उत्पाद मैन्युअल
आई एस 13095: 2020 के अनुसार
सामान्य प्रयोजनार्थ बटरफ्लाई वाल्व के लिए
दस्तावेज़ संख्या – पी एम/आई एस 13095/5/मई 2026

भारतीय मानक ब्यूरो की स्कीम-I (अनुरूपता मूलयाांकन) विनियम, 2018 के तहत यह उत्पाद मैन्युअल प्रमाणीकरण के प्रचालन में रीति और पारिर्शिता की सुसंगतता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों और लाइसेंसी द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस प्रमाणीकरण लाइसेंस/ प्रमाणपत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोग किया जा सकता है ।

PRODUCT MANUAL FOR
BUTTERFLY VALVES FOR GENERAL PURPOSES
ACCORDING to IS 13095: 2020

Document No.- PM/IS 13095/5/May 2026

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 licence/certificate.

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1.	**Product**	:	IS 13095: 2020
	Title	:	Butterfly Valves for General Purposes
	No. of Amendments	:	Three
2.	**Sampling Guidelines:**		
a)	**Raw material**	:	As per Cl. 15 of IS 13095: 2020
b)	**Grouping guidelines**	:	Please refer ANNEX – A
c)	**Sample Size**	:	One Valve
3.	**List of Test Equipment**	:	Please refer ANNEX – B
4.	**Scheme of Inspection and Testing**	:	Please refer ANNEX – C
5.	**Possible tests in a day:** All tests		
6.	**Scope of the Licence**	:	Please refer ANNEX – D

ANNEX A
Grouping Guidelines

1. The parameters given below shall be considered for grouping of Butterfly Valves for General purposes as per IS 13095: 2020 for Grant of licence(GoL) and Change in Scope of licence (CSoL):

   a) **Material of body**: Cast iron, Ductile iron, Carbon Steel, Stainless steel, Aluminium
   b) **Service Application**: Tight shut-off, Regulating, Low leakage, Vacuum condition
   c) Nominal Sizes (DN):

Group	Nominal Sizes (DN)
I	40, 50, 65, 80, 100
II	125, 150, 200, 250, 300
III	350, 400, 450, 500, 600
IV	700, 800, 900
V	1000, 1200, 1400
VI	1600, 1800, 2000

   (For Aluminium body valves, only up to 300 DN)

   d) **Nominal Pressure (PN):** PN 0.25, PN 0.6, PN 1.0, PN 1.6, PN 2.5, PN 4.0
   e) **End Connections:** Double flanged valves, Wafer Valves
   f) **Operation**: Manual, Electric, Hydraulic, Pneumatic

2. One sample of highest nominal size from each group for each Type (Material, Service Application, Nominal Pressure, End Connection and Operation) 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

Indicative list of major test equipment required to test as per the Indian Standard- For guidance only

Sl. No.	Tests used in with Clause Reference	Test Equipment
1.	Dimensions as per Cl. 9, 10 and 11	Vernier calipers, Steel scale, Measuring tape
2.	Hydrostatic test as per Cl. 17	Test fixture, Blinds, Pump, Pressure gauge

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

ANNEX C
Scheme of Inspection and Testing

1. QUALITY ASSURANCE PLAN

1.1 It is expected that during operation of BIS licence, manufacturers will implement a Quality Assurance Plan (QAP) i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan (QAP) defining the control unit (i.e. lot/batch etc.), the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and declare the arrangement for testing i.e. whether in-house or subcontracting/sharing for each applicable test and submit the same to BIS Branch Office for information. The manufacturer shall comply with the QAP and maintain test records in accordance with para 2.1.

1.3 RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT:

1.3.1 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in Table 1. Manufacturer has the discretion of declaring their own levels of control or accept the levels of control given in this document.

1.3.3 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan.

2. ENSURING COMPLIANCE THROUGH TESTING – Manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard for which they may have in-house test facilities. However, there is no obligation to maintain in-house laboratory. Licensee may use alternative arrangements for tests of the production as per the declared QAP. Various alternatives are available for operation of BIS certification as given below and the relevant guidelines for availing such relaxations by the manufacturers, as amended from time to time, are to be referred:

i) Shared testing resources like common facility,

ii) Cluster based testing facility,

iii) Sub-contracting to outside laboratories which may either be:

a) BIS recognized/empaneled laboratories, or

b) Any accredited laboratory as per ISO/IEC 17025

2.1 TEST RECORDS - The manufacturers shall maintain test records for the tests carried out (either in- house or at a sub-contracted or at shared test facility) to establish conformity of the product to the Standard for operation of licence. For the tests being subcontracted or conducted at a shared test facility, test results issued by the laboratories or test facilities, shall be made available for inspection by BIS.

3. PACKAGING AND MARKING – As per the requirements given in IS 13095: 2020**.** The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on the product, provided always that the product so marked conforms to each requirement of the specification.

3.1 **Additional Marking requirements**: Additionally, the following shall also be marked on product or package :

"For BIS certification details please visit www.bis.gov.in"

4. REJECTION - All the production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark. 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)		
Test Details				**Levels of Control**		
Cl.	**Requirement**	**Test Method**		**No. of Sample**	**Frequency**	**Remarks**
		Clause	Reference			
9	Body ends	9, Annex B	IS 13095	Each valve		
10	Face to face dimensions	10, Table 1	IS 13095	Each valve		
11	Bodies	11	IS 13095	Each valve		
12	Disc and Shaft	12	IS 13095	One valve from each type	Whenever there is a change in design	
13	Seating and Lining	13	IS 13095			
14	Bearings	14	IS 13095			
15	Material	15, Table 2	IS 13095	One	Each consignment	No further testing is required if material is received with test certificate or is ISI Marked
16	***Operation***					
16.1	Manual Operation	16.1, 16.2, 16.3	IS 13095	Each valve		
16.4	Electric Operation	16.4.1 to 16.4.3	IS 13095	Each valve		

16.5	Hydraulic operation	16.5.1 to 16.5.3	IS 13095	Each valve	
16.6	Pneumatic operation	16.6.1 to 16.6.4	IS 13095	Each valve	
17	***Testing***				
17.1	Performance testing	17.1	IS 13095	Each valve	
17.2	Body test	17.2, Table 3	IS 13095	Each valve	
17.3	Seat test	17.3, Table 3 & 4	IS 13095	Each valve	
17.4	Disc strength test	17.4, Table 3	IS 13095	Each valve	
22	Preparation for despatch	22	IS 13095	Each valve	

ANNEX D
Scope of Licence

Licence is granted to use Standard Mark as per IS 13095: 2020 with the following scope:	
Name of the product	Butterfly Valves for general purposes
Material of body of valve	Cast iron, Ductile iron, Carbon Steel, Stainless steel, Aluminium
Service Application	Tight shut- off/ Regulating/ Low Leakage/ Vacuum condition
Nominal Sizes *(For Aluminium body valves, only up to 300 DN)*	40/50/65/80/100/125/150/200/250/300/350/400/450/500/600/700/800/ 900/1000/1200/1400/1600/1800/2000
Nominal Pressure	PN 0.25/ PN 0.6/ PN 1.0/ PN 1.6/ PN 2.5/ PN 4.0
End Connection	Double Flanged Valves/ Wafer Valves
Operation	Manual/ Electric/ Hydraulic/ Pneumatic