



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval

NMI S512

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

Flintec Model SLB-200lb-CM-C3 Load Cell

submitted by Flintec GmbH
Bemannsbruch 9
74909 Meckesheim
Germany.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 60, *Metrological Regulation for Load Cells*, dated July 2004.

This approval becomes subject to review on **1/09/21**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – certificate issued	19/08/08
1	Pattern and variant 1 updated & reviewed – certificate issued	3/11/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S512' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S512' in addition to the approval number of the instrument, and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.

A handwritten signature in black ink, appearing to read 'A Rawlinson', with a horizontal line underneath.

Dr A Rawlinson

TECHNICAL SCHEDULE No S512

1. Description of Pattern **approved on 19/08/08**

A Flintec model SLB-200lb-CM-C3 load cell of 91 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 3000 verification scale intervals. May also be known as 'Accuweigh' instruments of the same model.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figures 2 to 8. Note that the load cell profiles shown in these diagrams may not be for SLB series cells – the correct profile is as shown in Figure 1.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Flintec
Model number
Maximum capacity, E_{max} kg (or t)
Serial number
Pattern approval number	NMI S512

1.3 Tables of Specifications

Specifications for the pattern are given below and in Table 1.

2. Description of Variant 1 **approved on 19/08/08**

Certain other models of the SLB series with characteristics and specifications as listed below and in Table 1. Note that the load cells shown in Table 1 do not have a DR value specified. May also be known as 'Accuweigh' instruments of the same models.

The load cell model number includes characters according to the particular load introduction method used (refer to Table 1) e.g. the pattern, model SLB-200lb-**CM**-C3, is also available as models SLB-200lb-**BH**-C3, SLB-200lb-**CU**-C3, or SLB-200lb-**TH**-C3.

For all SLB load cells:

Output rating (nominal)	2 mV/V
Input impedance (nominal)	1100 Ω
Maximum supply voltage (AC/DC)	5 to 15 V
Cable length (± 0.1 m)	3 m except 4536 kg cells which have 4.5 m cables
Number of leads (plus shield)	4

TABLE 1

Flintec SLB series load cells of Class C as listed below.

Model	E_{\max} (kg)	Class	n_{LC}	V_{\min} (kg)	Cable Length
SLB-200lb-**-C1	91	C	1000	0.018	
SLB-500lb-**-C1	227	C	1000	0.045	
SLB-1klb-**-C1	454	C	1000	0.091	
SLB-2.5klb-**-C1	1134	C	1000	0.227	
SLB-4klb-**-C1	1814	C	1000	0.363	
SLB-5klb-**-C1	2268	C	1000	0.454	
SLB-10klb-**-C1	4536	C	1000	0.907	##
SLB-200lb-**-C3	91	C	3000	0.008	
SLB-500lb-**-C3	227	C	3000	0.020	
SLB-1klb-**-C3	454	C	3000	0.039	
SLB-2.5klb-**-C3	1134	C	3000	0.099	
SLB-4klb-**-C3	1814	C	3000	0.158	
SLB-5klb-**-C3	2268	C	3000	0.197	
SLB-10klb-**-C3	4536	C	3000	0.394	##

Where:

- E_{\max} = Maximum capacity
 n_{LC} = Maximum number of verification intervals
 V_{\min} = Minimum value of verification interval

Notes:

** The characters below, which replace ** in the model numbers listed in Table 1, indicate the particular load introduction method used, as below:

- BH - through a blind hole;
- CM - through a through hole with partial Metric Thread;
- CU - through a through hole with partial Unified Fine Thread; or
- TH - through a through hole.

