

55-55 weighing module



product description

Flintec weighing modules are designed to provide optimum force transmission into load cell. The 55-55 is a self-centering unit that has been specially designed for weighing hoppers, silos and tanks at high nominal load. The unit is compatible with the RC3 compression load cell. It includes integrated lift-off protection and a lateral stop. Additional check-links are unnecessary, which ensures highest possible accuracy. The 55-55 is delivered fully pre-assembled and ready for installation by bolting or welding.

applications

Hopper-, silo- and tank-weighing

general installation notes

Welding instead of bolting is a trouble-free alternative. Welding plates available upon request. Welding avoids mounting problems caused by misalignment of bolt hole position on weigh modules and foundation plates. Combined methods possible, e.g. bolting on top plate of module and welding on foundation plate, or vice-versa.

- Installation bolts not within scope of delivery
- Levelling requirement of silo foot and foundation plate:
 - max 0.4/100 for legal-for-trade application,
 - max 0.8/100 for industrial application

key features

Capacity range 7,5t to 300t

Top Plate – Extra high-strength S460 steel (M, ML, N or ML grades)

Bottom unit – High-strength S355J2 steel

Galvanized zinc coating (7.5t-100t)

Multi-layer painting (150t -300t)
Very easy installation

Specially designed for hopper, tank and silo weighing

Built-in lateral bumper

Built-in lift-off protection

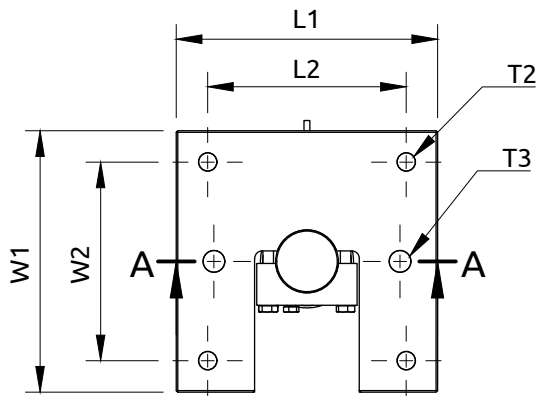
Replacing of load cells requires very little lifting – few mm only

Self-centering rocker-pin load cell design allow for all-side thermal expansion

RoHS
compliant

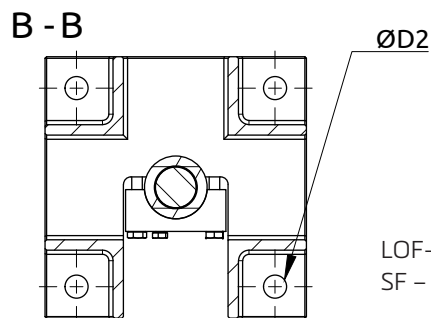
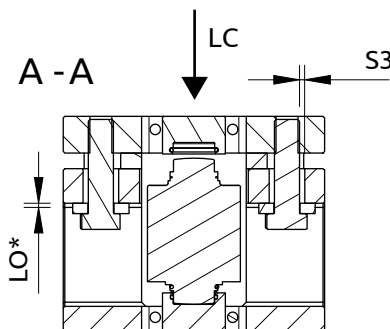
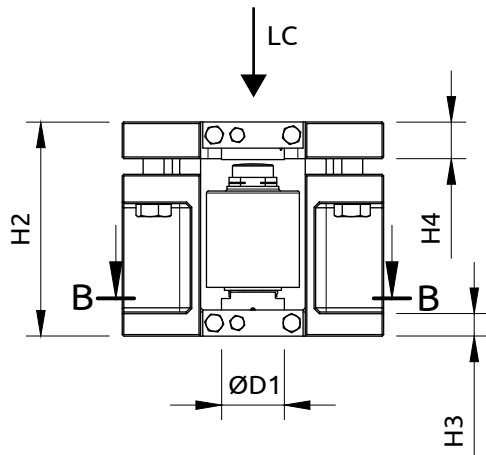
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product dimensions (mm)

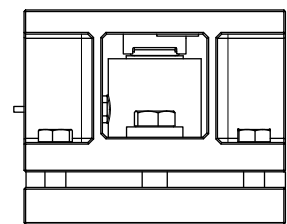


Legend

- LC – Central compression loading
- T2 – Thread holes for mounting bolts, 4x
- T3 – Lift-off bolts, 2x
- S3 – Gap for horizontal displacement
- LO – Gap for lift-off protection
- ØD2 – Holes for assembly bolts T2, 4x



upside-down



Can be installed upside-down if thru holes are preferred on the top side.

LOF – Max permissible lift-off force
SF – Max permissible side force

Load cell model	D1	D2	H2	H3	H4	L1 & W1	L2 & W2	S3	T2	T3	LOF (kN)*	SF (kN)**
RC3-7,5/15/22,5t	50	17,5	130	18	30	200	154	4	M16	M20	195	122
RC3- 30/40t	60	22	200	23	35	250	190	5	M20	M24	295	172
RC3- 50/100t	85	26	250	28	45	300	235	6	M24	M30	440	225
RC3- 150t	110	33	300	38	50	400	325	7	M30	M36	590	350
RC3- 300t	135	40	400	43	60	450	365	8	M36	M42	720	455

* Occurring lifting force will be worst case carried by one Weigh Module only.

** For installations with 3 or 4 Weigh Modules (one per silo leg) it can be assumed that the actual lateral forces (wind) are evenly distributed over at least 2 Weigh Modules.

Maximum permissible forces refer to material yield strength Rp0.2 of critical component.

Specifications and dimensions are subject to change without notice.