

PEAK TEST SERVICES LTD

A PEAK GROUP COMPANY



the complete probe catalogue



2007

Quality Spring Test Probes

SECTION	DESCRIPTION		CENTRES	FULL TRAVEL	SERIES	PAGE
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GENERAL	FIXTURE HARDWARE > TOOLING PINS, SPACERS & DOWEL PINS				HARDWARE	B
GENERAL	PROBE STORAGE BOXES IN TWO SIZES FOR QUICK SELECTION				STORAGE	B
GENERAL	CARBIDE DRILLS/ROUTERS FOR CNC DRILLING OF FIXTURES STANDARD & EXTRA LONG FLUTES				DRILLS/ROUTERS	B
GENERAL	TORQUE TOOLS TO ENABLE CORRECT FITTING OF THREADED PROBES			TORQUE TOOLS, SERIES; P10,15,21,60/G		B
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ATE	TWIST PROBES WITH ROTATIONAL TIPS		2.54MM/1.91MM/1.27MM CENTRES	5.90MM TRAVEL	P25/75/88-TP	2
ATE	INDUSTRY STANDARD FIXTURE PROBES BECU & STEEL HEADS		2.54MM CENTRES	6.3MM TRAVEL	P25	3
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ATE	DUAL HEIGHT FIXTURE PROBES		1.91MM CENTRES	10.0MM TRAVEL	P76 & P76L	5
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AUTOMOTIVE	STANDARD METRIC PROBE 1.3MM PLUNGER		2.54MM CENTRES	8.0MM TRAVEL	P29	8
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AUTOMOTIVE	STANDARD	METRIC PROBE VARIOUS MOUNTING HEIGHTS	2.54MM CENTRES	10.0MM TRAVEL	P24 & P24/G	13
AUTOMOTIVE	STANDARD	METRIC PROBE 1.0MM BARREL	1.7MM CENTRES	5.0MM TRAVEL	P101	13
AUTOMOTIVE	SWITCH PROBES	1.7MM SWITCH TRAVEL	4.0MM CENTRES	5.0MM TRAVEL	P201 & P201/F	14
AUTOMOTIVE	SWITCH PROBES	2.6MM SWITCH TRAVEL	2.54MM CENTRES	5.3MM TRAVEL	P202	14
AUTOMOTIVE	SWITCH PROBES	0.6-4.0MM SWITCH TRAVEL	2.54MM CENTRES	6.3MM TRAVEL	P207	14
AUTOMOTIVE	SCREW-IN SWITCH PROBE 1.7MM SWITCH TRAVEL BASE THREAD		4.0MM CENTRES	5.0MM TRAVEL	P201/G	15
AUTOMOTIVE	SCREW-IN SWITCH PROBE 1.5MM SWITCH TRAVEL BASE THREAD		2.54MM CENTRES	5.0MM TRAVEL	P202/G	15
AUTOMOTIVE	SCREW-IN SWITCH PROBE 1.7MM SWITCH TRAVEL TOP THREAD		4.0MM CENTRES	5.0MM TRAVEL	P201/G-L1.7	16
AUTOMOTIVE	SCREW-IN SWITCH PROBE 1.7MM SWITCH TRAVEL BASE THREAD		4.0MM CENTRES	5.0MM TRAVEL	P201/GI	16
AUTOMOTIVE	SCREW-IN SWITCH PROBE 2.6MM SWITCH TRAVEL TOP THREAD		2.54MM CENTRES	5.3MM TRAVEL	P202/G-L2.6	16
AUTOMOTIVE	SCREW-IN SWITCH PROBES CAN BE REPLACED WITHOUT REWIRING		2.54MM CENTRES	5.3MM TRAVEL	P202/GI5	17
AUTOMOTIVE	SCREW-IN SWITCH PROBES CAN BE REPLACED WITHOUT REWIRING		4.0MM CENTRES	5.0MM TRAVEL	P220/G	17
AUTOMOTIVE	SCREW-IN SWITCH PROBES WITH REAR INSERTION INTO RECEPTACLE		3.5MM CENTRES	5.0MM TRAVEL	P200/G	17
AUTOMOTIVE	NON-ROTATIONAL SCREW-IN BLADED PROBES FOR SCART SOCKET WITH HIGH CURRENT OPTION		2.54MM CENTRES	4.3MM TRAVEL	P28/G-YL/YLX	18
AUTOMOTIVE	NON-ROTATIONAL BLADE HEADED PROBES		5.0MM CENTRES	5.0MM TRAVEL	P305	18
AUTOMOTIVE	NON-ROTATIONAL BLADE HEADED PROBES		2.54MM CENTRES	5.0MM TRAVEL	P307	18
AUTOMOTIVE	NON-ROTATIONAL BLADE PROBES SCREW-IN		5.0MM CENTRES	7.0MM TRAVEL	P306/G	19
AUTOMOTIVE	SCREW-IN VERSION OF P305 SERIES		4.0MM CENTRES	5.0MM TRAVEL	P308/G	19
AUTOMOTIVE	SCREW-IN VERSION OF P42 SERIES		4.5MM CENTRES	7.0MM TRAVEL	P309/G	19
AUTOMOTIVE	PUSH BACK TEST	10N TO 25N SPRINGS. NON-ROTATIONAL	4.0MM & 2.54MM CENTRES	5.5MM TRAVEL	P204/G	20
AUTOMOTIVE	PUSH BACK PROBE WITH 15N SPRING. NON-ROTATIONAL		3.0MM CENTRES	5.0MM TRAVEL	P206/G	20
AUTOMOTIVE	PUSH BACK SWITCH PROBE 6N TO 15N SPRINGS. NO RECEPTACLE USED		4.0MM CENTRES	10.0MM TRAVEL	P208	20
AUTOMOTIVE	PUSH BACK TEST	10N TO 25N SPRINGS. NON-ROTATIONAL	4.0MM & 2.54MM CENTRES	5.5MM TRAVEL	P210/G	21
AUTOMOTIVE	PUSH BACK TEST SWITCH PROBE 2.54MM CENTRES,TRAVEL 5MM SPRING FORCE UP TO 15N		2.54MM CENTRES	5.0MM TRAVEL	P211/G	21
AUTOMOTIVE	PUSH BACK TEST	UP TO 34N SPRINGS. NON-ROTATIONAL	5.00MM CENTRES	10MM TRAVEL	P205/G	21
AUTOMOTIVE	SCREW-IN PROBES FOR LIMITED SPACE, ONLY 11 MM OVERAL LENGTH		2.54MM CENTRES	2.2MM TRAVEL	P70/G	22
AUTOMOTIVE	SCREW-IN PROBES FOR CLOSE CENTRES		1.27MM & 1.5MM CENTRES	5.0/3.0MM TRAVEL	P10/G & P740/G	22
AUTOMOTIVE	SCREW-IN VERSION OF P940 SERIES PROBES		4.0MM CENTRES	3.5MM TRAVEL	P940/G	22
AUTOMOTIVE	SCREW-IN PROBES	0.8MM/1.0MM PLUNGER	2.54MM CENTRES	5.30MM TRAVEL	P21/G	23
AUTOMOTIVE	SCREW-IN PROBES	1.3MM PLUNGER	2.54MM CENTRES	5.30MM TRAVEL	P28/G	23
AUTOMOTIVE	SCREW-IN PROBES	0.65MM/0.75MM PLUNGER	2.54MM CENTRES	4.40MM TRAVEL	P15/G	24
AUTOMOTIVE	SCREW-IN PROBES	HEAVY DUTY 1.8MM PLUNGER	4.0MM CENTRES	5.50MM TRAVEL	P60/G & P61/G	24
AUTOMOTIVE	STEPPED SCREW-IN PROBES FOR CONNECTOR PIN POSITIONAL TEST		2.54MM CENTRES	5.30MM TRAVEL	P21/G-SP	25
AUTOMOTIVE	STEPPED SCREW-IN PROBES FOR CONNECTOR PIN POSITIONAL TEST		2.54MM CENTRES	4.40MM TRAVEL	P15/G-SP	26
AUTOMOTIVE	STEPPED SCREW-IN PROBES FOR CONNECTOR PIN POSITIONAL TEST		4.0MM CENTRES	5.5MM TRAVEL	P60/G-SP	26
B G A, SMT & COMPONENT TEST PROBES	WITHOUT RECEPTACLE		0.63MM CENTRES	1.91MM TRAVEL	P702	27
B G A, SMT & COMPONENT TEST PROBES	WITH RECEPTACLE		0.7MM CENTRES	2.5MM TRAVEL	P707, P709, P720	27
B G A, SMT & COMPONENT TEST PROBES	DOUBLE ENDED		0.5MM - 1.0MM CENTRES	1.0MM & 2.5MM TRAVEL	P700, P701, P704	28
B G A, SMT & COMPONENT TEST PROBES	DOUBLE ENDED		0.5MM- 0.75MM CENTRES	0.75MM - 2.5MM TRAVEL	P705, P706, P708	28

