

Series	Center	Page
4006	118 mil / 3.00 mm	141
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# Pneumatic Test Probes

Pneumatic Test Probes are operated with compressed air. The plunger presses against the test piece at an operating pressure of 6 bar applied to the test probe via a pneumatic hose. Depending on the size, the maximum contact pressure is up to 1.5 N.

Normally Pneumatic Test Probes are used for function test tasks, and always when measuring points must be triggered individually. A wide range of accessories with distributors, reducers, connection cable glands etc. is available for setting up an extremely large number of contacting processes. As the Pneumatic Test Probes are driven individually/independently, use without complicated test adapters is also possible.

In addition to standard types, there are models with an easy-replacement system and models which function as an opener. With the easy-to-use easy-replacement system, it is only necessary to replace the pneumatic cylinder together with the contacting unit – there is no need to release either the wiring or the pneumatic hose. This system, patented by PTR, considerably reduces set-up and maintenance times.

The opener (4034 series) is a technically sophisticated variant, and is also patented. Because of the special design in the barrel, at first it is closed. It is only when a component to be contacted is not present and the switch travel is exceeded that the test probe opens and does not pass on a signal.



# Series 4006

- Contacting of individual test points
- Contacting without adapter possible
- For use in function test

### Mechanical Data

Center	3.00 mm / 118 mil
Full Travel	10.00 mm
Working Travel	6.00 mm
Spring Force at Working Travel	0.60 N
Operating Pressure	6 bar
Operating Medium	Compressed Air (filtered, oil-free)

### Electrical Data

Max. Current Rating	2.0 A
Typical Continuity Resistance	≤ 30 mOhm

### Materials

Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel
Receptacle	Brass, gold plated

### Recommended Diameter of Drill

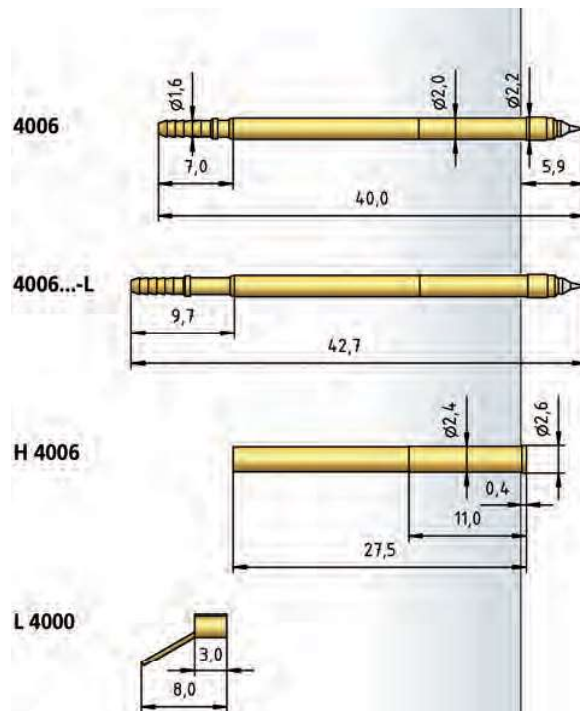
HP 2361.1 (Trolitax)	2.40 mm
HGW 2372 (Glass filled Material)	2.41 mm

### Tip Style · Diameter · Plating



BST1	C	G	V
1.50 Rh	2.50 Rh	1.30 Rh	1.00 Rh

Accessories see page 146



### How to Order

**4006 - BST1 - 0.6 N - Rh - 2.0 - L**  
 1      2      3      4      5      6

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter  
 6. For Connection of L 4000

# Series 4005

- Contacting of individual test points
- Contacting without adapter possible
- For use in function test

### Mechanical Data

Center	3.50 mm / 138 mil
Full Travel	10.00 mm
Working Travel	6.00 mm
Spring Force at Working Travel	0.80 N
Operating Pressure	6 bar
Operating Medium	Compressed Air (filtered, oil-free)

### Electrical Data

Max. Current Rating	2.0 A
Typical Continuity Resistance	≤ 30 mOhm

### Materials

Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel
Receptacle	Brass, gold plated

### Recommended Diameter of Drill

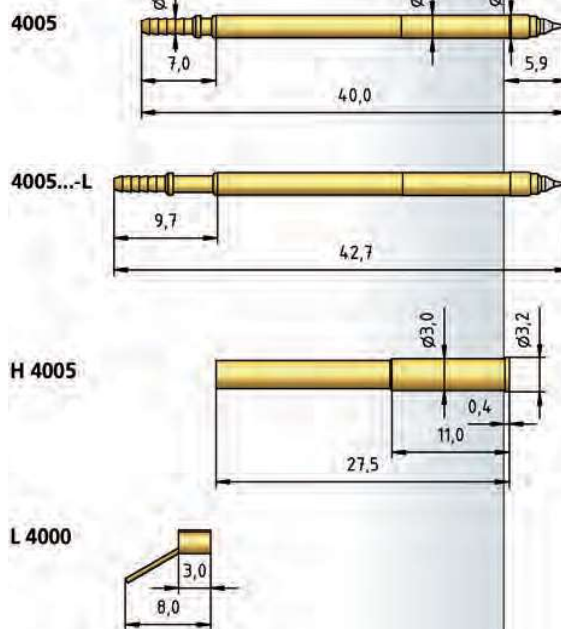
HP 2361.1 (Trolitax)	3.00 mm
HGW 2372 (Glass filled Material)	3.01 mm

