

ISO 10651-4 32 mm Plug and Ring Gauges

Bag Refill Valve Connector Inspection | KP-10651P and KP-10651R

Two complementary reference gauges for dimensional inspection of 32 mm conical bag refill valve connectors on user-powered resuscitators. The plug gauge checks the socket connector; the ring gauge checks the corresponding cone connector.



KP-10651P
32 mm Plug Gauge



KP-10651R
32 mm Ring Gauge

Product specifications

Applicable standard	ISO 10651-4 / Figure 1
Inspection object	32 mm bag refill valve conical connectors
Basic taper	1:28 on diameter
Gauge material	440C stainless steel
Hardness	HRC 58-60
Critical surface roughness	Ra 0.8 μm
Models	KP-10651P (plug) / KP-10651R (ring)

Inspection context

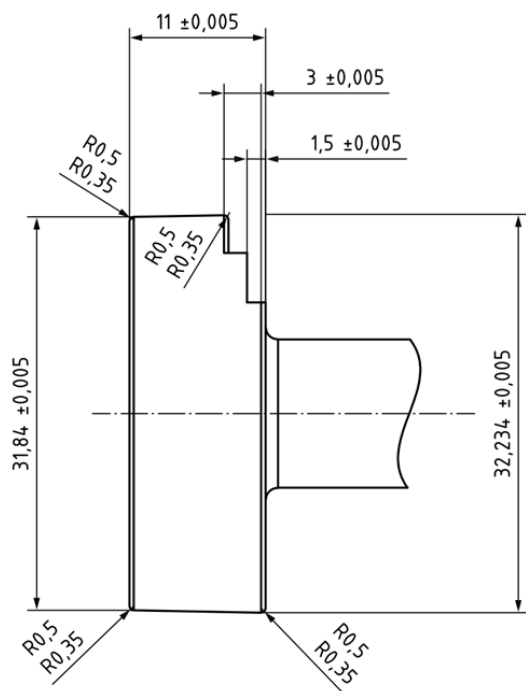
For **ISO 10651-4:2023, Clause 6.6**, the plug-gauge check uses an axial engagement force of **50 $\pm$ 5 N** with simultaneous rotation of **20 $\pm$ 5°**. Acceptance is determined from the socket connector leading-edge position relative to the gauge reference steps. The ring gauge can similarly be used for the corresponding cone.

Note: These are passive dimensional gauges; force/rotation application equipment is not included in the gauge itself.

Gauge drawings and dimensional limits

Dimensions below are taken from KINGPO gauge drawings. All stated linear dimensions are in millimetres; each gauge has its own limits and cannot substitute for the other.

■ KP-10651P | Plug Gauge

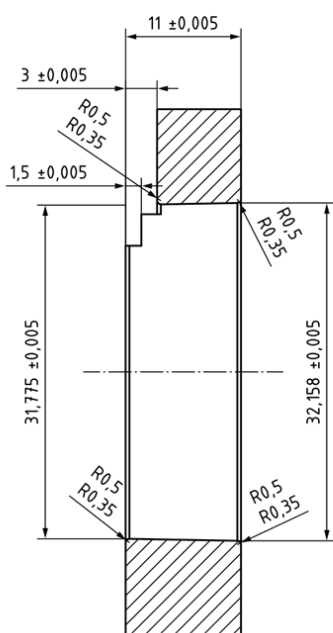


Reference dimensions

Diameter A	31.840 ± 0.005
Diameter B	32.234 ± 0.005
Length	11 ± 0.005
Step 1	3 ± 0.005
Step 2	1.5 ± 0.005

For the 32 mm **socket connector**. Engagement and acceptance checks follow the relevant standard procedure.

■ KP-10651R | Ring Gauge



Reference dimensions

Diameter A	31.775 ± 0.005
Diameter B	32.158 ± 0.005
Length	11 ± 0.005
Step 1	3 ± 0.005
Step 2	1.5 ± 0.005

For the corresponding **cone connector**. Check engagement against the specified ring-gauge geometry.

Before ordering: confirm the required ISO 10651-4 edition, gauge selection and requested inspection/calibration records.