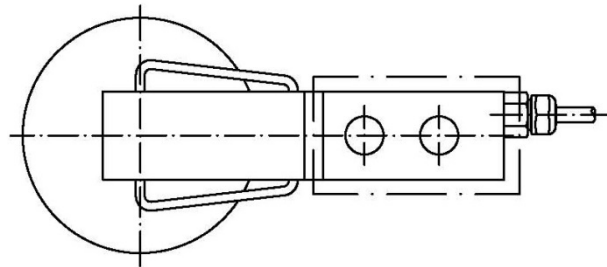
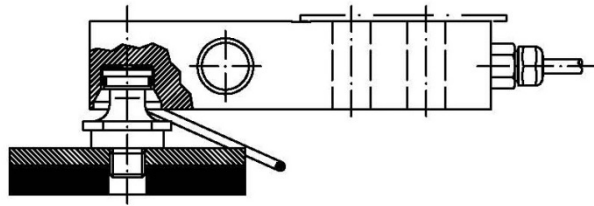
All models have 3 m long cables except the 4536 kg capacity cells which have 4.5 m cables.

FIGURE S512 – 1

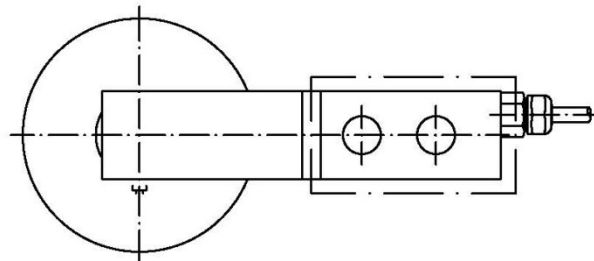
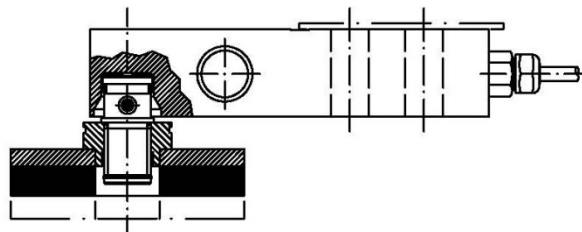


Typical Flintec SLB Series Load Cells (pattern & variant 1)

