 | 8.00 | 21.63 | 14.50 | RF/FF |
| 300 | 18 | 10.38 | 23.50 | 14.50 | RF/FF |
| 600 | 18 | 14.25 | 24.13 | 14.50 | RF/R69 |
| 900 | 18 | 17.75 | 25.13 | 14.50 | RF/R70 |
| 1500 | 18 | 18.44 | 25.00 | 13.50 | RF/R71 |
| 150 | 20 | 8.63 | 23.88 | 15.75 | RF/FF |
| 300 | 20 | 11.50 | 25.75 | 15.75 | RF/FF |
| 600 | 20 | 14.50 | 26.88 | 15.75 | RF/R73 |
| 900 | 20 | 17.75 | 27.50 | 15.75 | RF/R74 |
| 1500 | 20 | 21.00 | 29.75 | 15.25 | RF/R75 |



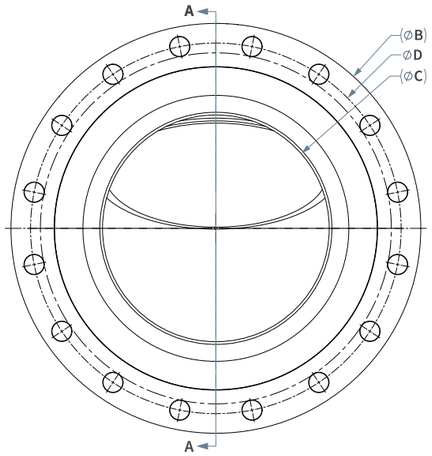
# Swing Check Valve — **Wafer**

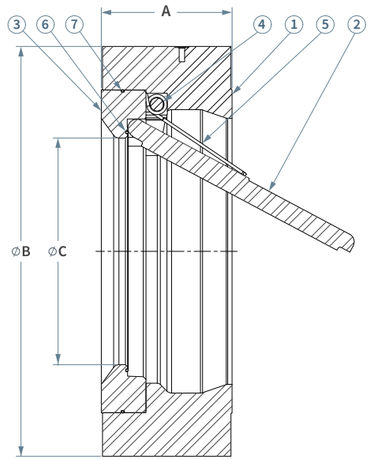



1. Body
2. Disc
3. Seat Insert
4. Spring Pin
5. Spring
6. Soft Seat Seal
7. Body Ring

| Class | NPS | A — Face To Face | B — Wafer OD | C — Bore ID | Flange Facing |
|---|---|---|---|---|---|
| 150 | 22 | 8.75 | 26.00 | 17.50 | RF/FF |
| 300 | 22 | 12.00 | 27.75 | 17.50 | RF/FF |
| 600 | 22 | 15.88 | 27.75 | 17.50 | RF/R81 |
| 150 | 24 | 8.75 | 28.25 | 19.50 | RF/FF |
| 300 | 24 | 12.50 | 30.50 | 19.50 | RF/FF |
| 600 | 24 | 17.25 | 31.13 | 19.50 | RF/R77 |
| 900 | 24 | 19.50 | 33.00 | 19.50 | RF/R78 |
| 1500 | 24 | 22.00 | 35.50 | 18.25 | RF/R79 |
| 150 | 26 | 8.75 | 30.50 | 20.50 | RF/FF |
| 300 | 26 | 12.50 | 32.88 | 20.50 | RF/FF |
| 150 | 28 | 12.00 | 32.75 | 21.50 | RF/FF |
| 300 | 28 | 14.50 | 35.38 | 21.50 | RF/FF |
| 150 | 30 | 12.00 | 34.75 | 22.00 | RF/FF |
| 300 | 30 | 14.50 | 37.50 | 22.00 | RF/FF |
| 600 | 30 | 19.88 | 38.25 | 22.00 | RF/R95 |
| 150 | 32 | 14.00 | 37.00 | 24.00 | RF/FF |
| 300 | 32 | 14.50 | 39.63 | 24.00 | RF/FF |
| 150 | 36 | 14.50 | 41.25 | 26.50 | RF/FF |
| 300 | 36 | 19.00 | 44.00 | 26.50 | RF/FF |
| 600 | 36 | 25.00 | 44.50 | 26.50 | RF/R98 |
| 150 | 38 | 15.75 | 43.75 | 28.50 | RF/FF |
| 150 | 40 | 17.00 | 45.75 | 30.00 | RF/FF |
| 150 | 42 | 17.00 | 48.00 | 31.50 | RF/FF |
| 300 | 42 | 22.38 | 45.88 | 31.50 | RF/FF |
| 600 | 42 | 27.62 | 48.00 | 31.50 | RF |
| 150 | 48 | 20.62 | 54.50 | 36.00 | RF/FF |
| 300 | 48 | 24.75 | 52.13 | 35.00 | RF/FF |

