



DLINE DUO CHECK VALVES ARE DESIGN FROM THE STANDARDS INDUSTRIES TO THE HEAVIEST-REQUIRED INDUSTRIES SUCH AS:

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

DLINE DUO CHECK VALVES 2"-6" ARE DUAL PRESSURE SERVICES TO ANSI CLASS 150 & 300. THE SAME D-LINE VALVE CAN BE INSTALLED IN EITHER CLASS 150 OR 300 FLANGES.



DESIGN FEATURES

8" CV44M-SS

EFFICIENT DESIGN

LOW WEIGHT AND SHORT LAYING LENGHT PRODUCES SPACE REQUIREMENTS, AND AN EASY INSTALLATION COMPARED TO FULL- BODY, SWING-CHECK VALVES.

FUGITIVE EMISSION DESIGN

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

MINIMAL HEAD LOSS

CONTOUR OF BODY PROVIDES A SHORT AND STRAIGHT FLOW PATH THAT GENERATES VERY LITTLE TURBULANCE. ADDITIONALLY, THE SPRING- THE SPRING-LOADED DISCS ARE DESIGNED WITH VERY LOW CRACKING PRESSURE WICH 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 LICHTWEIGHT, SPLIT THE DISC DESIGN CREATES A POSITIVE SHUTOFF PRIOR TO FLOW REVERSAL AND HELPS TO KEEP SLAMMING AND SURGES TO A MINIMUM.

RESILENT AND METAL SEATS:

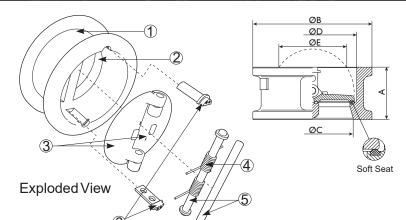
BOARD, LAPPED SURFACE (METAL) MEETS OR EXCEED API 598 TEST
REQUIRMENTS. RESILENT SEATS (BUNA/VITON) ENSURE A BUBBLE TIGHT SEAL. **BUNA-N SEAT** IS THE MOST
WIDELY USED ELASTOMER. GOOD FOR MOST PETROLEUM OILS & FLUIDS, SILICONE GREAES AND OILS, AND
COLD WATER. EXCELLENT COMPRESSION SET, TEAR, AND ABRASION RESISTANCE. POOR WEATHER
RESISTANCE AND MODERATE HEAT RESISTANCE. NOT RECCOMENDED FOR SEVERE OZONE- RESISTANT
APPLICATIONS. **VITON SEAT** OFFERS A BROAD RANGE OF CHEMICAL RESISTANCE ANS 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 ANS SHRINKAGE.

| PRESSURE-TEMPERATURE RA | SEAT MATE | RIAL RATINGS | SPRING MATERIAL RATING | |
|-------------------------|------------------|--------------|------------------------|----------------------|
| CS ASTM A-216 GR. WCB | 740 PSI @ 100°F | VITON | -40 TO 400 °F | INCONEL X750 1000 °F |
| SS ASTM A-351 GR. CF8M | 720 PSI @ 100 °F | BUNA | -20 TO 250 °F | |



CV44 SERIES

| BILL OF MATERIAL (1) | | | | | |
|----------------------|-----------------|-----------------------|---------------------|--|--|
| NO. | DESCRIPTION | CV44-CS (3) | CV44-SS | | |
| 1 | BODY | ASTM A-216 GR. WCB | ASTM A-351 GR. CF8M | | |
| 2 | SEAT | METAL/VITON/BUNA-N(4) | METAL OR VITON | | |
| 3 | DISC (2) | ASTM A-351 GR. CF8M | ASTM A-351 GR. CF8M | | |
| 4 | SPRING (2) | INCONEL X-750 | INCONEL X-750 | | |
| 5 | SHAFT /STOP PIN | ASTM A-276 GR. 316 | ASTM A-276 GR. 316 | | |
| 6 | PIN CAP | ASTM A-105 | ASTM A-351 GR. CF8M | | |



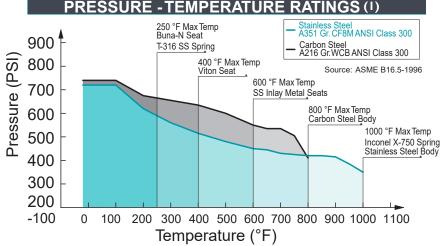
*ILUSTRATIONS ARE REPRENTATIVE OF SERIES CV44 8" THROUGH 24"

