

D-LINE CHECK VALVES ARE DESIGN FROM STANDARDS INDUSTRIES TO THE HEAVIEST-REQUIRED INDUSTRIES SUCH AS:

WATER & WASTE WATER, PULP & PAPER, CHEMICAL & PETROCHEMICAL, PORWER, MINING, PETROLEUM AND OIL & GAS.

D-LINE CHECK VALVES OFFERED IN DIFFERENT MATERIALS TO MEET THE DIFFERENT REQUIREMENTS TO SATISFY THE MANY INDUSTRIES IN THE MARKET.



3"

FEATURES

ECONOMICAL DESIGN

D-LINE CHECK VALVES HAVE AN APPROPRIATE DESIGN THAT MAKES THEIR LAYING LENGHT SHORT AND THEIR WEIGHT LOW TO PRODUCE SAVINGS IN INITIAL COSTS, SPACE REQUIREMENTS AND INSTALLATION MANAGEMENTS.

HIGH QUALITY STAINLESS STEEL BODY

D-LINE CV32T CHECK VALVE HAS A STAINLESS STEEL BODY THAT PERFORMS WELL IN HIGH TEMPERATURE APPLICATIONS. ADDITIONALLY, THE STAINLESS IS PICKLED AND PASSIVATED TO REMOVE AND ASSIST FORMATION OF A CONTINUOUS CHROMIUM-OXIDE.

QUICK CLOSURE TO REDUCE WATER HAMMER EFFECT

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

MINIMAL HEAD LOSS

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

RESILENT SOFT SEAT

PTFE SEAT OFFERS A VERY LOW COEFFICIENT OF FRICTION AND A HIGH STABILITY ON HIGH TEMPERATURES. IT IS RECOMMENDED FOR CHEMICAL ENVIRONMENTS SUCH AS ACIDS, BASES, OILS, STEAM AND OTHER FLUIDS. GOOD MECHANICAL PROPERTIES WHICH MAKES THE SEAT TO HAVE A WIDE RANGE OF TEMPERATURES AND STILL KEEPS ITS PLASTICITY TO COMPRESSION.

PRESSURE-TEMPERATURE RATINGS (NON-SHOCK)

SS ASTM A-351 GR. CF8M 275 PSI @ 100°F

SEAT MATERIAL RATINGS

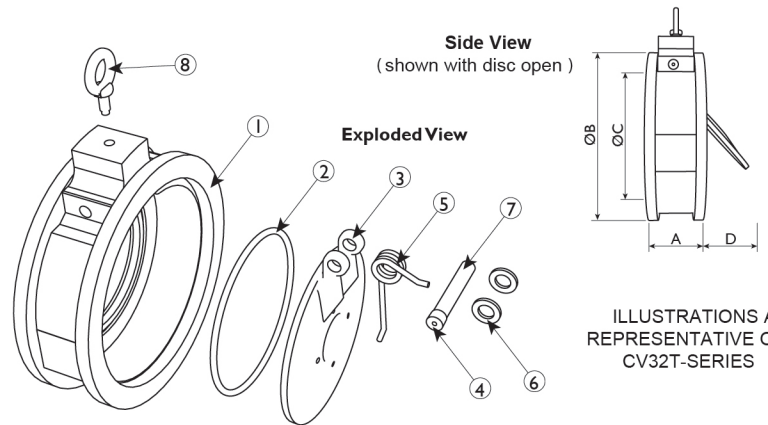
PTFE -100 TO 400 °F

SPRING MATERIAL RATING

SERIE 300 SS: 450 °F

BILL OF MATERIALS (1)

NO.	DESCRIPTION	CV32T SERIES
1	BODY ⁽³⁾	ASTM A-351 GR. CF8M
2	SEAT	PTFE
3	DISC	STAINLESS STEEL 316
4	SPRING ⁽²⁾	SERIES 300 STAINLESS STEEL
5	SHAFT/STOP PIN	SERIES 300 STAINLESS STEEL
6	NPT PLUG	COMMERCIAL STEEL
7	EYE-BOLT	COMMERCIAL STEEL