FIGURE S512 – 2



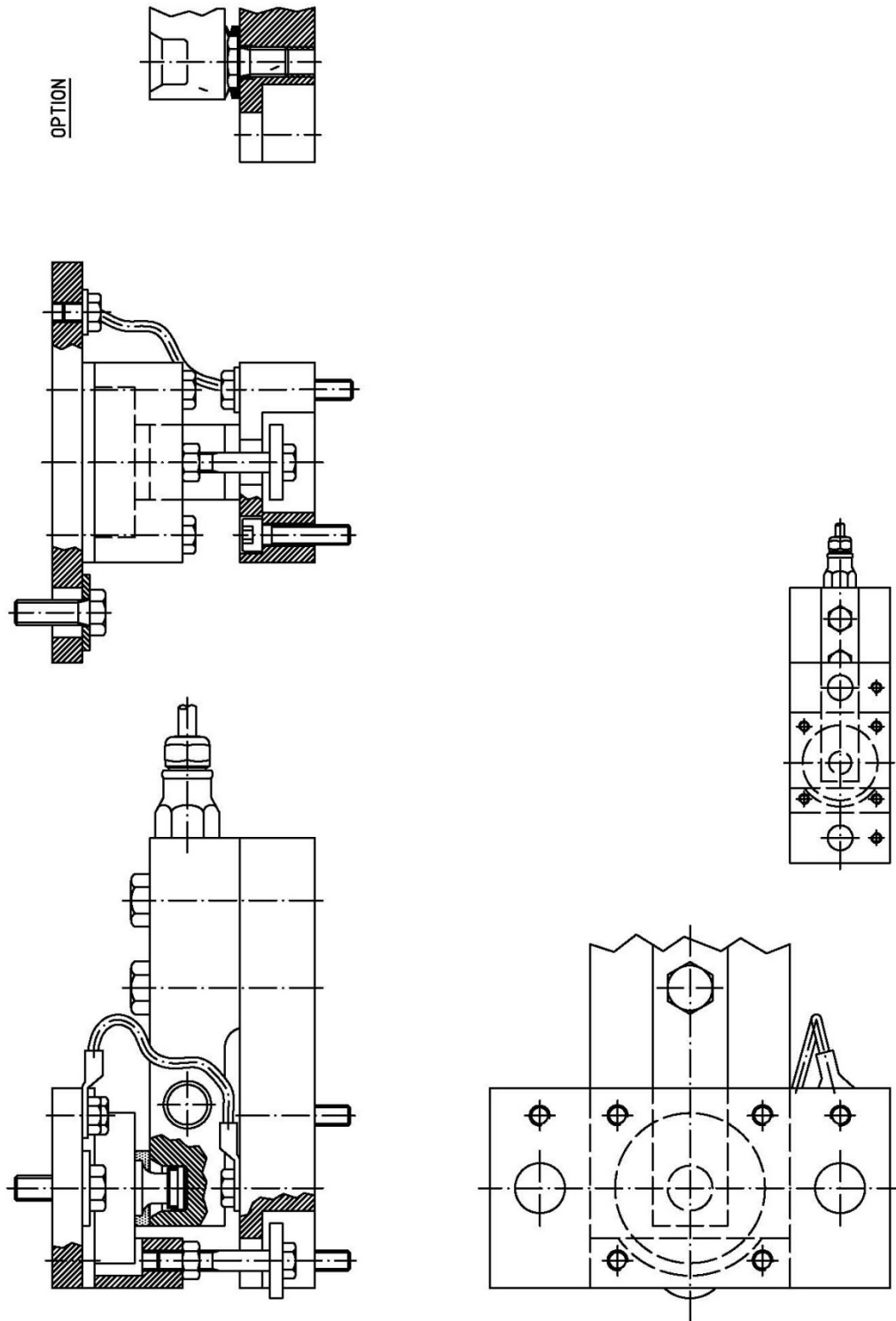
(a) Rubber foot



(b) Adjustable rubber foot

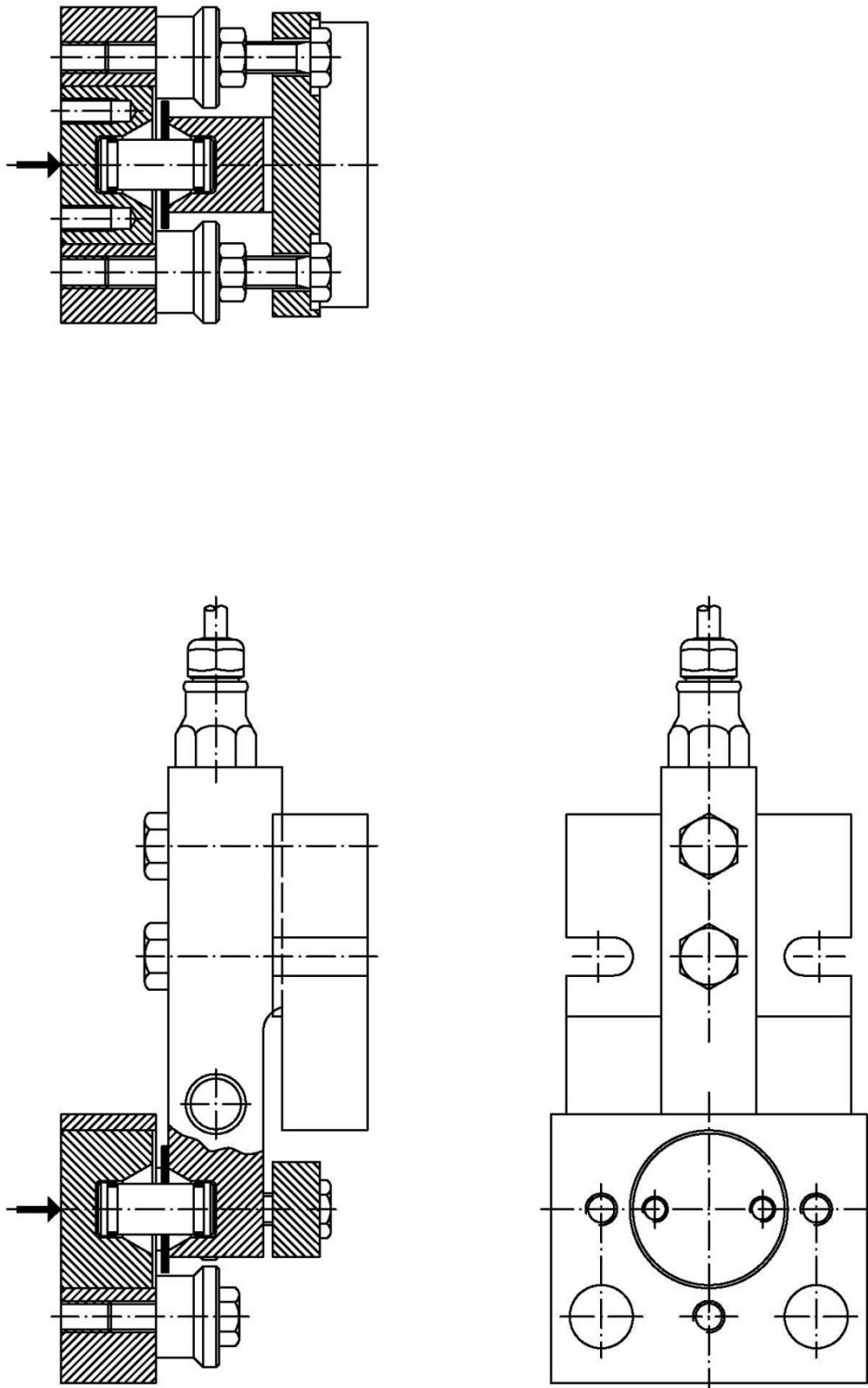
