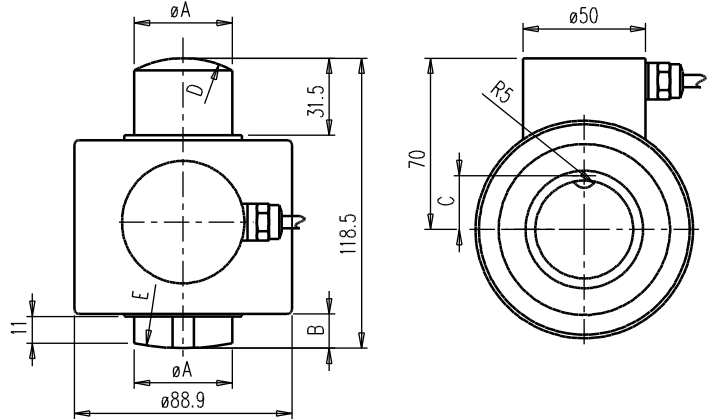# CSC-C3
## COMPACT STAINLESS COMPRESSION

- Fully sealed stainless steel load cell
- C3 grade and sealed to IP68 standards
- Ideal for tanks, hoppers, silo weighing
- Range of mountings available

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| Model | Order | A | B | C | D | E | Weight(kg) |
|-------|-------|------|------|------|-------|------|------------|
| CSC-C3-0.5t | CSC0500S000XXX | 40.0 | 14.0 | 22.0 | R37.5 | R150 | 2.5 |
| CSC-C3-1t | CSC1000S000XXX | 40.0 | 14.0 | 22.0 | R37.5 | R150 | 2.5 |
| CSC-C3-2t | CSC2000S000XXX | 40.0 | 14.0 | 22.0 | R37.5 | R150 | 2.5 |
| CSC-C3-3t | CSC3000S000XXX | 40.0 | 14.0 | 22.0 | R37.5 | R150 | 2.5 |
| CSC-C3-5t | CSC5000S000XXX | 40.0 | 14.0 | 22.0 | R37.5 | R150 | 2.5 |
| CSC-C3-10t | CSC010TS000XXX | 40.0 | 14.0 | 22.0 | R37.5 | R150 | 2.5 |
| CSC-C3-20t | CSC020TS000XXX | 40.0 | 14.0 | 22.0 | R37.5 | R150 | 2.5 |
| CSC-C3-25t | CSC025TS000XXX | 40.0 | 14.0 | 22.0 | R37.5 | R150 | 3.0 |
| CSC-C3-30t | CSC030TS000XXX | 40.0 | 14.0 | 22.0 | R37.5 | R150 | 3.0 |
| CSC-C3-40t | CSC040TS000XXX | 50.0 | 21.0 | 28.0 | R200 | R200 | 3.5 |
| CSC-C3-50t | CSC050TS000XXX | 50.0 | 21.0 | 28.0 | R200 | R200 | 3.5 |

## Specifications

Signal Output at Capacity....................................2±0.002 mV/V
Linearity Error.................................................< 0.020% FSO
Non-Repeatability............................................< 0.020% FSO
Combined Error...............................................< 0.020% FSO
Hysteresis......................................................< 0.020% FSO
Creep/(30 mins.).............................................< 0.016% FSO
Zero Balance..................................................< 1.0 % Capacity
Temperature Effect on Span(/10C)........................< 0.011% FSO
Temperature Effect on Zero(/10C).........................< 0.015% FSO
Compensated Temperature Range.......................-10 ~ 40 C
Operating Temperature Range............................-35 ~ 65 C
Storage Temperature Range...............................-50 ~ 65 C

Service Load......................................100% Capacity
Safe Load.........................................150% Capacity
Ultimate Load....................................300% Capacity
Input Resistance.................................700Ω ± 7Ω
Output Resistance..............................703Ω ± 4Ω
Insulation Resistance..........................> 5000 MΩ (@50 VDC)
Excitation Voltage(Rec).......................5~12 V AC/DC
Excitation Voltage(Max.).......................18 V DC
Cable...................................................15m, 5mm dia.
..........................................................4 core shielded
Material................................................Stainless Steel
Sealing................................................IP68 welded sealed

