Now Available

Styles!



CHECK VALVE * WAFER AND LUG STYLES * DUAL DISC

ANSI CLASS 150 * CARBON AND STAINLESS STEEL

TITAN FLOW CONTROL, INC.

MODELS:

CV 42-CS (CARBON STEEL - WAFER) CV 42L-CS (CARBON STEEL - LUG)

CV 42-SS (STAINLESS STEEL - WAFER)

CV 42L-SS (STAINLESS STEEL - LUG)

WAFER STYLES 2" ~ 6" PROVIDE DUAL PRESSURE SERVICE (ANSI CLASS 150/300)

SIZES: 2" ~ 24"

LUG STYLES ARE BLIND TAPPED AS STANDARD



THIS LOW WEIGHT AND SHORT LAYING DESIGN IS NOW AVAILABLE IN BOTH LUG AND WAFER STYLES. LUG STYLES, THREADED ON BOTH SIDES OF THE BODY, CAN BE USED AS A BLOCK VALVE FOR THE PIPELINE.

FEATURES

CONTOUR OF BODY PROVIDES A SHORT AND STRAIGHT FLOW PATH THAT GENERATES VERY LITTLE TURBULENCE. ADDITIONALLY, THE SPRING-LOADED DISCS ARE DESIGNED WITH VERY LOW CRACKING PRESSURE WHICH REDUCES THE AMOUNT OF ENERGY REQUIRED TO OPEN THE VALVE.

♦ QUICK CLOSURE TO REDUCE WATER HAMMER

SHUT-OFF IS ACHIEVED VIA THE FULLY AUTOMATIC, SPRING-ASSISTED DISCS THAT CLOSE NEAR ZERO FLOW VELOCITY. THE LIGHTWEIGHT. SPLIT DISC DESIGN CREATES A POSITIVE SHUTOFF PRIOR TO FLOW REVERSAL AND HELPS TO KEEP SLAMMING AND SURGES TO A MINIMUM.

♦ DESIGNED FOR LONG SERVICE LIFE

THE SPRING AND DISCS ARE DESIGNED TO ALLOW THE DISCS TO LIFT LINEARLY BEFORE PIVOTING TO AVOID THE DISC HEAL FROM SCRUBBING THE SEALING SURFACE. ALSO, DISCS ARE EQUIPPED WITH CAST-IN SHOCK BUMPERS THAT HELP TO REDUCE WEAR AND TEAR ON INTERNAL COMPONENTS.

THE RETAINER-LESS BODY DESIGN ELIMINATES POTENTIAL LEAK PATHS TO THE ENVIRONMENT SO THERE ARE NO BODY EMISSIONS.

♦ RESILIENT AND METAL SEATS

BOARD, LAPPED SEALING SURFACE (METAL) MEETS OR EXCEEDS API 598 TEST REQUIREMENTS. RESILIENT SEATS (VITON/BUNA) ENSURE A BUBBLE TIGHT SEAL.



8" CV 42L-CS

4" CV 42-SS

PRESSURE/TEMPERATURE RATING CS - ASTM A216 GR. WCB - CLASS 150

WOG (Non-shock): 285 PSI @ 100 °F

PRESSURE/TEMPERATURE RATING SS - ASTM A351 GR. CF8M - CLASS 150

WOG (Non-shock): 275 PSI @ 100 °F

SEAT MATERIAL TEMPERATURE RANGE

VITON: -40 ~ 400 °F BUNA-N: -20 ~ 250 °F

> SPRING MATERIAL TEMPERATURE MAXIMUM

INCONEL X-750: 1000 °F

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

MARKETS: WATER & WASTEWATER, PULP & PAPER, CHEMICAL & PETROCHEMICAL, POWER, PETROLEUM AND OIL & GAS

BUNA-N PROPERTIES: MOST WIDELY USED ELASTOMER. GOOD FOR MOST PETROLEUM OILS AND FLUIDS, SILICONE GREASES AND OILS, AND COLD WATER. EXCELLENT COMPRESSION SET, TEAR, AND ABRASION RESISTANCE. POOR WEATHER RESISTANCE AND MODERATE HEAT RESISTANCE. NOT RECOMMENDED FOR SEVERE OZONE-RESISTANT APPLICATIONS.

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.

YOUR PIPELINE TO THE FUTURE!

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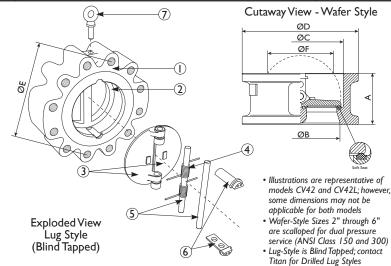
Wafer-Style CV 42-CS (Carbon Steel) CV 42-SS (Stainless Steel)

Lug-Style CV 42L-CS (Carbon Steel) CV 42L-SS (Stainless Steel) **ANSI Class** 150

BILL OF MATERIALS(1)							
No.	PART	CV42/CV42L-CS	CV42/CV42L-SS				
ı	Body	Carbon Steel A216 Gr.WCB	Stainless Steel A351 Gr. CF8M				
2	Seat	Metal/Viton/Buna-N (4)	Metal or Viton				
3	Disc (2)	Stainless Steel A351 Gr. CF8M	Stainless Steel A351 Gr. CF8M				
4	Spring (2)	Inconel X-750	Inconel X-750				
5	Shaft/Stop Pin	Stainless Steel A276 Gr. 316	Stainless Steel A276 Gr. 316				
6	Cap	Carbon Steel ASTM A I 05	Stainless Steel A351 Gr. CF8M				
7	Eye Bolt (3)	Carbon Steel	Carbon Steel				

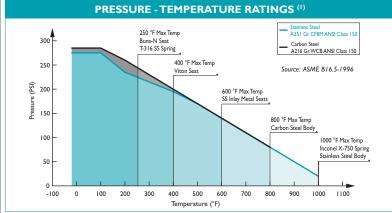
- 1. Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
- Denotes recommended spare parts
- Part #7, Eye Bolt, is only on Sizes 8" and up. Metal seat is stainless steel.