# Swing Check Valve — **Lug Wafer**



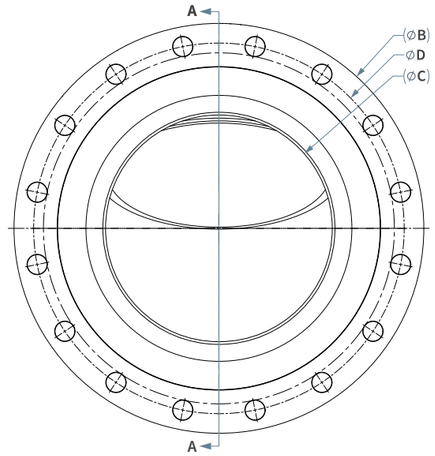



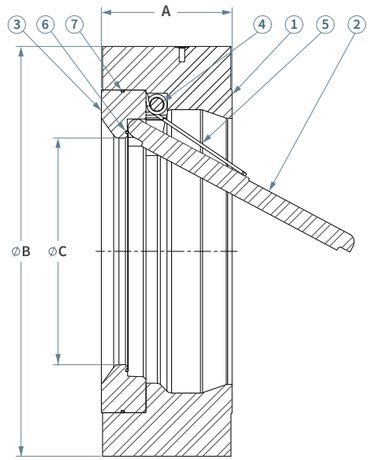

1. Body
2. Disc
3. Seat Insert
4. Spring Pin
5. Spring
6. Soft Seat Seal
7. Body Ring

| | | | | | | Drilling | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Class | NPS | A — Face To Face [inch] | B — Flange OD [inch] | C — Bore ID [inch] | Flange Facing | D — Diam. of Bolt Circle [inch] | No. of Bolt Holes | Diam. of Bolt Holes | Diam. of Bolt [inch] | Thread |
| 150 | 1 | 1.88 | 4.25 | 0.88 | RF/FF | 3.12 | 4 | 5/8 | 1/2 | 1/2-13 |
| 300 | 1 | 1.88 | 4.88 | 0.88 | RF/FF | 3.50 | 4 | 3/4 | 5/8 | 5/8-11 |
| 600 | 1 | 1.88 | 4.88 | 0.88 | RF/FF | 3.50 | 4 | 3/4 | 5/8 | 5/8-11 |
| 900 | 1 | 1.88 | 5.88 | 0.88 | RF/R16 | 4.00 | 4 | 1 | 7/8 | 7/8-9 |
| 1500 | 1 | 1.88 | 5.88 | 0.88 | RF/R16 | 4.00 | 4 | 1 | 7/8 | 7/8-9 |
| 2500 | 1 | 2.13 | 6.25 | 0.88 | RF/R18 | 4.25 | 4 | 1 | 7/8 | 7/8-9 |
| 150 | 1 1/2 | 2.38 | 5.00 | 1.31 | RF/FF | 3.88 | 4 | 5/8 | 1/2 | 1/2-13 |
| 300 | 1 1/2 | 2.38 | 6.12 | 1.31 | RF/FF | 4.50 | 4 | 7/8 | 3/4 | 3/4-10 |
| 600 | 1 1/2 | 2.38 | 6.12 | 1.31 | RF/FF | 4.50 | 4 | 7/8 | 3/4 | 3/4-10 |
| 900 | 1 1/2 | 2.38 | 7.00 | 1.31 | RF/R20 | 4.88 | 4 | 1 1/8 | 1 | 1-8 |
| 1500 | 1 1/2 | 2.38 | 7.00 | 1.31 | RF/R20 | 4.88 | 4 | 1 1/8 | 1 | 1-8 |
| 2500 | 1 1/2 | 2.75 | 8.00 | 1.31 | RF/R23 | 5.75 | 4 | 1 1/4 | 1 1/8 | 1 1/8-8 |
| 150 | 2 | 2.38 | 6.00 | 1.75 | RF/FF | 4.75 | 4 | 3/4 | 5/8 | 5/8-11 |
| 300 | 2 | 2.38 | 6.50 | 1.75 | RF/FF | 5.00 | 8 | 3/4 | 5/8 | 5/8-11 |
| 600 | 2 | 2.38 | 6.50 | 1.75 | RF/FF | 5.00 | 8 | 3/4 | 7/8 | 7/8-9 |
| 900 | 2 | 2.75 | 8.50 | 1.75 | RF/R24 | 6.50 | 8 | 1 | 7/8 | 7/8-9 |
| 1500 | 2 | 2.75 | 8.50 | 1.75 | RF/R24 | 6.50 | 8 | 1 | 7/8 | 7/8-9 |
| 2500 | 2 | 2.75 | 9.25 | 1.75 | RF/R26 | 6.75 | 8 | 1 1/8 | 1 | 1-8 |
| 150 | 2 1/2 | 2.62 | 7.00 | 1.88 | RF/FF | 5.50 | 4 | 3/4 | 5/8 | 5/8-11 |
| 300 | 2 1/2 | 2.62 | 7.50 | 1.88 | RF/FF | 5.88 | 8 | 7/8 | 3/4 | 3/4-10 |
| 600 | 2 1/2 | 2.62 | 7.50 | 1.88 | RF/FF | 5.88 | 8 | 7/8 | 3/4 | 3/4-10 |
| 900 | 2 1/2 | 3.25 | 9.62 | 1.88 | RF/R27 | 7.50 | 8 | 1 1/8 | 1 | 1-8 |
| 1500 | 2 1/2 | 3.25 | 9.62 | 1.75 | RF/R27 | 7.50 | 8 | 1 1/8 | 1 | 1-8 |
| 2500 | 2 1/2 | 3.25 | 10.50 | 1.75 | RF/R28 | 7.75 | 8 | 1 1/4 | 1 1/8 | 1 1/8-8 |