### Tip Style · Diameter · Plating



BST1	C	G	H
1.50 Rh	2.50 Rh	1.30 Rh	2.00 Rh

Accessories see page 146



### How to Order

4005 - BST1 - 0.8 N - Rh - 2.0 - L

1 2 3 4 5 6

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter  
6. For Connection of L 4000

# Series 4004

- Contacting of individual test points
- Contacting without adapter possible
- For use in function test

### Tip Style · Diameter · Plating

		
<b>A</b>	<b>BST1</b>	<b>G</b>
3.00 Rh	2.00 Rh	1.30 Rh

### Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	10.00 mm
Working Travel	6.00 mm
Spring Force at Working Travel	1.50 N
Operating Pressure	6 bar
Operating Medium	Compressed Air (filtered, oil-free)

### Electrical Data

Max. Current Rating	3.0 A
Typical Continuity Resistance	≤ 30 mOhm

### Materials

Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel
Receptacle	Brass, gold plated

### Recommended Diameter of Drill

HP 2361.1 (Trolitax)	3.40 mm
HGW 2372 (Glass filled Material)	3.41 mm

Accessories see page 146

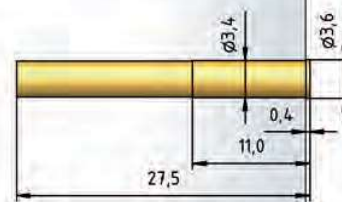
4004



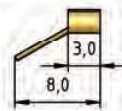
4004...-L



H 4004



L 4000



### How to Order

**4004** - **BST1** - **1.5 N** - **Rh** - **2.0** - **L**

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter  
6. For Connection of L 4000

## Series 4034

- Switching test probe „Opener“ type
- Contacting of individual test points
- Contacting without adapter possible
- For use in function test

### Tip Style · Diameter · Plating

		
<b>A</b>	<b>BST1</b>	<b>G</b>
3.00 Rh	2.00 Rh	1.30 Rh

### Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	10.00 mm
Working Travel	5.00 mm
Switching Travel	6.00 mm
Spring Force at Working Travel	1.60 N
Spring Force at Switching Travel	1.50 N
Operating Pressure	6 bar
Operating Medium	Compressed Air (filtered, oil-free)

### Electrical Data

#### Receptacle / Tip

Max. Current Rating	3.0 A
Typical Continuity Resistance	≤ 30 mOhm

#### Tube Connection / Tip

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm

### Materials

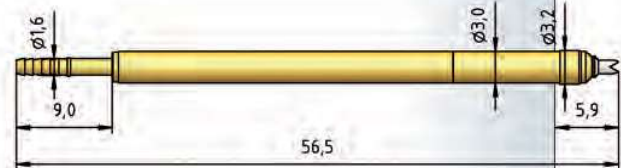
Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel
Receptacle	Brass, gold plated

### Recommended Diameter of Drill

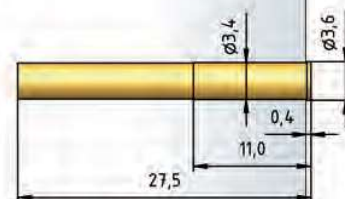
HP 2361.1 (Trolitax)	3.40 mm
HGW 2372 (Glass filled Material)	3.41 mm

Accessories see page 146

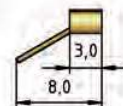
4034



H 4004



L 4000



### How to Order

4034 - G - 1.6 N - Rh - 1.3 - L  
 1 2 3 4 5 6

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter  
 6. For Connection of L 4000

# Series 4004/G

- Contacting of individual test points
- Contacting without adapter possible
- For use in function test
- Replacement without soldering

## Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	10.00 mm
Working Travel	6.00 mm
Spring Force at Working Travel	0.60 N
Operating Pressure	6 bar
Operating Medium	Compressed Air (filtered, oil-free)

## Electrical Data

Max. Current Rating	2.0 A
Typical Continuity Resistance	≤ 30 mOhm

## Materials

Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel
Receptacle	Brass, gold plated

