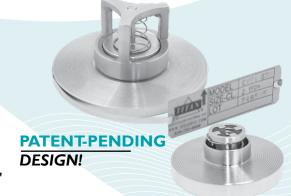


INSERT CHECK VALVE * WAFER TYPE * CENTER GUIDED

ASME CLASS 150/300 * STAINLESS STEEL BODY

MODEL: CV 71-SS

Body: Stainless Steel



FEATURES

SIZES: 1/2" ~ 6"

3/4" CV 71-SS

♦ 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 CV7ISS MAINTAINS A BUBBLE TIGHT SEAL THAT MEETS OR EXCEEDS API598 LEAKAGE REQUIREMENTS.

♦ DESIGNED FOR LONG LIFE

THE CV 7ISS 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 CV7ISS CAN BE INSTALLED IN ANY POSITION (HORIZONTAL OR UP TO 90° VERTICAL - UP FLOW). NOT RECOMMENDED FOR VERTICAL - DOWNWARD FLOW.

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.

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

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

PRECAUTIONS: THIS VALVE IS INTENDED FOR LIQUID SERVICE THAT DOES NOT EXCEED IS 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 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.

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

APPLICATIONS



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290 Corporate Drive Lumberton, NC 28358 Tel: 910.735.0000 E-mail: titan@titanfci.com Web: www.titanfci.com Fax: 910.738.3848

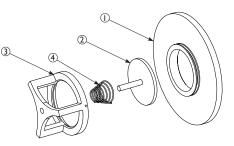
INSERT CHECK VALVE • WAFER TYPE CENTER GUIDED DESIGN • STAINLESS STEEL

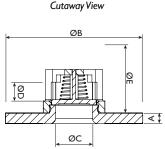
MODEL: CV 71-SS - Stainless Steel Body

ASME Class 150/300

	BILL OF MATERIALS (I)					
No.	PART	CV 71-SS-S	CV 71-SS-V			
140.	1711	C 7 71-33-3	CV 71-33-V			
ı	Body	A351 Gr. CF8M Type 316	A351 Gr. CF8M Type 316			
2	Disc	A351 Gr. CF8M Type 316	A351 Gr. CF8M Type 316			
3	Cage	A351 Gr. CF8M Type 316	A351 Gr. CF8M Type 316			
4	Conical Spring	Stainless Steel	Stainless Steel			

 Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.





DIMENSIONS AND PERFORMANCE DATA (1) in 1/2 3/4 11/2 2 21/2 3 4 6 SIZE 15 20 25 40 50 65 80 100 150 mm C/F C/F 0.25 0.25 0.25 0.25 0.31 0.38 0.38 in **A** DIMENSION FACE TO FACE C/F C/F 6 6 6 6 8 10 10 mm C/F C/F 2.50 3.25 4.00 4.75 5.25 6.75 8.63 in **ØB** DIMENSION OVERALL DIAMETER C/F C/F 64 83 102 121 133 171 219 mm C/F C/F 0.48 0.89 1.20 1.51 1.95 2.57 4.07 in **ØC** DIMENSION INLET DIAMETER C/F C/F 12 30 38 49 103 23 65 C/F C/F 0.30 0.40 0.60 0.67 .80 0.85 1.32 ØD DIMENSION MAX TRAVEL W/O SPRING C/F C/F 8 10 15 17 20 22 34 kg C/F C/F 1.38 1.60 1.97 2.79 3.35 3.94 **ØE** DIMENSION 2.29 DISC STEM MAX PROTRUSION W/O SPRING C/F 35 50 58 71 85 100 lb C/F C/F 0.4 0.7 1.5 2.5 4.0 8.5 1.1 ASSEMBLED WEIGHT C/F C/F 3.9 kg 0.2 0.3 0.5 0.7 1.1 1.8 C C/F C/F 18.7 45.8 74.7 305 Flow Coefficient 6.3 30.5 136 C/F C/F ≤.50 ≤.50 ≤.50 ≤.50 Cracking Pressure ≤.50 ≤.50

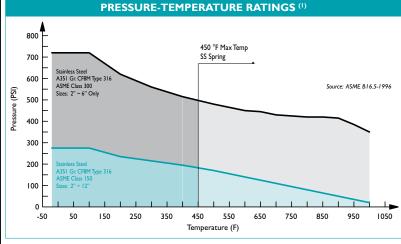
1. Dimensions, weights, and flow coefficients are provided for reference only. When required, always request certified drawings.

Additional Design & Technical Notes:

Valves are for liquid, gas and steam service. They should be installed at least five pipe diameters downstream from any turbulence producing components.

Stocked in Metal and Viton seats. Please contact factory for price and delivery.

Designed for installation in SCH 40 or SCH 80 pipe systems. Contact factory for heavier schedules.



This chart displays the pressure-temperature ratings for the valve's body per ASME B16.5.
 Maximum temperature limits have been added for seat and spring materials.

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

REFERENCED STANDARDS & CODES			
CODE	DESCRIPTION		
ASME B16.5	Pipe Flanges and Flanged Fittings		
MSS SP-6	Standards Finishes for Connecting-end Flanges		
MSS SP-25 Standard Marking System for Valves			
MSS SP-126	Steel, In-Line, Spring-Assisted, Center-Guided Valves		

PRESSURE/TEMPERATURE RATING (1)				
ASME Class	150 lb Service	300 lb Service		
WOG (Non-shock)	275 PSI @ 100 °F	720 PSI @ 100 °F		

SEAT AND SPRING TEMPERATURE RATINGS (1)				
SEAT	Temperature Range			
Metal	-325 °F @ 1000 °F			
Viton	-40 °F @ 400 °F			
SPRING	Maximum Temperature			
Stainless Steel	450 °F			

 The listed pressure and temperature ratings for the valve's body, seat, and spring are theoretical and may vary during actual operating conditions.