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Integral Proving Rings ZI 3087

Standards:

Specification:



The Proving rings are made of special steel carefully forged to give maximum strength and machined to give high sensitivity commensurate with stability ensuring long life and accuracy.

All proving rings are integral type viz, the loading (outside) bosses are forged integral with the ring body. This ensures that there is no possibility of abutment shift and consequent loss of accuracy in reading that always exists with bolted abutments.

The dial gauge and anvil are mounted on U-brackets clamped to the ring body by set screw. The dial gauge is fitted with a special back cover and threaded bush. Which does not permit any shift from the original dial alignment, coaxial with the loading boss centres, that is set at the factory before calibration.

For all compression proving rings and tension compression proving rings up to and including 5 KN capacity the loading bosses have female threading ½” BSP (16 TPI)

The boss faces are ground and polished and are plane parallel to within 0.2mm total DTI run out. Tension compression rings have their integral loading bosses male threaded, 1.25” dia, 8 tpi square thread, 1.25” long. Caps are provided for use when loading in compression

Repeatability is as stipulated in IS 4169 The rings are supplied complete with dial gauge and Works

calibration Chart. Individually packed in polished wooden. Boxes. NCCBM Calibration can also be arranged for any proving ring at an additional cost. Proving rings to meet special requirements are also available on request.

Separate polished and ground pair of Loading Pads FOR Compression Proving Rings and Pair of Shackles for Tension Proving Rings are provided to suit each proving ring, at extra cost.

Sl. No.	Capacity	Design	Approximate Sensitivity	Weight
1	0.25 kN	25 kgf	0.21 N/Div	1.00 kg
2	0.5 kN	50 kgf	0.42 N/Div	1.00 kg
3	1 kN	100 kgf	0.83 N/Div	1.10 kg
4	2 kN	200 kgf	1.15 N/Div	1.20 kg
5	2.5 kN	250 kgf	2.1 N/Div	1.30 kg
6	4 kN	400 kgf	3.3 N/Div	1.40 kg
7	5 kN	500 kgf	4.5 N/Div	1.50 kg
8	10 kN	1,000 kgf	10 N/Div	1.70 kg
9	15 kN	1,500 kgf	17 N/Div	3.40 kg
10	20 kN	2,000 kgf	22 N/Div	3.50 kg
11	25 kN	2,500 kgf	28 N/Div	3.60 kg
12	30 kN	3,000 kgf	33 N/Div	3.75 kg
13	40 kN	4,000 kgf	44 N/Div	3.90 kg
14	50 kN	5,000 kgf	56 N/Div	4.00 kg
15	100 kN	10,000 kgf	125 N/Div	5.00 kg
16	200 kN	20,000 kgf	300 N/Div	14.00 kg
17	300 kN	30,000 kgf	430 N/Div	16.00 kg
18	500 kN	50,000 kgf	833 N/Div	18.00 kg
19	1000 kN	100,000 kgf	2,500 N/Div	24.00 kg
20	2000 kN	200,000 kgf	5,000 N/Div	25.00 kg
21	3000 kN	300,000 kgf	6,000 N/Div	34.00 kg