

# PKS 299

Pneumatic Test Probe

## Grid:

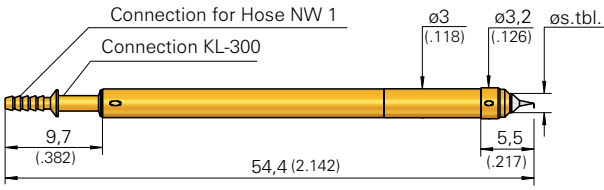
≥ 3,50 mm

≥ 140 Mil

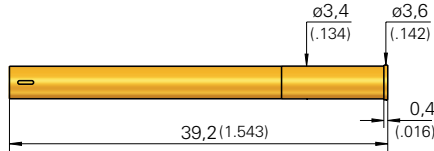
Installation Height: 5,5 mm (.217)

Recommended Stroke: 12,0 mm (.472)

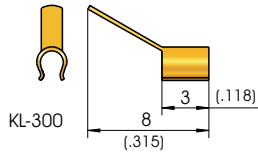
## Mounting and Functional Dimensions



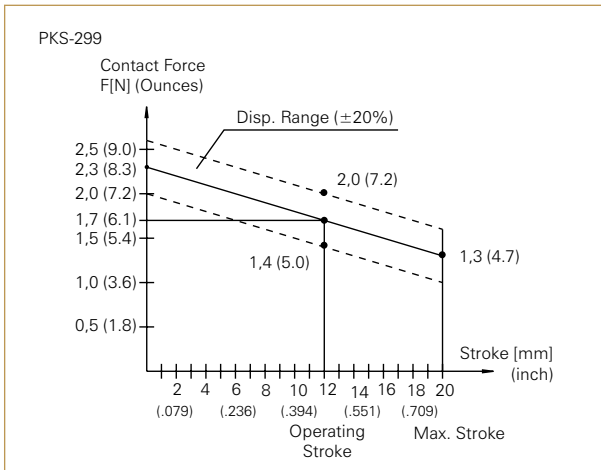
PKS-299 Type B



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)

### 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

### Electrical Data

**Current Rating:** 2 - 3 A (see Note below)  
**R<sub>i</sub> typical:** < 30 mΩ

### 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<br>01<br>**  |           | R       | ø 2,00 (.079)    |             |
| 3<br>02        |           | A       | ø 2,50 (.098)    |             |
| 2<br>04<br>**  |           | R       | ø 1,30 (.051)    | 2,00 (.079) |
| 2<br>15*<br>** |           | 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<br>01<br>*** |           | R       | ø 1,50 (.059)    |          |
| 2<br>04<br>*** |           | R       | ø 1,50 (.059)    |          |
| 3<br>05<br>*** |           | A       | ø 1,30 (.051)    |          |

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

### 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 4,00 mm (160 Mil) up.

### Note:

Pneumatic Accessories and general Instructions see Page 94/95.

## 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 B or BH) |
|---------------------------------------|--------|---------------------------------------|-----------|----------------------------|------------------------------------|----------------------|-----------------------|-------------------------------|
| Test Probe:                           | PKS    | 2                                     | 01        | 200                        | R                                  | 17                   | 02                    | B                             |
| Test Probe for usage up to 10 A:      | PKS    | 2                                     | 04        | 130                        | R                                  | 17                   | 02                    | BH                            |
| Receptacle for PKS-299:               | KS     | 299                                   |           |                            |                                    |                      |                       |                               |
| Clip connection with Solder Terminal: | KL     | 300                                   |           |                            |                                    |                      |                       |                               |