# Swing Check Valve — **Lug Wafer**

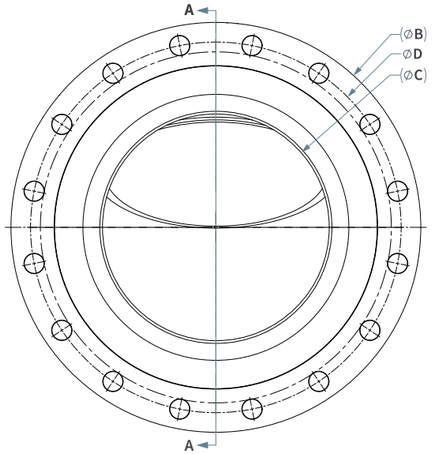


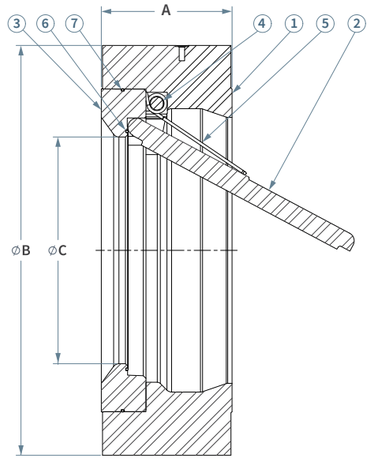




1. Body
2. Disc
3. Seat Insert
4. Spring Pin
5. Spring
6. Soft Seat Seal
7. Body Ring

| | | | | | | Drilling | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Class | NPS | A — Face To Face [inch] | B — Flange OD [inch] | C — Bore ID [inch] | Flange Facing | D — Diam. of Bolt Circle [inch] | No. of Bolt Holes | Diam. of Bolt Holes | Diam. of Bolt [inch] | Thread |
| 150 | 3 | 2.88 | 7.50 | 2.75 | RF/FF | 6.00 | 4 | 3/4 | 5/8 | 5/8-11 |
| 300 | 3 | 2.88 | 8.25 | 2.75 | RF/FF | 6.62 | 8 | 7/8 | 3/4 | 3/4-10 |
| 600 | 3 | 2.88 | 8.25 | 2.56 | RF/R31 | 6.62 | 8 | 7/8 | 3/4 | 3/4-10 |
| 900 | 3 | 3.25 | 9.50 | 2.56 | RF/R31 | 7.50 | 8 | 7/8 | 3/4 | 3/4-10 |
| 1500 | 3 | 3.25 | 10.50 | 2.56 | RF/R35 | 8.00 | 8 | 1 1/4 | 1 1/8 | 1 1/8-8 |
| 2500 | 3 | 3.38 | 12.00 | 2.56 | RF/R32 | 9.00 | 8 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 150 | 4 | 2.88 | 9.00 | 3.38 | RF/FF | 7.50 | 8 | 3/4 | 5/8 | 5/8-11 |
| 300 | 4 | 2.88 | 10.00 | 3.38 | RF/FF | 7.88 | 8 | 7/8 | 3/4 | 3/4-10 |
| 600 | 4 | 3.13 | 10.75 | 3.38 | RF/R37 | 8.50 | 8 | 1 | 7/8 | 7/8-9 |
| 900 | 4 | 4.00 | 11.50 | 3.38 | RF/R37 | 9.25 | 8 | 1 1/4 | 1 1/8 | 1 1/8-8 |
| 1500 | 4 | 4.00 | 12.25 | 3.38 | RF/R39 | 9.50 | 8 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 2500 | 4 | 4.12 | 14.00 | 3.38 | RF/R38 | 10.75 | 8 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 150 | 6 | 3.88 | 11.00 | 4.75 | RF/FF | 9.50 | 8 | 7/8 | 3/4 | 3/4-10 |
| 300 | 6 | 3.88 | 12.50 | 4.75 | RF/FF | 10.62 | 12 | 7/8 | 3/4 | 3/4-10 |
| 600 | 6 | 5.38 | 14.00 | 4.75 | RF/R45 | 11.50 | 12 | 1 1/8 | 1 | 1-8 |
| 900 | 6 | 6.25 | 15.00 | 4.75 | RF/R45 | 12.50 | 12 | 1 1/4 | 1 1/8 | 1 1/8-8 |
| 1500 | 6 | 6.25 | 15.50 | 4.75 | RF/R46 | 12.50 | 12 | 1 1/2 | 1 3/8 | 1 3/8-8 |
| 2500 | 6 | 6.25 | 19.00 | 4.75 | RF/R47 | 14.50 | 8 | 2 1/8 | 2 | 2-8 |
| 150 | 8 | 5.00 | 13.50 | 6.75 | RF/FF | 11.75 | 8 | 7/8 | 3/4 | 3/4-10 |
| 300 | 8 | 5.00 | 15.00 | 6.75 | RF/FF | 13.00 | 12 | 1 | 7/8 | 7/8-9 |
| 600 | 8 | 6.50 | 16.50 | 6.75 | RF/R49 | 13.75 | 12 | 1 1/4 | 1 1/8 | 1 1/8-8 |
| 900 | 8 | 8.12 | 18.50 | 6.75 | RF/R49 | 15.50 | 12 | 1 1/2 | 1 3/8 | 1 3/8-8 |
| 1500 | 8 | 8.12 | 19.00 | 6.75 | RF/R50 | 15.50 | 12 | 1 3/4 | 1 5/8 | 1 5/8-8 |
| 2500 | 8 | 8.12 | 21.75 | 6.75 | RF/R51 | 17.25 | 12 | 2 1/8 | 2 | 2-8 |

