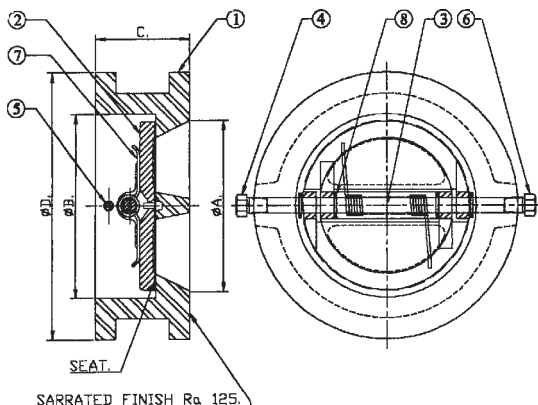




**TITAN FLOW CONTROL**  
LUMBERTON, NC USA

WAFER TYPE  
DUAL PLATE CHECK VALVE  
MODEL CV46-CS & CV46-SS

**RATING:**  
**ANSI #**  
**600.**



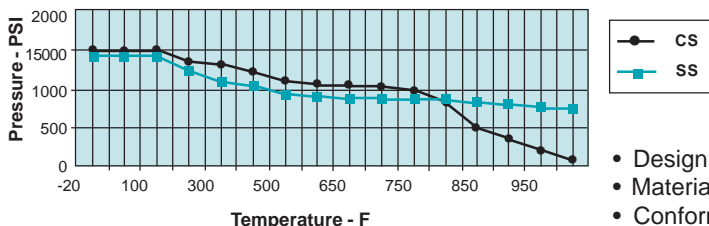
**BILL OF MATERIALS**

SERIAL NO.	PART NAME	CV 46 - CS		CV 46 - SS	
		MATERIALS	CODE	MATERIALS	CODE
1	BODY	ASTM A-216 Gr. WCB	CS	ASTM A-351 Gr. CF 8M	S
2	DISC	ASTM A-351 Gr. CF 8M	S	ASTM A-351 Gr. CF 8M	S
3	HINGE PIN	AISI 316	S	AISI 316	S
4	NPT PLUG	AISI 316		AISI 316	
5	STOP PIN	AISI 316	S	AISI 316	S
6	NPT PLUG	AISI 316		AISI 316	
7	SPRING	AISI 316	S	INCONEL	R
8	BEARINGS	AISI 316		AISI 316	
9	BODY SEAT	METAL to METAL	6	METAL to METAL	6

\*STANDARD MATERIAL SHOWN  
OTHER OPTIONAL MATERIAL AVAILABLE SEE CATALOG  
ALL CARBON STEEL BODIES ARE EPOXY COATED

DIMENSIONS															
SIZE DN in.	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24	
SIZE DN mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	
OA in.	2	2.5	3	4	---	6	8	10	12	14	16	18	20	24	
OA mm.	50	65	76	100	---	150	200	250	300	350	400	450	500	600	
OB in.	2.375	3.000	3.625	4.625	---	6.70	8.62	10.62	12.62	14.62	16.62	18.62	20.75	24.75	
OB mm.	60	75	90	115	---	170	215	265	315	365	415	465	520	620	
C in.	2.375	2.625	2.875	3.125	---	5.375	6.500	8.375	9.000	10.750	12.000	14.250	14.500	17.250	
C mm.	60	67	73	79	---	136	165	213	229	273	305	362	368	438	
OD in.	4.375	5.125	5.875	7.625	---	10.500	12.625	15.750	17.875	19.375	22.250	24.000	26.875	31.125	
OD mm.	111	130	148	193	---	266	320	400	454	492	565	612	682	790	
Wt. in Lbs. ~	7.7	13.2	17.6	26.4	---	74.8	121	206.8	321.2	462	627	871	1118	1771	
Wt. in Kgs. ~	3.5	6.0	8.0	12.0	---	34.0	55.0	94.0	146.0	210.0	285.0	396.0	508.0	805.0	
CV	62	110	175	350	---	850	1500	2400	3700	4500	5500	7500	9200	14000	

Pressure Vs Temperature  
CV 46 CS & CV 46 SS ANSI 600 lbs.



Temperature limitation of Seat Material			
Seat	Temp. in °C	Temp. in °F	Seat code
BUNA-N	-30 to 120	-10 to 250	1
EPDM	-4 to 150	-20 to 300	2
VITON	-30 to 204	-60 to 400	3
METAL	-267 to 537	-450 to 1000	6

- Design ANSI B16-1, B16-34 & B16-5
- Material Per ASTM / ASME VIII Dev-2
- Conform to API594 & 6D
- Testing API 598

**RATING CS**  
1480 PSI WOG @ 100°F  
SEAT TEST = 1.1 WOG PSI  
SHELL TEST = 1.5 WOG PSI

Ordering Code \_\_\_\_\_  
Size \_\_\_\_\_  
Customer/Project \_\_\_\_\_  
Inq./P.O. No. \_\_\_\_\_  
Titan Order No. \_\_\_\_\_  
Certified Correct By \_\_\_\_\_ Date \_\_\_\_\_



**TITAN FLOW CONTROL, INC.**

**Dual Plate Check Valve  
CV46-CS & CV46-SS**

Series	Size	Part No.	Material Trim Code	Drawing No.
				<b>CV46-CS/SS</b>