B G A, SMT & COMPONENT					
TEST PROBES	FULL & SHORT STROKE	1.27MM CENTRES	2.54MM & 1.27MM TRAVEL	P730 & P734	29
B G A, SMT & COMPONENT					
TEST PROBES	ALSO PCB TEST	1.91MM CENTRES	3.0MM TRAVEL	P740	29
COAXIAL-KELVIN	THREADED VERSION OF P820 SERIES	4.00MM CENTRES	3.5MM TRAVEL	P820/G	30
COAXIAL-KELVIN	FOR MALE/FEMALE ANTENNA CONNECTORS	4.9MM CENTRES	3.5MM TRAVEL	P822	30
COAXIAL-KELVIN	RANGE OF RF COAXIAL PROBES WITH MULTIPLE CONFIGURATIONS	5.0, 4.0, & 3.0MM CENTRES	VARIOUS	P860, 864, 865	30
COAXIAL-KELVIN	FOR HIGH FREQUENCY TESTING UP TO 2.5 GHz, REPLACEABLE INNER CONTACT	7.5MM CENTRES	6.35MM TRAVEL	P800	31
COAXIAL-KELVIN	WITH INNER & OUTER CONTACTS INDEPENDENTLY SPRUNG. 50 OHM IMPEDANCE	5.0MM CENTRES	5.0MM TRAVEL	P820	31
COAXIAL-KELVIN	WITH INNER & OUTER CONTACTS INDEPENDENTLY SPRUNG. 50 OHM IMPEDANCE	2.54MM CENTRES	3.5MM TRAVEL	P810	31
COAXIAL-KELVIN	FOR HIGH CURRENT BATTERY TESTING. HIGH SPRING FORCE 17.8N	7.0MM CENTRES	5.5MM TRAVEL	P840	31
COAXIAL-KELVIN	FOR HIGH CURRENT BATTERY TESTING. HIGH SPRING FORCE 5.0N	7.0MM CENTRES	4.0MM TRAVEL	P845-Q	31
COAXIAL-KELVIN	WITH INNER & OUTER CONTACTS INDEPENDENTLY SPRUNG	4.0MM CENTRES	4.0MM TRAVEL	P830	32
COAXIAL-KELVIN	FOR HIGH FREQUENCY UP TO 1.0GHz	2.5MM CENTRES	2.8MM TRAVEL	P870	32
COAXIAL-KELVIN	FOR HIGH FREQUENCY UP TO 3.0GHz	1.35MM CENTRES	2.8MM TRAVEL	P872	32
COAXIAL-KELVIN	FOR HIGH FREQUENCY UP TO 4.0GHz	5.5MM CENTRES	1.0MM TRAVEL	P898	32
CONTACTS	ELECTRICAL CONTACTS FOR DIRECT SOLDERING ONTO A PCB	1.27/1.91/2.54MM CENTRES	0.76/1.14/2.54MM TRAVEL	P905, 915 & 925	33
CONTACTS	BALL CONTACT PROBE FOR DIRECT SOLDERING ONTO A PCB	3.0MM CENTRES	0.4MM TRAVEL	P945	33
CONTACTS	BALL CONTACT PROBE FOR DIRECT SOLDERING ONTO A PCB	3.0MM CENTRES	1.2MM TRAVEL	P946	33
CONTACTS	SOLDER DIRECT, NO RECEPTACLE, NON-REPLACEABLE FOR RUGGED ELECTRICAL CONTACTS.	4.75MM CENTRES	3.5MM TRAVEL	P926-D1	33
CONTACTS	SHORTEST PROBE AVAILABLE: CONTACTS 3.0MM CENTRES. OVERALL LENGTH 5.3MM	3.0MM CENTRES	1.2MM TRAVEL	P900	34
CONTACTS	NEW STYLE BATTERY CONTACT PROBE; 2.54MM CENTRES, 1.2MM TRAVEL	2.54MM CENTRES	0.8MM TRAVEL	P912-D	34
CONTACTS	SHORTEST PROBE AVAILABLE: CONTACTS 1.9MM CENTRES. OVERALL LENGTH 5.3MM	1.9MM CENTRES	1.2MM TRAVEL	P975	34
CONTACTS	IDEAL FOR BATTERY & OTHER ELECTRICAL CONTACTS	3.0MM CENTRES	4.0MM TRAVEL	P995	34
CONTACTS	"BATTERY & OTHER CONTACTS, ALSO BARE BOARD TESTING"	1.2 & 2.1MM CENTRES	1.2MM TRAVEL	P605 & P620	35
CONTACTS	PROBES SPECIALLY DESIGNED FOR MILITARY APPLICATIONS	5.0MM CENTRES	3.0MM TRAVEL	P780	35
CONTACTS	IDEAL FOR BATTERY & OTHER ELECTRICAL CONTACTS	2.7MM CENTRES	2.2MM TRAVEL	P790	35
CONTACTS	BARE PCB TESTING AND INTERFACES. LONGER VERSION OF P790	2.7MM CENTRES	2.2MM TRAVEL	P795	35
CONTACTS	"BATTERY & OTHER CONTACTS, ALSO BARE BOARD TESTING"	2.54MM CENTRES	1.27MM TRAVEL	P920 & P970	36
CONTACTS	IDEAL FOR BATTERY & OTHER ELECTRICAL CONTACTS	3.8/2.54/2.79/8.0mm CENTRES	1.91/2.54/2.79/1.2mm TRAVEL	P910, 911, 930, 950	37
CONTACTS	IDEAL FOR BATTERY & OTHER ELECTRICAL CONTACTS	4.5MM CENTRES	2.2MM TRAVEL	P990	37
CONTACTS	BATTERY & ELECTRICAL CONTACTS WITH LARGER DIAMETERS	4.0MM CENTRES	3.5/4.0MM TRAVEL	P940 & P965	38
CONTACTS	BATTERY CONTACTS PCB MOUNTABLE	2.5MM CENTRES	2.9MM & 1.2MM TRAVEL	P955 & P985	38
HIGH CURRENT	10 AMP RATED VERSION OF P25	2.54MM CENTRES	6.35MM TRAVEL	HSP25	39
HIGH CURRENT	30 AMP RATED VERSION OF P30	3.18MM CENTRES	6.35MM TRAVEL	HSP30	39
HIGH CURRENT	35 AMP RATED VERSION OF P54	4.75MM CENTRES	6.35MM TRAVEL	HSP54	40
HIGH CURRENT	45 AMP RATED VERSION OF P55 & P55L	4.75MM CENTRES	6.35MM & 10.0MM TRAVEL	HSP55 & HSP55L	40
HIGH CURRENT	50 AMP RATED METRIC PROBE	5.0MM CENTRES	5.5MM TRAVEL	HSP50	41
HIGH CURRENT	SCREW-IN PROBE 50 AMP RATED METRIC PROBE	5.08MM CENTRES	5.5MM TRAVEL	HSP50/G	41
HIGH CURRENT	16 AMP RATED VERSION OF P21	2.54MM CENTRES	5.3MM TRAVEL	P21-X	42
HIGH CURRENT	24 AMP RATED VERSION OF P60	4.0MM CENTRES	5.5MM TRAVEL	P60-X	42
HIGH CURRENT	16 AMP RATED VERSION OF P21/G THREADED PROBES	2.54MM CENTRES	5.3MM TRAVEL	P21/G-X	42
HIGH CURRENT	24 AMP RATED VERSION OF P60/G THREADED PROBES	4.0MM CENTRES	5.5MM TRAVEL	P60/G-X	42
HIGH CURRENT	100 AMP RATED REMOVEABLE FOR CLEANING	17.0MM CENTRES	7.0MM CENTRES	HSP100	43
HIGH CURRENT	HEAVY DUTY PROBES FROM 25 AMP TO 400 AMP	VARIOUS	VARIOUS	HSP125-HSP400	43
HIGH CURRENT	VERY SHORT PROFILE (6.5MM LONG) 5 AMP RATED	2.54MM CENTRES	1.57MM TRAVEL	HSP915	43
HIGH CURRENT	25 AMP RATED	7.6MM CENTRES	6.35MM TRAVEL	HSP41	43
INTERFACES	A.T.E. FIXTURE INDUSTRY STANDARD INTERFACE PINS	2.54MM CENTRES	SOLID PINS	PIP-F1/G1/Z1/ZL	44
INTERFACES	A.T.E. FIXTURE STANDARD POWER PINS	6/7/3 MM CENTRES	SOLID PINS	PIP-G3/G4/GP1	44
INTERFACES	GENRAD INTERFACE PROBES & HEWLETT PACKARD 3070 PERSONALITY PINS	2.54 MM CENTRES	ACCORDING TO TEST SYSTEM	16-B1/B3&PHP-70	44
INTERFACES	A.T.E. TEST SYSTEMS INTERFACE PROBES	2.54 MM CENTRES	ACCORDING TO TEST SYSTEM	25-CHP/HSR	44
INTERFACES	FULL RANGE OF TEST JET PROBES & OPENS EXPRESS & SENSORS & BOARDS			TEST JET	45
PNEUMATIC PROBES	6 BAR AIR	4.0MM CENTRES	10MM TRAVEL	P404	46
PNEUMATIC SCREW-IN					
PROBES	6 BAR AIR. THREADED PROBES	4.0MM CENTRES	10MM TRAVEL	P404/G	46
PNEUMATIC TEST PROBE	6 BAR AIR	2.54MM CENTRES	10MM TRAVEL	P407	46
PNEUMATIC					
SWITCH PROBES	6 BAR AIR 6.0MM SWITCH TRAVEL	4.0MM CENTRES	10MM TRAVEL	P401/SW	47
PNEUMATIC PROBES	6 BAR AIR	3.5MM CENTRES	10MM TRAVEL	P405	47
PNEUMATIC PROBES	6 BAR AIR	3.0MM CENTRES	10MM TRAVEL	P406	47
PNEUMATIC PROBING	PIPES, SOLENOID VALVES & PNEUMATIC FITTINGS			ACCESSORIES FOR	
SYSTEMS	PLUS EXAMPLES OF CIRCUIT LAYOUTS			P401/404/405/406/407& 404/G	48
SMART LIGHT PROBES[TM]	FULL RANGE OF 'OPTOMISTIC PRODUCTS'				
	COLOUR DETECTION LIGHT PROBES	1.2MM MIN. CENTRES	COLOUR LIGHT PROBES	INSERT PAGES	

HOW TO SPECIFY YOUR PROBES

HOW TO ORDER

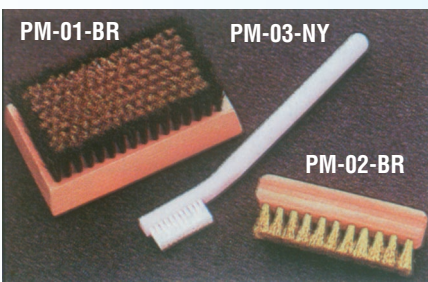
- 1. Choose the **series** for your application selecting the correct combination of test point size and travel/stroke length.
- 2. Choose the most suitable **tip style**. The chart should answer most queries. Factors affecting your choice include the cleanliness of the PCBs, the component's leg length and whether or not the legs are clinched.
- 3. Choose the correct **spring force**. A heavier spring will give better penetration of dirt or flux but the total number of probes on the fixture must also be considered. There are various pressures dependent upon the probe. These are given in the appropriate section for each product type.

PROBE ORDER CODE EXAMPLE

P25 - B - 0

Series Tip Style Spring Force

All Peak Probes are plated with precious metals: Gold, Rhodium or Nickel. Probes will be supplied from stock with any one of these platings unless specifically ordered.