## Recommended Diameter of Drill

HP 2361.1 (Trolitax)	3.40 mm
HGW 2372 (Glass filled Material)	3.41 mm

Accessories see page 146

## How to Order • Single Test Probe

**4004/ G - BST1 - 0.6 N - Rh - 1.5**  
 1 2 3 4 5 6

1. Series 2. Threaded Design 3. Tip Style 4. Spring Force 5. Tip Plating  
 6. Tip Diameter

## How to Order • with Receptacle

**4004/ G - BST1 - 0.6 N - Rh - 1.5 GR L**  
 1 2 3 4 5 6 7 8

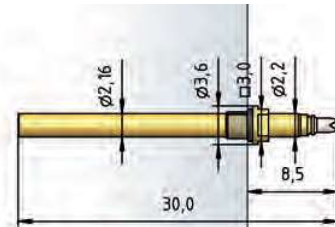
1. Series 2. Threaded Design 3. Tip Style 4. Spring Force 5. Tip Plating  
 6. Tip Diameter 7. Receptacle 8. For Connection of L 4000

## Tip Style · Diameter · Plating



BST1	C	G	V
1.50 Rh	2.50 Rh	1.30 Rh	1.00 Rh

4004/G (without Receptacle)



4004/G (with Receptacle H4004/GR pre-assembled)



4004/G (with Receptacle H4004/GR-L pre-assembled)



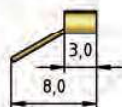
H 4004/GR



H 4004/GR-L



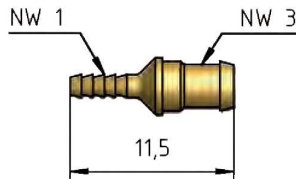
L 4000



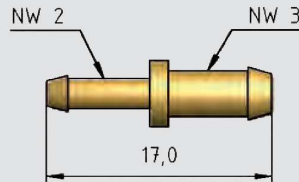
# Accessories Pneumatic Test Probes

Designation / Order-Number	Dimensions
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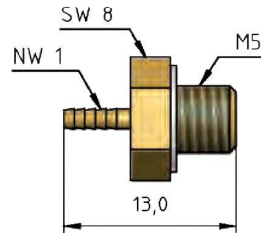
Reducer  
**RS 3/1**



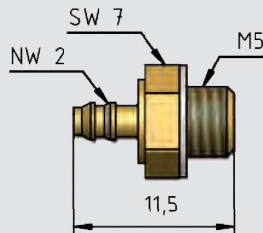
Reducer  
**RS 3/2**



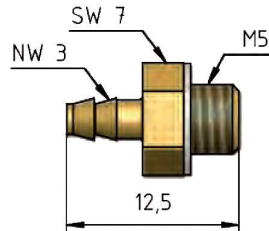
Threated Sleeve  
(incl. 1 seal)  
**AV M5/1**



Threated Sleeve  
(incl. 1 seal)  
**AV M5/2**



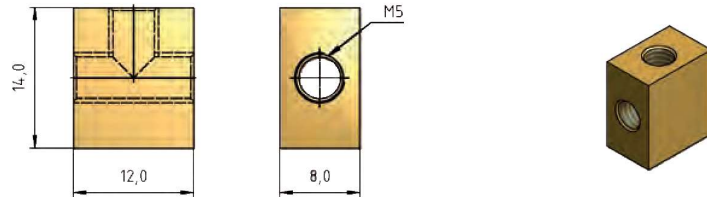
Threated sleeve  
(incl. 1 seal)  
**AV M5/3**



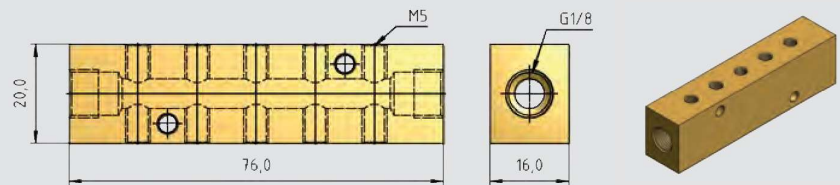
**Designation /  
Order-Number**

**Dimensions**

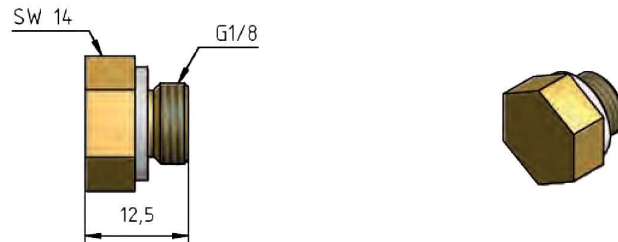
T-Piece  
**TS 3xM5**



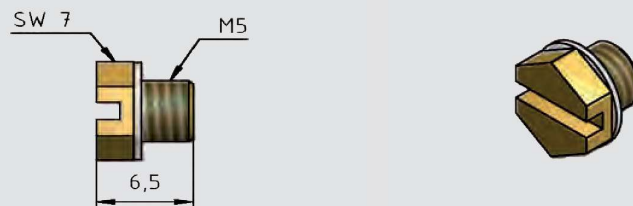
Tenfolder Distributor  
**V 10xM5**



Dummy Plug for Distributor  
(incl. 1 seal)  
**BSV 1/8**



Dummy Plug for Distributor  
(incl. 1 seal)  
**BSV M5**



Compressed Air Hose for NW 1  
**DS 1**

Compressed Air Hose for NW 3  
**DS 3**