Cable Wiring: Excitation +ve = Red     Excitation -ve = Black     Signal +ve = Green     Signal -ve = White

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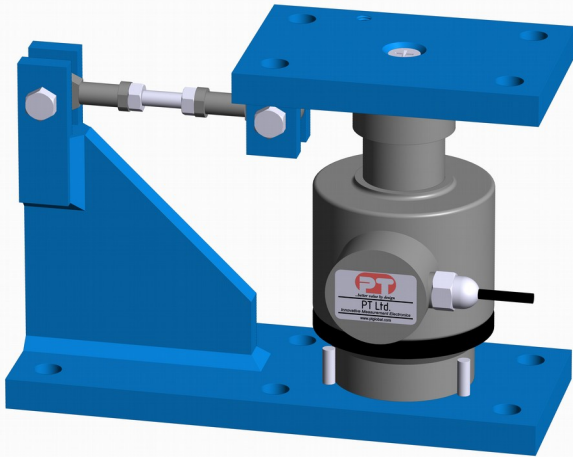Established 1979
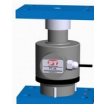
# CSC-C3 Installations

The CSC is conveniently installed with a range of standard mountings as illustrated below.



In the diagram to the left showing the CSC in a Type 1 Mounting the CSC is able to move in one direction to accommodate expansion, but is restrained at 90 degrees against lateral loading. The Type 1 mount is ideal for tanks and hoppers. It is easily installed and protected with a durable 2 coat paint system meeting ISO12944/C4, medium exposure, for extended life.

To order use part number **M-CSC1**, comprising the restraining mount and two receptors, the load cell and earth strap are ordered separately.

The ultimate restraining capacity is 20kN laterally in the longitudinal direction.
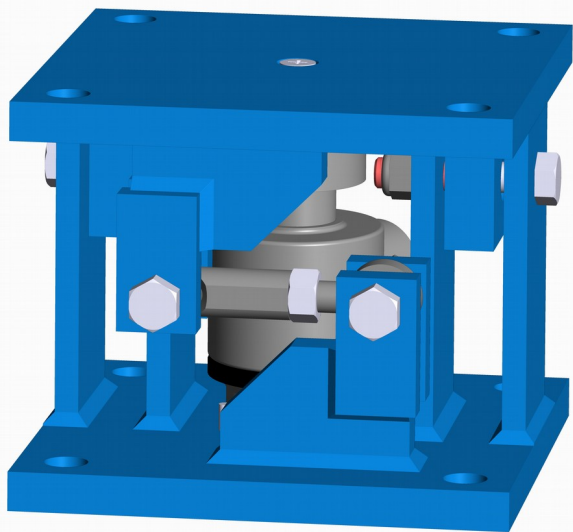


In the diagram to the left showing the CSC in a Type 2 Mounting the CSC is able to move in one direction to accommodate expansion as above, but is prevented from moving too far and is restrained at 90 degrees against lateral loading and has uplift restraint. The Type 2 mount is ideal for tanks and hoppers with higher loading or overturning potential. It is easily installed and protected with a durable 2 coat paint system meeting ISO12944/C4, medium exposure, for extended life.

To order use part number **M-CSC2**, comprising the restraining mount and two receptors, the load cell and earth strap are ordered separately.