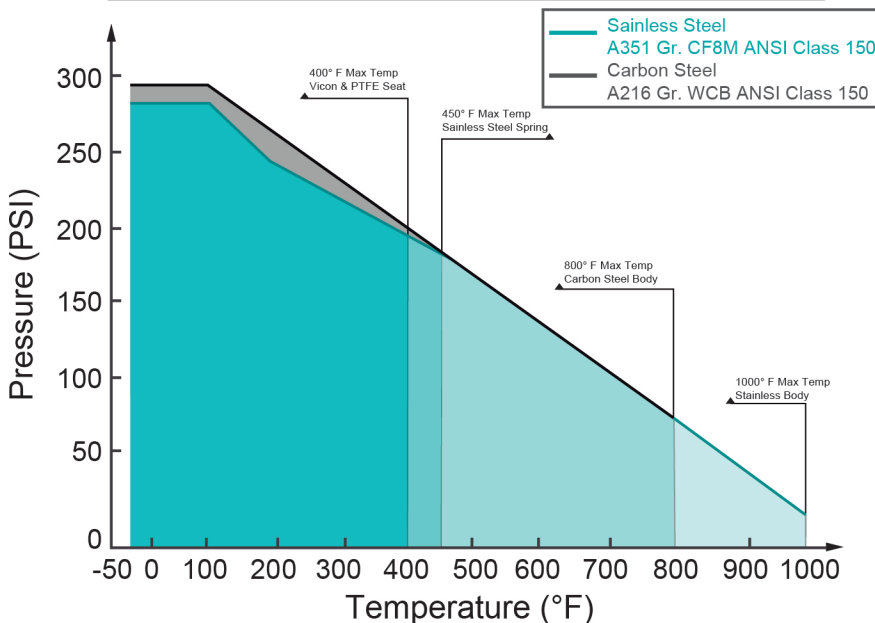
- 1-. BILL OF MATERIAL REPRESENTS STANDARD MATERIALS. EQUIVALENT OR BETTER MATERIALS MAYBE SUBSTITUTED AT THE MANUFACTURER'S DISCRETION.
- 2-. DENOTES RECOMMENDED SPARE PARTS.
- 3-. SS BODY IS PICKLED AND PASSIVATED.

DIMENSIONS & PERFORMANCE DATA (1)

SIZE IN	MM	A ⁽²⁾ FACE TO FACE	ØB OVERALL DIAMETER	ØC INLET DIAMETER	D DISC MAX TRAVEL	WEIGHT (KG)	CRACKING PRESSURE (PSI)	FLOW COEFFICIENT (CV)
2"	50	2.38	4.00	1.31	0.50	2.30	≤ .25	62
2 1/2"	65	2.62	4.87	1.85	0.62	2.70	≤ .25	109
3"	80	2.62	5.25	2.06	0.80	3.60	≤ .25	166
4"	100	2.62	6.75	3.00	1.87	6.00	≤ .25	318
6"	150	3.75	8.62	4.75	2.70	14.50	≤ .25	720
8"	200	5.00	10.87	6.44	3.00	22.70	≤ .25	1384
10"	250	5.75	13.25	7.62	4.35	36.20	≤ .25	2298
12"	300	7.12	16.00	9.50	4.00	64.00	≤ .25	4153

- 1-. DIMENSIONS WEIGHTS ARE FOR REFERENCE ONLY. ALL DIMENSIONS ARE EXPRESSED IN INCHES.
- 2-. FACE TO FACE VALUES HAVE A TOLERANCE OF +0.06 IN FOR SIZES 10" & LOWER. FOR SIZES 12" & UP ±.12 IN.
- 3-. CRACKING PRESSURE IS FOR HORIZONTAL INSTALLATIONS ONLY. FOR VERTICAL INSTALLATIONS CONSULT FACTORY.

PRESSURE - TEMPERATURE RATINGS



REFERENCES STANDARDS & CODES

CODE	DESCRIPTION
ANSI/API 594	VALVE DESIGN & MANUFACTURE
ASME B16.42	VALVE PRESSURE-TEMPERATURE RATINGS
ANSI/ASME B16.5	FLANGE DIMENSIONS
ANSI/API 594	VALVE FACE TO FACE DIMENSION
API 598	VALVE INSPECTION & PRESSURE TEST
MSS SP-6	STANDARD FINISHES FOR CONNECTING-END FLANGES
MSS SP-25	STANDARD MARKING SYSTEM FOR VALVES