

CV41B SERIES

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 CLASS 300 ANSI/ASME B16.5 FLANGES.



6" CV41B-DI

DESIGN FEATURES

DUCTILE IRON BODY

DUCTILE IRON BODY MANTAINS THE ANTI-CORROSIVE PROPERTIES OF CAST I. WHILE ACHIEVING A YIELD STRENGHT COMPARABLE TO CARBON STEEL. DUCTILE IRON OFFERS HIGHER PRESSURE/TEMPERATURE RATINGS THAN CAST IRON.

QUICK CLOSURE TO REDUCE WATER HAMMER

SHUT-OFF IS ACHIEVED VIA THE FULLY AUTOMATIC, SPRING-ASSISTED DISCS THAT CLOSE NEAR ZERO FLOW VELOCITY. THE LIGHT WEIGHT, 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 SEATS

RESILENT SEATS (BUNA/EPDM/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.
NOT RECCOMENDED FOR SEVERE OZONE-RESISTANT APPLICATIONS. **EPDM SEAT** IS THE MOST WATER
RESISTANT RUBBER. IT HAS GOOD RESISTANCE TO MILD ACIDS, ALKALIS, SILICONE, OILS/GREASES,
KETONES, ALCOHOLS AND OTHER POLAN SOLVENTS. IT IS NOT RECOMMENDED TO BE USED WITH
PETROLEUM OILS, MINERAL OILD, DI-ESTER LUBRICANTS, NON-POLAR SOLVENTS OR AORMATIC FUELS.

VITION SEAT OFFERS A BROAD RANGE OF CHEMICAL RESISTANCE AND EXCELLENT HEAT RESISTANCE.
GOOD MECHANICAL PROPERTIES AND COMPRESSION SET RESISTANCE. OFTEN USED IN APPLICATION
WHERE NOTHING ELSE WILL WORK. FAIR LOW TEMPERATURE RESISTANCE AND LIMITED HOT-WATER
RESISTANCE AND SHRINKAGE.

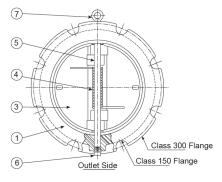
SEAT MATERIAL RATINGS

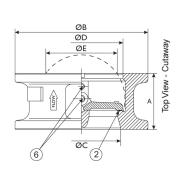
SPRING MATERIAL RATING



CV41B SERIES

MATERIAL LIST (1)									
NO.	DESCRIPTION	CV41B SERIES							
1	BODY ₍₄₎	DUCTILE IRON ASTM A-536							
2	SEAT	BUNA-N							
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 (3)	COMMERCIAL STEEL							





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

- 1.- MATERIAL LIST REPRESENTS STANDART MATERIALS EQUIVALENT OR BETTER MATERIALS MAYBE SUBSTITUTED AT THE MANUFACTURER'S DISCRETION.
- 2.- DENOTES RECOMMENDED SPARE PARTS.
- 3.- PART #7 EYE BOLT, IS ONLY FOR 8" & UP.
- 4.- DI BODY IS EPOXY PAINTED.

DIMENSIONS & PERFORMANCE DATA (1)											
SI IN	ZE MM	A ₍₂₎ FACE TO FACE	ØB OUTLET OUTSIDE DIAMETER	ØC INLET INSIDE DIAMETER	ØD OUTLET INSIDE DIAMETER	ØE MINIMUM BORE DIAMETER	WEIGHT	CRACKING PRESSURE (3) (PSI)	FLOW COEFFICENT(CV)		
2"	50	2.12	4.37	2.00	2.62	0.00	1.80	≤ .25	62		
2 1/2"	65	2.12	5.12	2.50	3.12	1.26	2.30	≤ .25	110		
3"	80	2.25	5.75	3.00	3.87	2.36	3.20	≤ .25	175		
4"	100	2.50	7.12	4.00	4.75	3.43	6.30	≤ .25	350		
5"	125	2.75	8.50	5.00	6.00	4.57	8.20	≤ .25	550		
6"	150	3.00	9.87	6.00	7.00	5.32	12.0	≤ .25	850		
8"	200	3.75	11.00	8.00	9.00	7.48	19.50	≤ .25	1500		
10"	250	4.25	13.37	10.00	11.00	9.45	31.70	≤ .25	2400		
12"	300	5.62	16.12	12.00	13.25	11.26	48.90	≤ .25	3700		
14"	350	7.25	17.75	14.00	14.25	11.26	79.40	≤ .25	5400		
16"	400	7.50	20.25	16.00	16.25	13.70	90.70	≤ .25	8250		
18"	450	8.00	21.62	18.00	18.12	15.63	117.00	≤ .25	10400		
20"	500	8.37	23.87	20.00	20.12	17.64	156.50	≤ .25	14200		
24"	550	8.75	28.25	24.00	24.00	21.97	208.70	≤ .25	23000		

- 1-. DIMENSIONS ARE EXPRESSED IN INCHES AND WEIGHTS ARE EXPRESSED IN KG AND ARE 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 \pm 12 IN.
- 3-. CRACKING PRESSURE IS FOR HORIZONTAL INSTALLATIONS ONLY. FOR VERTICAL INSTALLATIONS CONSULT FACTORY.

