SILENT CHECK VALVE * SINGLE DISC * THREADED ENDS

ANSI CLASS 300 * STAINLESS STEEL BODY

Titan Series - 80

MODEL: CV 80-SS

STAINLESS STEEL BODY
VITON SEAT

FEATURES

SIZE RANGE: 3/8" THROUGH 3"



O 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.

O MINIMAL HEAD LOSS

THE CONTOUR OF BODY PROVIDES A SHORT AND STRAIGHT FLOW PATH THAT GENERATES VERY LITTLE 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.

O BUBBLE TIGHT SEAL

BY UTILIZING A TEFLON SEAT AND GASKET IN CONJUNCTION WITH PRECISION MACHINED SEALING SURFACES, THE CV 80-SS MAINTAINS A BUBBLE TIGHT SEAL THAT MEETS OR EXCEEDS API 598 LEAKAGE REQUIREMENTS.

O DESIGNED FOR LONG SERVICE LIFE

THE CV 80-SS UTILIZES A HIGHLY RELIABLE INVESTMENT CASTING, STAINLESS STEEL CONSTRUCTION, AND A SIMPLIFIED DESIGN (ONLY SIX PARTS) THAT CAN PROVIDE A LONG SERVICE LIFE FOR A WIDE VARIETY OF APPLICATIONS.

VERSATILE AND ECONOMICAL DESIGN

THE CV 80-SS CAN BE INSTALLED IN ANY POSITION (HORIZONTAL OR VERTICAL WITH UPWARD FLOW) - CONSULT FACTORY FOR VERTICAL WITH DOWNWARD FLOW. HEX ENDS ARE PROVIDED FOR QUICK AND EASY INSTALLATIONS

TECHNICAL

PRESSURE/TEMPERATURE RATING SS - ASTM A351 GR. CF8M - CLASS 300

WOG (Non-shock): 720 PSI @ 100 °F Max Liquid: Consult Factory Max Steam: Not Recommended

SEAT MATERIAL TEMPERATURE RANGE

Viton: - 4 ~ 392 °F PTFE: - 2 ~ 248 °F

SPRING MATERIAL MAXIMUM TEMPERATURE

Type 316 SS: 450 °F

PLICATIONS

MARKETS: OIL & GAS PRODUCTION, GENERAL INDUSTRY, CHEMICAL INDUSTRY, PETROCHEMICAL INDUSTRY, POWER, FOOD & BEVERAGE INDUSTRIES.

SERVICE: CHEMICAL / STEAM / NITROGEN LINES, GAS INJECTION, CONDENSATE RECOVERY, PUMP & COMPRESSOR DISCHARGE, PUMP JACK FLOW LINES, CHILLER & BOILER FEED

VITON PROPERTIES: OFFERS A BROAD RANGE OF CHEMICAL RESISTANCE AND EXCELLENT HEAT RESISTANCE. GOOD MECHANICAL PROPERTIES AND COMPRESSION SET RESISTANCE. OFTEN USED IN APPLICATIONS WHERE NOTHING ELSE WILL WORK. FAIR LOW TEMPERATURE RESISTANCE AND LIMITED HOT-WATER RESISTANCE AND SHRINKAGE.

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.

290 Corporate Drive Lumberton, NC 28358 Tel: 910.735.0000 Fax: 910.738.3848

E-mail: titan@titanfci.com Web: www.titanfci.com

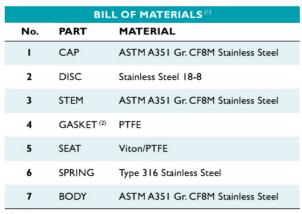
IN-LINE • SILENT CHECK VALVE CENTER GUIDED • THREADED ENDS

MODEL: CV 80-SS

Stainless Steel Body • PTFE Seat and Gasket

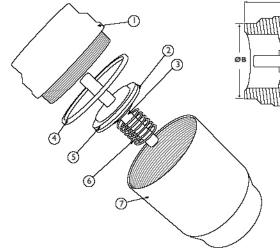
ANSI Class 300

ØC



Notes:

- Bill of Materials represents standard materials. Equivalent materials may be substituted at the manufacturer's discretion.
- 2. Denotes recommended spare parts.
- Viton seats are standard. PTFE seats are available in limited quantities. Consult Factory.

