

Compression load cell



- 17-4PH STAINLESS STEEL | 1.4542
- COMBINED ERROR $\leq \pm 0.03 \%$
($\leq 0.02\% \text{ C3}$ on request)
- IP68 PROTECTION RATING



NOMINAL LOAD (FS)

kg	kN	Net weight (kg)	Combined error	ACCURACY Class						
				C2	C3					
250	2.5	1.1	$\leq \pm 0.03 \%$	-	-	-	•	•	•	-
500	5	1.1	$\leq \pm 0.03 \%$	-	-	-	•	•	•	-
1 000	10	1.1	$\leq \pm 0.03 \%$	-	-	-	•	•	•	-
2 500	25	1.1	$\leq \pm 0.03 \%$	•	•	•	•	•	•	•
5 000	50	1.1	$\leq \pm 0.03 \%$	•	•	•	•	•	•	•
7 500	75	1.1	$\leq \pm 0.03 \%$	•	•	•	•	•	•	•
10 000	100	1.1	$\leq \pm 0.03 \%$	•	•	•	•	•	•	•
12 500*	125	1.6	$\leq \pm 0.03 \%$	-	•	•	•	•	•	•
15 000	150	2.1	$\leq \pm 0.03 \%$	-	-	-	•	•	•	-
30 000	300	3.8	$\leq \pm 0.03 \%$	-	-	-	•	•	•	-
50 000	500	8.6	$\leq \pm 0.03 \%$	-	-	-	•	•	•	-
100 000	1000	9.1	$\leq \pm 0.03 \%$	-	-	-	•	•	•	-

ON REQUEST

(*) Except for the capacity of 12 500 kg, which is already OIML R60 C3 approved



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2.0 mV/V ± 0.1 % at FS
Zero Balance	$< \pm 1.0$ %
Combined error	$\leq \pm 0.03$ %FS (C2)
	$\leq \pm 0.02$ %FS (C3)
Non-linearity	$\leq \pm 0.021$ %FS (C2)
	$\leq \pm 0.014$ %FS (C3)
Hysteresis	$\leq \pm 0.021$ %FS (C2)
	$\leq \pm 0.014$ %FS (C3)
Creep	$\leq \pm 0.03$ %FS (at 30 min FS)
Temperature coefficient on zero	0.005 %FS/°C
Temperature coefficient on span	0.003 %FS/°C
Compensated temperature range	-10...+50 °C
Operating temperature range	-20...+70 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	17-4 PH STAINLESS STEEL 1.4542
Deflection at FN	~ 0.4 mm

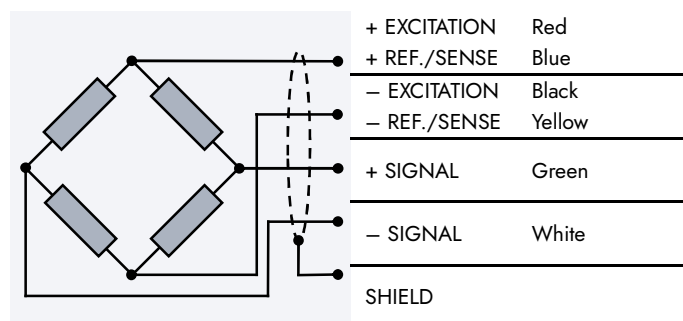
MECHANICAL LIMITS

Service load	120 %FS	Load without any permanent deformation or change in calibration.
Safe overload	150 %FS	The highest static load that may be applied once or briefly without mechanical damage.
Breaking load	> 300 %FS	Load at which permanent deformation or mechanical failure (fracture) occurs.
Max. transverse load (side)	50 %FS	Maximum lateral or shear load that can be applied (e.g. due to misalignment or friction).
Max. permissible dynamic load	70 %FS	For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure.

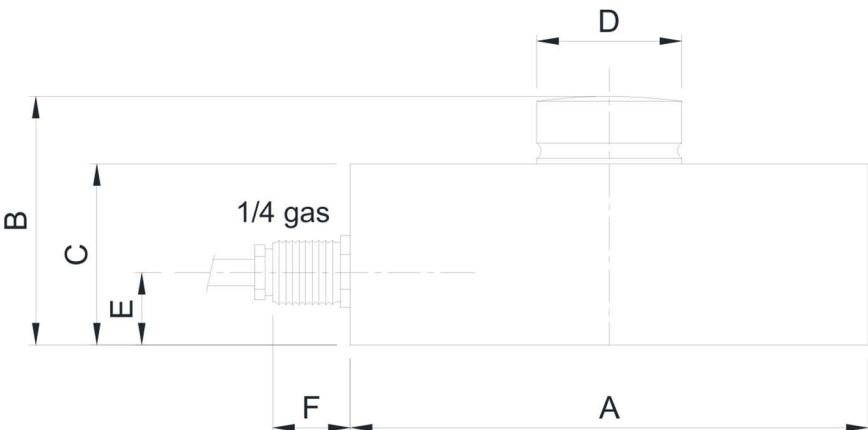
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	$700 \pm 10 \Omega$
Output resistance	$700 \pm 10 \Omega$
Insulation resistance	$\geq 10\,000 \text{ M}\Omega$ at 100 V
Recommended excitation voltage	max. 15 V
Cable diameter	5.0 mm
Cable length	5 m (250 -10 000 kg)
	10 m (12 500 -100 000 kg)