# Swing Check Valve — **Lug Wafer**



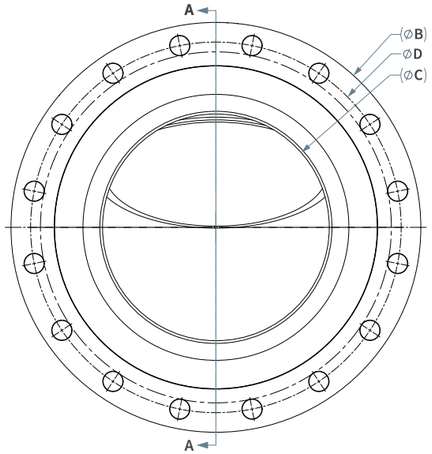



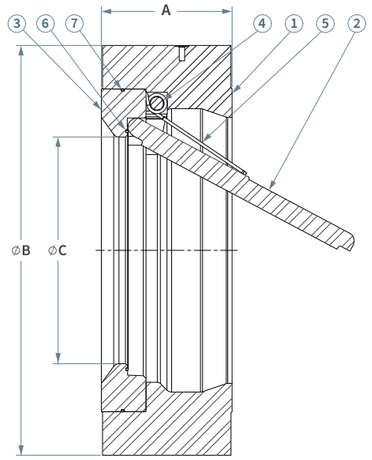

1. Body
2. Disc
3. Seat Insert
4. Spring Pin
5. Spring
6. Soft Seat Seal
7. Body Ring

| | | | | | | Drilling | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Class | NPS | A — Face To Face [inch] | B — Flange OD [inch] | C — Bore ID [inch] | Flange Facing | D — Diam. of Bolt Circle [inch] | No. of Bolt Holes | Diam. of Bolt Holes | Diam. of Bolt [inch] | Thread |
| 150 | 10 | 5.75 | 16.00 | 8.00 | RF/FF | 14.25 | 12 | 1 | 7/8 | 7/8-9 |
| 300 | 10 | 5.75 | 17.50 | 8.00 | RF/FF | 15.25 | 16 | 1 1/8 | 1 | 1-8 |
| 600 | 10 | 8.38 | 20.00 | 8.00 | RF/R53 | 17.00 | 16 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 900 | 10 | 9.50 | 21.50 | 8.00 | RF/R53 | 18.50 | 16 | 1 1/2 | 1 3/8 | 1 3/8-8 |
| 1500 | 10 | 9.75 | 23.00 | 7.75 | RF/R54 | 19.00 | 12 | 2 | 1 7/8 | 1 7/8-8 |
| 2500 | 10 | 10.00 | 26.50 | 7.75 | RF/R55 | 21.25 | 12 | 2 5/8 | 2 1/2 | 2 1/2-8 |
| 150 | 12 | 7.13 | 19.00 | 9.88 | RF/FF | 17.00 | 12 | 1 | 7/8 | 7/8-9 |
| 300 | 12 | 7.13 | 20.50 | 9.88 | RF/FF | 17.75 | 16 | 1 1/4 | 1 1/8 | 1 1/8-8 |
| 600 | 12 | 9.00 | 22.00 | 9.88 | RF/R57 | 19.25 | 20 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 900 | 12 | 11.50 | 24.00 | 9.88 | RF/R57 | 21.00 | 20 | 1 1/2 | 1 3/8 | 1 3/8-8 |
| 1500 | 12 | 12.00 | 26.50 | 9.50 | RF/R58 | 22.50 | 16 | 2 1/8 | | FALSE |
| 2500 | 12 | 12.00 | 30.00 | 9.50 | RF/R60 | 24.38 | 12 | 2 7/8 | 2 3/4 | 2 3/4-8 |
| 150 | 14 | 7.25 | 21.00 | 11.50 | RF/FF | 18.75 | 12 | 1 1/8 | 1 | 1-8 |
| 300 | 14 | 8.75 | 23.00 | 11.50 | RF/FF | 20.25 | 20 | 1 1/4 | 1 1/8 | 1 1/8-8 |
| 600 | 14 | 10.75 | 23.75 | 11.50 | RF/R61 | 20.75 | 20 | 1 1/2 | 1 3/8 | 1 3/8-8 |
| 900 | 14 | 14.00 | 25.25 | 11.50 | RF/R62 | 22.00 | 20 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 1500 | 14 | 14.00 | 29.50 | 11.00 | RF/R63 | 25.00 | 16 | 2 3/8 | 2 1/4 | 2 1/4-8 |
| 150 | 16 | 7.50 | 23.50 | 13.00 | RF/FF | 21.25 | 16 | 1 1/8 | 1 | 1-8 |
| 300 | 16 | 9.13 | 25.50 | 13.00 | RF/FF | 22.50 | 20 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 600 | 16 | 12.00 | 27.00 | 13.00 | RF/R65 | 23.75 | 20 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 900 | 16 | 15.12 | 27.75 | 13.00 | RF/R66 | 24.25 | 20 | 1 3/4 | 1 5/8 | 1 5/8-8 |
| 1500 | 16 | 15.12 | 32.50 | 12.50 | RF/R67 | 27.75 | 16 | 2 5/8 | 2 1/2 | 2 1/2-8 |



