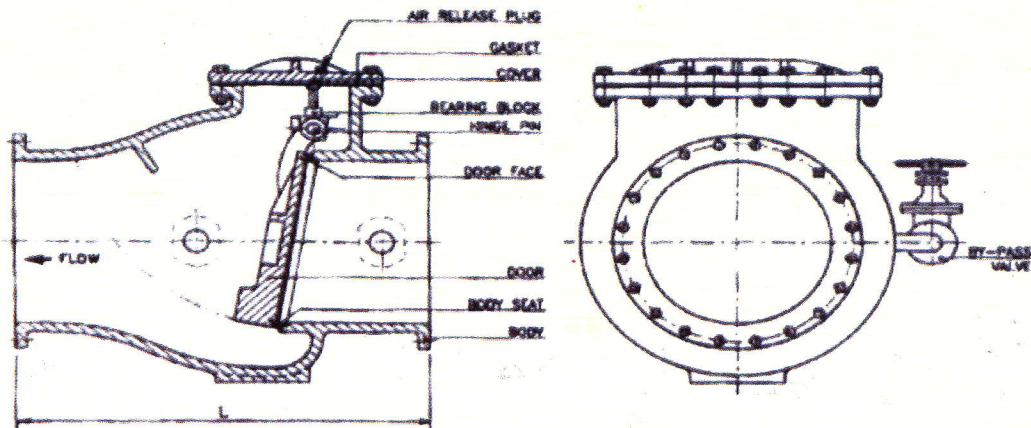




NATRAJ VALVES FOR WATER/WASTE WATER/SEWAGE

Non Return Valve for Water Works (as per IS 5312)



Natraj Valves offers the choice of Valves in Cast Iron/Ductile Iron/Steel WCB material but Natraj Valve recommends use of Ductile iron.

Ductile Iron at Natraj valves is made as per IS 1865 or ASTM A395 using State of the Art Spectrometer and Testing Systems as per International Norms.

Ductile iron outperforms Cast Iron/Malleable iron due to its better mechanical characteristics.

Ductile Iron almost equals the properties of cast steel, which is an expensive material for industrial valves. Furthermore, their superior castability and machinability help to increase their suitability as a valve material.

Strictest Metallurgical Standards are maintained at the in house Foundry in Natraj Valves resulting in manufacturing of World Class Valves.

Component	Material	IS Code	Grade
Body, cover, Door, Bearing Holder	Ductile Iron	IS 1865: 1974	SG 400/12
Hinge Pin, Door Pin, suspension Pin	Stainless steel	IS 6603	12Cr12
Lead Seat Ring/Door Face Ring, Bearing Bush	Leaded Tin Bronze	IS 318	LTB 2
Plug for Hinge Pin, Air Release Plug	Leaded Tin Bronze	IS 318	LTB 2
Gasket External Bolting	Rubber Carbon steel, Tensile Strength 390N/mm ²	IS 638 --	Type B ---
Dimensions		As per IS 5312/ Approved drg of customer	

Common Inspection Test Methods

Test / Inspection	Method	Acceptance Criteria
Visual Inspection		Mss SP55
Chemical Analysis	ASTM E350	Relevant ASTM
Mechanical Properties	ASTM A370	Relevant ASTM
Radiographic Inspection*	ASME B16.34	ASME B16.34
Liquid Penetrant Inspection	ASTM E165	ASME B16.34
Ultrasonic Inspection	ASTM A388	ASME B16.34
Positive Material Identification (PMI)	Emission spectrometer	Customer specification/Relevant IS Codes
Pressure Testing*	API 600/API 598/BS 6755 Part II Or IS 13095	API 600/API 598/BS 6755 Part I or IS 13095
Dimensional Inspection		Valve Standard/Approved Drawing