PROBE CLEANING BRUSHES

PM-01-BR	108 x 64mm Brass Brush
PM-02-BR	83 x 29mm Brass Brush
PM-03-NY	159mm Nylon Brush
PM-05-NY	82 x 28mm Nylon Brush
PM-06-NY	108 x 64mm Nylon Brush

RECEPTACLE TYPE

In each probe section, details are given for the receptacles. Please select the one most suited to your requirements. The codes are as follows:

W = Wire Wrap, **S** = Solder Cup
C = Crimp, **P** = Round Post
NT = No Tail

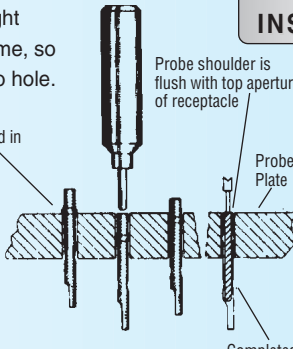
Receptacle Crimping Tools data sheet on request (Tool & Positioner)
available for = R16/25/30/54/55/730/740 Series

PROBE INSERTION/REMOVAL TOOLS FOR SCREW-IN TYPE PROBES

PROBE SERIES	TOOL PART NO.	MIN. CENTRES	MAX. HEAD DIA.	DRG. REF.	TT1/TT2 TORQUE TOOLS For insertion of threaded probes
P10/G	PIT10/G	1.27mm	0.9mm	A	 These tools permit screw-in probes to be fitted & removed from their receptacles quickly, especially where close spacing is required.
P15/G	PIT15/G-1.5	2.54mm	1.5mm	A	
P15/G	PIT15/G-1.8	2.54mm	1.8mm	A	
P21/G	PIT21/G-1.8	2.54mm	1.8mm	A	
P21/G	PIT21/G-2.0	2.54mm	2.0mm	B	
P28/G	PIT21/G-1.8/2.0	1.8mm	2.0mm	A/B	
P60/G	PIT60/G-3	4.0mm	3.0mm	B	
P60/G	PIT60/G-4	5.0mm	4.0mm	A	
P60/G	PIT60/G-5	6.0mm	5.0mm	B	
P201/G	PIT60/G-3	4.0mm	3.0mm	A	
P202/G	PIT21/G-2	2.54mm	2.0mm	A	
P204/G	PIT208-1	4.0mm	2.5mm	A	
P204/G	PIT208	5.5mm	3.0mm	B	
P210/G	PIT210/G	2.54mm	1.9mm	A	
P740/G	PIT740/G	1.91mm	1.0mm	A	
HSP50/G	PIT HSP50/G	5.1mm	4.0mm	A	

RECEPTACLE INSERTION TOOL

Is used to press (by hand or light hammering) the receptacle home, so that press ring is squeezed into hole. No gluing should be required.



Probe shoulder is flush with top aperture of receptacle

Glued in

Top Aperture

Press Ring

Probe Retention Dimples

Vacuum Sealed

Solder Cup

Crimp

Wire Wrap

Termination Types

Receptacle Retention Methods

'A' or 'B' or 'C'

Glued

Flush-Press-fit

Stand-off Press-fit

Completed Installation

RECEPTACLE INSTALLATION

RECEPTACLE INSERTION TOOLS

AVAILABLE FOR MOST OF SERIES IN THIS CATALOGUE

To specify, prefix receptacle part no. with "RIT-" and suffix with mounting height required. e.g. **RIT-75-6**, is the part no. to fit a **R75** receptacle with a mounting height **6mm**

For Adjustable Tools for Series R25/R75

To specify Order Code = **RIT-25-A**
RIT-75-A
Metric/Imperial Versions

RECEPTACLE FITTING

The Press Ring is designed to collapse into a hole, drilled to the size specified, when pressed into place using the Receptacle Insertion Tool. **To order this specify RIT-25 for series R25 receptacles, etc.** For vacuum test fixtures the receptacle height above the probe plate is 6.0mm and is set by the insertion tool. For other types of fixtures, heights may vary, e.g. flush mounted or with press ring acting as a shoulder stop. When ordering please specify mounting height requirements, order code examples **RIT-25-6.0 tool for R25 with 6mm height.**



PROBE REMOVAL TOOL

Suitable for removing headed probes. For series P16/P21/P25/P34/P36/P75. = Part No. R25. P28 Part No. = PRT 28

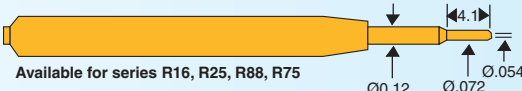
RECEPTACLE REMOVAL TOOLS

SERIES	SERIES
R16/R25	RRT-25-KIT
R88	RRT-88-KIT
R75	RRT-75-KIT

STANDARD PROBE INSERTION TOOLS

SERIES	PIT
P16/P21/P25/P34/P36	PIT-25
P68/88/730	PIT-88
P75/P740	PIT-75
P702	PIT-702

RECEPTACLE REMOVAL TOOLS



Available for series R16, R25, R88, R75

0.12

0.072

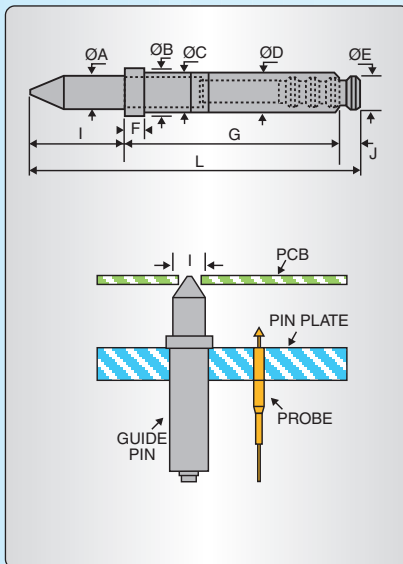
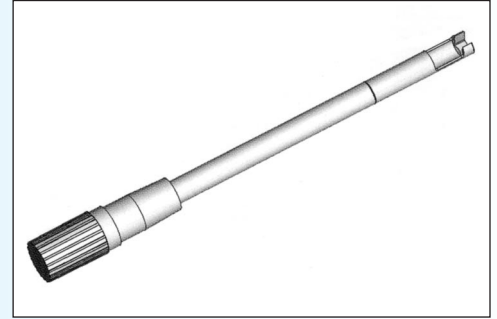
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4.1

To allow the insertion of probes into receptacles, for certain series of probe, PITs are available.

PRE-SET TORQUE TOOLS FOR PROBE INSERTION

Peak Test Part Number	Peak Test Series	Maximum Tip Diameter	Torque	Description
PIT/10GT	P10/G	0.9mm	0.9Ncm	Hook Wrench
PIT/15GT	P15/G	1.8mm	3.0Ncm	Hook Wrench
PIT/21GT	P21/G	2.0mm	3.0Ncm	Hook Wrench
PIT/60GT	P60/G	4.0mm	4.5Ncm	Hook Wrench
PIT/210GT	P210/G	1.9mm	4.5Ncm	Hook Wrench



SPRING LOADED TOOLING PINS (GUIDE PINS)

Type/Spec	Ø A	Ø B	Ø C	Ø D	Ø E	F	G	L	O.D PCB(I)	Rec. Hole Size	Full Stroke Spring Force (±20%)	2/3 Stroke Spring Force (±20%)
PK-1A	2.48	3.50	3.20	3.15	1.83	0.50	20.0	32.8	1.0/1.5	3.20	170g	100g
PK-2A	3.98	5.50	5.00	4.95	2.53	0.50	25.0	38.6	1.0/3.0	5.00	170g	120g
PK-3A	4.98	7.00	6.00	5.95	2.53	0.50	25.0	38.5	1.0/3.7	6.00	170g	220g
PK-5A	3.48	5.00	4.50	4.45	2.53	0.50	25.0	39.4	1.0/3.0	4.50	170g	230g

*Also available in heavier spring

J	I	1st Ring	2nd Ring	3rd Ring	4th Ring
PK-1A	1.2	11.6	10.4	9.2	8.0
PK-2A	1.45	12.15	9.7	7.25	4.8
PK-3A	1.25	12.25	9.8	7.35	8.8
PK-5A	1.45	12.95	11.0	9.05	7.1

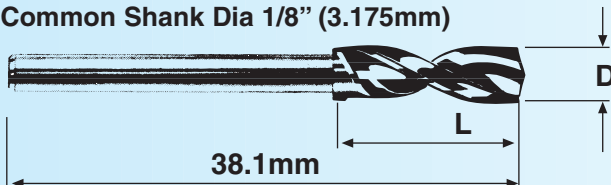
Note: We also manufacture to order Solid Tooling Pins for A.T.E. Vacuum Fixtures

Dimensions in Millimetres

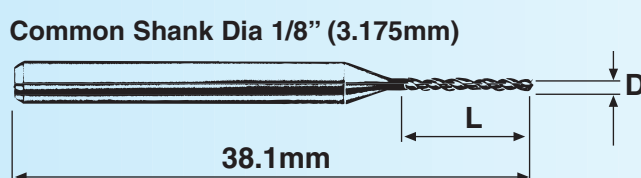
Drills to suit all receptacle sizes. Standard and long flute

PCB DRILLS STANDARD

Common Shank Dia 1/8" (3.175mm)



Common Shank Dia 1/8" (3.175mm)

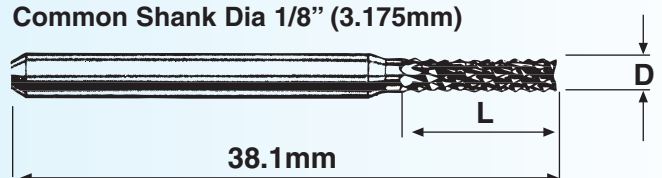


EXTENDED FLUTE LENGTHS

16mm Flute Lengths are special drills for Test Fixture Drilling up to 15mm material thickness. Most commonly used diameters are available. Info on request.

PCB ROUTERS DIAMOND CUT

Common Shank Dia 1/8" (3.175mm)



Designed as a Universal Router for routing standard circuit boards and test fixtures. Fishtail Point stocked.
L = Effective Flute Length (Maximum Working Length)

PROBE STORAGE BOXES

PK-1802-BK - has a black base with transparent lid and movable dividers providing up to 20 compartments. **PK-12TD-TP** - is fully transparent with 18 fixed compartments.

A FULL PRICE LIST WITH
PRICE BREAKS IS AVAILABLE
BY E-MAIL ON REQUEST FROM:
peak.test@thepeakgroup.com

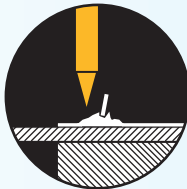
**PLEASE PHONE
0191 387 1923 FOR
TECHNICAL ASSISTANCE**

STYLE A/P



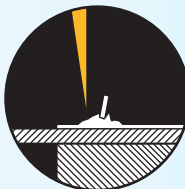
CONCAVE/CUP
90° concave tip for probing wire-wrap terminals, connector pins, component leads and feed-through terminals.

STYLE B



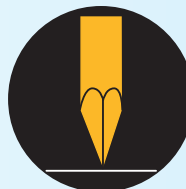
30° POINT/SPEAR
For penetration of oxides, fluxes and some conformal coatings (use higher spring rating).

**STYLE BST
STEEL**



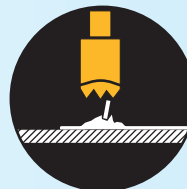
10° POINT
This very sharp probe will penetrate any concentration of fluxes, oxides and conformal coatings. It can also be used in special fixtures for testing hybrids and micro-miniature circuitry.

