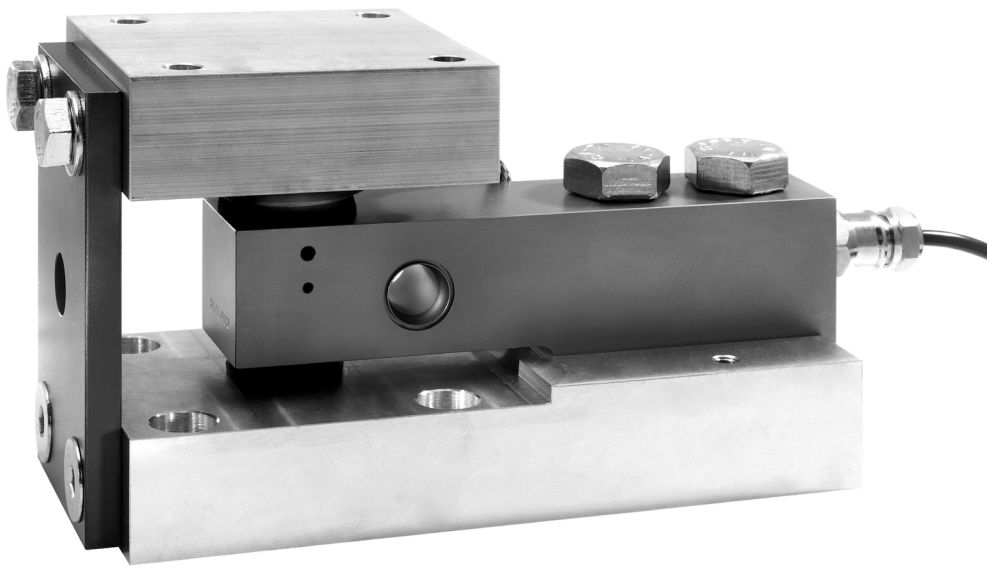
52-18 weigh module



product description

The 52-18 weigh module is the most universal mount available with variants to suit static, high accuracy and mixing vessel weighing systems. The weigh module is delivered pre-assembled to ease installation. Suitable for a wide range of load cell capacities from 100kg through to 10,000kg. Especially designed for SB4, SB5, SLB, SB9 and SB14 load cells.

Available in 2 basic versions: 52-18RS employing the Rocking System, and 52-18SS which employs the Sliding System. Both have identical outer dimensions and mounting principles. Which weigh module is the optimal choice depends on the application.

The new 52-18RS-C is very cost effective and the first choice for static tank and hopper applications. All modules used in a scale are identical and can be freely oriented in any direction. However, it is not suitable for tanks with agitators, which might cause the scale to oscillate, as it is standing on rockers.

The 52-18RS, with its Rocking Pin Load Introduction, is the natural choice when very high resolution is required, whereas the 52-18SS, with Sliding Pin Load Introduction, is the choice when very large expansions/contractions due to temperature or other reasons are expected.

key features

- Universal system, easy to install
- Capacity range 100kg to 10,000kg
- Comprehensive range of variants for static and agitated weigh vessels
- Zinc plated steel or stainless-steel options
- Blind-hole load introduction
- Overload and lift-off protection options
- Low profile
- No check links needed

accessories + options

- Welding fixture
- Jacking device
- Overload protection
- Lift-off protection
- Welding Plate
- Bolting Plate

