

**SPECIAL APPLICATIONS SOLUTIONS GALLERY**

**Pulp and Paper**



Triscentric white liquor lime mud pump isolation

## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Municipal Service



3 CL300 Butt Weld End WCB Cast



4 CL150 Butt Weld End CF8M Fabricated



8 CL150 Lug CF8M Fire Isolation Extension Heat Shield & KMASS Actuator



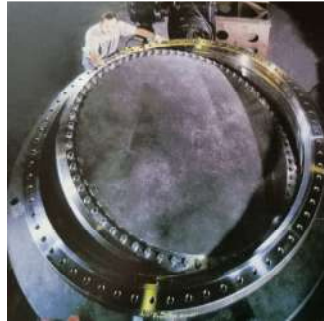
18 CL50 Butt Weld End WCB Fabricated Steam Service

## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Aerospace



8 CL300 Cryogenic Test Blue Origin Launch Pad Application



96 Stainless US Air Force Wind Tunnel Application



12 CL150 DF Gate CF3M Cryogenic NASA LOX Shutoff



6 CL150 Wafer CF8M x Inc625 High Temperature Lockheed Martin Engine Test Stand



8 & 18 CL150 DF Gate CF3M Cryogenic NASA LOX Shutoff



4 CL300 6 CL150 Wafer CF8M x Monel Gaseous Oxygen Service

**SPECIAL APPLICATIONS SOLUTIONS GALLERY**

**Aerospace**



8 CL150 DF Gate CF3M Cryogenic  
NASA LOX Application



8 CL300 Lug CF8M Cryo Test Flange Setup



3 CL150 DF Gate CF3M Cryogenic  
NASA LOX Shutoff



## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Sea Brine Cooling Water



**30 CL150 DF Short  
NiAlBz x Monel Trim  
Seawater Service**



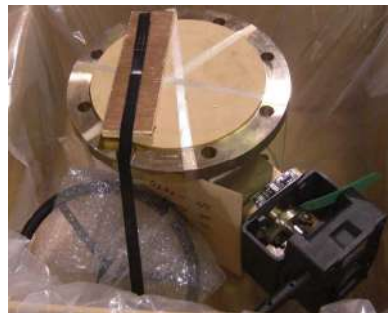
**16 CL150 Wafer NiAlBz x Monel  
Replaceable Seat Recycle  
Cooling Water Service**



**16 CL150 DF Short NiAlBr  
Seawater Service**



**30 CL150 Lug NiAlBz Seawater Service**



**12 cl150 DF Gate NiAlBz Recycle  
Cooling Water Service**



**24 Wafer and 30 Lug CL150 WCB w/ Impreglon  
Coating x NiAlBz Trim Recycle Water**



**12 CL50 DF Gate NiAlBr Recycle  
Cooling Water Service**

## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### High Temperature



**3 CL300 Lug CF8MH  
High Temperature Performance Test**



**8 CL150 Lug CF8M Fire Isolation Valves  
Extension Heat Shield & KMASS Actuator**



**30 CL150 Lug CF8H High Temp  
Heat Ext Sulfuric Acid Service**



**8 CL300 DF Short CF8MH High Temp  
Heat Ext Heat Shield Actuated**



**16 CL600 Wafer High Temperature  
Heat Extension**



**18 CL150 Lug CF8MH High Temp  
Heat Extension Steel Mill Application**

**SPECIAL APPLICATIONS SOLUTIONS GALLERY**

**High Temperature**



**3 CL150 Wafer High Temp Heat Extension**

## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Reduced Port



6x4 CL150 Wafer WCB Steam Jacket Body



26x24 CL150 API Wafer WCB Steam Jacket & Traced Shaft in for Maintenance



16x14 CL150 Wafer WCB Steam Jacket Body & Traced Shaft Fail Open



10x8 CL150 Wafer WCB Steam Jacket Body & Shaft Tracing



24x8 CL150 Wafer WCB Flow Control Application



Sulfur Leakage at Flanges Without a Reduced Port Valve



## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Flow Control



4 CL150 Lug WCB Flow Control Cartridge Application



12 CL600 Lug CF8M x Stellite 21 High Vibration Flow Control Application



20 CL600 Wafer WCB Special Minimum Flow Control Disc Orifice



24x8 CL150 Wafer WCB Flow Control Application

## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Reduced Pressure Class



4 CL600x300 Wafer CF8M Natural Gas Shut Off Application



6 CL1500 x 300 RTJ Wafer WCB Control Application at Maintenance



16 CL900x600 DF Short CF8M Fertilizer Production Application

## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Non ASME Materials



16 CL150 DF Short B148  
C95500 NiAlBr Seawater Application



8 CL150 Wafer Nickel 200 CZ100 with Intergral  
Steam Jacket Caustic Soda Application



18 CL150 Lug Titanium Grade 2 Sulfuric Acid  
Service Mine Application



3 CL150 Lug Titanium Gr2 x  
Gr 5 Pulp Mill Application



6 CL300 Lug Inc 625 CW6MC



4 CL150 Lug Hast C CW2M SO2 Prescrub Water  
Carbon Capture Clean Coal

**SPECIAL APPLICATIONS SOLUTIONS GALLERY**

**Man Process Safe**



**3 CL300 Butt Weld End Double Block Offset Steam Service**



**SPECIAL APPLICATIONS SOLUTIONS GALLERY**

**Non Standard Ends Facings**



**3 CL300 Cast Butt Weld End**



**3 CL300 Cast Butt Weld End**



**10 CL1500 WCB Clamp End Valve Refinery  
Compressor Application**

## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Extensions Linkage Gear Housings



6 CL600 Lug CF8M  
Actuator Extension



4 CL300 Lug WCB  
Handwheel Extension



12 CL150 Lug WCB Highseal MOV 1  
Actuator Extension



2 CL150 Lug WCB 36 Foot  
Gear Extension

## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Extensions Linkage Gear Housings



**16 CL300 Lug WCB  
Gear Extension**



**30 CL150 DF Short CF8M Submersible Test  
Actuator Enclosure Pressure**



**30 CL150 DF Short CF8M Submersible Actuator Enclosure**



**10 CL150 Lug WCB 3 Way Linkage Tee Assembly**

## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Specialty Surfacing



**8 CL150 Lug WCB Impreglon  
222M Coating x CF8M**



**8 CL150 Lug WCB IPC  
System 3 Red x CF8M**



**24 CL150 Lug WCB IPC  
System 3 Red**



**24 CL150 Wafer WCB Impreglon System  
3 Red Coating x NiAlBz Electrohydraulic Act**



**36 CL150 DF Special WCB  
Nickel Plated**



**24 Wafer and 30 Lug CL150 WCB with Impreglon  
Coating x NiAlBz Trim Recycle Water**



## SPECIAL APPLICATIONS SOLUTIONS GALLERY

### Supplemental Testing



3 CL300 Lug CF8M High Temp Performance  
Pretest-1



10 CL300 Lug CF8M High Temp Performance  
Pretest-2



12 CL150 DF CF8M Cryogenic NASA Testing



18 CL150 DF CF8M Cryogenic  
NASA Test



30 CL300 DF Gate WCB Electro Hydraulic Test  
Actuator Pressure and Cycle



8 CL300 Lug CF8M Cryogenic Blue  
Origin Test