**STYLE BT80
STEEL**



**STEEL 4-SIDED
DAGGER**
For S.M.D. via hole and pads.

STYLE C



SERRATED
Sharp points provide good electrical contact over larger target areas, e.g. bent component leads, without deflection.

STYLE D



DOME HEAD
For screws, terminal blocks and edge connector fingers.

STYLE E



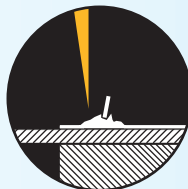
90° POINT/CONE
Application similar to Style B, and for contacting clean base metal, through-plated holes and connector sockets.

STYLE F



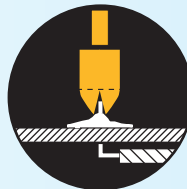
FLAT HEAD
For damage-free probing of rounded surfaces.

STYLE FN



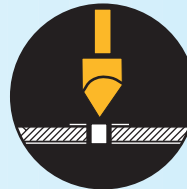
FLEXIBLE NEEDLE
Similar application as for BST.

STYLE G



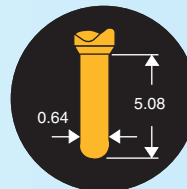
4-POINT CROWN
For component leads, soldering points and test pads where there is no excessive dirt.

STYLE H



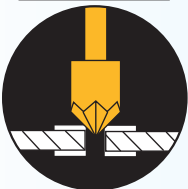
**PYRAMID 3-SIDED
CHISEL**
For cutting through contaminants on through-plated holes.

STYLE I/DI



ROUND HEAD
For connector probing.

STYLE K



STAR/FLUTED
Through-plated holes, lands, pads. Self-cleaning sharp point.

STYLE L



**4-POINT
HEADLESS CROWN**
For soldered joints and straight device leads.

STYLE M1



**7-POINT TULIP
CROWN WITH
CENTRE POINT**
Most popular tip for general use, self-cleaning.

STYLE 3N



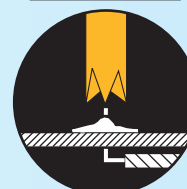
**VERY SHARP
3 NEEDLE**
For lands, pads, component leads. For good penetration of unclean surfaces.

STYLE Q



**3 or 4 POINTS
REDUCED CROWN
SELF-CLEANING**
For use on dirty boards for contacting soldered pads, joints and component leads.

STYLE Q5



**3-POINT CROWN
SELF-CLEANING**
Application as for L, but with a better distribution of force over 3 points.

STYLE S



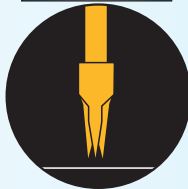
**SELF-CLEANING
UNIVERSAL TAPERED
4-POINT CROWN**

STYLE SU



**3 or 4 POINTS SELF-
CLEANING REDUCED
CROWN - 0.5mm DIA**
For use on S.M.D. boards.

STYLE T



TRI-NEEDLE
Lands, uncleaned pads, component leads. Self-cleaning.

STYLE W



**120° INVERTED
HEXAGONAL CONE**
For w/w posts or bent pins.

STYLE Y



SPADE/BLADE
For application with test probes in connector systems.

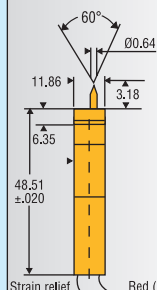
STYLE Z



8-POINT CROWN
Leads, connector pins. 8 points ensure good capture of misaligned component leads. Self-cleaning.

SPECIFICATION

PROBE BMP-1 (Shown inserted in receptacle)



MECHANICAL

Full travel:	1.57mm
Recommended working travel:	1.27mm
Direction of rotation:	CCW
Scribed diameter	1.27mm

ELECTRICAL*

Rated current:	50 mA
Rated Voltage:	15VDC
Recomm. Duty Cycle:	1 second on, min. 5 seconds off

MATERIALS

Plunger Tip:	High speed steel, titanium nitride coated
Receptacle:	Stainless steel

MOUNTING HOLE

Hole size receptacle:	11.91mm
Hole size probe plate:	12.7mm

BMP-1

PCB MARKER PROBE

The BMP-1 (Board Marker Probe) is designed to be mounted in both bare and loaded board test fixtures and occupies an area less than 12mm dia. When available electronics and software are incorporated into an ATE, the BMP-1 makes a permanent mark on the good PCB in the form of a 1.27mm circle. The preferred marking area is bare glass (FR4) or solder mask over glass or copper. The BMP-1, with accompanying electronics and software, provides a foolproof marking system for "passed" boards, reducing human error in the testing and board sorting process. The BMP-1 includes a mounting receptacle with press ring, and motor/transmission assembly. The BMP-1 can easily be removed from the receptacle for use in other fixtures. Spare receptacles and tip replacement assemblies are available.

BMP-1 Board Marker Probe (includes BMR-1 & BMT-1), wires and connector attached. Mating connector supplied: red-negative, *motor polarity shown for correct (CCW) rotation, black-positive.

BMR-1 Board Marker Receptacle.

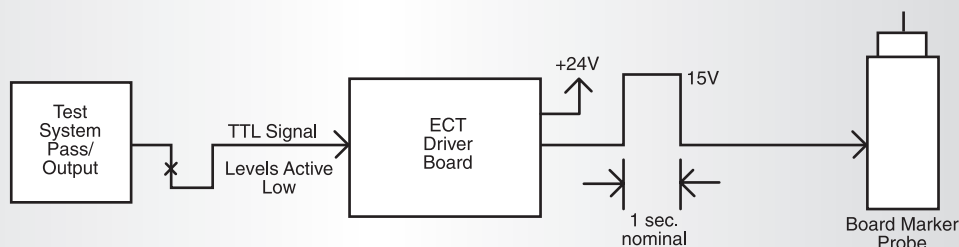
BMT-1 Board Marker Tip Replacement Assembly.

RIT-BMP Receptacle insertion tool for BMR-1.

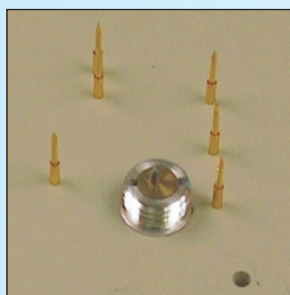
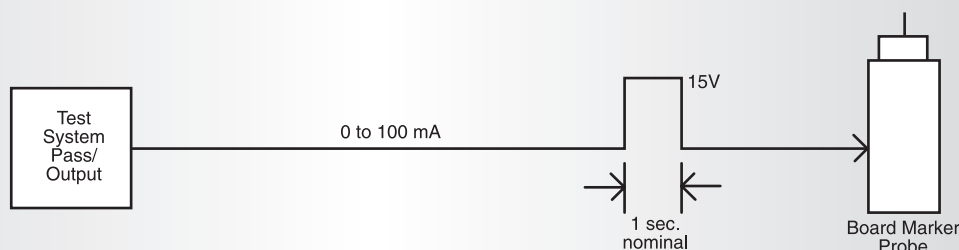
EXT-BMP Receptacle extraction tool for BMR-1.

Note: *Minimum 10V but reduces speed of rotation.

Bare Board Applications



Loaded Board Applications



View from above with top plate removed.
Receptacle fitted in the top plate (VAC).

Further details on request



View from below



Nr. BMP-1 To identify a passed board by marking a circle on the tested board
Simple installation by a threaded collar



A.T.E. fixture twist probes P25/P75/P88-TP Series. Where the head has a twist action to cut through contaminants on the PCB giving an effective contact.
P25-TP=2.54mm centres P75-TP=1.91mm centres P88-TP=1.27mm centres

SERIES 25-TP

SPECIFICATION

PROBE P25-TP

Recommended minimum centres:	2.54mm
MECHANICAL	
Full travel:	5.9mm
Recommended working travel:	4.24mm
SPRING FORCE	
Preload:	0.6N
@ Working travel:	1.8N
ORDER PART NO.	-1
ELECTRICAL	
Max current:	3.0 amps
Recommended hole size:	1.7mm
"2" spring available some heads - on request	

RECEPTACLES

RECEPTACLES

R25-C R25-S R25-P R25-W

Dimensions: Ø1.84, Ø1.68, Ø1.24, 29.6, 4.6, 7.6, 00.6, 0.63

Note: R25-S-12.65 has compression ring 12.65 from top

SERIES 75-TPK

SPECIFICATION

PROBE P75-TP

Recommended minimum centres:	1.91mm
MECHANICAL	
Full travel:	5.7mm
Recommended working travel:	4.3mm
Rotates:	90° @ 4.3mm travel
SPRING FORCE	
Preload:	0.14N 0.45N
@ Working travel:	1.1N 1.9N
ORDER PART NO.	- -2
ELECTRICAL	
Max current:	3.0 amps
Terminal resistance:	<25m ohms
Recommended hole size:	1.35mm
Use R75 Receptacle	

SERIES 88-TPH

SPECIFICATION

PROBE P88-TP

Recommended minimum centres:	1.27mm
MECHANICAL	
Full travel:	6.3mm
Recommended working travel:	4.3mm
Rotates:	85° @ 4.3mm travel
SPRING FORCE	
Preload:	0.5N 0.8N 0.7N 0.7N
@ Working travel:	1.0N 1.5N 2.0N 2.8N
ORDER PART NO.	-1 -2 -3 -4
ELECTRICAL	
Max current:	3.0 amps
Terminal resistance:	<17m ohms
Recommended hole size:	0.97mm
Use R88 Receptacle	

TIP STYLES

P25-TPC

STEEL / BeCu

P25-TPH

Available while stocks last

STEEL / BeCu

P25-TPH1

STEEL / BeCu

P25-TPK

STEEL / BeCu

P25-TPSU

STEEL / BeCu

P25-TPV

STEEL / BeCu

TIP STYLES

P75-TPK

BeCu

P75-TPH

BeCu

P75-TPH1

BeCu

TIP STYLES

P88-TPH

STEEL / BeCu

P88-TPH1

STEEL / BeCu

PROBE ORDER CODE

P25-TPC - 1

Series Tip Style Spring Force

Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request Purple = Minimum order quantity

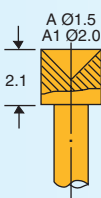
SPECIFICATION

PROBE P25 / 25L	
MECHANICAL	
Full travel:	6.3mm
Recommended working travel:	4.26mm
SPRING FORCE	
Preload:	0.2N 0.5N 0.5N 0.5N 0.5N
@ Working travel:	0.6N 1.0N 1.8N 3.0N 4.5N
ORDER PART NO.	-00 -0 -1 -2 -3
ELECTRICAL	
Max current:	3.0 amps
Terminal resistance:	<25m ohms
Recommended hole size:	1.7mm

"-00" "-0" "-3" only. Some tip styles.
High temp. version -40°C to +250°C Heads available
A/B/C/H, others on request. -1 spring only.

