

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.



## 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 MANAGERMENTS.

### HIGH QUALITY STAINLESS STEEL BODY

D-LINE CV32T CHECK VALVE HAS A STAINLESS STEEL BODY THAT PERFORMS WELL IN HIGH TEMPERATURE APPLICATIONS. ADITIONALLY, 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 MECHANIC, 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

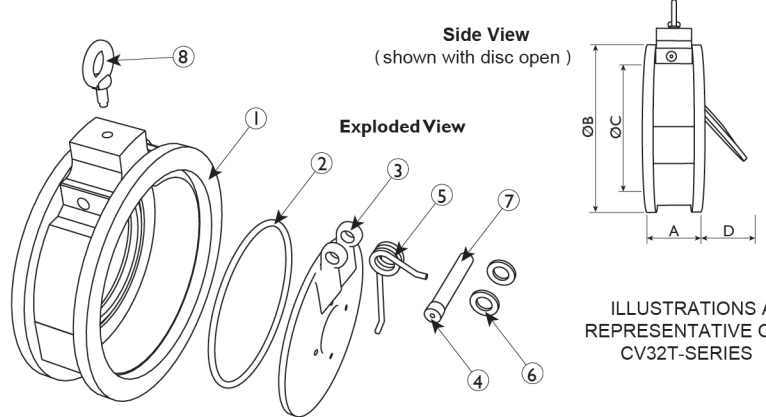
PTFE      -100 TO 400 °F

#### SPRING MATERIAL RATING

SERIE 300 SS: 450 °F

### BILL OF MATERIALS (1)

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



ILLUSTRATIONS ARE REPRESENTATIVE OF THE CV32T-SERIES

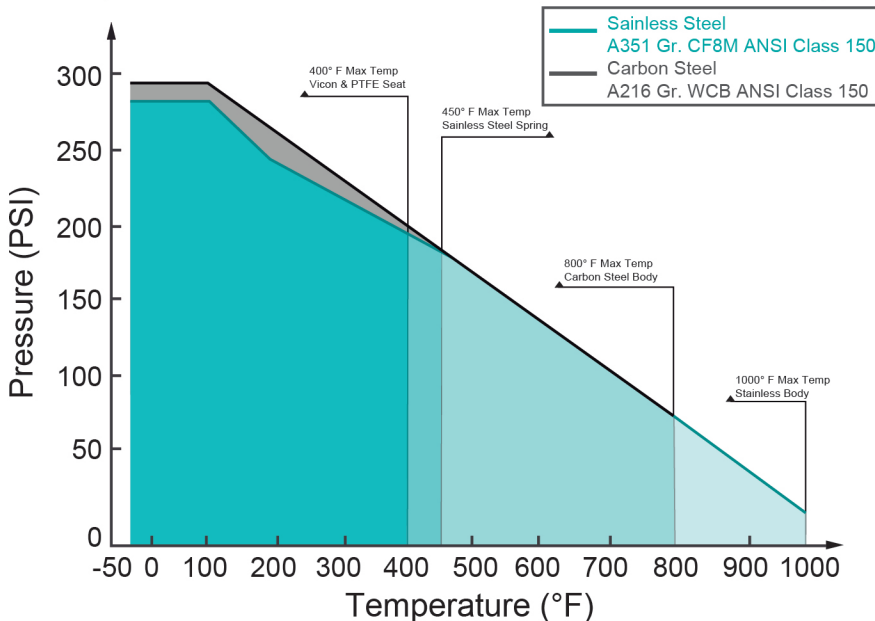
- 1-. BILL OF MATERIAL REPRESENTS STANDARD MATERIALS. EQUIVALENT OR BETTER MATERIALS MAYBE SUBSTITUTED AT THE MANUFACTURER'S DISCRETION.
- 2-. DENOTES RECOMMENDED SPARE PARTS.
- 3-. SS BODY IS PICKLED AND PASSIVATED.

### DIMENSIONS & PERFORMANCE DATA (1)

SIZE IN	SIZE MM	A <sup>(2)</sup> 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