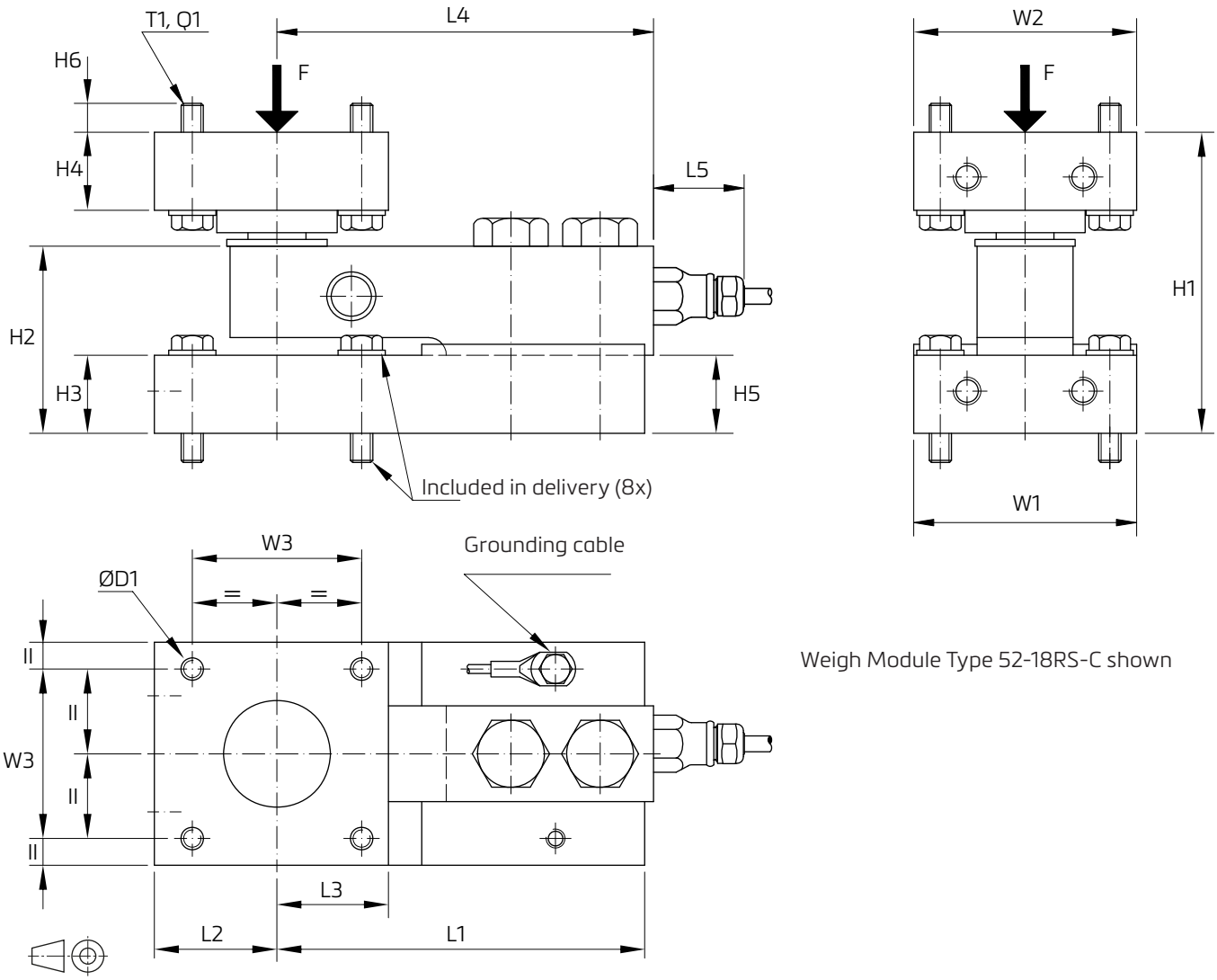
RoHS compliant

applications

Tank and vessel weighing systems, mixer vessels.

flintec quality + precision

product dimensions (mm)