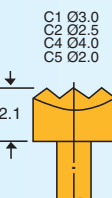
TIP STYLES

P25-A/A1



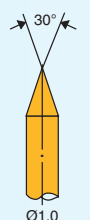
STEEL / BeCu

P25-C1/C2/C4/C5



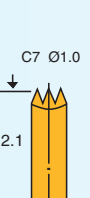
STEEL / BeCu

P25-B



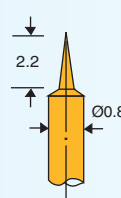
STEEL / BeCu

P25-C7



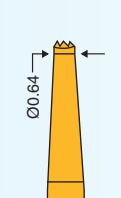
STEEL / BeCu

P25-BST



STEEL

P25-C6



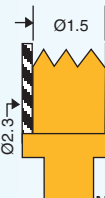
BeCu

P25-BT80ST



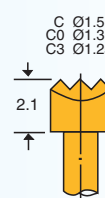
STEEL

P25-C.INS



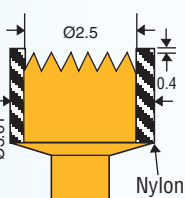
BeCu

P25-C/C0/C3



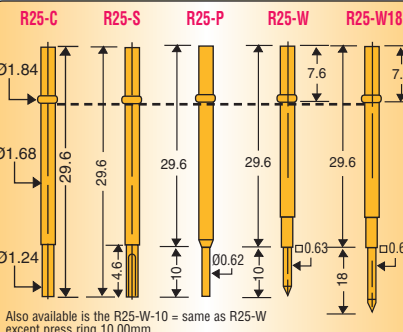
STEEL / BeCu

P25-C1.INS



BeCu

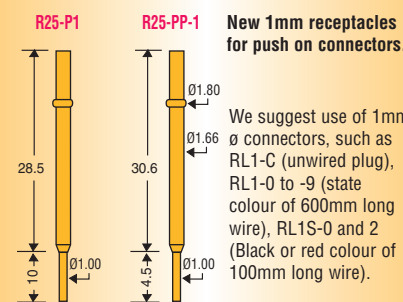
RECEPTACLES



Also available is the R25-W-10 = same as R25-W except press ring 10.00mm

Note: Receptacles: Various special types available, please request data

NEW RECEPTACLES

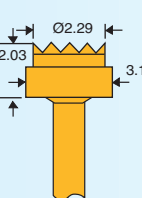


New 1mm receptacles for push on connectors.

We suggest use of 1mm Ø connectors, such as RL1-C (unwired plug), RL1-0 to -9 (state colour of 600mm long wire), RL1S-0 and 2 (Black or red colour of 100mm long wire).

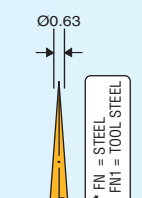
Note: R25-S-12.65 has compression ring 12.65 from top

P25-CHP



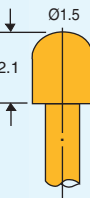
BeCu

P25-FN/FN1



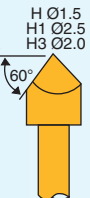
TOOL STEEL / STEEL

P25-D



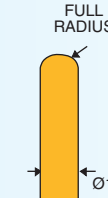
BeCu

P25-H/H1/H3



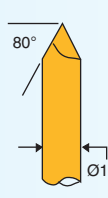
STEEL / BeCu

P25-D1



STEEL / BeCu

P25-H0



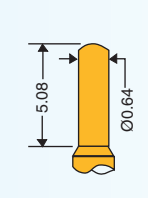
STEEL / BeCu

P25-E/E1



STEEL / BeCu

P25-I



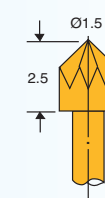
STEEL / BeCu

P25-F



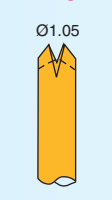
STEEL / BeCu

P25-K



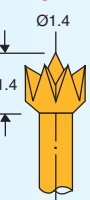
STEEL

P25-L



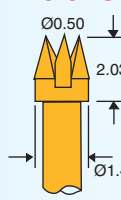
STEEL

P25-M1



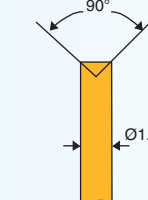
STEEL

P25-3NST



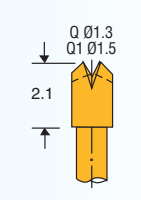
STEEL

P25-P



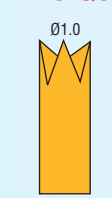
BeCu

P25-Q/Q1



STEEL / BeCu

P25-Q5



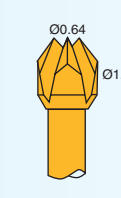
STEEL

P25-Q6



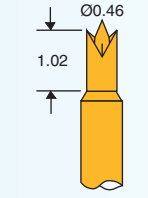
BeCu

P25-S



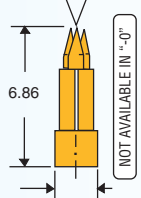
STEEL / BeCu

P25-SU



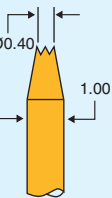
STEEL / BeCu

P25-T



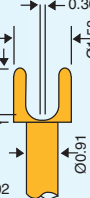
STEEL

P25-TSU



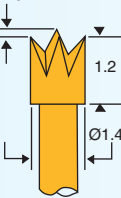
STEEL / BeCu

P25-U



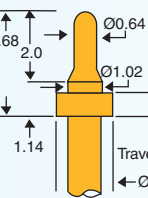
BeCu

P25-V



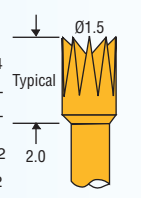
BeCu

P25-XI



BeCu

P25-Z



STEEL / BeCu

P25L Tip Styles available refer to drawings above BST (Ø0.62), BT80, B, C, C1, C2, C5, Q1.

The P25L Series offers a 2mm longer tip.

PROBE ORDER CODE

P25 - B - 0

Series Tip Style Spring Force

Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request Purple = Minimum order quantity

SPECIFICATION

PROBE P34	Recommended minimum centres:	2.54mm
	MECHANICAL	
	Full travel:	10.0mm
	Recommended working travel:	6.6mm
	SPRING FORCE	
	Preload:	0.6N 0.7N 1.0N
	@ Working travel:	1.5N 2.25N 3.0N
	ORDER PART NO.	
	ELECTRICAL	
	Max current:	3.0 amps
	Terminal resistance:	<20m ohms
	Recommended hole size:	1.7mm

Note: -0 and -2 only applies to tips marked with an *

SPECIFICATION

PROBE P36	Recommended minimum centres:	2.54mm
	MECHANICAL	
	Full travel:	12.0mm
	Recommended working travel:	8.0mm
	SPRING FORCE	
	Preload:	0.6N 0.7N 1.0N
	@ Working travel:	1.5N 2.25N 3.0N
	ORDER PART NO.	
	ELECTRICAL	
	Max current:	3.0 amps
	Terminal resistance:	<20m ohms
	Recommended hole size:	1.7mm

Note: -0 and -2 only applies to tips marked with an *

RECEPTACLES

R25-C	R25-S	R25-P	R25-W	R25-W18
Ø1.84	Ø1.68	Ø1.68	Ø1.68	Ø1.68
29.6	29.6	29.6	29.6	29.6
7.6	7.6	7.6	7.6	7.6
Ø0.63	Ø0.63	Ø0.63	Ø0.63	Ø0.63

Note: Receptacles: Various special types available, please request data

RECEPTACLE

R25-PP-1	1mm receptacle for push on connectors.
	We suggest use of 1mm ø connectors, such as RL1-C (unwired plug), RL1-0 to -9 (state colour of 600mm long wire), RL1S-0 and 2 (Black or red colour of 100mm long wire).
30.6	
Ø1.80	
Ø1.66	
Ø1.00	
4.5	

Note: P34/P36 use R25 Receptacles

PROBE ORDER CODE

P34 - B - 1

Series Tip Style Spring Force

Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request

TIP STYLES

P34-A	P34-B*	P34-BST*	P34-BT80ST*	P34-C*/C1
STEEL / BeCu	STEEL / BeCu	STEEL	STEEL	STEEL / BeCu
P34-D1	P34-F	P34-H*	P34-K	P34-L
BeCu	STEEL / BeCu	STEEL / BeCu	STEEL	STEEL
P34-M1*	P34-Q/Q1*	P34-SU	P34-V	P34-XI
STEEL	STEEL / BeCu	STEEL / BeCu	BeCu	BeCu
P36-A	P36-B*	P36-BST*	P36-BT80ST*	P36-C*/C1
STEEL / BeCu	STEEL / BeCu	STEEL	STEEL	STEEL / BeCu
P36-D1	P36-H*	P36-L	P36-M1*	P36-Q/Q1*
BeCu	STEEL / BeCu	STEEL	STEEL	STEEL / BeCu
P36-SU				
STEEL / BeCu				

SPECIFICATION

SERIES 75

Recommended minimum centres:	1.91mm
MECHANICAL	
Full travel:	6.30mm
Recommended working travel:	4.24mm
SPRING FORCE	
Preload:	0.4N 0.4N 0.5N 0.6N
@ Working travel:	1.15N 1.5N 2.1N 3N
ORDER PART NO.	-0 -1 -2 -3
ELECTRICAL	
Max current:	3.0 amps
Terminal resistance:	<20m ohms
Recommended hole size:	1.35mm
Spring "-3" = 3.0N available on request - some tips only	

Note: P75L Series Tip Styles BT80, K, SU available O/L 35mm Tip length +2mm

SPECIFICATION

SERIES 76

Recommended minimum centres:	1.91mm
MECHANICAL	
Full travel:	10mm
Recommended working travel:	6.6mm
SPRING FORCE	
Preload:	0.2N
@ Working travel:	1.2N
ORDER PART NO.	-1
ELECTRICAL	
Max current:	3.0 amps
Terminal resistance:	<20m ohms
Recommended hole size:	1.35mm

SPECIFICATION

SERIES 76L

Recommended minimum centres:	1.91mm
MECHANICAL	
Full travel:	12.00mm
Recommended working travel:	9.60mm
SPRING FORCE	
Preload:	0.40 0.35N
@ Working travel:	1.20N 1.60N
ORDER PART NO.	-1 -2
ELECTRICAL	
Max current:	3.0 amps
Terminal resistance:	<30m ohms
Recommended hole size:	1.30mm

