CAST IRON

WAFER CHECK VALVE

INTRODUCTION

Leader Wafer Check Valves are designed to prevent the reversal of flow in a piping system. Valve is activated by the flowing material in the pipeline. The pressure of the fluid passing through the system opens the valve, while any reversal of flow will close the valve. Closure is accomplished by the weight of the check mechanism, by back pressure. The eccentric mounted hinge pin in combination with the disc seat guarantees a positive shut off of the returning media.

PRINCIPAL FEATURES

- Wafer Type Single Disc design.
- Renewable resilient (EPDM / Nitrile) seat ensure Leakage Class IV (Zero Leakage).
- Very low face to face dimensions hence space required for mounting is less than 10% of that conventional Swing Check valves.
- Very low weight-total weight is only approximately 1/6 the weight of a conventional check valve.
- Short wafer body enables mounting the valve with shorter length fasteners of lesser number compared to flanged swing check valve. Approximately 50% saving in cost of fasteners.
- Tightening torque to be applied on the companion flange bolting is lower due to face sealing O-rings.
- Practically maintenance free due to fewer number of parts and simple construction.
- Renewable resilient seat ensure Zero leakage.
- Suitable for insertion between flanges as per BS-10 table 'E'.
- Less wear and tear of seat surface due to O-Ring type body seat facing.
- The need for flange gaskets during installation is totally eliminated due to the in-built face sealing 'O' rings provided on the sealing face.
- Either vertically (only upwards) or horizontally installed.

END CONNECTION

Suitable for insertion between flanges as per BS 10 Table E.
Suitability for insertion between other flange standards also available upon request.

UTILISATION & SERVICE

"LEADER" Cast Iron Wafer Type Check valves are suitable for above-ground installations.
Best suited for water, heating, air conditioning and compressed air devices.

WORKING PRESSURE

Maximum Working Pressure: 16 Bar.
See Pressure / Temperature Diagram.

TEMPERATURE LIMITS

Maximum Working temperature: 120ºC.
See Pressure / Temperature Diagram.

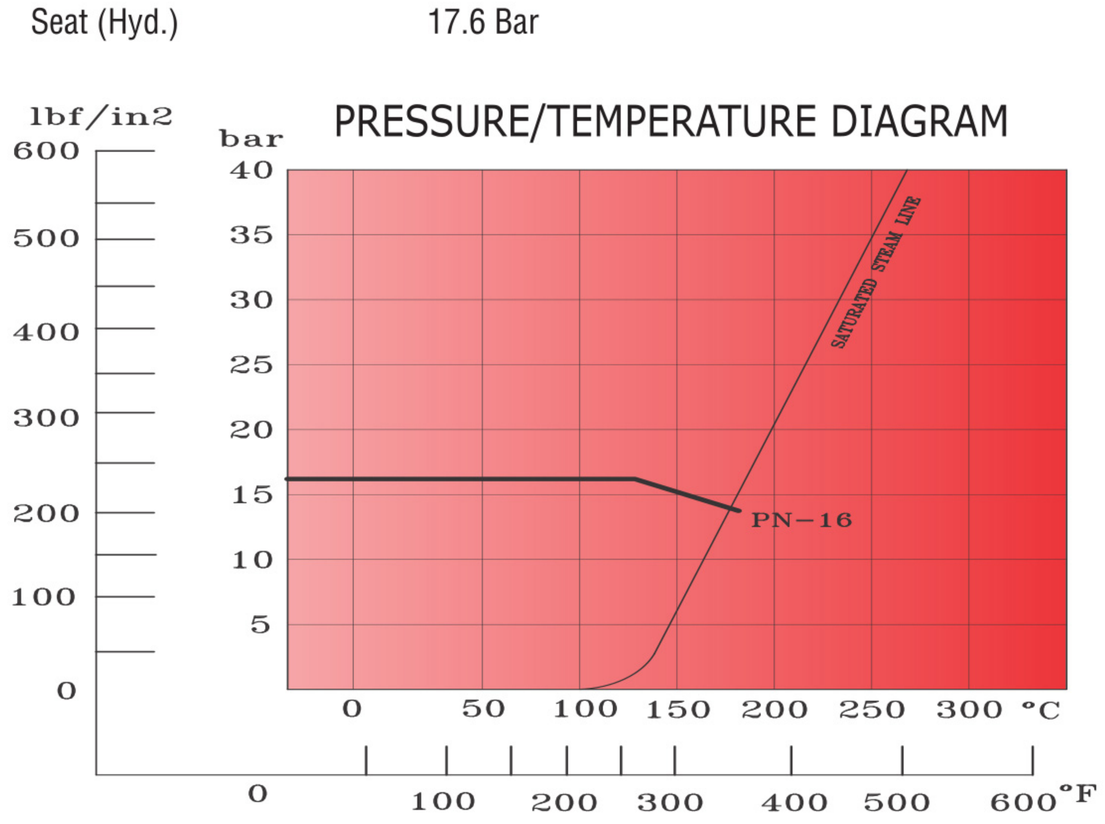
Item Code:	CI0038,	CI038A
Disc:	Cast Iron,	SS(CF8)
Pressure Rating:	PN-16	
Testing Standard:	Mfg. Standard	
Size Range:	40mm to 300mm	