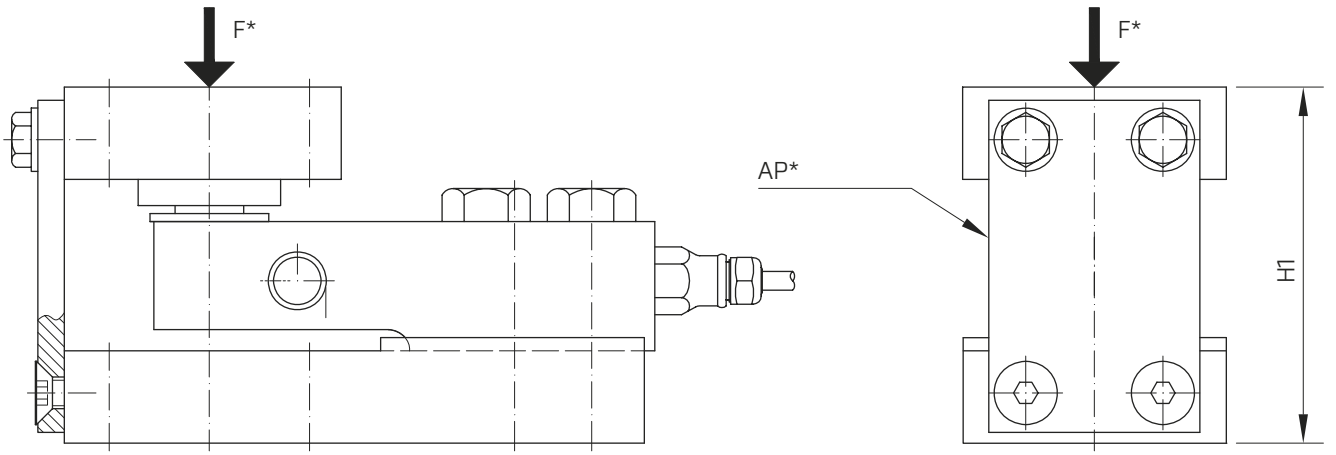


Weigh Module Type 52-18RS-C shown

Load cell type	Capacity	H1	H2	H3	H4	H5	H6	L1	L2	L3	L4	L5	W1	W2	W3	D1	T1	Q1
SB4/SB5	5 - 20kN (510...2039kg)	100	63	25	25	27	13.5	130	45	40	140	41	80	80	58	9	M8	25 Nm
SB14	0.5...5 klb (227...2268kg)	101	64			33		120			121							
SLB	0.2...5 klb (91...2268 kg)	100	63								124	19						
SB9	250...2000kg																	
SB4/SB5	50 kN (5099kg)	135	84	35	35	35	13	165	55	50	169	41	100	100	76	11	M10	50 Nm
SB14	10 klb (4536kg)					40		155			159							
SB4/SB5	100 kN (10197kg)	195	128	50	50	50	17.5	205	80	60	215		120	150	90	13.5	M12	115 Nm

CAD files for customer's own application drawings are available for download from the Flintec homepage.

weigh module assembled



F* - Applied force
AP* - aligning plate
Note: The weigh module is assembled and aligned for installation

selection guide

	52-18RS (Rocking)	52-18SS (Sliding)
Static load applications	x	x
Scales with agitator	1)	x
Scales with large temperature expansion		x
High resolution applications	x	

1) Possible with close adjusted bumpers and special orientation

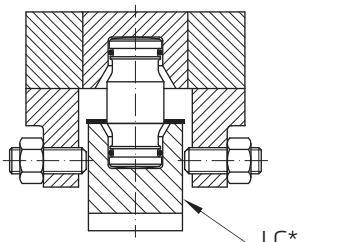
maximum permissible forces

Weigh module types			Max force F	Max side force
Rocking System	52-18RS-A	With rocking pin and bumpers	200% of E_{max}	100% of E_{max}
	52-18RS-B	With free rocking pin	200% of E_{max}	-
	52-18RS-C	With bumping rocking pin	200% of E_{max}	50% of E_{max}
Sliding System	52-18SS-A	With sliding pin and bumpers	200% of E_{max}	100% of E_{max}
	52-18SS-B	With free sliding pin	200% of E_{max}	-
	52-18SS-C	With fixed pin	200% of E_{max}	100% of E_{max}

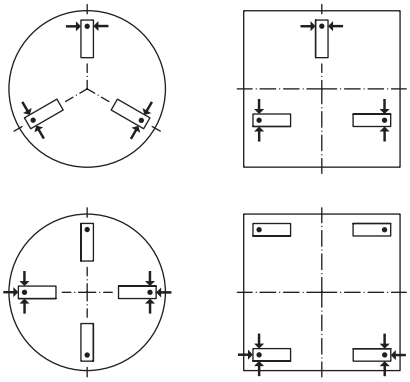
E_{max} = maximum load cell capacity

52-18RS rocking system

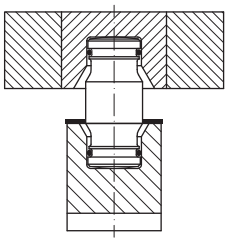
Top section of 52-18RS-A
(rocking pin and bumpers)