# Swing Check Valve — **Lug Wafer**

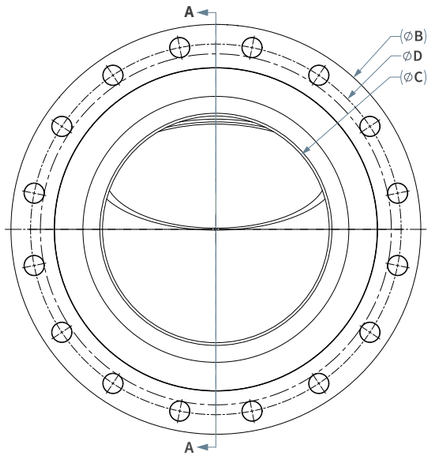


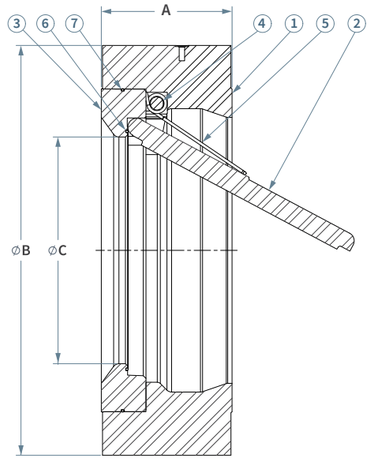




1. Body
2. Disc
3. Seat Insert
4. Spring Pin
5. Spring
6. Soft Seat Seal
7. Body Ring

| | | | | | | Drilling | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Class | NPS | A — Face To Face [inch] | B — Flange OD [inch] | C — Bore ID [inch] | Flange Facing | D — Diam. of Bolt Circle [inch] | No. of Bolt Holes | Diam. of Bolt Holes | Diam. of Bolt [inch] | Thread |
| 150 | 18 | 8.00 | 25.00 | 14.50 | RF/FF | 22.75 | 16 | 1 1/4 | 1 1/8 | 1 1/8-8 |
| 300 | 18 | 10.38 | 28.00 | 14.50 | RF/FF | 24.75 | 24 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 600 | 18 | 14.25 | 29.25 | 14.50 | RF/R69 | 25.75 | 20 | 1 3/4 | 1 5/8 | 1 5/8-8 |
| 900 | 18 | 17.75 | 31.00 | 14.50 | RF/R70 | 27.00 | 20 | 2 | 1 7/8 | 1 7/8-8 |
| 1500 | 18 | 18.44 | 36.00 | 13.50 | RF/R71 | 30.50 | 16 | 2 7/8 | 2 3/4 | 2 3/4-8 |
| 150 | 20 | 8.63 | 27.50 | 15.75 | RF/FF | 25.00 | 20 | 1 1/4 | 1 1/8 | 1 1/8-8 |
| 300 | 20 | 11.50 | 30.50 | 15.75 | RF/FF | 27.00 | 24 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 600 | 20 | 14.50 | 32.00 | 15.75 | RF/R73 | 28.50 | 24 | 1 3/4 | 1 5/8 | 1 5/8-8 |
| 900 | 20 | 17.75 | 33.75 | 15.75 | RF/R74 | 29.50 | 20 | 2 1/8 | 2 | 2-8 |
| 1500 | 20 | 21.00 | 38.75 | 15.25 | RF/R75 | 32.75 | 16 | 3 1/8 | 3 | 3-8 |
| 150 | 22 | 8.75 | 29.50 | 17.50 | RF/FF | 27.25 | 20 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 300 | 22 | 12.00 | 33.00 | 17.50 | RF/FF | 29.25 | 24 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 600 | 22 | 15.88 | 34.25 | 17.50 | RF/R81 | 30.62 | 24 | 1 7/8 | 1 3/4 | 1 3/4-8 |
| 150 | 24 | 8.75 | 32.00 | 19.50 | RF/FF | 29.50 | 20 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 300 | 24 | 12.50 | 36.00 | 19.50 | RF/FF | 32.00 | 24 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 600 | 24 | 17.25 | 37.00 | 19.50 | RF/R77 | 33.00 | 24 | 2 | 1 7/8 | 1 7/8-8 |
| 900 | 24 | 19.50 | 41.00 | 19.50 | RF/R78 | 35.50 | 20 | 2 5/8 | 2 1/2 | 2 1/2-8 |
| 1500 | 24 | 22.00 | 46.00 | 18.25 | RF/R79 | 39.00 | 16 | 3 5/8 | 3 1/2 | 3 1/2-8 |
| 150 | 26 | 8.75 | 34.25 | 20.50 | RF/FF | 31.75 | 24 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 300 | 26 | 12.50 | 38.25 | 20.50 | RF/FF | 34.50 | 28 | 1 3/4 | 1 5/8 | 1 5/8-8 |
| 150 | 28 | 12.00 | 36.50 | 21.50 | RF/FF | 34.00 | 28 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 300 | 28 | 14.50 | 40.75 | 21.50 | RF/FF | 37.00 | 28 | 1 3/4 | 1 5/8 | 1 5/8-8 |

# Swing Check Valve — **Lug Wafer**




1. Body
2. Disc
3. Seat Insert
4. Spring Pin
5. Spring
6. Soft Seat Seal
7. Body Ring

| | | | | | | Drilling | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Class | NPS | A — Face To Face [inch] | B — Flange OD [inch] | C — Bore ID [inch] | Flange Facing | D — Diam. of Bolt Circle [inch] | No. of Bolt Holes | Diam. of Bolt Holes | Diam. of Bolt [inch] | Thread |
| 150 | 30 | 12.00 | 38.75 | 22.00 | RF/FF | 36.00 | 28 | 1 3/8 | 1 1/4 | 1 1/4-8 |
| 300 | 30 | 14.50 | 43.00 | 22.00 | RF/FF | 39.25 | 28 | 1 7/8 | 1 3/4 | 1 3/4-8 |
| 600 | 30 | 19.88 | 44.50 | 22.00 | RF/R95 | 40.25 | 28 | 2 1/8 | 2 | 2-8 |
| 150 | 32 | 14.00 | 41.75 | 24.00 | RF/FF | 38.50 | 28 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 300 | 32 | 14.50 | 45.25 | 24.00 | RF/FF | 41.50 | 28 | 2 | 1 7/8 | 1 7/8-8 |
| 150 | 36 | 14.50 | 46.00 | 26.50 | RF/FF | 42.75 | 32 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 300 | 36 | 19.00 | 50.00 | 26.50 | RF/FF | 46.00 | 32 | 2 1/8 | 2 | 2-8 |
| 600 | 36 | 25.00 | 51.75 | 26.50 | RF/R98 | 47.00 | 28 | 2 5/8 | 2 1/2 | 2 1/2-8 |
| 150 | 38 | 15.75 | 48.75 | 28.50 | RF/FF | 45.25 | 32 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 150 | 40 | 17.00 | 50.75 | 30.00 | RF/FF | 47.25 | 36 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 150 | 42 | 17.00 | 53.00 | 31.50 | RF/FF | 49.50 | 36 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 300 | 42 | 22.38 | 50.75 | 31.50 | RF/FF | 47.50 | 32 | 1 3/4 | 1 5/8 | 1 5/8-8 |
| 600 | 42 | 27.62 | 55.25 | 31.50 | RF | 50.50 | 28 | 2 5/8 | 2 1/2 | 2 1/2-8 |
| 150 | 48 | 20.62 | 59.50 | 36.00 | RF/FF | 56.00 | 44 | 1 5/8 | 1 1/2 | 1 1/2-8 |
| 300 | 48 | 24.75 | 57.75 | 35.00 | RF/FF | 54.00 | 32 | 2 | 1 7/8 | 1 7/8-8 |






