



**PRODUCT MANUAL FOR
SLUICE VALVE
FOR WATER WORKS PURPOSES (50 TO 1200 mm SIZE)
ACCORDING TO IS 14846: 2000**

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.

1.	Product	:	IS 14846 : 2000
	Title	:	SLUICE VALVE FOR WATER WORKS PURPOSES (50 TO 1200 mm SIZE)
	No. of Amendments	:	4
2.	Sampling Guidelines:		
a)	Raw material	:	Clause 6 and Table 1 of IS 14846 : 2000
b)	Grouping guidelines	:	Please refer ANNEX – A
c)	Sample Size	:	1 Valve for all tests
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 :		
	(i) Manufacture (Clause 7) (ii) Coating (Clause 9) (iii) Hydrostatic test (Clause 10.1) (iv) Flaw detection test for stems (Clause 10.2.1) (v) Liquid penetrant test (Clause 10.2.1.1)		
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 14846 : 2000 with the following scope:		
	Name of the product	SLUICE VALVES FOR WATER WORKS PURPOSES	
	Nominal Pressure	PN 1.0 / PN 1.6	
	Nominal Size		

ANNEX A**Grouping Guidelines**

1. Sluice Valves for water works purposes as per IS 14846 : 2000 are categorized into the following groups:

Group	Nominal Size (mm)	
	Nominal Pressure PN 1.0	Nominal Pressure PN 1.6
I	50 to 100	50 to 100
II	125 to 300	125 to 300
III	350 to 600	350 to 600
IV	700 to 900	---
V	1000 to 1200	---

2. For considering GoL /CSoL, Valve of any size from each size group and nominal pressure shall be tested for all requirements to cover valves of all sizes in that size group and pressure rating tested.
3. The Firm shall declare the varieties of Valves 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*

S. No.	Tests used in with Clause Reference	Test Equipment
1.	Manufacture and dimensions (Clause 7)	- Vernier Calliper
		- Outside micrometre
		- Digital balance
		- Steel tape/scale
		- Outside calliper
		- Micrometre
		- Angle protractor
		- Jigs for flange
		- Radius gauge
2.	Hydrostatic test (Clause 10)	- Hydrostatic testing arrangement - Blank end flanges - Pressure gauges - Stop watch - Hammer
3.	Flaw detection test (Clause 10.2.1 and 10.2.1.1)	- Liquid penetrant test arrangement

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 14846: 2000.

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: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
6	Material	6, Table 1	IS 14846	S	One	From each consignment received	#
7	Manufacture	7.1 to 7.14	IS 14846	R	Each valve	-	-
8	Accessories or optional features	8 Annex A	IS 14846	R	Each valve	-	-
9	Coating	9.1, 9.2	IS 14846	R	Each valve	-	-
10.1	Hydrostatic test	10.1	IS 14846	R	Each valve	-	-
10.2	Test for stem	10.2.1, 10.2.1.1, Annex C	IS 14846	R	As per annex C of IS 14846	-	-

No further testing is required if accompanied with the Test Certificate or ISI marked.

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.