





## **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.

# Application

- Hoppers, tanks and silos
- General force measurement applications

#### **Key Features**

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

#### **Approvals**

- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22
- FM hazardous area approval in preparation

### **Packed Weight**

■ Capacity	(t)	0.5	1	2	5
Weight	(kg)	1.0	1.0	1.0	1.0

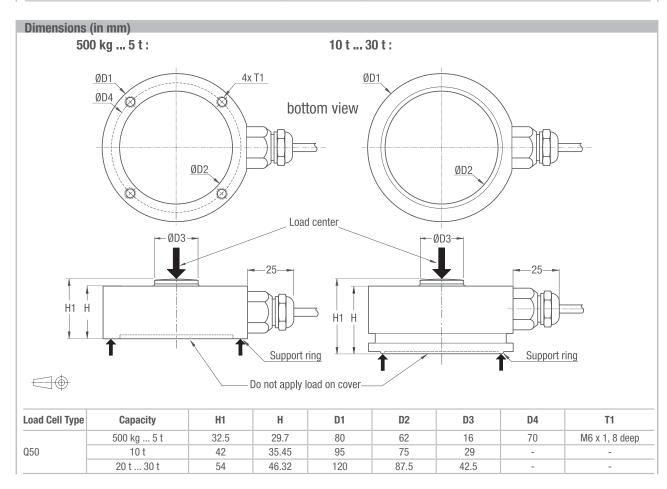
Capacity (t) 10 20 30Weight (kg) 1.5 3.2 3.2

#### **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	(RO)	mV/V	2 ± 0.1
Zero balance		%*R0	± 5
Calibration in mV/V/ $\Omega$		%	± 0.05
Creep error (30 minutes)	(CR)	%*R0	± 0.06
Minimum dead load output return	(DR)	%*R0	± 0.05
Combined error		%*R0	± 0.25
Temperature effect on minimum dead load of	output (TC <sub>0</sub> )	%*R0/10°C	± 0.04
Temperature effect on sensitivity	(TC <sub>RO</sub> )	%*R0/10°C	± 0.02
Excitation voltage		V	515
Input resistance	(R <sub>LC</sub> )	Ω	366 ± 10
Output resistance	(Rout)	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 (ATEX-40+60)
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



## 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