## Additional Check Valve models are available.

For our full offering, download our **Check Valve Appendix**:

**dssvalves.com/resources**

Lug | Lug Wafer | Double Flange | Multibody Flanged | Multibody Buttweld

# Ordering Information

| VENDOR MODEL No. | SERIES | CLASS | BODY | SIZE | – | BODY | – | SEAT INSERT | – | DISC | – | SPRING | – | SEAT | – | BODY O-RING | – | BUILD OPT. | – | BUILD OPT. | – | BUILD OPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | 03 | A | 06 | – | SS | – | SS | – | SD | – | NA | – | IM | – | AF | – | C2 | – | C6 | – | 0 |

| SERIES | P/N |
|---|---|
| Swing Check, Single Disc | A |
| Double Disc | B |

| CLASS | P/N |
|---|---|
| ASME Class 150 | 01 |
| ASME Class 300 | 03 |
| ASME Class 600 | 06 |
| ASME Class 900 | 09 |
| ASME Class 1500 | 15 |
| ASME Class 2500 | 25 |
| ASME Class 4500 | 45 |
| API 6A Class 3000 | 3K |
| API 6A Class 5000 | 5K |
| API 6A Class 10000 | 0X |
| API 6A Class 15000 | XV |

| CLASS | P/N |
|---|---|
| PN6 | PA |
| PN10 | PB |
| PN16 | PC |
| PN25 | PD |
| PN40 | PE |
| PN63 | PF |
| PN100 | PG |
| PN160 | PH |
| PN250 | PJ |
| PN320 | PK |
| PN400 | PL |

| BODY | P/N |
|---|---|
| Wafer, Raised Face | A |
| Wafer, Flat Face | B |
| Wafer, Ring Joint | C |
| Lug, Raised Face, Through Bolt Flange | D |
| Lug, Raised Face, Tapped Flange | E |
| Lug, Flat Face, Through Bolt Flange | F |
| Lug, Flat Face, Tapped Flange | G |
| Lug, Ring Joint, Through Bolt Flange | H |
| Lug, Ring Joint, Tapped Flange | J |
| Double Flange, Raised Face, Through Bolt Flange | K |
| Double Flange, Raised Face, Tapped Flange | L |
| Double Flange, Flat Face, Through Bolt Flange | M |
| Double Flange, Flat Face, Tapped Flange | N |
| Double Flange, Ring Joint, Through Bolt Flange | P |
| Double Flange, Ring Joint, Tapped Flange | Q |
| Double Flange, B16.10 F-T-F, Multi Body, Raised Face, Through Bolt Flange | R |
| Double Flange, B16.10 F-T-F, Multi Body, Flat Face, Through Bolt Flange | S |
| Double Flange, B16.10 F-T-F, Multi Body, Ring Joint, Through Bolt Flange | T |
| Hub, Multi Body | U |
| Buttweld, Multi Body | V |
| Uni-Body for B16.10 F-T-F, Swing Check Only, Raised Face, Through Bolt Flange | W |
| Uni-Body for B16.10 F-T-F, Swing Check Only, Flat Face, Through Bolt Flange | X |
| Uni-Body for B16.10 F-T-F, Swing Check Only, Ring Joint, Through Bolt Flange | Y |

| SIZE | P/N |
|---|---|
| 1 Inch | 01 |
| 1.5 Inch | 1H |
| 2 Inch | 02 |
| 2.5 Inch | 2H |
| 3 Inch | 03 |
| 4 Inch | 04 |
| 5 Inch | 05 |
| 6 Inch | 06 |
| 8 Inch | 08 |
| 10 Inch | 10 |
| 12 Inch | 12 |
| 14 Inch | 14 |
| 16 Inch | 16 |
| 18 Inch | 18 |
| 20 Inch | 20 |
| 22 Inch | 22 |
| 24 Inch | 24 |
| 26 Inch | 26 |
| 28 Inch | 28 |
| 30 Inch | 30 |
| 32 Inch | 32 |
| 36 Inch | 36 |
| 40 Inch | 40 |
| 42 Inch | 42 |
| 48 Inch | 48 |
| Other (specify) | XX |