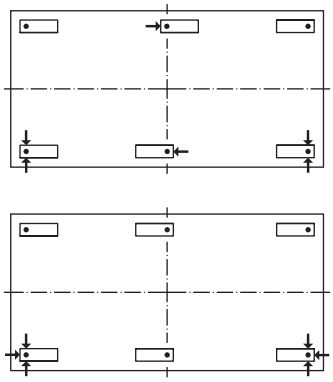
One, two or three bumpers
(see orientation examples)



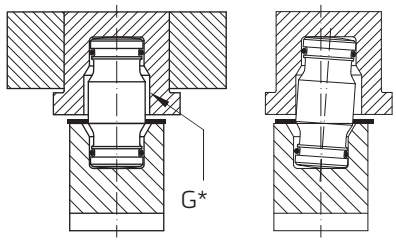
Top section of 52-18RS-B
(free rocking pin)



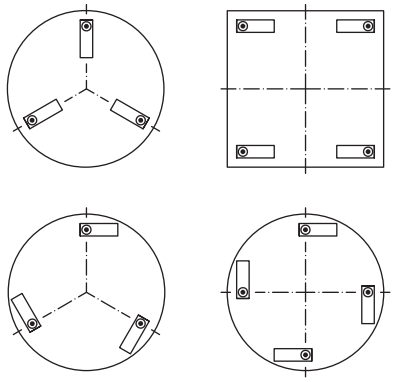
No bumpers
(orientation in any direction)



Top section of 52-18RS-C
(bumping rocking pin)



Pin bumping 360°
(orientation in any direction)

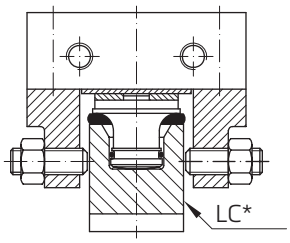


LC* - Load cell P* - Pin shown bumping inside cup G* - Gap

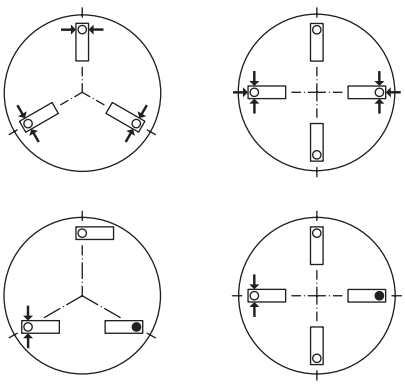
Note: typical orientation examples shown for each type.

52-18SS sliding system

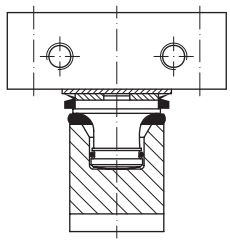
Top section of 52-18SS-A
(sliding pin and bumpers)



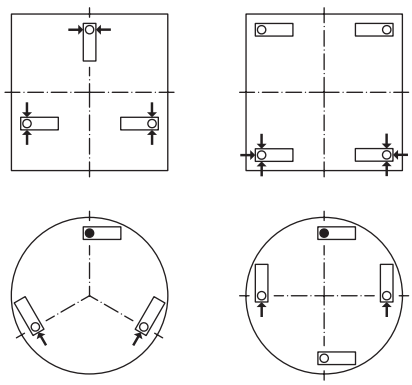
One, two or three bumpers
(see orientation examples)



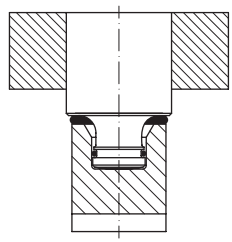
Top section of 52-18SS-B
(free sliding pin)



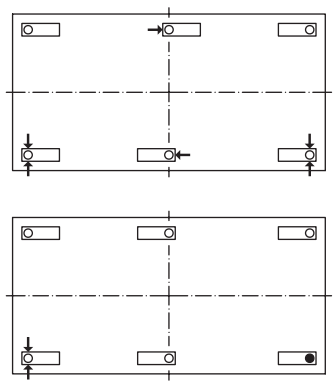
No bumpers
(orientation in any direction)



