CHECK VALVES

DUAL PLATE CHECK VALVES (DC SERIES)
NOZZLE CHECK VALVES (NC SERIES)
### DESIGN FEATURES

- Nozzle Check Valve are designed using Computational Fluid Dynamics (CFD).
- Metal to Metal Seated design.
- 100%-tight shut-off is obtained by means of a metal-to-metal sealing.
- Spring loaded disc design allows mounting in any orientation.
- Short stroke length reduces closure time and Minimizes water hammer.
- Short light weight Disc & Fast closing Spring design Protect the piping against sudden Surge.
- Low Pressure drop to avoid Cavitation and turbulences.
# NOZZLE CHECK VALVE (NC SERIES)

## Parts and Materials

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART</th>
<th>BODY</th>
<th>DISC</th>
<th>SPRING</th>
<th>DIFFUSER</th>
<th>BEARING</th>
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<th>DISC SEAT</th>
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<td>A351 CF8M</td>
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<td>UNS S31803</td>
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</table>

## Size

- **150A (6") ~ 700A (28")**

## Applicable Flange Std.

- **ASME B16.5 Class 150 ~ Class 1500**
- **JIS B 2220 10K ~ 64K**

## Temperature Range

- Low Temperature Carbon Steel: -45°C to 300°C (-50°F to 572°F)
- Stainless Steel: -196°C to 300°C (-320°F to 572°F)
- Duplex: -196°C to 300°C (-320°F to 572°F)

## Application

- Chemical, Oil & Gas Industries
- Residual Heat Removal System
- Nuclear Power Plants
- Crack Plant
- Containment Isolation
- Water, Steam, Gas, Vacuum
- Steam Injection System
- Power Station, Water Pumping Stations
- Natural Gas, Refineries
- Critical Equipment Discharge
- Gas Compressor Unit
- Offshore & Onshore Production Platform, FPSO
NOZZLE CHECK VALVE (NC SERIES)

CONTRACTOR: POGC (Pars Oil & Gas Company)

PROJECT: SOUTH PARS GAS FIELD
DEVELOPMENT PHASE
13, 15-16, 22-24

END CUSTOMER: POGC (Pars Oil & Gas Company)

900# / 500A (20")

300# / 700A (28")

900# / 500A (20") / Cryogenic Nozzle Check Valve