

COMPRESSION LOAD CELL



 COMPRESSION

- 17-4PH STAINLESS STEEL | 1.4542
- COMBINED ERROR $\leq \pm 0.035 \%$
- IP68 PROTECTION RATING





NOMINAL LOAD (FS)

kg	kN	Net weight (kg)	Combined error	EAC	UKCA					Rated Output (mV/V)
15 000	150	1.4	$\leq \pm 0.035 \%$	•	•	•	•	•	•	2.0 $\pm 0.1\%$
30 000	300	2.2	$\leq \pm 0.035 \%$	•	•	•	•	•	•	2.0 $\pm 0.1\%$
50 000	500	3.8	$\leq \pm 0.035 \%$	•	•	•	•	•	•	2.0 $\pm 0.1\%$

ON REQUEST



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2.0 mV/V ± 0.1 % at FS
Zero Balance	± 1.0 %
Combined error	$\leq \pm 0.035$ %FS
Non-linearity	$\leq \pm 0.025$ %FS
Hysteresis	$\leq \pm 0.025$ %FS
Creep	$\leq \pm 0.03$ %FS (at 30 min FS)
Temperature coefficient on zero	0.005 %FS/°C
Temperature coefficient on span	0.005 %FS/°C
Compensated temperature range	-10...+50 °C
Operating temperature range	-20...+70 °C
Reference Temperature	23 °C

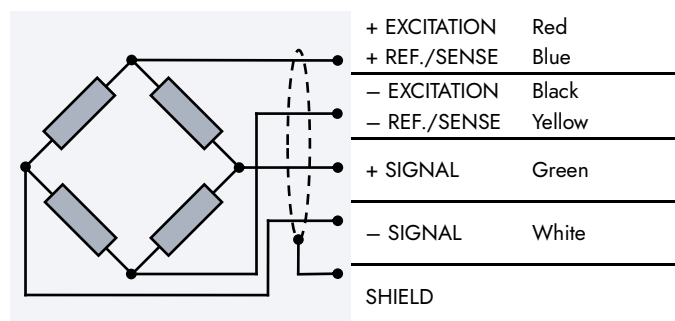
MECHANICAL PROPERTIES

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

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	700 $\pm$ 5 Ω
Output resistance	700 $\pm$ 5 Ω
Insulation resistance	$\geq 10\,000$ M Ω at 100 V
Recommended excitation voltage	max. 15 V
Cable diameter	5.0 mm
Cable length	10 m
Cores	6 x 0.14 mm ²

