IMPROVED PERFORMANCE FOR CRYOGENIC SERVICE

1. **BS 6364**: Our Noz-Chek product line currently meets stringent standards such as ISO 28921, MSS SP-134 and Shell 77/200. Now, this product line can also be offered to meet the rigorous requirements of **BS 6364 (300 CC/MIN/IN) AS STANDARD** at -196°C / -320°F with tighter leak rates available to suit our customers’ needs.

2. **IN-HOUSE TESTING**: The low temperature and Cryogenic High Pressure gas testing is carried out on site in our **STATE OF THE ART TESTING FACILITY** ensuring the Crane commitment to quality. Test capability 1” to 72” and pressures of 22,500 PSI.

3. **BACKFLOW PROTECTION FOR CRYOGENIC COMPRESSORS**: Our proven engineered check valves provide **QUICK, DYNAMIC, RESPONSE TIMES** and ensure low leak rates that protect expensive rotating equipment from damaging effects of backflow and water-hammering.

4. **ZERO FUGITIVE EMISSIONS**: Our Noz-Chek product is composed of a single piece, solid body, which has **NO BODY PENETRATIONS OR EXTERNAL LEAKPATHS** ensuring the Crane commitment to environmental responsibility!

5. **PRODUCT IMPROVEMENTS WITH THE SAME VALUES**: Born from our dedication to our customers, our longstanding commitments to **SAFETY, INNOVATION, & QUALITY** continue to ensure our position as a market leader.
NOZ-CHEK®

Noz-Chek® Cryogenic Valves

Size Range*
- 1” – 48” (Test capability 1” to 72” and pressures of 22,500 PSI)

Pressure Rating
- ASME B16.34 & API 6D, pressure classes 150 – 4500
- API 6A pressure classes 2000 – 15,000

Materials of Construction
- Body / Seat / Disc: ASTM A351 Grade CF8M 316 Stainless steel
- Spring: Inconel X750 or 316SS
- Cryogenic spring energised PTFE seal

Body Configurations
- Double Flanged
- Butt-weld ends
- API 6D face to face
- Manufacturer’s standard face to face

Compliance
- ASME B16.34
- ISO 28921
- API 598
- MSS SP-134
- BS 6364
- API 6D

Special Options
- LNG
- Ethylene Production
- Air Separation Units
- Cryogenic compressor protection

Typical Applications
- Our valves can be tailored to meet the specific flow conditions of the application

Zero Fugitive Emissions
- No Bonnet
- Single piece body design means no flanged join between connecting body parts
- No penetrations for retainers
- End Flanges are Integrally Cast.

Disc Stem
Guide Bush
Spring
Guide Housing
Body with integral diffuser (single piece casting design)
Seat

Temperature Range

<table>
<thead>
<tr>
<th>Material Temperature Range</th>
<th>Valve Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>-196°C</td>
<td>-46°C</td>
</tr>
<tr>
<td>°F</td>
<td>649°F</td>
</tr>
<tr>
<td>-320°F</td>
<td>-50°F</td>
</tr>
</tbody>
</table>

*Additional materials, sizes, pressure classes, leak-rates and configurations available on request

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Crane ChemPharma & Energy, Noz-Chek®
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