

# PKS 399

## Pneumatic Test Probes

### Grid:

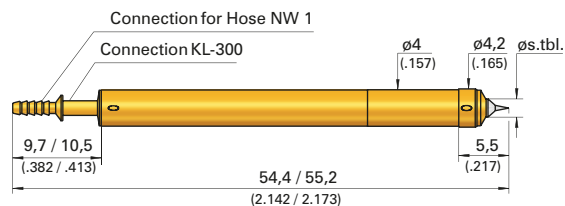
≥ 4,50 mm

≥ 177 Mil

Installation height with KS: 5,9 or 5,7 mm (.232) or (.224)

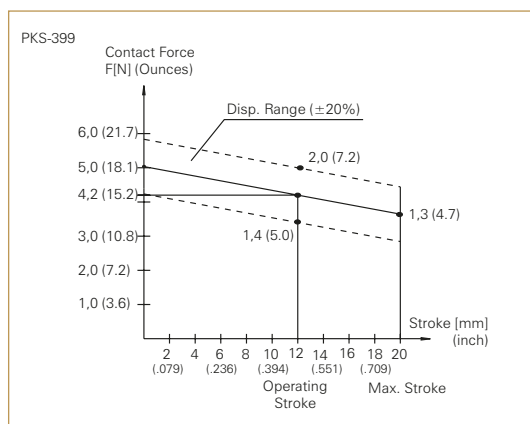
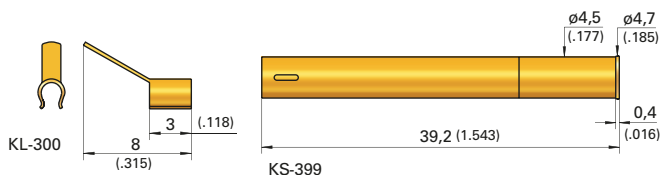
Recommended stroke: 12,0 mm (.472)

## Mounting and functional dimensions



PKS-399 Type 1: with Connection for Hose NW 1

PKS-399 Type 2: with Connection for Hose NW2 (lengths see 2nd value)



### Note:

The plungers of PKS-399 with tip styles without a collar sit 0.2 mm deeper in the barrel in the home position. This affects the total length (Type 1: 54.2 mm; Type 2: 55 mm), the installation height (5.7 mm), the working stroke (12.2 mm), and the maximum stroke (20.2 mm).

### Mechanical data

**Working stroke:** 12,0 mm (.472)  
**Maximum stroke:** 20,0 mm (.787)  
**Cont. force at work.stroke:** 3,7 N (13.4oz) or 4,2 N (15.2oz)\*\*\*  
**Operating medium:** Compressed air (filtered, oil-free)  
**Operating pressure:** 6 bar (86 psi)

### Electrical data

**Current rating:** 2 - 3 A  
 10 A (Type "1H" or "2H", see Note below)  
**R<sub>i</sub> typisch:** < 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 4,48 - 4,49 mm (.1764 - .1768)  
**without receptacle:** ø 4,00 mm (.1575)

## 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:

Tip 01, 15 F = 3,7 N (13.4oz)  
 Tip 02, 04, 05 F = 4,2 N (15.2oz)

### 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 "1H" (terminal "1") resp. "2H" (terminal "2").

### Note:

The receptacle can be used from grid size 5,08 mm (200 Mil) upwards.

### Note:

Pneumatic accessories and general instructions shown on page 174.

## Ordering example

|                                                  | Series | Tip material<br>2 = Steel | 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>"1", "1H",<br>"2", "2H") |
|--------------------------------------------------|--------|---------------------------|-----------|----------------------------|------------------------------------|----------------------|-----------------------|--------------------------------------------------|
| Test probe:                                      | PKS    | 3                         | 99        | 2                          | 01                                 | 200                  | R                     | 37021                                            |
| Test probe for use up to 10 A:                   | PKS    | 3                         | 99        | 2                          | 04                                 | 130                  | R                     | 42021H                                           |
| Receptacle:                                      | KS     | 3                         | 99        |                            |                                    |                      |                       |                                                  |
| Clip connection with solder terminal for type 1: | KL     | 3                         | 00        |                            |                                    |                      |                       |                                                  |