Some Typical Mounting Arrangements

FIGURE S512 – 3



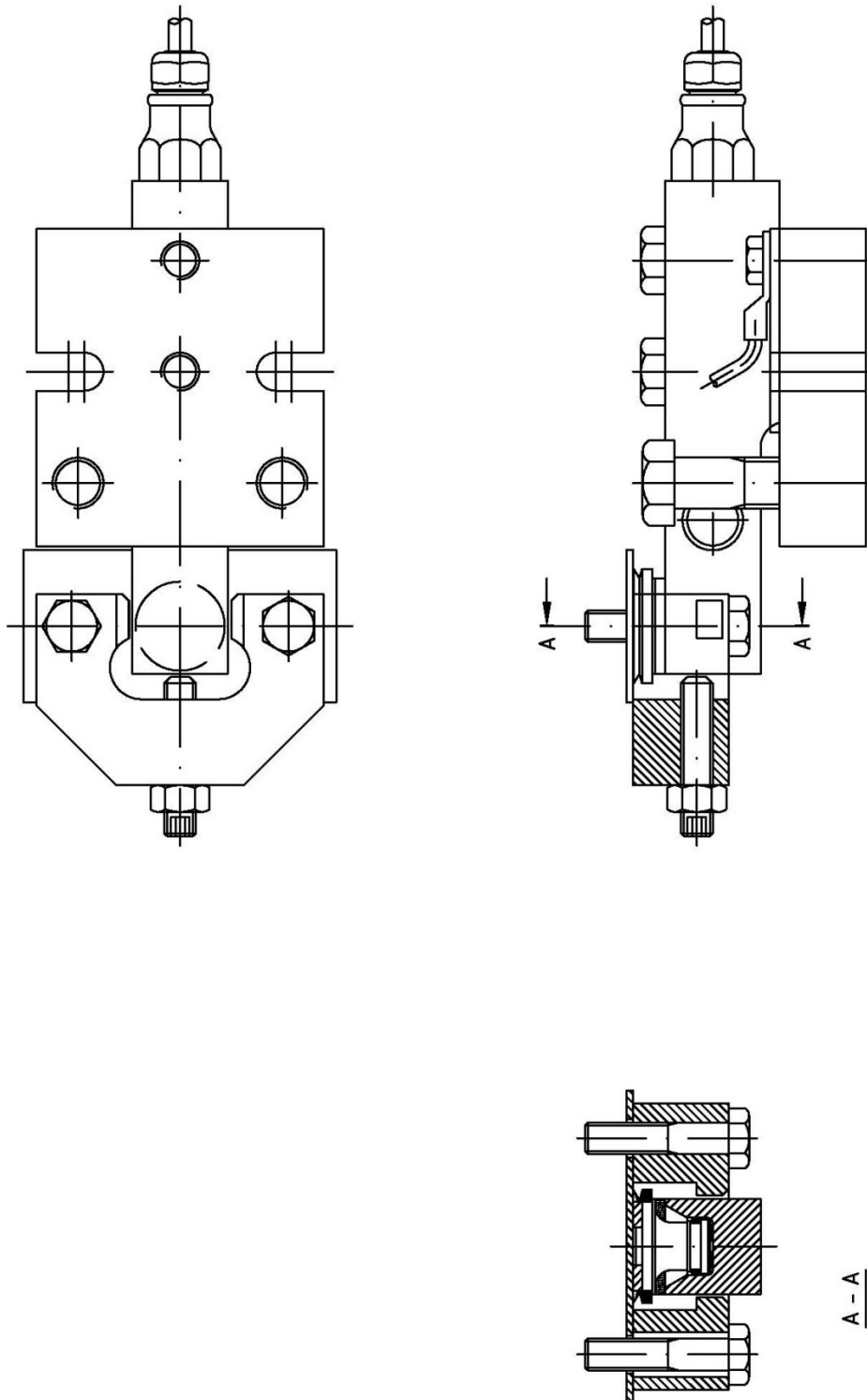
Weigh Module With Rubber Element Mounting Arrangement