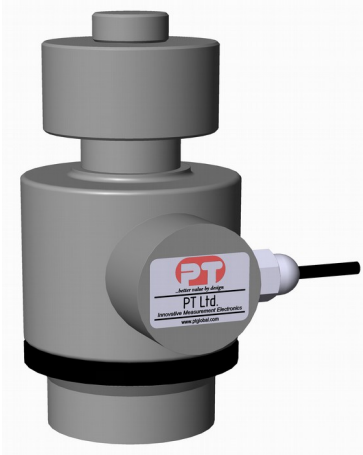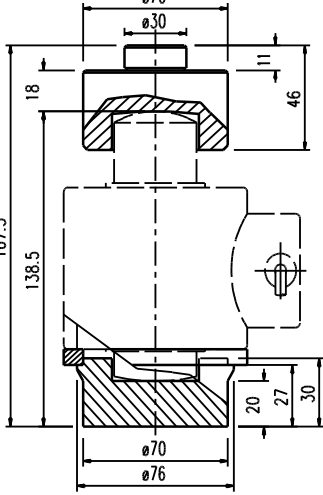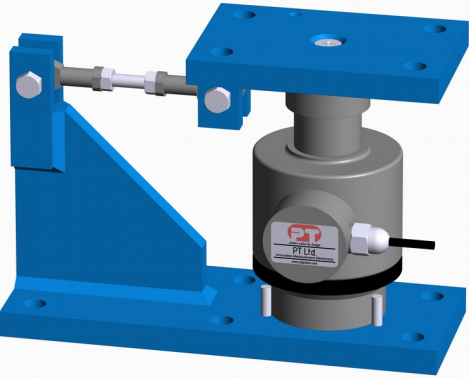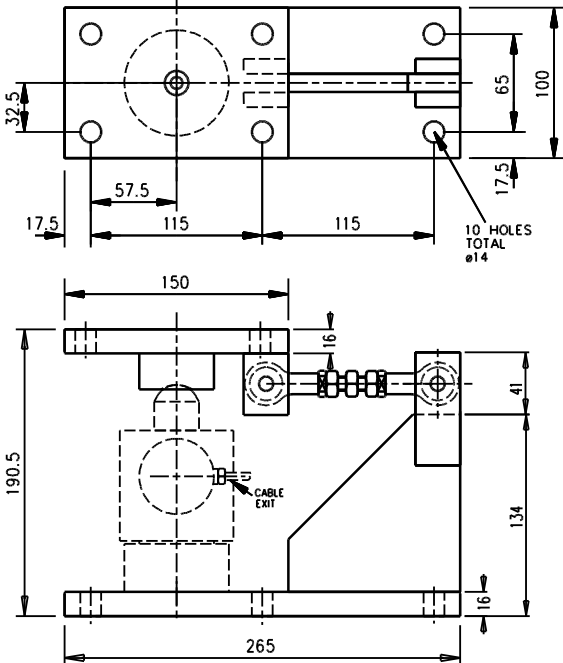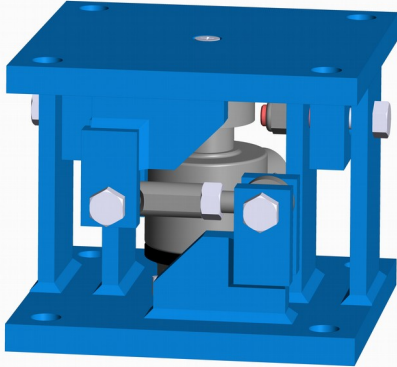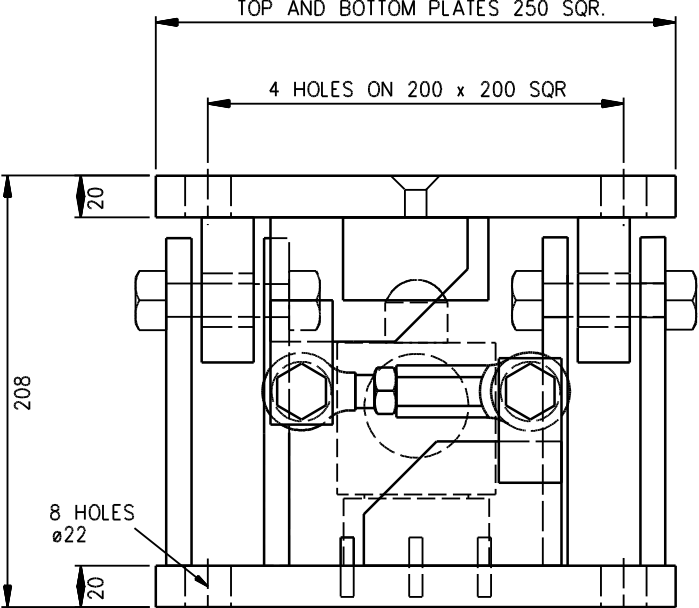The ultimate restraining capacity is 50kN laterally and 100kN in uplift.



