

Hygienic Installation Systems EHEDG certified



measuring monitoring analysing

LZE



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Description

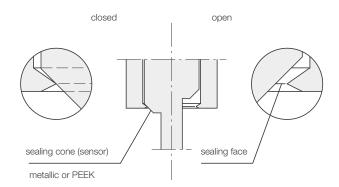
The KOBOLD mounting system for hygienic measuring points is characterized by a dead space and elastomer-free seal system of the mounting sleeve with the measuring unit. An EHEDG-assessment verifies the hygienic design of the systems. The materials used are safe for use in the food and pharmacy industry.

In order to make it possible to install it in existing pipe systems with common food screw connections, a number of adapters (e.g. Tri-Clamp[®], Varivent[®], conical connection DIN 11851) are available.

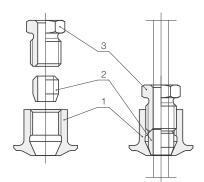
The sleeves are equipped with measuring unit connections in three different sizes (M12 x 1.5, G1/2 and G1). The measuring unit you have selected determines the necessary size of the weld-in sleeve.

Function

The KOBOLD measuring units for applications in the area of hygiene have a seal cone on the threaded connection, which is pressed against the seal edge of the weld-in sleeve when screwed into the sleeve. The seal edge is deformed slightly and presses against the cone of the measuring unit with the spring force of the metal. This ensures hygienic installation of the measuring units - without elastomer seals.

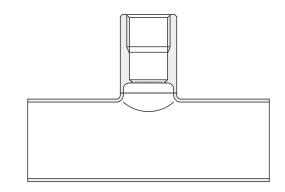


Two compression fittings with a PEEK-seal are available for the installation of a temperature sensor at a variable height. The sensor is sealed by means of a conically-shaped seal ring made of highly heat-resistant PEEK. By tightening the clamping screw, the gap between the sensor and sleeve is completely filled on one hand and the seal ring is pressed against the sensor on the other.





Welding in prefabricated fittings is much simpler in many cases than the precise and dead space-free attachment of sleeves in pipeline systems. For this reason, KOBOLD offers weld-in fittings (LZE-R) in various pipe diameters and with the matching connections for the Kobold measuring units.



Application Areas

- Food industry, e.g. dairies and breweries
- Pharmaceutical industry
- Biotechnology
- Chemical industry
- CIP/SIP-processes

Technical Details

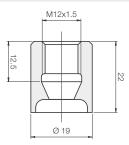
Material:	stainless steel 1.4404, PEEK		
Measuring unit connection:	M12x1.5 G ½ G 1		
Temperature range: • Seal metal /metal • Seal metal /PEEK	-20+250°C -20+150°C		
Max. pressure: • Seal metal /metal • Seal metal /PEEK	50 bar 10 bar		
Surfaces:	hygiene class H3 internal: $R_a = 0.8 \ \mu m$ external: $R_a = 1.6 \ \mu m$		



Measuring Unit Connection M12 x 1.5 for measuring units LNM-__M3... / LTS-__M... / LTS-K-__M...

Model LZE-P1 Cylinder sleeve with collar for pipes and flared ends

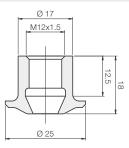




Model LZE-K1 Collar sleeve

for containers

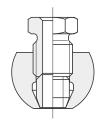




Model LZE-S1 Ball compression fitting

for temperature sensor (variable height setting)

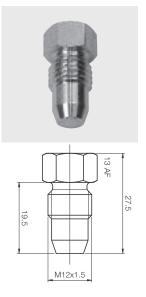




for welding in and closing off the sleeve

Model LZE-B1

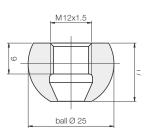
Capped stub



Model LZE-U1 Ball sleeve

for sloping installation

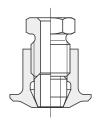




Model LZE-M1 Collar compression fitting

for temperature sensor (variable height setting)



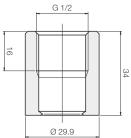




Measuring Unit Connection G 1/2 for meas. units LNM-__G4... / LNZ-... / LNK-K... / LNK-1... / LTS-__T... / LTS-K__T...

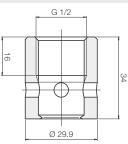
Model LZE-Z2 Cylinder sleeve for containers





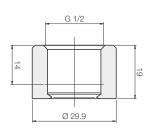
Model LZE-T2 Cylinder sleeve with test hole for containers, with leak monitoring





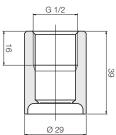
Model LZE-N2 Cylinder sleeve low form for containers





Model LZE-P2 Cylinder sleeve with collar for pipes and flared ends

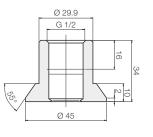




Model LZE-K2 Collar sleeve

for thick-walled containers

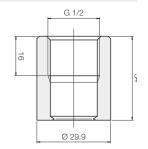




Model LZE-U2 Ball sleeve

for sloping installation

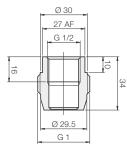




Model LZE-D2 G 1 process adapter

for adaptation to G1 threads

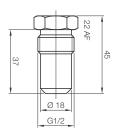




Model LZE-B2 Capped stub

for welding in and closing off the sleeve





Accessories

194

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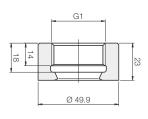


Measuring Unit Connection G 1 for measuring units LNK-2, LNK-3, LNK-4 / LNP

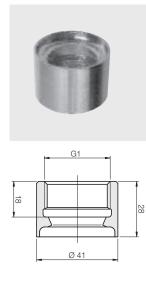
Model LZE-Z3 Cylinder sleeve

for containers





Model LZE-P3 Cylinder sleeve with collar for pipes and flared ends



Model LZE-B3 Capped stub

for welding in and closing off the sleeve



G1

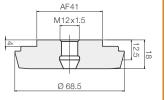
Adapter for Existing Process Connections

Measuring Unit Connection M12 x 1.5 for measuring units LNM-__M3... / LTS-__M... / LTS-K-__M...