FIGURE S512 – 4



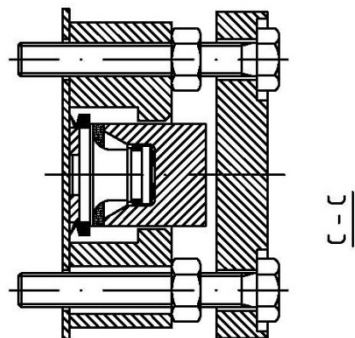
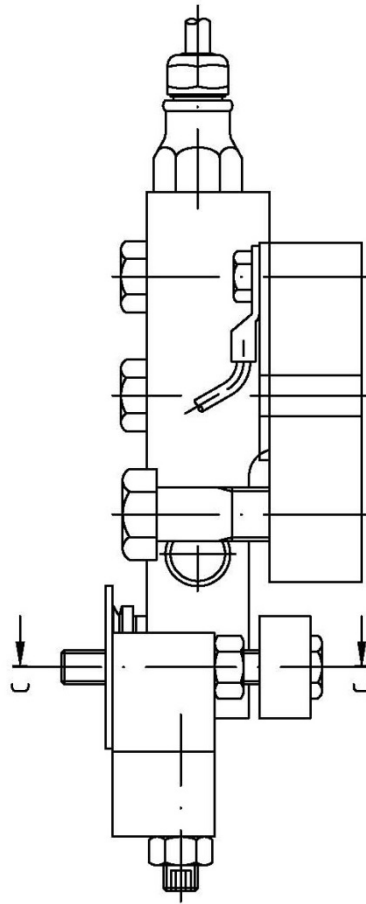
Weigh Module With Rocker Pin and Base Plate Mounting Arrangement