RECEPTACLES

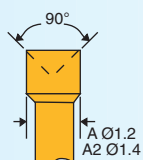
SERIES 75

R75-C	R75-P ROUND PIN	R75-S	R75-W
R75-P101.0			

Note: R75 receptacles for all series

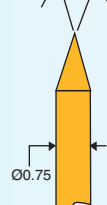
TIP STYLES

P75-A/A2



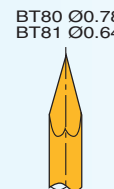
STEEL / BeCu

P75-B



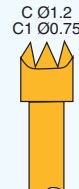
STEEL / BeCu

P75-BT80/BT81



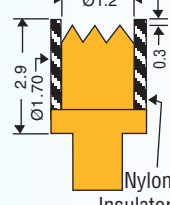
STEEL

P75-C/C1



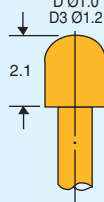
STEEL / BeCu

P75-C-INS



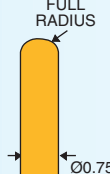
BeCu

P75-D/D3



BeCu

P75-D1



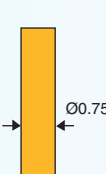
BeCu

P75-FN



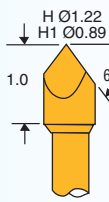
STEEL

P75-F1



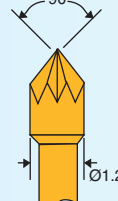
BeCu

P75-H/H1



STEEL / BeCu

P75-K



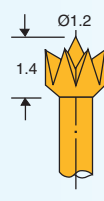
STEEL

P75-L



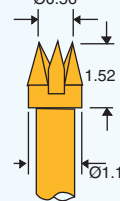
STEEL

P75-M1



STEEL / BeCu

P75-3N



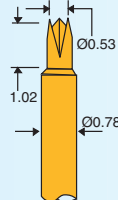
STEEL / BeCu

P75-Q



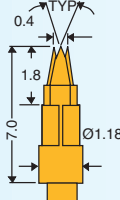
STEEL / BeCu

P75-SU



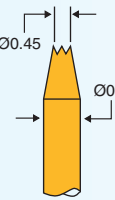
STEEL / BeCu

P75-T



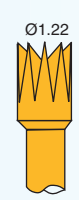
STEEL

P75-TSU



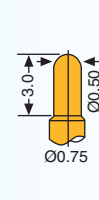
STEEL / BeCu

P75-Z



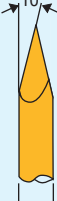
BeCu

P75-I



BeCu

P76L-BT80



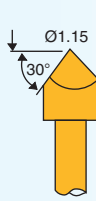
STEEL

P76L-C



STEEL

P76L-H



STEEL

P76L-Q



STEEL

P76 Tip Styles available refer to drawings above B (00.64), BT80 (00.64), C (01.17), H (01.17), HO (00.64), K (01.17), L (00.64), 3N (00.56), Q (01.2), Q1 (00.75)

PROBE ORDER CODE

P75 - B - 0

Series Tip Style Spring Force

PROBE ORDER CODE

P76L - C - 1

Series Tip Style Spring Force

SPECIFICATION

SERIES 16

PROBE P16

Recommended minimum centres: 2.54mm	
MECHANICAL	
Full travel:	4.4mm
Recommended working travel:	3.50mm
SPRING FORCE	
Preload:	0.25N 0.4N 0.4N 0.6N
@ Working travel:	0.7N 1.0N 1.5N 3.0N
ORDER PART NO.	
	-00 -0 -1 -2
ELECTRICAL	
Max current:	3.0 amps
Terminal resistance:	<30m ohms
Recommended hole size:	1.7mm

Note: -00 spring force only available in certain tips

RECEPTACLES

SERIES 16

R16-C	R16-P	R16-S	R16-W

Note: Receptacles: Various special types available, please request data

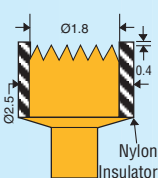
SPECIFICATION

SERIES 28

PROBE P28	PROBE P28/5	PROBE P28/SR

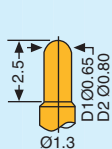
Recommended minimum centres: 2.54mm	
MECHANICAL	
Full travel:	5.3mm
Recommended working travel:	4.0mm
SPRING FORCE	
Preload:	0.35N 0.8N
@ Working travel:	1.5N 3.0N
ORDER PART NO.	
	-1 -2
ELECTRICAL	
Max current:	3 amps
Terminal resistance:	<25m ohms
Recommended hole size:	2.0mm

P28-C5-INS-2



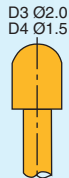
BeCu

P28-D1/D2/D0



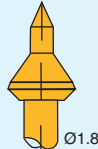
STEEL

P28-D3/D4



BeCu

P28-EB



STEEL

P28-F



STEEL/BeCu

P28-FN



STEEL

P28-G1/G3



STEEL / BeCu

P28-H1/H1/H2



STEEL / BeCu

Note: The P28 Series uses R21 receptacles

P28 Tip Styles Green = P28 only
Orange = P28 / P28/5 / P28/SR

PROBE ORDER CODE

P16 - B - 0

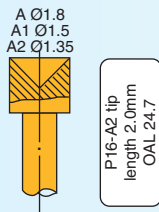
Series Tip Style Spring Force

Note: Purple = Minimum order quantity

Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request

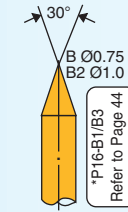
TIP STYLES

P16-A/A1/A2



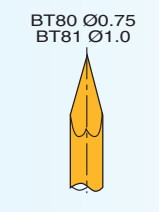
STEEL / BeCu

P16-B/B2



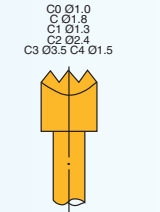
STEEL

P16-BT80/BT81



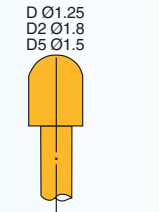
STEEL

P16-C0/C1/C2/C3/C4



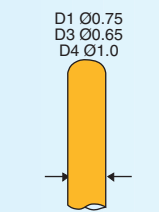
STEEL / BeCu

P16-D/D2/D5



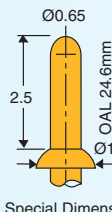
STEEL / BeCu

P16-D1/D3/D4



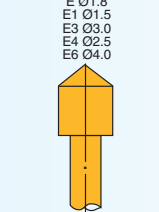
STEEL / BeCu

P16-D7†



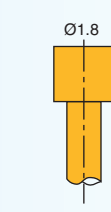
STEEL

P16-E/E1/E3/E4/E6



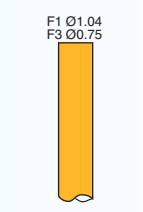
STEEL / BeCu

P16-F



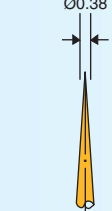
STEEL

P16-F1/F3



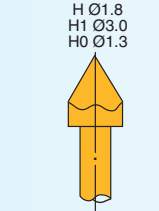
STEEL / BeCu

P16-BS



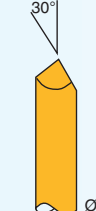
STEEL

P16-H/H1/H0



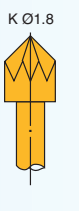
STEEL / BeCu

P16-H5



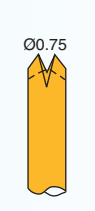
STEEL / BeCu

P16-K



STEEL

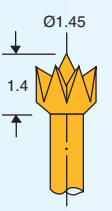
P16-L



STEEL

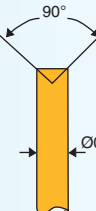
Note: † P16-D7-0 only 1 Spring Force = 1.1N Full Travel = 2.75mm Recommended Working Travel = 2.0mm

P16-M1



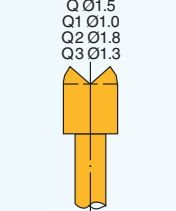
BeCu

P16-P



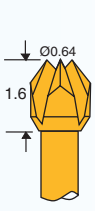
BeCu

P16-Q/Q1/Q2/Q3



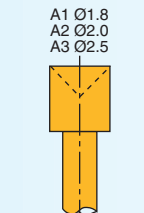
STEEL / BeCu

P16-S



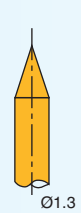
BeCu

P28-A1/A2/A3



STEEL / BeCu

P28-B



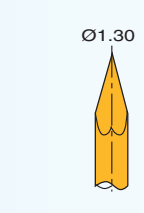
STEEL / BeCu

P28-BST



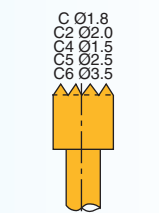
STEEL

P28-BT80



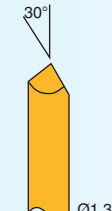
STEEL

P28-C/C2/C4/C5/C6



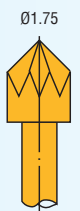
STEEL / BeCu

P28-H4



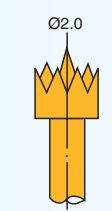
STEEL / BeCu

P28-K



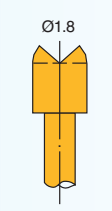
STEEL

P28-M1



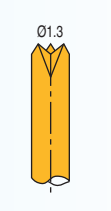
STEEL

P28-Q1



STEEL

P28-Q5



STEEL

SERIES 21

SPECIFICATION

PROBE P21

*NOTE: The ② dimension is available as 5/7/8/10mm to vary the probe height. Add this to the part number e.g. P21/7-A-1=7mm height

OTHER LENGTH DIMENSIONS WILL INCREASE ACCORDINGLY

P21/5R same OAL as P21 with 5mm standoff, this probe has a knurled barrel for better retention in receptacle.

Recommended minimum centres: 2.54mm

MECHANICAL
Full Travel: 5.3mm
Recommended working travel: 4.0mm

SPRING FORCE
Preload: 0.35N 0.75N 0.8N
@ Working travel: 1.5N 2.25N 3.0N
ORDER PART NO. -1 -2X -2

ELECTRICAL
Max current: 3.0 amps
Terminal resistance: <25m ohms
Recommended hole size: 2.0mm

NOTE: For high current P21 please see page 42

NOTE: P21L Datasheet available on request OAL 37mm

SPECIFICATION

PROBE P29/5 **PROBE P29/8**

Recommended minimum centres: 2.54mm

MECHANICAL
Full travel: 8.0mm
Recommended working travel: 6.4mm

SPRING FORCE
Preload: 0.5N 0.8N
@ Working travel: 1.5N 3.0N
ORDER PART NO. -1 -2

ELECTRICAL
Max current: 3.0 amps
Terminal resistance: <25m ohms
Recommended hole size: 2.0mm

RECEPTACLES

R21-S **R21-SR** **R21-W** **R21-WR**

R21-SR AND R21-WR are new press ring versions

P29 Tip Styles Green = Only P29/5 available
Orange = Both P29/5 & P29/8 are available

P29-C5/INS P29-D P29-EB P29-G/G1

Nylon Insulator

BeCu STEEL STEEL STEEL

PROBE ORDER CODE

P21 - B - 1

Series Tip Style Spring Force

TIP STYLES

P21-A



STEEL

P21-B/B1/B2



STEEL

P21-BST



STEEL

P21-C/C1/C2/C4



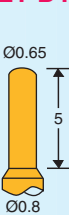
STEEL

P21-D/D2/D5



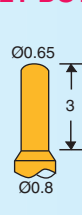
STEEL / BeCu

P21-D1



STEEL

P21-DS1



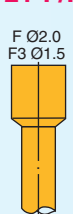
STEEL

P21-D3/D4



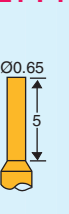
STEEL

P21-F/F3



STEEL

P21-F1



STEEL

P21-FN



STEEL

P21-F2



STEEL / BeCu

P21-G/G1/G2



STEEL

P21-H/H1



STEEL / BeCu

P21-K



STEEL

P21-M



STEEL

P21-Q/Q1

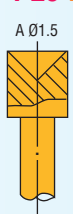


STEEL

P29/5 NEW TIPS

D 0.15, D0 0.70, D1 0.13, E 0.20, K 0.20, SU 0.60, SU1 0.50 info available on request.