Top section of 52-18SS-C
(fixed pin)

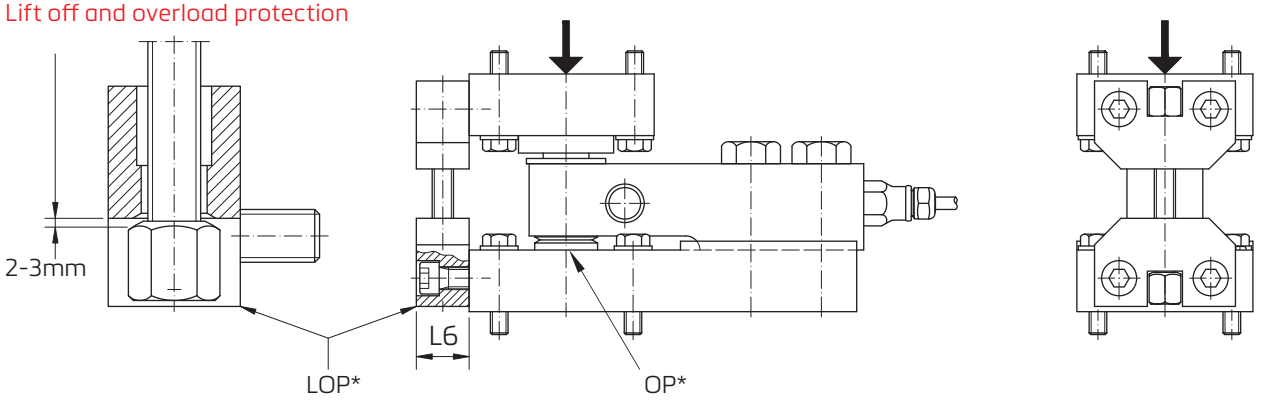


Pin bumping 360°
(orientation in any direction)



