



**PRODUCT MANUAL FOR
PLASTICS BIB TAPS, PILLAR TAPS, ANGLE VALVES
AND STOP VALVES FOR HOT AND COLD WATER SERVICES
ACCORDING TO IS 9763 : 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 9763 : 2000
	Title	:	PLASTICS BIB TAPS, PILLAR TAPS, ANGLE VALVES AND STOP VALVES FOR HOT AND COLD WATER SERVICES
	No. of Amendments	:	NIL
2.	Sampling Guidelines:		
a)	Raw material	:	As per clause 4 and Table 1 of IS 9763 : 2000
b)	Grouping guidelines	:	Please refer ANNEX – A
c)	Sample Size	:	6 nos 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) Nominal size (Clause 5)	(v) Finish (Clause 8.5)	
	(ii) Dimensions (Clause 6)	(vi) Drip proofness test (Clause 9.2)	
	(iii) Identification (Clause 7)	(vii) Hydraulic pressure test (Clause 9.4)	
	(iv) Minimum thickness (Clause 8.4)	(viii) Mechanical strength characteristics (Clause 9.5)	
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 9763 : 2000 with the following scope:		
	Name of the product	PLASTICS BIB TAPS, PILLAR TAPS, ANGLE VALVES AND STOP VALVES FOR HOT AND COLD WATER SERVICES	
	Type	Bib Tap / Pillar Tap / Angle Valve / Stop Valve	
	Nominal Size (mm)		

ANNEX A

Grouping Guidelines

1. IS 9763 : 2000 covers Taps and Valves for hot and cold water services which are classified based on type and nominal size as given below:
 - a) **Taps**
 - (i) Bib Tap – 15 and 20 mm
 - (ii) Pillar tap – 15 mm
 - b) **Valves**
 - (i) Stop valve – 15 and 20 mm
 - (ii) Angle stop valve – 15 and 20 mm
2. Considering the above, grouping guidelines as given below shall be followed for GoL/CSoL :
 - a) Sample of any size from any one type of tap (Bib tap / Pillar tap) and valve (Stop valve / Angle valve) shall be tested to cover all sizes of taps/valves.
3. The Firm shall declare the Types and Nominal Sizes they intend to cover 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*

Sl No	Tests used in with Clause Reference	Test Equipment
1	Nominal Size (Clause 5) and Dimensions (Clause 6)	- Thread ring gauges - Vernier caliper
2	Minimum thickness (Clause 8.4)	- Micrometer or Gooseneck caliper
3	Resistance to residual chlorine in water (Clause 9.1)	- Hydrochloric acid 10 % solution
4	Drip proofness test (Clause 9.2)	- Hydrostatic pressure test apparatus with pressure gauge and timer or - Pneumatic pressure testing arrangement with pressure gauge and timer - Water tank
5	Thermal shock test (Clause 9.3)	- Oven to maintain temperature 65 ± 2 ° C - Water bath to maintain temperature below 15 ° C - Timer
6	Hydraulic pressure test (Clause 9.4)	- Hydrostatic pressure test apparatus with pressure gauge and timer or - Pneumatic pressure testing arrangement with pressure gauge and timer - Torque wrench - Water tank
7	Mechanical strength characteristics (Clause 9.5)	- Torque wrench - Timer

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 9763 : 2000.

4. CONTROL UNIT – All taps/valves of same type and nominal size manufactured from batch of material in a day under similar conditions shall constitute a control unit.

5. 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.

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

6. 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 Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
4	Material	4.1, 4.2 , Table 1	IS 9763	S	One	Each consignment	No further testing is required if accompanied with the Test Certificate or ISI marked.
5	Nominal size	5.1	IS 9763	R	Each tap / valve	-	-
6	Dimensions	6.1 to 6.4, Table 3 to Table 6	IS 9763	R	Two	Every hour for each moulding machine	In case of failure, the whole production of the machine during the hour shall be checked and nonconforming products shall be rejected.
7	Identification	7.1	IS 9763	R	Adequate testing may be carried out to ensure conformity of the product as per IS 9763.		
8	Construction, Workmanship and Finish (Except minimum thickness)	8.1 to 8.3, 8.5	IS 9763	R			
8.4	Minimum thickness	8.4	IS 9763	R	Five	Each control unit	-
9.1	Resistance to residual chlorine in water	9.1	IS 9763	S	Two	Once in three months for any type of tap/valve	The test shall be carried out whenever there is change in the raw material composition, construction or manufacturing process.

9.2	Drip proofness test	9.2	IS 9763	R	Five	Each control unit	In case of failure, twice the samples from same control unit shall be tested and control unit shall be accepted only if retested samples pass.
9.3	Thermal shock test	9.3	IS 9763	S	Two	Once in three months for each type of tap/valve and nominal size	The test shall be carried out whenever there is change in the raw material composition, construction or manufacturing process.
9.4	Hydraulic pressure test	9.4, Table A	IS 9763	R	Each tap/valve	-	-
9.5	Mechanical strength characteristics	9.5	IS 9763	S	Two	Once in a month for each type of tap/valve and nominal size	In case of any failure, the marking shall be stopped immediately. The causes of failure shall be investigated and improvements made. Two more samples shall be tested and marking may be resumed if both the samples pass.

Note-1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empaneled 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.