**TITAN FLOW CONTROL, INC.**

**MODEL: CV 71-SS**

Body: Stainless Steel

**FEATURES**

- **QUICK CLOSURE TO REDUCE WATER HAMMER**
  SILENT SHUT-OFF IS ACHIEVED VIA THE FULLY AUTOMATIC, SPRING ASSISTED DISC THAT CLOSES NEAR ZERO FLOW VELOCITY, THE LIGHTWEIGHT, CENTER-GUIDED DISC DESIGN CREATES A POSITIVE SHUTOFF PRIOR TO FLOW REVERSAL AND HELPS TO KEEP SLAMMING AND SURGES TO A MINIMUM.

- **MINIMAL HEAD LOSS**
  THE OPEN CAGE DESIGN MINIMIZES TURBULENCE. ADDITIONALLY, THE SPRING LOADED, CENTER-GUIDED DISC IS DESIGNED WITH VERY LOW CRACKING PRESSURE WHICH REDUCES THE AMOUNT OF ENERGY REQUIRED TO OPEN THE VALVE.

- **BUBBLE TIGHT SEAL**
  BY UTILIZING AN OPTIONAL VITON SEAT AND GASKET IN CONJUNCTION WITH PRECISION MACHINED SEALING SURFACES, THE CV7155 MAINTAINS A BUBBLE TIGHT SEAL THAT MEETS OR EXCEEDS API598 LEAKAGE REQUIREMENTS.

- **DESIGNED FOR LONG LIFE**
  THE CV 7155 USES HIGHLY RELIABLE WELDED, STAINLESS STEEL CONSTRUCTION, AND A SIMPLIFIED DESIGN (ONLY FOUR PARTS) THAT PROVIDES LONG SERVICE LIFE FOR A WIDE VARIETY OF APPLICATIONS.

- **VERSATILE AND ECONOMICAL DESIGN**
  THE CV7155 CAN BE INSTALLED IN ANY POSITION (HORIZONTAL OR UP TO 90° VERTICAL - UP FLOW). NOT RECOMMENDED FOR VERTICAL - DOWNWARD FLOW.

**APPLICATIONS**

- **MARKETS:** GENERAL INDUSTRY, CHEMICAL, PETROCHEMICAL, POWER, FOOD AND BEVERAGE

- **SERVICE:** INTENDED FOR LIQUID SERVICE THAT IS STEADY, CLEAN (NO ABRASES OR SOLIDS) AND NON-PULSATING. FLOW RATE SHOULD NOT EXCEED 15 FT/SEC. NOT RECOMMENDED FOR STEAM OR RECIPROCATING COMPRESSOR SERVICE.

- **PRECAUTIONS:** THIS VALVE IS INTENDED FOR LIQUID SERVICE THAT DOES NOT EXCEED 10 FT/SEC. IT IS DESIGNED FOR STEADY FLOW CONDITIONS AND IS NOT RECOMMENDED FOR USE IN RECIPROCATING PUMP, COMPRESSOR OR OTHER TYPE OF PHYSICAL/ THERMAL SHOCK-LOAD APPLICATIONS. THIS VALVE IS NOT RECOMMENDED FOR STEAM SERVICE OR FLOW MEDIA THAT CONTAINS SOLIDS. IT SHOULD BE INSTALLED AT LEAST FIVE PIPE DIAMETERS DOWNSTREAM FROM ANY TURBULENCE PRODUCING COMPONENTS. FLOW STRAIGHTENERS MAY BE REQUIRED IN CERTAIN APPLICATIONS.

The above data represents common market and service applications. No representation or guarantee, expressed or implied, is given due to the numerous variations of concentrations, temperatures and flow conditions that may occur during actual service.

**TECHNICAL**

- **PRESSURE/TEMPERATURE RATING (1)**
  AS51-CF8M / 316 SS - CLASS 150/300

- **WOG (Non-shock): 740 PSI @ 100 °F**

- **SEAT MATERIAL (1)**
  TEMPERATURE RANGE
  - STAINLESS STEEL:  MAX 450° F
  - VITON: -40 ~  400° F

- **SPRING MATERIAL (1)**
  MAXIMUM TEMPERATURE
  - STAINLESS STEEL:  450 °F

1. The above listed temperatures are theoretical and may vary during actual operating conditions.

**TITAN® FLOW CONTROL, INC.**

**YOUR PIPELINE TO THE FUTURE!**

Tel: 910-735-0000  Fax: 910-738-3848  titan@titanfci.com  www.titanfci.com

290 Corporate Drive  PO Box 7408  Lumberton, NC 28358
SEAT AND SPRING TEMPERATURE RATINGS

Metal -325 °F @ 1000 °F
Viton -40 °F @ 400 °F

ORDERING CODE

Model Number Description
CV71-SS-M Stainless Steel Body, Stainless Steel Seat, Disc, and Spring

DIMENSIONS AND PERFORMANCE DATA

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A DIMENSION

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Flow Coefficient

| $C_v$ | 2.4  | 4.4  | 6.3  | 18.7 | 30.5 | 45.8 | 74.7 | 136  | 305  |

Cracking Pressure

| psi | ≤0.50 | ≤0.50 | ≤0.50 | ≤0.50 | ≤0.50 | ≤0.50 | ≤0.50 | ≤0.50 | ≤0.50 |

PRESSURE-TEMPERATURE RATINGS

Stainless Steel
A351 Gr. CF8M Type 316
ASME Class 150
Sizes: 2” ~ 12”

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