| BODY, SEAT INSERT, AND DISC MATERIALS | P/N |
|---|---|
| 17.4 PH | 17 |
| 304 SS | 4S |
| 316 SS | SS |
| 317 SS | 37 |
| 347H Stainless Steel | 34 |
| 410 SS | 41 |
| 6Mo (Type 254 SMO) | 6M |
| AL6XN | 6X |
| Alloy 20 | A2 |
| AISI 4130 | 30 |
| Bronze (Navy) | 92 |
| Nickel Aluminum Bronze | 95 |
| Carbon Steel | CS |
| Low Temp Carbon Steel (-50F) | LT |
| Duplex 2205 | DS |
| Super Duplex 2507 | SD |
| F5 Chrome-Moly | F5 |
| F9 Chrome-Moly | F9 |
| F11 Chrome-Moly | 11 |
| F22 Chrome-Moly | 22 |
| F91 Chrome-Moly | 91 |
| Hastelloy C-276 | HC |
| Incoloy Alloy 825 | I8 |
| Inconel Alloy 625 | I2 |
| Monel Alloy 400 | M4 |
| Nickel 200 | N2 |
| Titanium Grade 2 | T2 |
| Titanium Grade 5 | T5 |
| Titanium Grade 12 | TT |
| Zirconium | ZI |
| Other (Specify) | XX |

| SPRING MATERIALS | P/N |
|---|---|
| Inconel Alloy X750 | IX |
| Inconel Alloy 600 | I6 |
| Hastelloy Alloy C276 | HC |
| Monel Alloy K500 | MK |
| Elgiloy | EL |
| 316 Stainless Steel | SS |
| Titanium Grade 5 | T5 |
| No Spring | NA |

| SEAT MATERIALS | P/N |
|---|---|
| Aflas [25 to 450°F] | AF |
| NBR (Buna N) [-30 to 250°F] | BN |
| HNBR [-30 to 325°F] | HN |
| FFKM (Chemraz, Kalrez, Markez) [-20 to 610°F] | CH |
| FKM (Viton) [-15 to 437°F] | VI |
| FKM RGD Resistant (Viton) | VR |
| FKM White (Viton) [-15 to 437°F] | VW |
| GFLT Viton [-29 to 437°F] | GF |
| EPDM [-65 to 265°F] | EP |
| EPDM White [-65 to 265] | EW |
| Neoprene [-40 to 250°F] | NE |
| Polyurethane [-30 to 180°F] | PL |
| Teflon [-328 to 500°F] (White in color) | TF |
| Integral Metal to Metal | IM |
| Stellite Overlay-Disc Seat | SD |
| Stellite Overlay-Body Seat | SB |
| Stellite Overlay-Both Seats | SS |
| Special (Specify) | XX |

| BODY O-RING MATERIALS | P/N |
|---|---|
| Aflas [25 to 450°F] | AF |
| NBR (Buna N) [-30 to 250°F] | BN |
| HNBR [-30 to 325°F] | HN |
| FFKM (Chemraz, Kalrez, Markez) [-20 to 610°F] | CH |
| FKM (Viton) [-15 to 437°F] | VI |
| FKM RGD Resistant (Viton) | VR |
| FKM White (Viton) [-15 to 437°F] | VW |
| GFLT Viton [-29 to 437°F] | GF |
| EPDM [-65 to 265°F] | EP |
| EPDM White [-65 to 265] | EW |
| Neoprene [-40 to 250°F] | NE |
| Polyurethane [-30 to 180°F] | PL |
| Teflon [-328 to 500°F] (White in color) | TF |
| Special (Specify) | XX |

| BUILD OPTIONS | P/N |
|---|---|
| None | 0 |
| Tilt Seat | C1 |
| Disc Modification for Extreme Duty | C2 |
| NACE MR0175 Materials | C3 |
| NACE MR0103 Materials | C4 |
| CE Marked for PED Compliance | C5 |
| 1/4" NPT Drain Hole with Plug (Bottom Side) | C6 |
| 1/2" NPT Drain Hole with Plug (Bottom Side) | C7 |
| 3/4" NPT Drain Hole with Plug (Bottom Side) | C8 |
| 1/4" NPT Gauge Port with Plug (Top Side) | C9 |
| 1/2" NPT Gauge Port with Plug (Top Side) | C10 |
| 3/4" NPT Gauge Port with Plug (Top Side) | C11 |
| Chlorine Cleaned and Packaged | C12 |
| Oxygen Cleaned and Packaged | C13 |
| Hard-faced Bore | C14 |
| Reduced Spring Tension | C15 |
| Increased Spring Tension | C16 |
| Extra Light Disc | C17 |
| Reduced Bore (xx=bore NPS) | RYYZ* |
| Non-Standard Face-to-Face (yyz=FTF [inches]) | XYYZ** |
| Other (Specify) | C99 |

yy__2-digit whole number

zz__incremental fractional number
z=A=.125
z=B=.250
z=C=.375
z=D=.500
z=E=.625
z=F=.750
z=G=.875