*WAFER STYLES SIZES 2" THROUGH 6" ARE SCALLOPED FOR DUAL PRESSURE SERVICE (ANSI CLASS 150 AND 300)

- 1-. BILL OF MATERIAL REPRESENTS STANDARD MATERIALS. EQUIVALENT OR BETTER MATERIALS MAY BE SUBSTITUTED AT THE MANUFACTURER'S DISCRETION.
- 2-. DENOTES RECOMMENDED SPARE PARTS.
- 3-. CARBON STEEL BODIES ARE EPOXY PAINTED
- 4-. METAL SEAT IS STAINLESS STEEL INLAY.

| DIMENSIONS & PERFORMANCE DATA (1) | | | | | | | | | |
|-----------------------------------|----------|----------------------|------------------------|----------------------|-----------------------|-----------------------------|----------------|-------------------------------|-------------------------|
| SI IN | ZE MM | A(2) FACE TO FACE | ØB OVERALL DIAMETER | ØC INLET DIAMETER | ØD OUTLET DIAMETER | ØE(4) MINIMUM BORE DIAMETER | WEIGHT (KG) | CRACKING PRESSURE (3)(PSI) | FLOW COEFFICENT (CV) |
| 2" | 50 | 2.38 | 4.33 | 2.00 | 2.16 | 0.94 | 2.50 | ≤ .25 | 62 |
| 2 1/2" | 65 | 2.62 | 5.04 | 2.50 | 2.67 | 1.73 | 3.60 | ≤ .25 | 110 |
| 3" | 80 | 2.88 | 5.78 | 3.00 | 3.23 | 2.36 | 4.50 | ≤ .25 | 175 |
| 4" | 100 | 2.88 | 7.05 | 4.00 | 4.25 | 3.54 | 7.00 | ≤ .25 | 350 |
| 5" | 125 | 3.38 | 8.43 | 5.00 | 5.12 | 4.45 | 10.60 | ≤ .25 | 550 |
| 6" | 150 | 3.87 | 9.81 | 6.52 | 6.38 | 5.31 | 16.30 | ≤ .25 | 850 |
| 8" | 200 | 5.00 | 12.00 | 8.00 | 8.66 | 7.13 | 29.90 | ≤ .25 | 1500 |
| 10" | 250 | 5.75 | 14.15 | 10.00 | 10.63 | 8.82 | 46.30 | ≤ .25 | 2400 |
| 12" | 300 | 7.12 | 16.55 | 12.00 | 12.60 | 10.48 | 70.80 | ≤ .25 | 3700 |
| 14" | 350 | 8.75 | 19.02 | 13.26 | 13.46 | 11.81 | 107.00 | ≤ .25 | 5400 |
| 16" | 400 | 9.12 | 21.18 | 15.24 | 15.75 | 14.30 | 137.00 | ≤ .25 | 8250 |
| 18" | 450 | 10.38 | 23.38 | 17.50 | 18.25 | 15.87 | 176.90 | ≤ .25 | 10400 |
| 20" | 500 | 11.50 | 25.70 | 19.00 | 19.50 | 17.87 | 244.90 | ≤ .25 | 14200 |
| 24" | 550 | 12.50 | 30.40 | 23.42 | 24.00 | 21.73 | 303.90 | ≤ .25 | 23000 |

- 1-. DIMENSIONS ARE EXPRESSED IN INCHES AND WEIGHTS ARE ESPRESSED IN KG AND FOR REFERENCE ONLY. WHEN REQUIRED CERTIFIED DRAWINGS.
- 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.
- 4-. MINIMUM BORE DIAMETER INDICATES THE MINIMUM INTERNAL DIAMETER OF THE ADJACENT PIPE.



| | REFERENCES STANDARDS & CODES | | | | | |
|--------|------------------------------|---|--|--|--|--|
| | CODE | DESCRIPTION VALVE DESIGN & MANUFACTURE | | | | |
| | ANSI/API 594 | | | | | |
| | ASME B16.34 | VALVE PRESSURE-TEMPERATURE | | | | |
| | | RATINGS | | | | |
| | ANSI/ASME B16.5 | FLANGE DIMENSIONS | | | | |
| | ANSI/API 594 | VALVE FACE TO FACE DIMENSION | | | | |
| | API 598 | VALVE INSPECTION & PRESSURE | | | | |
| g / | | TEST | | | | |