TECHNICAL DATASHEET | PRECISION MECHANICAL GAUGE

ISO 8637-2 Conical Gauge

Blood Socket Connector Dimensional Inspection | Model KP-8637F3

The KINGPO KP-8637F3 is a conical reference gauge for checking the mating geometry of blood socket connectors associated with ISO 8637-2. Its defined 6:100 taper and 5 N gauging condition support dimensional and engagement inspection for extracorporeal blood circuit applications.



GAUGING CONDITION	TAPER GEOMETRY	HARDNESS
5 N	**6:100**	**HRC 58-60**

Product Specifications

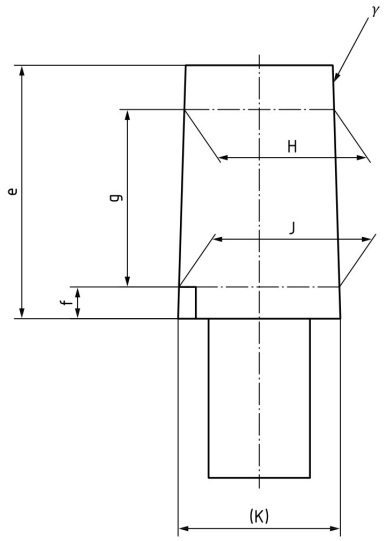
Product / model	Conical Gauge / KP-8637F3
Applicable standard	ISO 8637-2
Test object	Blood socket connector
Material	440C stainless steel
Rockwell hardness	HRC 58-60
Critical surface roughness	Ra not exceeding 0.8 μm
Reference geometry	Conical connector geometry, Table 3

Application: Conical dimensional and mating-engagement inspection. Leakage, pressure resistance and mechanical separation are separate functional test activities.

REFERENCE GEOMETRY | ISO 8637-2

Conical Dimensions & Inspection

KP-8637F3 | Conical Reference Connector Geometry - Table 3



Key

e	minimal length of gauge	*J*	taper cone
f	testing dimension length range	*K*	taper cone
g	reference dimension length	*γ*	dimension taper rate
H	taper cone		

Conical Reference Dimensions

Drawing parameter	Minimum	Nominal	Maximum
e - Gauge length	10 mm	-	-
f - Test length	1.24 mm	1.25 mm	1.25 mm
g - Reference length	-	7 mm	-
H - Cone dimension	5.905 mm	5.910 mm	5.910 mm
J - Cone dimension	6.325 mm	6.330 mm	6.330 mm
K - Cone dimension	-	6.405 mm	-
γ - Taper ratio	-	6:100	-

Inspection Scope & Procurement

The gauge provides a reference for conical geometry and engagement inspection. The 5 N value is an inspection condition, not a force-measurement range. Apply the appropriate inspection procedure and acceptance criteria for the specified standard edition.

Before quotation	Confirm the connector type, applicable ISO 8637-2 edition, inspection procedure and any required gauge or dimensional documentation.

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