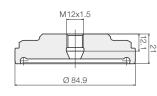
Model LZE-L1 Conical connection DIN 11851 DN 50 Model LZE-A1 Aseptic lap-joint flange DIN 11864 DN 65 Model LZE-V1 VARIVENT® Model LZE-C1 Tri-Clamp®

DN 50

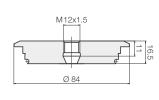




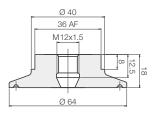












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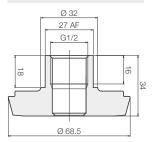
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Measuring Unit Connection G 1/2 for meas. units LNM-__G4... / LNZ-... / LNK-K... / LNK-1... / LTS-__T... / LTS-K__T...

Model LZE-L2 Conical connection DIN 11851 DN 50



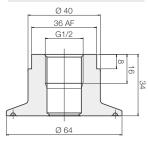


Model LZE-A2 Aseptic lap-joint flange DIN 11864 DN 65

Model LZE-V2 VARIVENT® Model LZE-C2 Tri-Clamp[®]

DN 50





Measuring Unit Connection G 1 for measuring units LNK-2, LNK-3, LNK-4 / LNP

Ø 32

G1/2

Ø 84.9

16

37

Model LZE-L3 Conical connection DIN 11851 DN 50 Model LZE-A3 Aseptic lap-joint flange DIN 11864 DN 65 Model LZE-V3 VARIVENT®

Ø 32

G 1/2

Ø 84

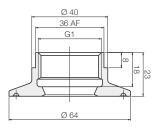
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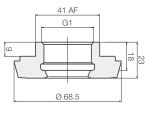
Model LZE-C3 Tri-Clamp®

DN 50

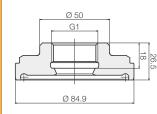




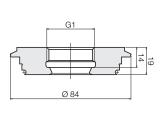












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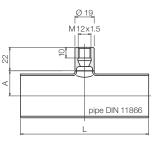
Measuring Unit Connection M12 x 1.5 for measuring units LNM-__M3... / LTS-__M... / LTS-K-__M...

Model LZE-R1

Measuring Unit Connection G ½ for measuring units LNM-__G4... / LNZ-... / LNK-K... / LNK-1... / LTS-_T... / LTS-K__T...

Model LZE-R2

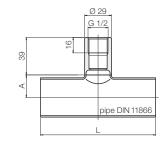




Ordering designation	DN	Pipe dimensions	L [mm]	A [mm]
LZE-R1 15	15	19 x 1.5	70	10.5
LZE-R1 25	25	29 x 1.5	100	16.5
LZE-R1 40	40	41 x 1.5	120	23.5
LZE-R1 50	50	53 x 1.5	140	30.5
LZE-R1 65	65	70 x 2.0	160	38.5
LZE-R1 80	80	85 x 2.0	180	47.0

Measuring Unit Connection G 1 for measuring units LNK-2, LNK-3, LNK-4 / LNP Model LZE-R3



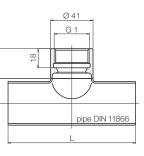


Bestell- bezeichnung	DN	Pipe dimensions	L [mm]	A [mm]
LZE-R2 25	25	29 x 1.5	100	16.5
LZE-R2 40	40	41 x 1.5	120	23
LZE-R2 50	50	53 x 1.5	140	29.5
LZE-R2 65	65	70 x 2.0	160	40
LZE-R2 80	80	85 x 2.0	180	49

Capsule for Temperature Probe LTS

Model LZE-H





Ordering designation	DN	Pipe dimensions	L [mm]	A [mm]
LZE-R3 40	40	41 x 1.5	120	23.5
LZE-R3 50	50	53 x 1.5	140	29.5
LZE-R3 65	65	70 x 2.0	160	39.5
LZE-R3 80	80	85 x 2.0	180	47.5

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in preparation



Mounting Sleeves, EHEDG certified

Description	Measuring unit connection		
	M12x1.5	G 1/2	G 1
cylinder sleeve		LZE-Z2	LZE-Z3
cylinder sleeve with test hole		LZE-T2	
cylinder sleeve low form		LZE-N2	
cylinder sleeve with collar	LZE-P1	LZE-P2	LZE-P3
collar sleeve	LZE-K1	LZE-K2	
ball sleeve	LZE-U1	LZE-U2	
collar compression fitting	LZE-M1		
ball compression fitting	LZE-S1		
adapter:			
conical connection DIN 11851	LZE-L1	LZE-L2	LZE-L3
aseptic lap-joint flange DIN 11864	LZE-A1	LZE-A2	LZE-A3
VARIVENT®	LZE-V1	LZE-V2	LZE-V3
Tri-Clamp [®]	LZE-C1	LZE-C2	LZE-C3
G 1 adapter		LZE-D2	
capped stub*	LZE-B1	LZE-B2	LZE-B3

 * all sleeves must be equipped a capped stub to prevent warping during welding

Weld-in Fittings, EHEDG certified

Model	Description	Measuring unit connection	Pipe nominal width
LZE-R	weld-in fittings	1 = M12 x 1.5 2 = G 1/2 3 = G 1	 15 = DN 15 (only with 1 = M12x1.5) 25 = DN 25 (only with 3 = G 1) 40 = DN 40 50 = DN 50 65 = DN 65 80 = DN 80