Additional Design & Technical Notes:
• The CV42 and CV42L have a fugitive emission design. The retainer-less body design eliminates potential leak paths to the environment so there are no body emissions.



		DIMENSIONS AND PERFORMANCE DATA (1)														
_	IZE	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
3	IZE	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	A DIMENSION ACE TO FACE (2)	in	2.38	2.62	2.88	2.88	3.38	3.87	5.00	5.75	7.12	7.25	7.50	8.00	8.62	8.75
FA		mm	60	67	73	73	86	99	127	146	181	184	191	203	219	222
	B DIMENSION	in	2.00	2.50	3.00	4.00	5.00	6.52	8.00	10.00	12.00	13.26	15.24	17.24	19.50	23.42
IN	NLET DIAMETER	mm	51	64	76	102	127	166	203	254	305	337	387	438	495	595
Ø	C DIMENSION	in	2.16	2.67	3.23	4.25	5.12	6.38	8.66	10.63	12.60	13.78	15.75	17.24	19.50	23.42
OI	UTLET DIAMETER	mm	55	68	82	108	130	162	220	270	320	350	400	438	495	595
/LE	ØD DIMENSION	in	4.33	5.04	5.31	7.05	8.43	9.81	10.91	13.27	16.02	17.64	20.15	21.54	23.78	28.15
-ST	OVERALL DIAMETER	mm	110	128	147	179	214	249	277	337	407	448	512	547	604	715
FER	ASSEMBLED	lb	5.5	8.0	10.0	15.5	23.5	36.0	51.5	88.0	131.0	178.0	242.0	276.0	362.0	462.0
X	WEIGHT (Wafer)	kg	2.5	3.6	4.5	7.0	10.6	16.3	23.3	39.9	59.4	80.7	109.7	125.1	164.2	209.6
_	ØE DIMENSION	in	4.75	5.5	6.0	7.5	8.5	9.5	11.75	14.25	17.0	C/F	21.25	C/F	25.0	29.5
ONLY	BOLT CIRCLE DIAMETER	mm	121	140	152	191	216	241	298	362	432	C/F	540	C/F	635	749
LE (NO. OF BOLTS	qty	4	4	4	8	8	8	8	12	12	C/F	16	C/F	20	20
STY	BOLT SIZE	in-UNC	5/8-11	5/8-11	5/8-11	5/8-11	3/4-10	3/4-10	3/4-10	⁷ / ₈ -9	⁷ / ₈ -9	C/F	1-8	C/F	11/8-8	11/4-8
Ś	ASSEMBLED	lb	8.0	C/F	16.0	28.0	C/F	50.0	95.0	150.0	242.0	C/F	C/F	C/F	C/F	C/F
7	WEIGHT (Lug)	kg	3.6	C/F	7.3	12.7	C/F	22.7	43.1	68.0	109.8	C/F	C/F	C/F	C/F	C/F
Ø	F DIMENSION	in	.94	1.69	2.36	3.54	4.45	5.31	7.13	8.82	10.47	11.81	14.29	15.87	18.03	22.28
MI	NIMUM BORE DIAMETER ⁽⁴⁾	mm	24	43	60	90	113	135	181	224	266	300	363	403	458	566
FI	ow Coefficient	C _V	62	110	175	350	550	850	1500	2400	3700	5400	8250	10400	14200	23000
C	racking Pressure (3)	psi	≤ .25	≤ .25	≤ .25	≤ .25	≤ .25	≤ .25	≤ .25	≤ .25	≤ .25	≤ .25	≤ .25	≤ .25	≤ .25	≤ .25

- Dimensions and weights are for reference only. When required, request certified drawings. Face to face values have a tolerance of ± 0.06 in (± 2.0 mm) for sizes 10" and lower and a tolerance of ± 0.12 in (± 3.0 mm) for sizes 12" and larger. Cracking pressure is for horizontal installations only. For vertical installations, please consult factory. Minimum Bore Diameter indicates the minimum internal diameter of the adjacent pipe.



The above chart displays the pressure-temperature ratings for the valve's body material per ASME B16.5-1996. Max temperature limits have been added for seat and spring materials. For ANSI Class 300 ratings (Wafer-Style 2" \sim 6"), please refer to the CV 44-CC/SS specification sheet.

REFERENCED STANDARDS & CODES					
CODE	DESCRIPTION				
ANSI/API 594	Valve Design and Manufacture				
ANSI/ASME 16.5	Flange Dimensions				
ANSI/API 594	Valve Face to Face Dimensions				
API 598	Valve Inspection and Pressure Test				

FRESSORE - TEMFERATORE RATING							
Body Material	A216 Gr.WCB	A351 Gr. CF8M					
WOG (Non-shock):	285 PSI @ 100 °F	275 PSI @ 100 °F					

Wafer-Style Sizes 2" through 6" are designed for dual pressure service (Class 150 and 300). For ANSI Class 300 ratings, please refer to the CV 44-CC/SS specification sheet.

SEAT AND SPRING TEMPERATURE RATING								
Seat Material	Range	Spring Material	Max					
VITON:	-40 ~ 400 °F	INCONEL X-750:	1000 °F					
BUNA-N:	-20 ~ 250 °F	T-316 SS:	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