P29-A



STEEL / BeCu

P29-B



STEEL

P29-BST



STEEL

P29-BT80



STEEL

P29-C/C1/C2/C3/4



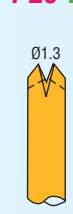
STEEL

P29-H/H1/H2/H3



STEEL

P29-L



STEEL

P29-M1/M2



STEEL

P29-Q/Q2



STEEL

P29-Q5



STEEL

Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request Purple = Minimum order quantity

Note: Use R21 receptacles for P29 Series

SPECIFICATION

SERIES 30

PROBE P30	
Recommended minimum centres:	3.0mm
MECHANICAL	
Full travel:	6.3mm
Recommended working travel:	5.0mm
SPRING FORCE	
Preload:	0.5N 1.0N 1.5N
@ Working travel:	1.5N 2.25N 3.0N
ORDER PART NO.	-1 -2X -2
ELECTRICAL	
Max current:	4.0 amps
Terminal resistance:	<25m ohms
Recommended hole size:	2.4mm

RECEPTACLES

RECEPTACLES

R30-C	R30-P	R30-S	R30-W

SPECIFICATION

SERIES 40

PROBE P40	
Recommended minimum centres:	4.0mm
MECHANICAL	
Full travel:	5.5mm
Recommended working travel:	4.4mm
SPRING FORCE	
Preload:	0.5N 0.8N 1.4N
@ Working travel:	1.5N 3.0N 5.0N
ORDER PART NO.	-1 -2 -3
ELECTRICAL	
Max current:	5.0 amps
Terminal resistance:	<30m ohms
Recommended hole size:	3.0mm

RECEPTACLES

RECEPTACLES

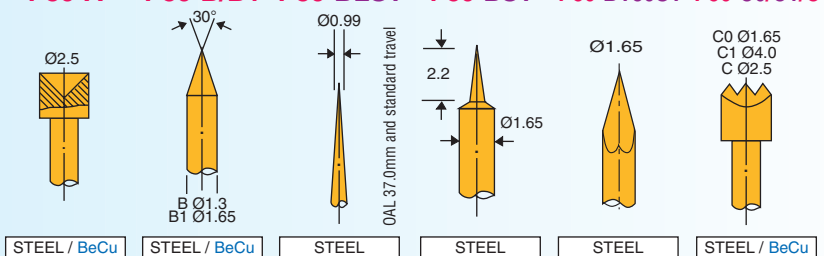
R40-C	R40-S

PROBE ORDER CODE

P30 - B - 1
 Series Tip Style Spring Force

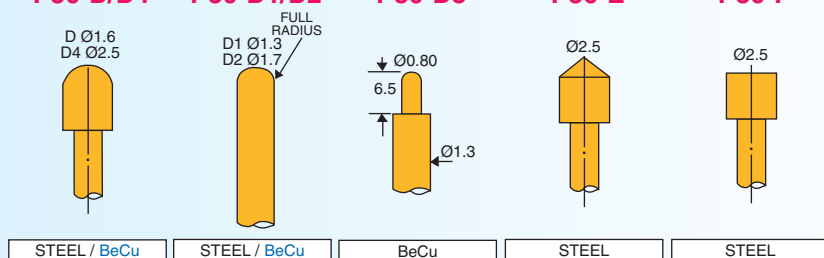
TIP STYLES

P30-A P30-B/B1 P30-BLST P30-BST P30-BT80ST P30-C0/C1/C



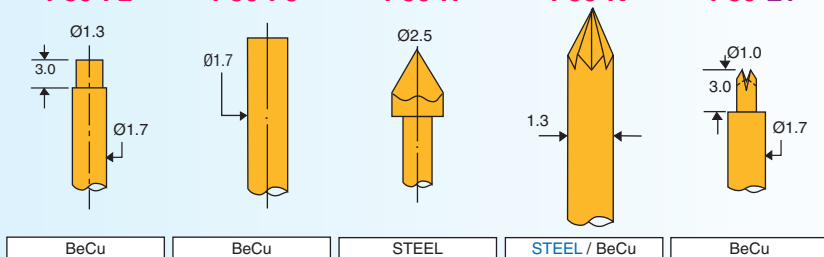
STEEL / BeCu STEEL / BeCu STEEL STEEL STEEL STEEL / BeCu

P30-D/D4 P30-D1/D2 P30-D3 P30-E P30-F



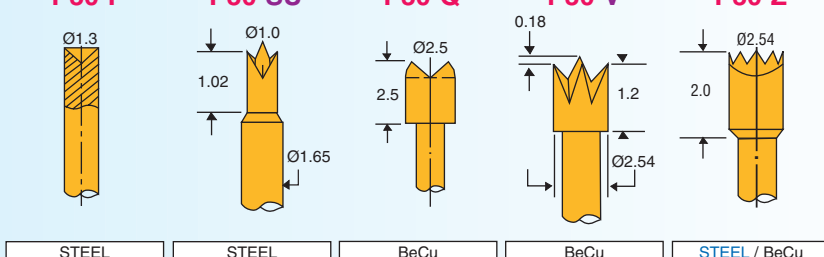
STEEL / BeCu STEEL / BeCu BeCu STEEL STEEL

P30-F2 P30-F3 P30-H P30-K P30-L1



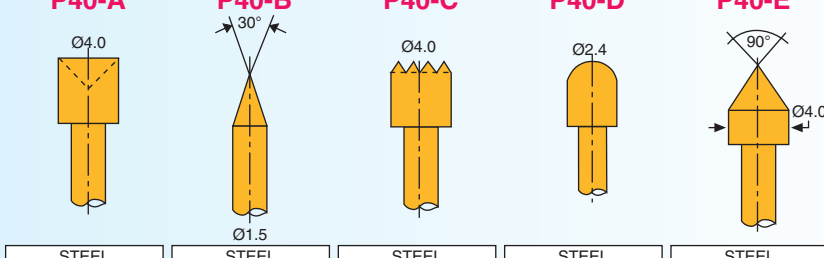
BeCu BeCu STEEL STEEL / BeCu BeCu

P30-P P30-SU P30-Q P30-V P30-Z



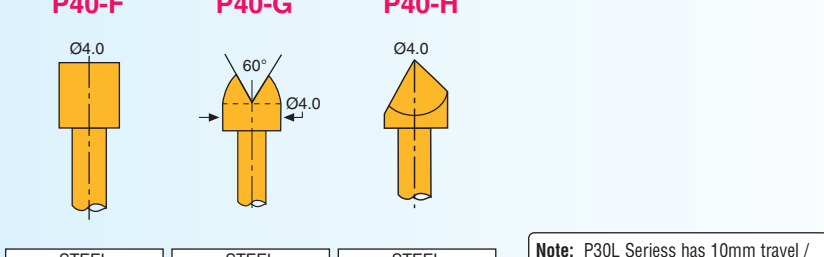
STEEL STEEL BeCu BeCu STEEL / BeCu

P40-A P40-B P40-C P40-D P40-E



STEEL STEEL STEEL STEEL STEEL

P40-F P40-G P40-H



STEEL STEEL STEEL

Note: P30L Series has 10mm travel / overall length 36.9. Only certain heads - check before ordering

Note: For high current version of Series P30 please refer to HSP30 on Page 39

SPECIFICATION

SERIES 41/41W

PROBE P41W

4
0.35
37.3
0.8
29.0
0.3

P41

3
0.3
29.0
0.3

Recommended minimum centres: 4.00mm 5.0mm

MECHANICAL

Full travel: 6.0mm

Recommended working travel: 4.8mm

SPRING FORCE

Preload: 0.25N 0.6N

@ Working travel: 1.5N 3.0N

ORDER PART NO.

ELECTRICAL

Max current: 5.0 amps

Terminal resistance: <20m ohms

Recommended hole size: 3.5mm

SPECIFICATION

SERIES 42

PROBE P42

1.6
0.185
2.0
0.3
19.0
0.142
8.0
0.3

Recommended minimum centres: 4.5mm

MECHANICAL

Full travel: 7.0mm

Recommended working travel: 5.6mm

SPRING FORCE

Preload: 0.3N 0.6N

@ Working travel: 1.5N 3.0N

ORDER PART NO.

ELECTRICAL

Max current: 5.0 amps

Terminal resistance: <30m ohms

Recommended hole size: 3.5mm

RECEPTACLES

RECEPTACLES

R42

0.25
0.385
22
0.35

R42/S

22
0.35

Note: P41/P41W & P42 use R42 receptacles

NEW SCREW-IN VERSION OF P42 = P309/G SERIES. SEE PAGE 19

TIP STYLES

P41-A/A1

A 0.4
A1 0.25
0.3
0.25
P41W-A1 0.25

STEEL

P41-B

0.18
0.18

STEEL

P41-C/C1/C2/C3/C4

C 0.4
C1 0.25
C2 0.23
C3 0.9
C4 0.65
0.3
0.25

STEEL

P41-D

0.23
0.23

STEEL

P41-F

0.18
0.18

STEEL

P41-F3

0.23
0.23

STEEL

P41-G

0.23
0.23

STEEL

SPACER

SPACER

ZRG 41-2/3/5

0.39
2
3
5

Spacers are used to increase the shoulder height of the probe.

