

# PKS 299

Pneumatic Test Probes

Grid:

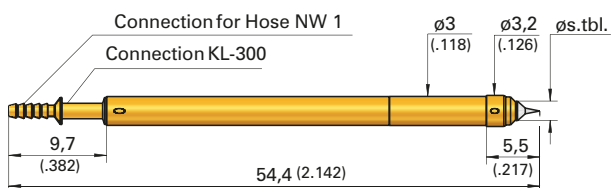
≥ 3,50 mm

≥ 140 Mil

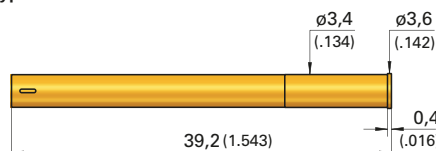
Installation height with KS: 5,9 or 5,6 mm (.232) or (.220)

Recommended stroke: 12,0 mm (.472)

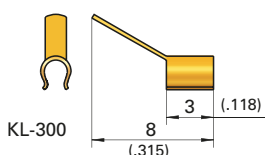
## Mounting and functional dimensions



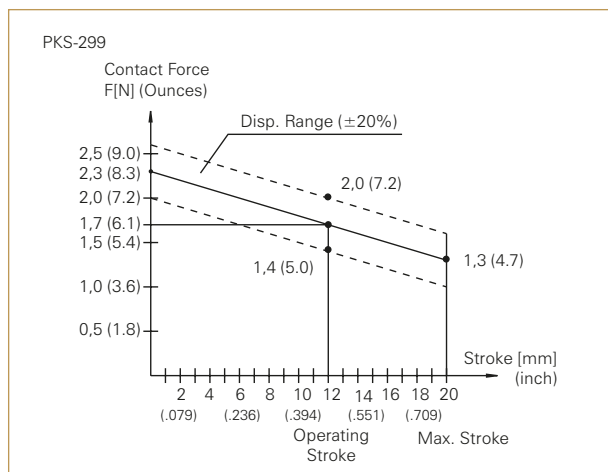
PKS-299 Type B



KS-299



KL-300



### Mechanical data

Working stroke: 12,0 mm (.472)

Maximum stroke: 20,0 mm (.787)

Cont. force at work.stroke: 1,7 N (6.1oz)

Operating medium: Compressed air (filtered, oil-free)

Operating pressure: 6 bar (86 psi)

### Electrical data

Current rating: 2 - 3 A

10 A (Type "BH", see Note below)

R<sub>i</sub> typical: < 30 mΩ

### Operating temperature

Standard: 0° up to +80 °C

### Materials

Plunger: Steel or BeCu,

rhodium- or gold-plated

Barrel: Brass, gold-plated

Restoring spring: Steel, gold-plated

Receptacle: Brass, gold-plated

O-rings: Perbunan

### Mounting hole size

with receptacle: ø 3,38 - 3,39 mm

(.1331 - .1335)

without receptacle: ø 3,00 mm (.1181)

## Available tip styles

| Material | Tip style | Plating | Further versions |             |
|----------|-----------|---------|------------------|-------------|
|          |           |         | Ø                | Ø (inch)    |
| 2        | 01**      | R       | Ø 2,00 (.079)    |             |
| 3        | 02        | A       | Ø 2,50 (.098)    |             |
| 2        | 04**      | R       | Ø 1,30 (.051)    | 2,00 (.079) |
| 2        | 15*       | A       | Ø 2,00 (.079)    |             |

\* pressed-in HM-tip, installation height 6,5 mm (.256)

\*\* Collar diameter: 2,0 mm (.079)

## Available tip styles

### Special versions without collar

| Material | Tip style | Plating | Further versions |          |
|----------|-----------|---------|------------------|----------|
|          |           |         | Ø                | Ø (inch) |
| 2        | 01***     | R       | Ø 1,50 (.059)    |          |
| 2        | 04***     | R       | Ø 1,50 (.059)    |          |
| 3        | 05***     | A       | Ø 1,30 (.051)    |          |

\*\*\* Shaft diameter: 1,50 mm (.059)

### Note:

The plungers of PKS-299 with tip styles without a collar sit 0.3 mm deeper in the barrel in the home position. This affects the total length (54.1 mm), the installation height (5.6 mm), the working stroke (12.3 mm), and the maximum stroke (20.3 mm).

### Warning:

Do not solder the cable to the crimp points of the receptacle.

### Note:

For high current applications up to 10 A, order with special designation "BH" (terminal "B").

### Note:

The receptacle can be used from grid size 4,00 mm (160 Mil) upwards.

### Note:

Pneumatic accessories and general instructions shown on page 174.

## Ordering example

|                                       | Series | Tip material<br>2 = Steel<br>3 = BeCu | Tip style | Tip diameter<br>(1/100 mm) | Plating<br>A = Gold<br>R = Rhodium | Spring force<br>(dN) | Collar height<br>(mm) | Type<br>(alternative<br>"B" or "BH") |
|---------------------------------------|--------|---------------------------------------|-----------|----------------------------|------------------------------------|----------------------|-----------------------|--------------------------------------|
| Test probe:                           | PKS    | 2                                     | 99        | 201                        | 200                                | R                    | 17                    | 02 B                                 |
| Test probe for use up to 10 A:        | PKS    | 2                                     | 99        | 204                        | 130                                | R                    | 17                    | 02 BH                                |
| Receptacle:                           | KS     | 2                                     | 99        |                            |                                    |                      |                       |                                      |
| Clip connection with solder terminal: | KL     | 3                                     | 00        |                            |                                    |                      |                       |                                      |