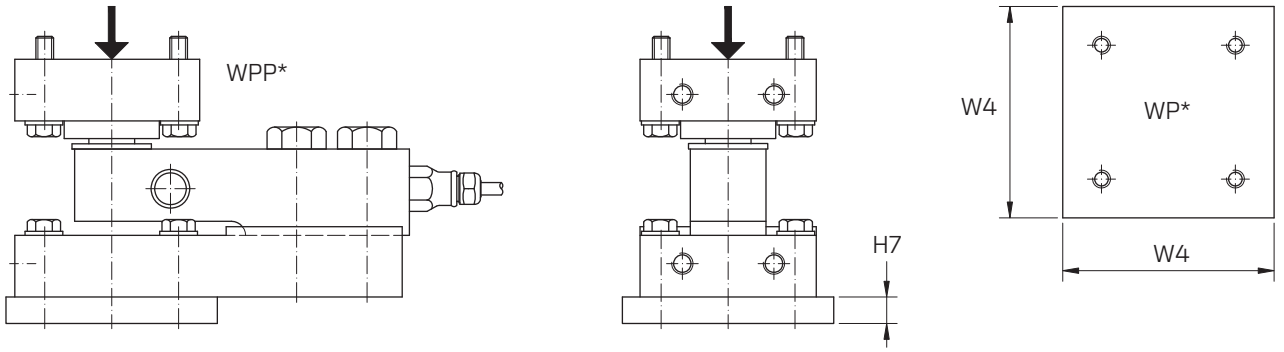
optional details

Lift off and overload protection



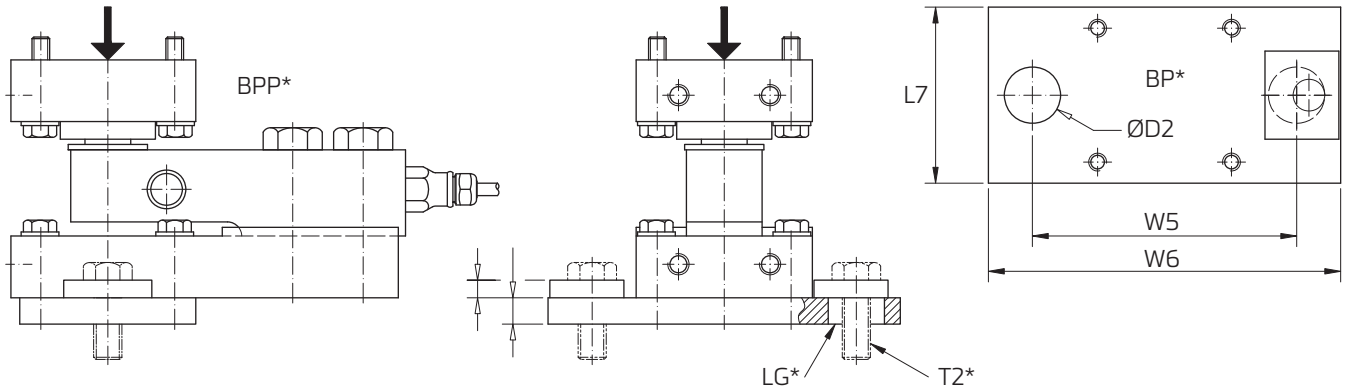
LOP* - Lift off protection
OP* - Overload protection

Welding plate



WPP* - Welding plate on bottom (shown), top or both
WP* - Welding plate

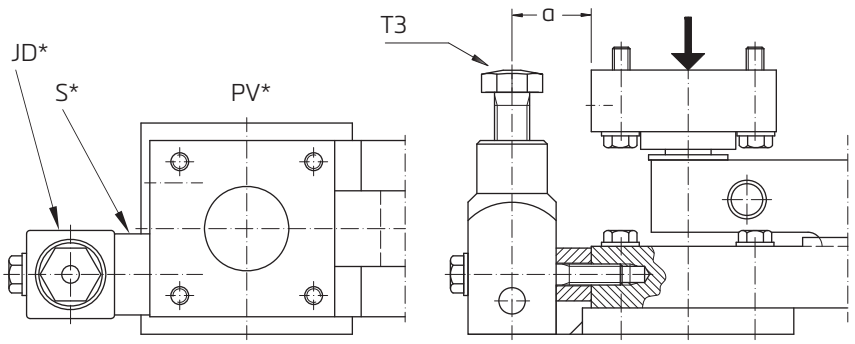
Bolting plate



BPP* - Bolting plate on bottom (shown), top or both
BP* - Bolting plate
LG* - Large gap
T2* - Not included in delivery

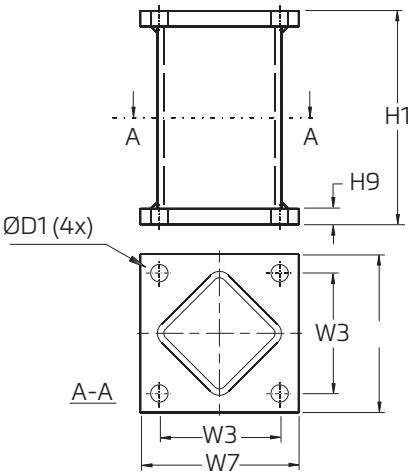
optional details cont.

Jacking device



JD* - Jacking device
S* - Spacer
PV* - Plan View

Welding fixture



Load cell type	Capacity	H1	H7	H8	H9	L6	L7	W3	W4	W5	W6	W7	D1	D2	T2	T3	a	Max. lift off force
SB4/ SB5	5 - 20kN (510 - 2,039kg)	100	20	8	8	20	80	58	100	120	160	80	9	26	M12	M16	30	16 kN
SB9	250 - 2,000kg																	
SB14	0.5 - 5klb (227 - 2,268kg)																	
SLB	0.2 - 5klb (91 - 2,268kg)																	
SB4/ SB5	50kN (5,099kg)	135	20	10	10	30	100	76	120	150	200	100	11	32	M16	M20	40	40 kN
SB14	10klb (4536kg)																	
SB4/ SB5	100kN (10,197kg)	195	25	15	10	40	120	90	150	210	270	120	13,5	40	M20	M30	40	80 kN

Dimensions and specifications are subject to change without notice.