

**PRODUCT MANUAL FOR  
BUTTERFLY VALVES FOR GENERAL PURPOSES  
AS PER IS 13095: 1991**

*This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification license/certificate.*

1.	<b>Product</b>	:	<b>IS 13095 : 1991</b>
	<b>Title</b>	:	<b>Butterfly Valves for General Purposes</b>
	<b>No. of Amendments</b>	:	1
2.	<b>Sampling Guidelines:</b>		
a)	<b>Raw material</b>	:	As per Clause 15 of IS 13095 :1991
b)	<b>Grouping guidelines</b>	:	Please refer <a href="#">ANNEX-A</a>
c)	<b>Sample Size</b>	:	One Valve
3.	<b>List of Test Equipment</b>	:	Please refer <a href="#">ANNEX – B</a>
4.	<b>Scheme of Inspection and Testing</b>	:	Please refer <a href="#">ANNEX – C</a>
5.	<b>Possible tests in a day</b>	:	All test
6.	<b>Scope of the Licence :</b>		
“License is granted to use Standard Mark as per IS 13095 :1991 with the following scope:			
<b>Name of the Product:</b>	Butterfly Valves for General Purposes		
<b>Type</b>	Service Application/ Nominal Sizes/ Nominal Pressure/ Class Designation/ End Connection.		

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**ANNEX A**

**Grouping Guidelines**

1. The parameters given below shall be considered for grouping of Butterfly Valves for General Purposes as per IS 13095 : 1991 for GoL/CSoL:

(a) **Service Application** : Tight shut- off, Regulating, Low Leakage, Vacuum condition

(b) **Nominal Sizes**

<b>Group</b>	<b>Nominal Sizes (in mm)</b>
Group I	DN 40 upto and including DN 300
Group II	DN 350 upto and including DN 600
Group III	DN 700 upto and including DN 1200
Group IV	DN 1400 upto and including DN 2000

(c) **Nominal Pressure** : PN 0.25, PN 0.6, PN 1.0, PN 1.6, PN 2.5 and PN 4.0

(d) **Class Designation**: Class 125/Class150/Class 300

(e) **End Connections**: Double Flanged Valves, Wafer Valves

2. One sample of any nominal size from each group for each Type (Service Application, Nominal Pressure, Class Designation and End Connection) shall be tested to cover all the sizes in that Group for the particular type tested.
3. The Firm shall declare the varieties of Butterfly Valves for General Purposes intended to be covered in the Licence. The Scope of Licence may be restricted based on the Manufacturing and testing capabilities of the Manufacturer.
4. During the operation of the Licence, BO shall ensure that all the varieties covered in the Licence are tested in rotation, to the extent possible.

**ANNEX B**  
**List of Test Equipment**

*Major test equipment required to test as per the Indian Standard*

<b>Sl. No</b>	<b>Test Used with Clause Reference</b>	<b>Test Equipment</b>
1.	Dimensions as per Clause 9, Clause 10 and Clause 11	(a) Vernier Calipers (b) Steel Scale (c) Measuring Tape
2.	Hydrostatic Test as per Clause 17	(a) Hydraulic Testing Fixture (b) Water Pump (c) Pressure Gauge

*The above list is indicative only and may not be treated as exhaustive.*

**ANNEX C**

**Scheme of Inspection and Testing**

**1. LABORATORY** - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

**1.1** The manufacturer shall prepare a calibration plan for the test equipment.

**2. TEST RECORDS** – The manufacturer shall maintain test records for the tests carried out to establish conformity.

**3. LABELLING AND MARKING** – As per the requirements of IS 13095: 1991.

**4. LEVELS OF CONTROL** - The tests as indicated in column 1 of [Table 1](#) and the levels of control in column 3 of [Table 1](#), shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

**4.1** All the production which conforms to the Indian Standard and covered by the licence should be marked with Standard Mark.

**5. REJECTIONS** – Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1

(1)				(2)	(3)		
Test Details				Test equipment requirement R:required (or) S: Subcontracting permitted	No. of Sample	Levels of Control	
Cl.	Requirement	Test Method				Frequency	Remarks
		Clause	Reference				
9, 10, 11	Body Ends Face to Face Dimensions Bodies	10, 11 and Table 1, Annex B	IS 13095	R	Each Valve	-	-
15	Material	15 Table 2	IS 13095	S	One	Each Consignment	No further testing is required, if accompanied with the Test Certificate or ISI Marked.
17	Testing (Hydrostatic Test, Performance Test, Body Test, Seat Test and Disc Strength Test)	17 Table 3 Table 4	IS 13095	R	Each Valve		If any valve fails in this test, valve shall be rejected and shall not be marked with ISI mark.
22	Preparation for Despatch	22	IS 13095	R	Each Valve		

**NOTE-1:** Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

**NOTE-2:** Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.