In the diagram to the left showing the CSC in a Type 3 Mounting the CSC is able to move in any direction to accommodate expansion as above. The Type 3 mount is ideal for tanks and hoppers where restraint is provided by a Type 1 or 2 mount fitted to other supports or other restraining methods are used. It is easily installed and protected with a durable 2 coat paint system meeting ISO12944/C4, medium exposure, for extended life.

To order use part number **M-CSC3**, comprising the restraining mount and two receptors, the load cell and earth strap are ordered separately.
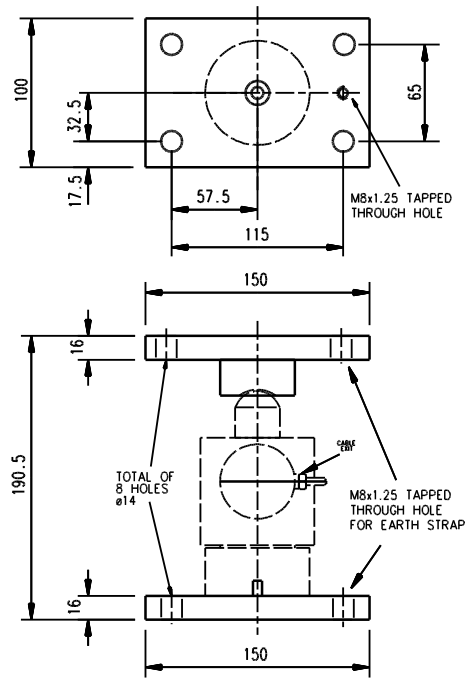
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# CSC-C3 Accessories

*Load cell ordered separately, part (order) numbers are for the items shown in the pictures.

| | Receptors (set of 2) | |
|---|---|---|
| **Capacity** 0.5t~30t | | |
| **Order*** M-CSC0-30 | | |
| **Weight(kg)** 2.5 | | |
| **Capacity** 40t~50t | | |
| **Order*** M-CSC0-50 | | |
| **Weight(kg)** 2.5 | | |

| | CSC Mount Type 1 | |
|---|---|---|
| **Capacity** 0.5t~30t | | |
| **Order*** M-CSC1-30 | | |
| **Weight(kg)** 11.5 | | |
| **Capacity** 40t~50t | | |
| **Order*** M-CSC1-50 | | |
| **Weight(kg)** 11.75 | Note:Mounting also common to some SSC | |

| | CSC Mount Type 2 | |
|---|---|---|
| **Capacity** 0.5t~30t | | |
| **Order*** M-CSC2-30 | | |
| **Weight(kg)** 21.5 | | |
| **Capacity** 40t~50t | | |
| **Order*** M-CSC2-50 | | |
| **Weight(kg)** 21.75 | Note:Mounting also common to some SSC | |

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| CSC Mount Type 3 | |
|---|---|
| **Capacity** 0.5t~30t | |
| **Order\*** M-CSC3-30 | |
| **Weight(kg)** 3.5 | |
| **Capacity** 40t~50t | |
| **Order\*** M-CSC3-50 | |
| **Weight(kg)** 3.75 | |

Note:Mounting also common to some SSC

100
32.5
17.5
65
57.5
115
M8x1.25 TAPPED THROUGH HOLE

150
16
190.5
16
150
TOTAL OF 8 HOLES ø14
CABLE ENT
M8x1.25 TAPPED THROUGH HOLE FOR EARTH STRAP

| Earth Strap | |
|---|---|
| **Capacity** 10t~50t | |
| **Order\*** A-HPCETH | |
| **Weight(kg)** 0.5 | |

Note:Also common to other models

330
ø8
HEATSHRINK
LUG
25mm² HIGHLY FLEXIBLE INSULATED COPPER CABLE
2.5

ISO 9001:2008 SGS

CE

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