

DUAL PLATE WAFER CHECK VALVES

10HMP

API 594

PN10

Cast iron ASTM A126 B
Aluminium bronze plates
Plain face ends
DN350 to DN600



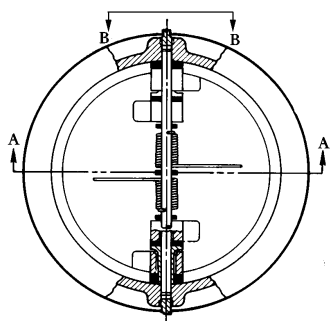
10HMP

Dual plates

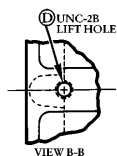
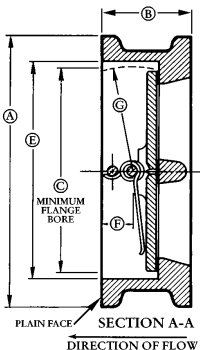
Buna-N seal

Stainless steel springs

Stainless steel pins



This view is rotated 90° to show the actual opening position of the valve.
The pin must be vertical for horizontal flow.



STOCKHAM

Applications - Duo-Chek II® provide instantaneous response to changes in velocity pressure for all fluid media compatible with the materials of construction. They are suitable for PN10 piping systems within the P/T limits shown and may be installed in almost any position. Low weight and short face-to-face dimensions mean easy installation without the need for expensive support. These high performance valves are widely used in all process industries with specific approval (WRC) for the water industry.

Specification - manufacture conforms to the requirements of API 594 with valve inspection and test in accordance with API 598 under a total quality management system to ISO 9001. The body is in cast iron ASTM A126 B/BS 1452 Gr.420. The independently suspended dual plates are fabricated in aluminium bronze ASTM B148 952/BS 1400 AB2. The circumferential seal is in Buna-N. Springs and pins are in 316 stainless steel. The valves have plain faced ends and are designed to fit between mating flanges; a lift hole is incorporated in all sizes. Pressure loss and head loss data are freely available from our Technical Department.

Flow characteristics - K_v - horizontal flow only with pins vertical.

DN	350	400	450	500	600
K_v	6 125	8 478	11 481	14 969	23 678

P/T ratings - maximum non-shock working pressure for cast iron body in accordance with API 598.

Temperature °Celsius	-29° +66°	93°	107°	121°	135°	148°	162°	178°
Pressure bar	16,0	9,3	8,9	8,6	8,2	7,6	7,2	6,9

Shaded area exceeds the limitations of Buna-N.

Materials

Part	Material	Part	Material
Body	ASTM A126 B	Springs	Stainless steel 316
Plates	ASTM B148 952	Stop pin	Stainless steel 316
Seal	Buna-N	Pin retainer	Stainless steel 316
Hinge pin	Stainless steel 316		

Testing - each valve is hydrostatically tested to 18 bar at 38° Celsius.

Dimensions mm/Weights - in accordance with BS 4504

DN	in	A	B	C	D	E	F	G	kg
350	14	440	184	318	13UNC	356	94	171	75,0
400	16	491	191	381	13UNC	406	89	197	88,0
450	18	541	203	429	10UNC	457	86	222	122,0
500	20	596	213	478	10UNC	508	90	248	177,0
600	24	698	222	575	10UNC	610	87	295	260,0

Options - sizes DN50 through DN300 ; sizes DN700 and larger; longer face-to-face; serrated and special facings; internal faces coated with WRC approved paint; WRC testing; Inconel springs; Viton seals; PN16 and PN25 ratings; specially torque-rated springs; drain holes; testing to API 6A, API 6D and MSS-SP-61; materials and test certificates; tagging.

