



PRODUCT MANUAL FOR HYDRAULICALLY REGULATED DOOR CLOSERS ACCORDING TO IS 3564: 1995

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 3564 : 1995
	Title	:	HYDRAULICALLY REGULATED DOOR CLOSERS
	No. of Amendments	:	NIL
2.	Sampling Guidelines:		
a)	Raw material	:	As per clause 7 and Table 2 of IS 3564
b)	Grouping guidelines	:	Please refer ANNEX – A
c)	Sample Size	:	2 Door closers 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) Finish (Clause 9)		
	(ii) Visual Inspection (Clause 10 & B 1.2)		
	(iii) Surface (Clause 10 & B 1.3)		
	(iv) Performance requirement (Clause 10 & B 1.4)		
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 3564 : 1995 with the following scope:		
	Name of the product	HYDRAULICALLY REGULATED DOOR CLOSERS	
	Type	Bottle type (Type A) / Tubular type (Type B)	
	Designation of closers	1/ 2/ 3	
	Suitability based on direction of opening of door	Right closers (R)/ Left closers (L)/ Universal closers (U)	

ANNEX A

Grouping Guidelines

1. Hydraulically regulated door closers are classified as given below:
 - a) Type - Bottle type (Type A) / Tubular type (Type B)
 - b) Designation – 1/ 2/ 3
 - c) Suitability based on direction of opening of door - Right closers (R)/ Left closers (L)/ Universal closers (U)
2. Considering the above, Door Closers of each Type and Designation for each Suitability based on direction of opening of door shall be tested for all the requirements to cover that variety tested.
3. The Firm shall declare the varieties of Door Closers 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 types and sizes 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.	Nominal sizes (Clause 6)	- Measuring scale
2.	Essential requirement (Clause 8)	- Stop watch - Temperature controlled cabinet with low and high temperature arrangement
3.	Finish (Clause 9.1)	- Coat meter
4.	Performance requirement (clause 10)	- Stop watch - Oven - Deep freezer - Protector - Door setup of different weights - Vernier calliper
5	Endurance test	- Arrangement for endurance test with cycle counter etc

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 3564: 1995.

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	Nominal size	6	IS 3564	-	Each door closer	-	-
7	Material	7 & Table 2	IS 3564	S	One	Each consignment	#
8.2	Device for adjusting the speed and closing time	8.2 & 8.3.1	IS 3564	R	Each door closer	-	-
9.1	Thickness of anodic coating	9.1	IS 3564	R	One	From each lot anodized at the same time	No further testing is required if accompanied with the Test Certificate
9.2.2	Phosphating treatment	6	IS 3618	R	One	From each lot treated at the same time	
10	Visual inspection	B- 1.2	IS 3564	R	Each door closer	-	-
	Surface	B- 1.3	IS 3564	R	Each door closer	-	-
	Performance requirements	B- 1.4	IS 3564	R	Each door closer	-	-
	Endurance test	B- 1.5	IS 3564	S	One	Once in six month for each type and designation and direction of opening	-
14.3.1	Construction, finish, dimensions, interchangeability of parts	14.3.1	IS 3564	-	Each door closer	-	-

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.