FIGURE S512 - 5



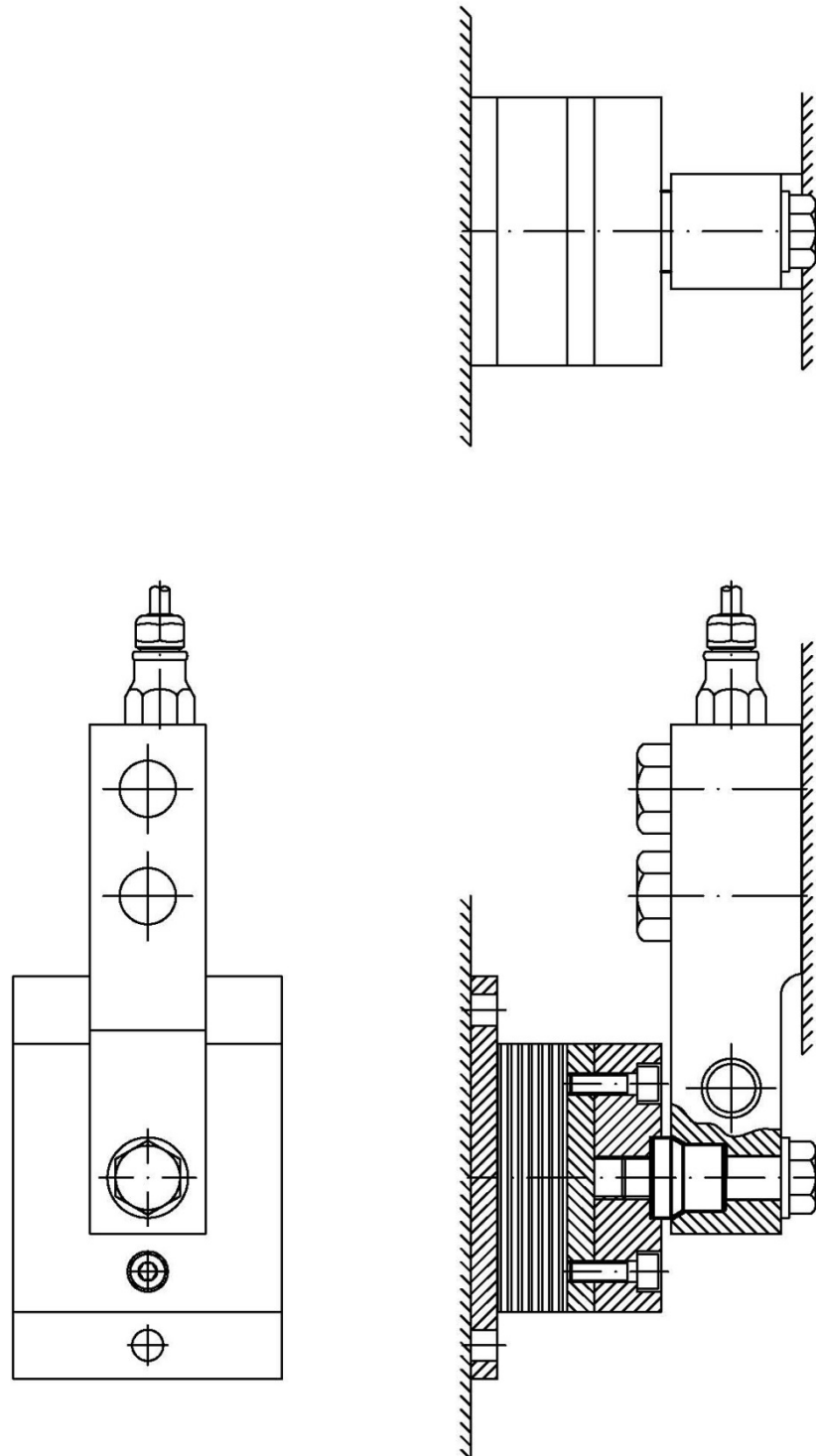
Weigh Module With Sliding System and
Three-directional Bumper Mounting Arrangement

