



**उत्पाद मैनुअल
द्रवचालित फ्लोर स्प्रिंग के लिए
आई एस 6315:2025 के अनुसार**

**PRODUCT MANUAL
HYDRAULICALLY REGULATED FLOOR SPRINGS
ACCORDING TO IS 6315:2025**

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो) अनुरूपता मूल्यांकन (विनियम, 2018 की योजना -I के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता के लिए इस उत्पाद मैनुअल का उपयोग सभी क्षेत्रीय / शाखा कार्यालयों और लाइसेंसधारियों द्वारा संदर्भ सामग्री के रूप में किया जाएगा। दस्तावेज़ का उपयोग बीआईएस प्रमाणन प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity 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.

1.	मानक संख्या IS No.	:	IS 6315 : 2025
	शीर्षक Title	:	Hydraulically Regulated Floor Springs
	संशोधनों की संख्या No. of amendments	:	Nil
2.	नमूना दिशानिर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	Nil Note: This section indicates the requirements for raw material (if specified in the IS) for which compliance is to be established during Grant of Licence/Change in Scope of Licence/ Factory Surveillance
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Please refer to Annex-A
c)	नमूने का परिमाण Sample Quantity	:	5 pieces Note: This section indicates the quantity of the sample of the product and/or the raw material (if applicable), required to be sent to the laboratory for testing, for the purpose of Grant of Licence/Change in Scope of Licence/ Factory Surveillance (incase of market surveillance, effort may be made to procure therequired quantity of product sample, as far as possible since raw material sample may not be available in market)

ANNEX A

Grouping Guidelines

1. Hydraulically Regulated Floor Springs as per IS 6315:2025 is classified as below:

Type	- With Hold Open / Without Hold Open					
Classification Code	Digit 1	Digit 2	Digit 3	Digit 4	Digit 5	Digit 6
	Grade-3, 4	Grade-5,6,7,8	Power size-1,2,3,4,5,6,7 and range in between these sizes	Grade-0,1,2,3,4	Grade-1	Grade-1,2,3,4

2. Considering the above, the following grouping guidelines for GoL/ CSoL shall be followed:

- a) Floor Springs of each Type shall be tested to cover that particular Type in the scope of licence.
- b) Each Type of floor springs are further classified according to six-digit classification code. Following are the guidelines for coverage of the Grades of each Digits within the Six-Digit Classification Code under each Type of floor springs :
 - Digit 1 (Category of Use): Each grade to be tested to cover the same.
 - Digit 2 (Durability) : Highest Grades of Durability for each grade of Digit 1 (category of use), shall be tested to cover all lower Grades of Durability including the tested grade, for that grade of Digit 1.
 - Digit 3 (Power Size) : Lowest and Highest Power Sizes for each grade of Digit 1 (category of use), shall be tested to cover all lower Power Sizes including the tested Power Sizes, for that grade of Digit 1.
 - Digit 4 (Fire Resistance) : Highest Grades of Fire Resistance for each grade of Digit 1 (category of use), shall be tested to cover all lower Grades of Fire Resistance including the tested grade, for that grade of Digit 1.
 - Digit 5 (Safety) : Grade 1 is to be tested to cover the same.
 - Digit 6 (Corrosion Resistance) : Highest Grades of Corrosion Resistance for each grade of Digit 1 (category of use), shall be tested to cover all lower Grades of Corrosion Resistance including the tested grade, for that grade of Digit 1.

3. The Firm shall declare the varieties of Hydraulically Regulated Floor Springs 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, BOs 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, FOR GUIDANCE ONLY)*

S. No.	Tests used in with Clause Reference	Test Equipment
1.	Angle of Operation (Cl 10.2)	- Angle Protractor
2.	Durability (Cl 10.3)	- Test Door Weights (20/40/60/80/100/120/160 kg, as applicable)
3.	Power Size and Efficiency (Cl 10.4)	- Force gauge or other suitable device
4.	Fire Resistance (Cl 10.5)	- Test facilities as per IS 17518 (Part 1)
5.	Corrosion Resistance (Cl 10.7)	- Neutral Salt Spray test apparatus as per IS 5528
6.	Operation at Extreme Temperatures (Cl 10.8)	- Temperature controlled cabinet with low and high temperature arrangement - Deep freezer
7.	General test equipments	- Door setup with Floor Spring as per fig. 8 of IS 6315 - Weighing machine, - Measuring Scale, - Measuring Tape, - Stop Watch, - Thermometer, - Air conditioner

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, the recommended definition of control unit is : Floor Springs of same Type i.e. single action/double action and with/without hold open, and same Classification Code manufactured in a day shall constitute a control unit.

1.3.2 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 recognised/empanelled 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. PACKING AND MARKING - The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on each Floor Spring provided always that the material so marked conforms to each requirement of the specification.

3.1 Marking shall be done as per Clause No 12 of IS 6315:2025.

3.2 Packing shall be done as per Clause No 13 of IS 6315:2025. Manufacturer shall also provide the installation template as per the above Clause.

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

a) “For BIS certification details please visit www.bis.gov.in”

4. REJECTION - 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*(Recommended Levels of Control by BIS- for Guidance Only)*

(1)				(2)		
Test Details				Recommended Levels of Control		
Clause	Requirement	Test Methods Clause Reference		No. of Sample	Frequency	Remarks
8	Finish and Workmanship	8	IS 6315	Firm to have adequate in-process controls to check compliance of this parameter given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity		
10.2	Angle of Operation	10.2	IS 6315	One	Each Control Unit	-
10.3	Durability	10.3	IS 6315	One	Once in six month	Each varieties produced during the period shall be tested in rotation
10.4	Power Size and Efficiency	10.4	IS 6315	One	Once in a month	
10.5	Fire Resistance	10.5	IS 6315 IS 3614	One	Once in Five years	
10.6	Safety	10.6	IS 6315	Firm to have adequate in-process controls to check compliance of this parameter given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity		
10.7	Corrosion Resistance	10.7	IS 6315 IS 5528	One	Once in six months	Each varieties produced during the period shall be tested in rotation
10.8	Operation at Extreme Temperatures	10.8	IS 6315	One	Each Control Unit	-