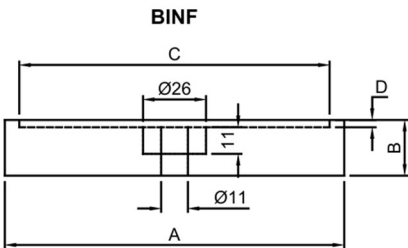
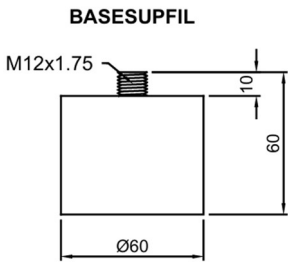
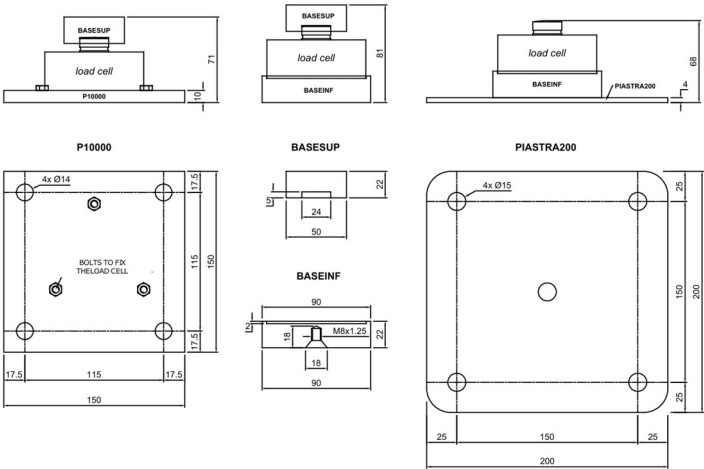
ELECTRICAL CONNECTION



DIMENSIONS (mm)



	250 – 12 500 kg	15 000kg	30 000 kg	50 000 – 100 000 kg
A	Ø82	Ø100	Ø126	Ø164
B	44	48	54	80
C	32	35	40	60
D	Ø22	Ø28	Ø35	Ø60
E	14	14	14	26
F	15	15	15	15



	A	B	C	D
BINF100	Ø110	22	Ø102	2
BINF126	Ø140	23	Ø128	3
BINF165	Ø180	23	Ø167	3



COMPLIANCE AND CERTIFICATION

Protection Rating	IP68 (IEC 60529) IP69K (ON REQUEST)
Compliance	CE, RoHS, REACH
Calibration	Factory calibrated, ISO 17025 calibration available on request
HS-CODE	9031.80.80
Certifications	 OIML R60 C2
	 Complies with the Eurasian Customs Union regulations
	 Complies with United Kingdom regulations for legal for trade use
Certifications (on request)	 Declaration of conformity + IP69K marking protection rating Water protection in case of high-pressure or steam jet cleaning (test: pressurized water is sprayed from a distance of max 150 mm); Water pressure: 100 bar; temperature: 80 °C; test duration: 250 seconds (reference standard: DIN 40050-9)
	 Accredia traceable calibration report
	 ATEX II 1G 2D (zone 0-1-2-21-22) ( )
	 IECEx (zone 0-1-2-20-21-22)
	 Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres
	 OIML R60 C3
	 Complies with the regulations of the Russian Federation for legal for trade use



MOUNTING KITS AND ACCESSORIES

V10000/10275

- AISI 304 stainless steel upper and lower plates.
- AISI 304 stainless steel laminas against lateral forces.
- Anti-tilt constraint consisting of two threaded rods with self-locking nut.



application range:
up to 15 000 kg

V15000/1000000

- AISI 304 stainless steel upper and lower plates.
- AISI 304 stainless steel laminas against lateral forces.
- Anti-tilt constraint consisting of two threaded rods with self-locking nut.



application range:
up to 100 000 kg

BASESUPFIL

- AISI 304 stainless steel threaded upper base for compression load cells.



M12x1.75mm

BINF100 | BINF126 | BINF165

- AISI 304 stainless steel turned lower base for compression load cells.



BINF100:
Ø110x22 mm
BINF126:
Ø140x23 mm
BINF165:
Ø180x23 mm

BASEUP | P10000

- Lower plate and turned upper base in AISI 304 stainless steel.



Load cell capacity:
up to 12 500 kg



BASEUP | BASEINF

- Turned upper and lower bases in AISI 304 stainless steel.



Load cell capacity:
up to 12 500 kg

BASEINF | PIASTRA200

- Lower plate and turned lower base in AISI 304 stainless steel.



Load cell capacity:
up to 12 500 kg