SUITABLE FOR

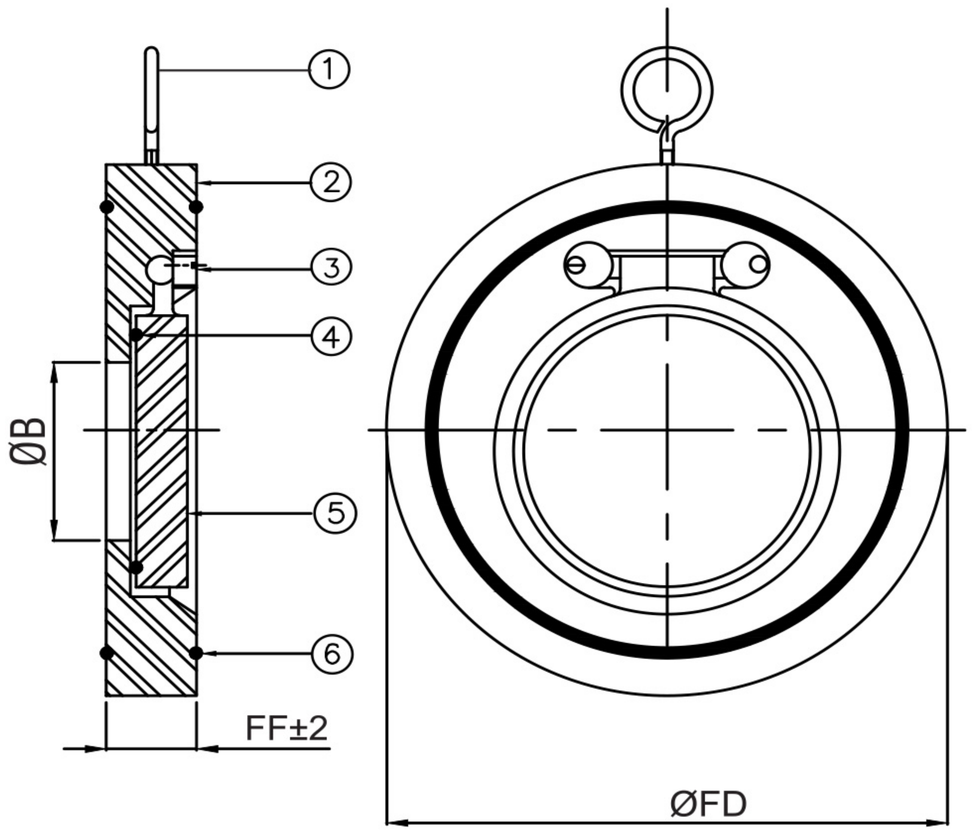
Water	Oil	Air	Gases
✓		✓	

TEST PRESSURE (Hydrostatic)

Rating	PN-16
Body (Hyd.)	24 Bar
Seat (Hyd.)	17.6 Bar



Note : The above data is subject to change without notice due to our continuing product improvement program.



MATERIAL SPECIFICATION

P.No.	NAME OF PART	MATERIAL	SPECIFICATION
1	HOCK	STEEL	—
2	BODY	CAST IRON	BSEN 1561 Gr. GJL 200
3	SCREW	CARBON STEEL	—
4	O-RING	MILD STEEL	
5	DISC	C.I. / S.S.	BSEN 1561 Gr. GJL200 / ASTM A351 Gr. CF8
6	O-RING	NITRILE RUBBER	

DIMENSIONAL DATA

SIZE (mm)	40	50	65	80	100	125	150	200	250	300
FF $^{\pm 2}$	19	19	19	19	19	19	19	28	28	52
ØFD	86	97	110	129	161	194	216	273	335	379
ØB	24.2	30.7	41.5	51.7	70.8	98.5	118.7	157.3	195	228

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