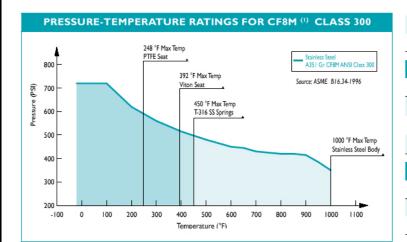


Design Notes:

- 1. Size range: 3/8" ~ 3"
- 2. ANSI Class 300
- 3. Low cracking pressure
- 4. Minimal head loss
- 5. Low pressure drop
- 6. Spring assisted design
- Long stem for smooth closure
- Viton Seat for long service life

			DIMENSI	ONE AND D	ERECRMAN	ICE DATA	n.			
			DIMENSI	ONS AND P	ERFORMA	NCE DATA	,			
SIZE	in	3/8	1/2	3/4	1	I 1/4	1 1/2	2	2 1/2	3
	mm	10	15	20	25	32	40	50	65	80
A DIMENSION FACE TO FACE	in	2.086	2.204	2.480	2.913	3.188	3.582	3.818	4.660	5.500
	mm	53	56	63	74	81	91	97	118	140
ØB DIMENSION OUTSIDE DIAMETER	in	0.905	1.181	1.620	1.878	2.165	2.775	3.228	4.312	4.900
	mm	23	30	41	48	55	70	82	110	125
ØC DIMENSION Inside diameter	in	0.669	.826	1.023	1.259	1.614	1.850	2.322	2.625	3.250
	mm	17	21	26	32	41	47	59	67	83
ASSEMBLED WEIGHT	lb	0.3	0.4	0.5	1.0	1.5	2.5	3.5	6.0	8.5
	kg	0.1	0.2	0.2	0.5	0.7	1.1	1.6	2.7	3.9
Flow Coefficient	C _v	6	7	14	20	40	40	80	110	162
Cracking Pressure (2)	psi	≤ .5	≤ .5	≤ .5	≤ .5	≤ .5	≤ .5	≤ .5	≤ .5	≤ .5

- Dimensions, weights, and flow coefficients are provided for reference only.
 When required, always request certified drawings.
- The listed valve cracking pressure only applies to horizontal installations.For vertical installations, cracking pressure is higher. Please consult factory.



 The above chart displays the pressure-temperature ratings for the valve's body material per ASME/ANSI B16.34-1996. For reference, maximum temperature limits have been added for seat and spring materials. PTFE seat limits the maximum temperature for this valve.
 Stainless Steel not recommended for prolonged use above 1000 °F

REFERENCED STANDARDS & CODES

CODE	DESCRIPTION
ANSI BI.I	Unified Inch Screw Threads
ANSI B1.20.1	Pipe Threads - General Purpose
ANSI B16.34	Valves - Flanged, Threaded & Welding Ends
ASTM A351 GR CF8M	Austenitic Steel Castings

PRESSURE - TEMPERATURE RATING

Body Material - ASTM A351 GR. CF8M - CLASS 300

WOG (Non-shock): 720 PSI @ 100 °F

Max Liquid: Consult Factory

Max Steam: Not Recommended

SEAT AND GASKET TEMPERATURE RATING

Seat Material	Temperature Range
Viton:	- 4 ~ 392 °F
Teflon (PTFE):	- 2 ~ 248 °F

SPRING TEMPERATURE RATING

SPRING TEMPERATURE RATING				
Spring Material	Maximum Temperature			
T-316 Stainless Steel	450 °F			

Titan FCI makes every effort to ensure the information presented on our literature accurately reflects exact product specifications. However, as product changes occur, there may be short-term differences between actual product specifications and the information contained within our literature. Titan FCI reserves the right to make design and specification changes to improve our products without prior notification. When required, request certified drawings.