FIGURE S512 - 6



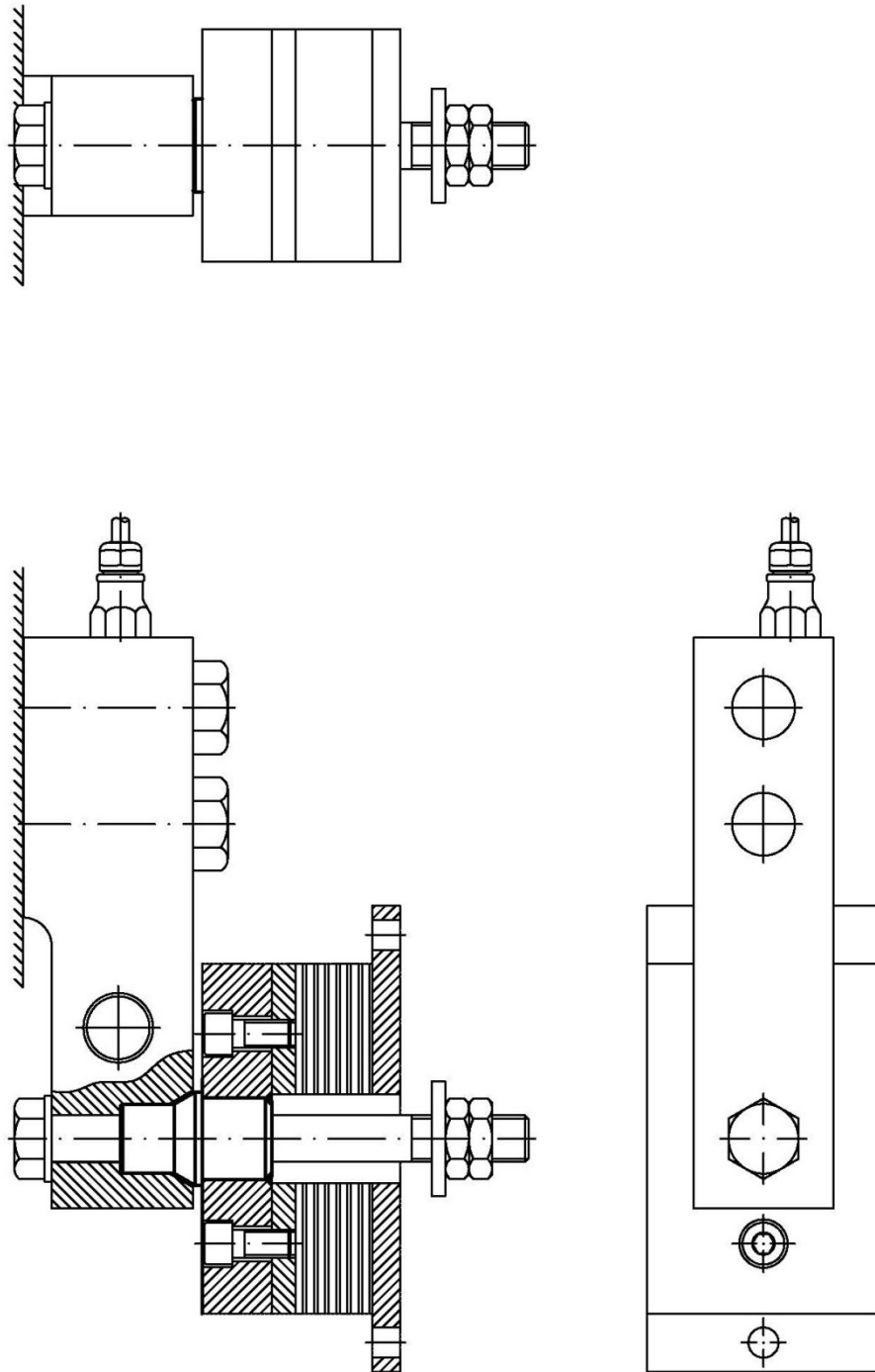
Weigh Module With Sliding System, Three-directional Bumper and Lift-off Protection
Mounting Arrangement

FIGURE S512 – 7



Typical Bolted Rubber Element Mounting Arrangement

FIGURE S512 – 8



Typical Rubber Element With Lift-off Protection Mounting Arrangement

~ End of Document ~