ELECTRICAL CONNECTION

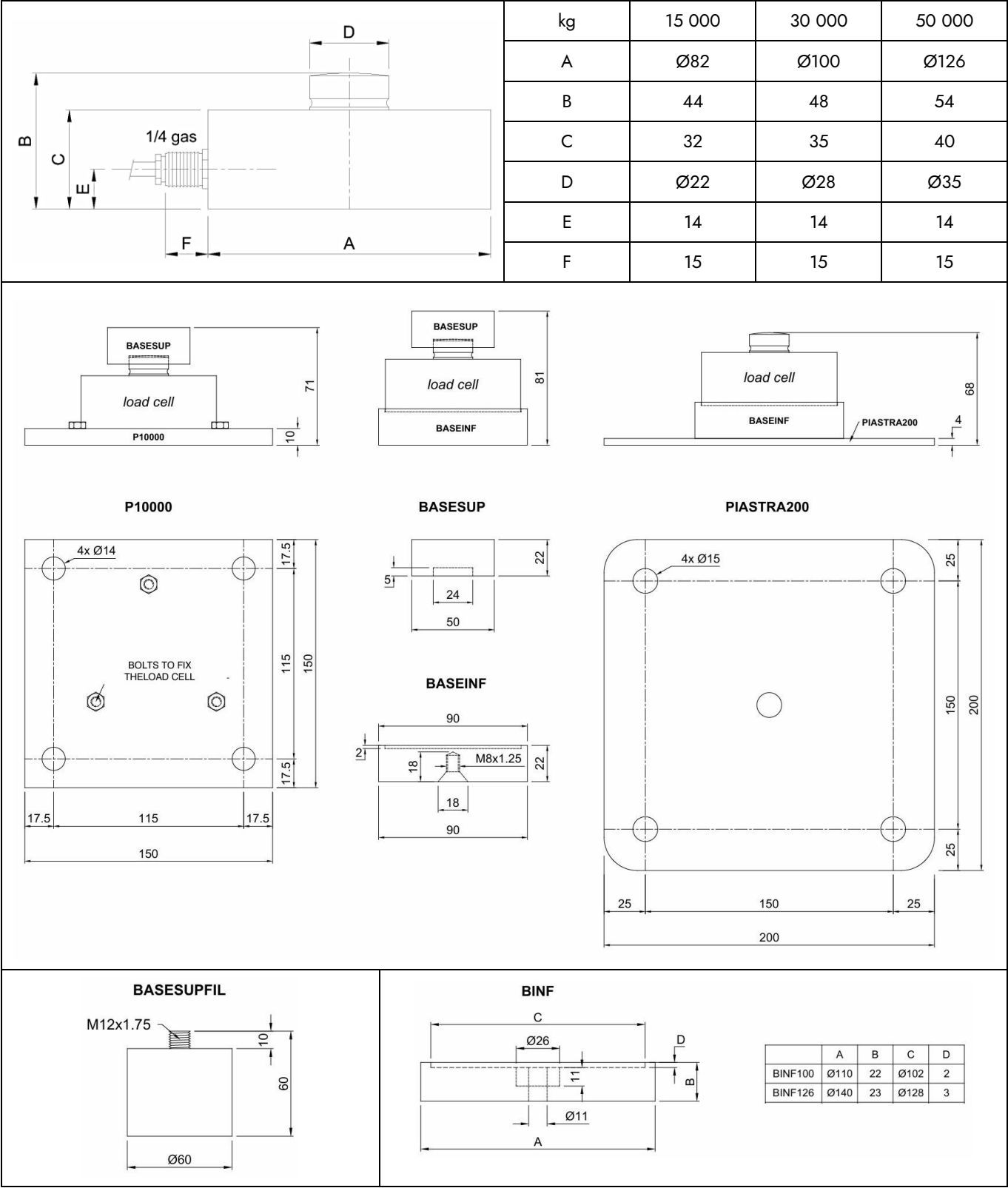


MECHANICAL LIMITS

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.



DIMENSIONS (mm)



COMPLIANCE AND CERTIFICATION

Protection Rating	IP68
Compliance	CE, RoHS, REACH
Calibration	Factory calibrated, ISO 17025 calibration available on request
HS-CODE	9031.80.80
Calibrations	 Complies with the Eurasian Customs Union regulations
	 Equivalent of the CE marking for the United Kingdom
Certifications (on request)	 Calibration report
	 ATEX (zone 2-22)
	 ATEX/IECEx (zone 1-21)
	 Complies with the Eurasian customs Union regulations for use in potentially explosive atmospheres
	 Complies with Chinese market regulations for use in potentially explosive atmospheres



MOUNTING KITS AND ACCESSORIES

LMLAV – EN1090

- 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

LMLAW – EN1090

- 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

LMLBC – EN1090

- 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

LMLAY

- Upper and lower plates in galvanized S355JR construction steel.
- 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

LMLAZ

- Upper and lower plates in galvanized S355JR construction steel.
- 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.



M12x1.75 mm

BINF100 | BINF126

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



Ø110x22 mm
Ø140x23 mm

BASESUP | P10000

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



Load cell capacity:
up to 15 000 kg

BASESUP | BASEINF

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



Load cell capacity:
up to 15 000 kg

BASEINF | PIASTRA200

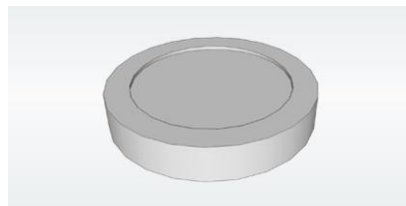
- Lower plate and turned lower base in AISI 304 stainless steel.



Load cell capacity:
up to 15 000 kg

ADAT100 | ADAT126 | ADAT165

- AISI 304 stainless steel adapter for mounting kit:
 - V15000 for Ø82 mm load cells
 - V30000 for Ø100 mm load cells
 - V100000 for Ø126 mm load cells



for Ø82 mm load
cells to Ø126 mm
load cells

