

### Product Description

The type Q50 is a stainless steel compression disk load cell with complete hermetic sealing. It is a perfect fit for use in industrial environments and is particularly suited for use in tank and silo weighing applications in food and pharmaceutical production as a result of the clean and hygienic design.

### Packed Weight

■ Capacity (t)	0.5	1	2	5
Weight (kg)	1.0	1.0	1.0	1.0
■ Capacity (t)	10	20	30	
Weight (kg)	1.5	3.2	3.2	

### Application

- Hoppers, tanks and silos
- General force measurement applications

### Options

- ATEX and FM hazardous area approval in preparation

### Key Features

- Wide range of capacities from 500 kg to 30 t
- Stainless steel construction with electro-polished finish
- Environmental Protection IP68/IP69K with complete laser welded hermetic sealing
- Low profile design
- Calibration in mV/V/Ω

### Available Accessories

- Type 66-20 Weigh Module
- Compatible range of electronics available

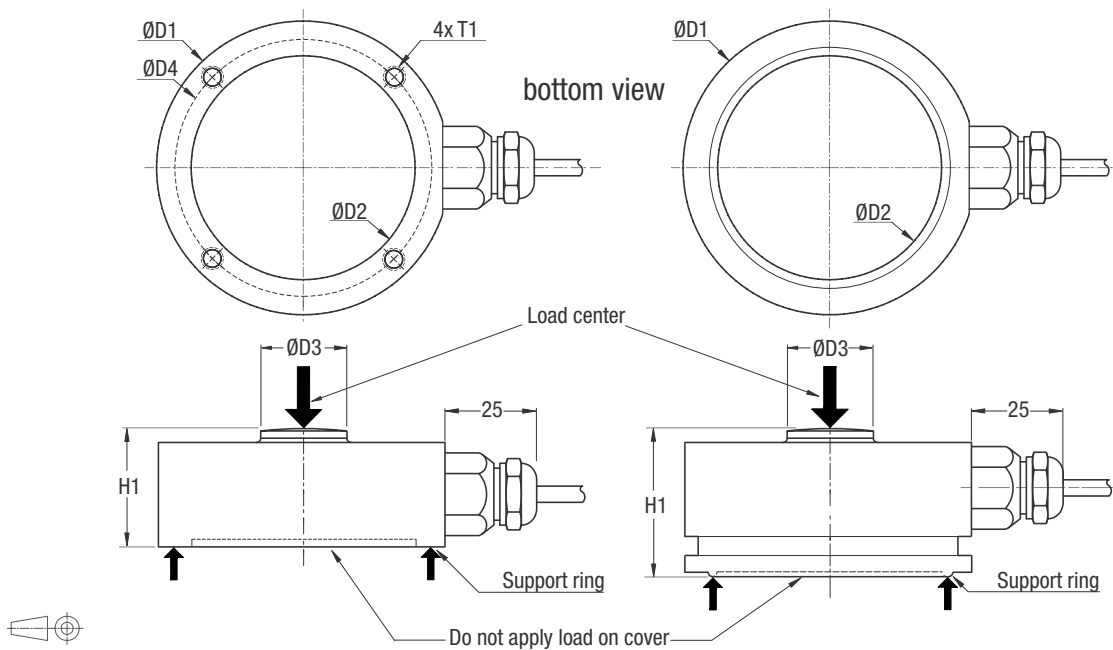
### Specifications

Maximum capacity	(E <sub>max</sub> )	t	0.5 / 1 / 2 / 5 / 10 / 20 / 30
Rated Output	(R <sub>O</sub> )	mV/V	2 ± 0.1
Zero balance		%*R <sub>O</sub>	± 5
Calibration in mV/V/Ω		%	± 0.05
Creep error (30 minutes)	(C <sub>R</sub> )	%*R <sub>O</sub>	± 0.06
Minimum dead load output return	(D <sub>R</sub> )	%*R <sub>O</sub>	± 0.05
Combined error		%*R <sub>O</sub>	± 0.25
Temperature effect on minimum dead load output	(T <sub>C0</sub> )	%*R <sub>O</sub> /10°C	± 0.04
Temperature effect on sensitivity	(T <sub>CRO</sub> )	%*R <sub>O</sub> /10°C	± 0.02
Excitation voltage		V	5...15
Input resistance	(R <sub>LC</sub> )	Ω	366 ± 10
Output resistance	(R <sub>out</sub> )	Ω	351 ± 2
Insulation resistance (100 V DC)		MΩ	≥ 5 000
Safe load limit	(E <sub>lim</sub> )	%*E <sub>max</sub>	200
Ultimate load		%*E <sub>max</sub>	300
Compensated temperature range		°C	-10...+40
Operating temperature range		°C	-20...+65
Load cell material			stainless steel 17-4 PH (1.4548)
Protection according EN 60 529			IP68 (up to 2 m water depth) / IP69K

### Dimensions (in mm)

500 kg ... 5 t :

10 t ... 30 t :



Load Cell Type	Capacity	H1	D1	D2	D3	D4	T1
Q50	500 kg ... 5 t	32.5	80	62	16	70	M6 x 1, 8 deep
	10 t	42	95	75	29	-	-
	20 t ... 30 t	54	120	87.5	42.5	-	-

### Wiring

- The load cell is provided with a shielded, 4 conductor cable (AWG 24). Cable jacket polyurethane
- Cable length: 5 m for 500 kg to 10 t  
10 m for 20 to 30 t
- Cable diameter: 5 mm
- The shield is floating