*Ex: R15B_Reduced to 15.250 inches

**Ex: X01F=Valve with face-to-face length of 1.750 inches

## MATERIAL LIST

| MATERIAL | MODEL No. CODE | FORGED | CAST | PLATE | BAR | TUBULAR | ASME B16.34 GROUP NO. |
|---|---|---|---|---|---|---|---|
| 17.4 PH | 17 | ASTM A705 (Type 630) | ASTM A747 (CB7Cu-1) | ASTM A693 (Type 630) | ASTM A564 (Type 630) | - | - |
| 304 SS | 4S | ASTM A182 (F304) | ASTM A351 (CF8) | ASTM A240 (304) | ASTM A182 (F304) | ASTM A312 (TP304) | 2.1 |
| 316 SS | SS | ASTM A182 (F316) | ASTM A351 (CF8M) | ASTM A240 (316) | ASTM A182 (F316) / A479 (316) | ASTM A312 (TP316) | 2.2 |
| 317 SS | 37 | ASTM A182 (F317) | ASTM A351 (CF8A) | ASTM A240 (317) | - | ASTM A312 (TP317) | 2.2 |
| 347H SS | 34 | ASTM A182 (F347) | - | ASTM A240 (347) | ASTM 182 (F347) / A479 (347) | ASTM A312 (TP347) / A358 (TP347) / A376 (TP348) / A430 (FP347) | 2.5 |
| 410 SS | 41 | ASTM A182 (F6a) | ASTM A217 (CA15) | ASTM A240 (410) | ASTM A182 (F6a) | - | - |
| 6Mo (TYPE 254 SMO) | 6M | ASTM A182 (F44) | ASTM A351 (CK3MCuN) | ASTM A240 (S31254) | ASTM A182 (F44) / A479 (S31254) | - | 2.8 |
| AISI 4130 | 30 | ASTM A29 (4130) | - | - | ASTM A29 (4130) | - | - |
| AL6XN | 6X | ASTM B462 (N08367) | ASTM A351 (CN3MN) | ASTM B688 (N08367) | ASTM B462 (N08367) | - | 3.12 |
| ALLOY 20 | A2 | ASTM B462 (N08020) | - | ASTM B463 (NO8020) | ASTM B462 (N08020) | - | 3.1 |
| ALLOY 20 (CAST) | A2 | - | ASTM A351 (CN7M) | | | | 3.17 |
| BRONZE(NAVY) | 92 | - | ASTM B271 (C92200) (Centrifugal) / ASTM B505 (C92200) (Continuous) / ASTM B584 (C92200) (Investment) | - | - | - | - |
| BRONZE, NICKEL ALUMINUM | 95 | - | ASTM B271 (C95800) (Centrifugal) / ASTM B505 (C95800) (Continuous) / ASTM B148 (Investment) | - | ASTM B150 (C63200) | - | - |
| CARBON STEEL | CS | A105 | ASTM A216 (WCB) | ASTM A516 (70) | A105 | ASTM A106 C | 1.1 |
| CARBON STEEL, LOW TEMP (-50F) | LT | ASTM A350 (LF2) | - | ASTM A516 (70) | ASTM A350 (LF2) | ASTM A672 (C70) | 1.1 |
| DUPLEX SS | DS | ASTM A182 (F51) | ASTM A351 (CD3MN) | ASTM A240 (S31803) | ASTM A182 (F51) / A479 (S31803) | ASTM A789 (S31803) | 2.8 |
| DUPLEX SS, SUPER | SD | ASTM A182 (F55) | - | ASTM A240 (S32760) | A479 (S32760) | ASTM A790 (S32760) | 2.8 |
| DUPLEX SS, SUPER (CAST) | SD | - | ASTM A995 (CD3MWCuN(6A)) | - | - | - | 2.8 |
| F11 CHROME-MOLY | 11 | ASTM A182 (F11 CL.2) | - | ASTM A387 (11 CL.2) | ASTM A182 (F11 CL.2) | - | 1.9 |
| F22 CHROME-MOLY | 22 | ASTM A182 (F22 CL.3) | ASTM A217 (WC9) | ASTM A387 (22 CL.3) | ASTM A182 (F22 CL.3) | - | 1.10 |
| F5 CHROME-MOLY | F5 | ASTM A182 (F5) | - | - | ASTM A182 (F5) | - | 1.17 |
| F9 CHROME-MOLY | F9 | ASTM A182 (F9) | ASTM A217 (C12) | - | ASTM A182 (F9) | - | 1.14 |
| F91 CHROME-MOLY | 91 | ASTM A182 (F91) | ASTM A217 (C12A) | ASTM A387 (91 CL.2) | ASTM A182 (F91) | ASTM A335 (P91) | 1.15 |
| HASTELLOY | HC | ASTM B462 (N10276) / B564 (N10276) | - | ASTM B575 (N10276) | ASTM B462 (N10276) / B574 (N10276) | ASTM B622 (N10276) | 3.8 |
| HASTELLOY (CAST) | HC | - | ASTM A494 (CW-12MW) | - | - | - | 3.15 |
| INCOLOY ALLOY 825 | I8 | ASTM B564 (N08825) | - | ASTM B424 (N08825) | ASTM B425 (N08825) | ASTM B423 (N08825) | 3.8 |
| INCONEL ALLOY 625 | I2 | ASTM B564 (N06625) | - | ASTM B443 (N06625) | ASTM B446 (N06625) | - | 3.8 |
| MONEL ALLOY 400 | M4 | ASTM B564 (N04400) | ASTM A494 (M-35-1) | ASTM B127 (N04400) | ASTM B164 (N04400) | ASTM B165 (N04400) / B163 (N04400) | 3.4 |
| NICKEL 200 | N2 | ASTM B564 (N02200) | - | ASTM B162 (N02200) | ASTM B160 (N02200) | ASTM B161 (N02200) / B163 (N02200) | 3.2 |
| TITANIUM GR.12 | TT | ASTM B381 (F12) | ASTM B367 (C-12) | ASTM B265 (GR.12) | ASTM B348 (GR.12) | | |
| TITANIUM GR.2 | T2 | ASTM B381 (F2) | ASTM B367 (C-2) | ASTM B265 (GR.2) | ASTM B348 (GR.2) | - | - |
| TITANIUM GR.5 | T5 | ASTM B381 (F5) | ASTM B367 (C-5) | ASTM B265 (GR.5) | ASTM B348 (GR.5) | | |
| ZIRCONIUM | ZI | ASTM B493 (R60702) | - | ASTM AB551 (R60702) | ASTM B550 (R90702) | - | - |




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