Used for Series P41 P41W, P42

P42-A

0.4
0.4

BeCu

P42-B

0.18
0.18

STEEL

P42-BLST

0.142
0.142

STEEL

P42-C/C2

C 0.4
C2 0.3
0.3
0.25

STEEL

P42-C1

0.185
0.185

STEEL

P42-D1

FULL RADIUS
0.18
0.18

STEEL

P42-F

0.4
0.4

STEEL

P42-G

0.4
0.4

STEEL

P42-G1

0.185
0.185

STEEL

P42-H

0.4
0.4

STEEL

PROBE ORDER CODE

P41 - B - 1

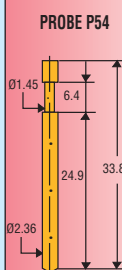
Series Tip Style Spring Force

Note: Tip Material shown Black - Standard Stock Item Purple = Minimum order quantity

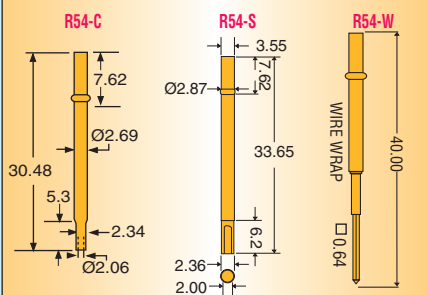
SERIES 54

SPECIFICATION

PROBE P54		Recommended minimum centres:	4.5mm
MECHANICAL		Full travel:	6.4mm
		Recommended working travel:	4.4mm
SPRING FORCE		Preload:	0.4N 0.5N 1.0N
		@ Working travel:	1.5N 2.5N 3.0N
ORDER PART NO.			-1 -2 -3
ELECTRICAL		Max current:	5.0 amps
		Terminal resistance:	<20m ohms
		Recommended hole size:	2.7mm



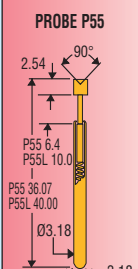
RECEPTACLES



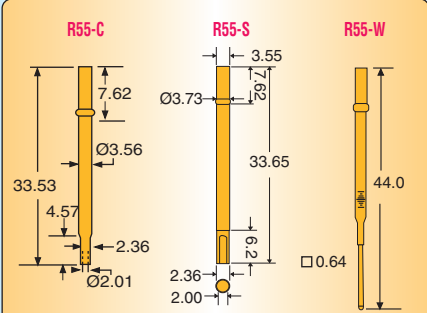
RECEPTACLES

SPECIFICATION

PROBE P55		Recommended minimum centres:	4.5mm
MECHANICAL		Full travel:	6.4mm
		Recommended working travel:	4.4mm
P55 SPRING FORCE		Preload:	0.5N 0.6N
		@ Working travel:	2.25N 4.75N
ORDER PART NO.			-0 -1
P55L SPRING FORCE		Preload:	0.8N
		Full travel:	10mm
		@ Working travel:	4.0N
ORDER PART NO.			-1
ELECTRICAL		Max current:	8.0 amps
		Terminal resistance:	<20m ohms
		Recommended hole size:	3.6mm



RECEPTACLES



RECEPTACLES

PROBE ORDER CODE

P54 - B - 1

Series Tip Style Spring Force

Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request Purple = Minimum order quantity

TIP STYLES

P54-A/A1/A2 STEEL	P54-B/B1 STEEL / BeCu	P54-C/C1 STEEL / BeCu	P54-D/D2 STEEL / BeCu	P54-D1/D3 STEEL / BeCu
P54-E/E1 STEEL	P54-F/F2/F3/F4 BeCu	P54-F1 STEEL	P54-G STEEL	P54-H/H4 STEEL
P54-H2 STEEL	P54-K BeCu	P54-L/L1 STEEL / BeCu	P54-P BeCu	P54-Q1 BeCu
P55-A/A1 STEEL / BeCu	P55-B/B1 STEEL / BeCu	P55-C/C2 STEEL / BeCu	P55-C1 STEEL / BeCu	P55-D BeCu
P55-D1/D2 BeCu	P55-E BeCu	P55-F BeCu	P55-K BeCu	P55-P BeCu
P55-Q STEEL	P55-Q2/Q3 STEEL / BeCu	Note: P55 Series spring force "-0" is available for all Tip Styles excl. C2, K, P, Q, Q3 For high current version of Series P54/55 please refer to HSP54/55 on Page 40		
Note: Also available on request P55-SU 01.3 L 02.79, K1 02.00, BT80 02.79 P54 BT80 02.00, Q2 02.54, Q 03.96 SU 00.74, V 02.00				
Note: P55L Version Tip Styles available are AL 03.96, BL 02.1, CL 03.96, CL1 02.79, DL1 02.00				

Series P50, P51, P60, P61 all have 4.0mm min centres P50 & P60 have 5.5mm travel
P51 & P61 have 7.0mm travel and offer extended tip length P60/5 is 3mm longer

SPECIFICATION

SERIES 50

PROBE P50		Recommended minimum centres:	4.0mm
MECHANICAL		Full travel:	5.5mm
		Recommended working travel:	4.4mm
SPRING FORCE		Preload:	0.4N 1.0N 1.1N
		@ Working travel:	1.5N 3.0N 5.0N
ORDER PART NO.			-1 -2 -3
ELECTRICAL		Max current:	5.0 amps
		Terminal resistance:	<30m ohms
		Recommended hole size:	3.0mm

* with Headstyle D2
** with Headstyle C6

SPECIFICATION

SERIES 60

PROBE P60/5 PROBE P60		Recommended minimum centres:	4.0mm
MECHANICAL		Full travel:	5.5mm
		Recommended working travel:	4.4mm
SPRING FORCE		Preload:	0.2N 0.4N 0.8N 0.7N
		@ Working travel:	0.6N 1.5N 3.0N 5.0N
ORDER PART NO.			-0 -1 -2 -3
ELECTRICAL		Max current:	5.0 amps
		Terminal resistance:	<30m ohms
		Recommended hole size:	3.0mm

All tip styles available
All diameters as per P50

RECEPTACLES

SERIES 50

R60/S-23*	R60-S	R50-ST	R60-ST	R60-W

*R60/S28 QAL 28

SPECIFICATION

SERIES 51

PROBE P51		Recommended minimum centres:	4.0mm
MECHANICAL		Full travel:	7.0mm
		Recommended working travel:	5.6mm
SPRING FORCE		Preload:	0.4N 0.6N
		@ Working travel:	1.5N 3.0N
ORDER PART NO.			-1 -2
ELECTRICAL		Max current:	5.0 amps
		Terminal resistance:	<35m ohms
		Recommended hole size:	3.0mm

SPECIFICATION

SERIES 61

PROBE P61		Recommended minimum centres:	4.0mm
MECHANICAL		Full travel:	7.0mm
		Recommended working travel:	5.6mm
SPRING FORCE		Preload:	0.4N 0.6N
		@ Working travel:	1.5N 3.0N
ORDER PART NO.			-1 -2
ELECTRICAL		Max current:	5.0 amps
		Terminal resistance:	<35m ohms
		Recommended hole size:	3.0mm

Note: P61/5 version has a 5mm high collar, 36mm overall length and 22mm barrel.

TIP STYLES

P60-A/A3/A4 STEEL / BeCu	P60-B STEEL / BeCu	P60-BA STEEL / BeCu	P60-C/C0/C1/C2/C4/C8 STEEL / BeCu	P60-C6 STEEL / BeCu
P60-D1/D STEEL / BeCu	P60-D2 STEEL / BeCu	P60-D3/D0/D4 STEEL / BeCu	P60-D5 STEEL / BeCu	P60-EB STEEL / BeCu
P60-F0/F/F1 STEEL / BeCu	P60-F2 STEEL / BeCu	P60-F3/F4/F5/F6 BeCu	P60-G/G1/G2/G3/G5 STEEL / BeCu	P60-H/H1/H2/H3/H5 STEEL / BeCu

NOTE: H2 tip length 4.5mm

NOTE: For high current P60 please see page 42

Note: Spacers are available to alter the height setting, use ZRG201-2/3/5. Refer to page 14 for details

P50 Tip Styles available refer to drawings above
A, A4, B, BA, C, C1, C2, C4, C6, D, D0, D1, D2, D3, D5, F, F1, F2, F3, F4, F5, F6, G, G1, G2, H, H1, H2, KF, KF1
STEEL ONLY

TIP STYLES

P51/61-B STEEL	P51/61-BA STEEL
------------------------------	-------------------------------

PROBE ORDER CODE

P50 - B - 1

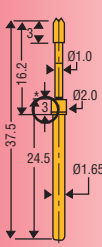
Series Tip Style Spring Force

Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request Purple = Minimum order quantity

SERIES 24

SPECIFICATION

PROBE P24



*NOTE: The ③ dimension is available as 5/7/8/10mm to vary the probe height. Add this to the part number e.g. P24/7=7mm height

OTHER LENGTH DIMENSIONS WILL INCREASE ACCORDINGLY

Other heights available on request

Recommended minimum centres: 2.54mm

MECHANICAL

Full travel: 10.0mm
Recommended working travel: 8.0mm

SPRING FORCE

Preload: 0.4N 0.5N 1.0N
@ Working travel: 1.5N 2.5N 3.0N

ORDER PART NO.

-1 -2 -3

ELECTRICAL

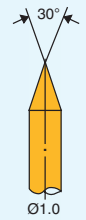
Max current: 3.0 amps

Terminal resistance: <30m ohms

Recommended hole size: 2.0mm

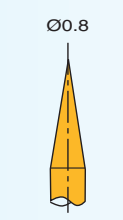
TIP STYLES

P24-B



STEEL

P24-BST



STEEL

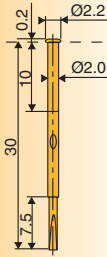
Note:

The P24/G Series threaded version available on request only. All tips in P24 Series

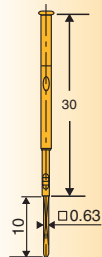
RECEPTACLES

RECEPTACLES

R21-S



R21-W



P24-BT80



STEEL

P24-C/C1



STEEL

P24-D1



STEEL

P24-FN



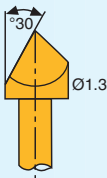
STEEL

P24-G/G1



STEEL

P24-H



STEEL

P24-K



STEEL

P24-M



STEEL

P24-Q



STEEL

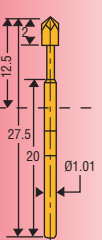
Note:

The P24 Series uses R21 receptacles

SERIES 101

SPECIFICATION

PROBE P101



Recommended minimum centres: 1.7mm

MECHANICAL

Full travel: 5.0mm
Recommended working travel: 4.0mm

SPRING FORCE

Preload: 0.3N
@ Working travel: 1.5N

ELECTRICAL

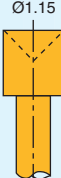
Max current: 1.5 amps

Terminal resistance: <25m ohms

Recommended hole size: 1.32mm

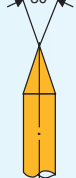
TIP STYLES

P101-A



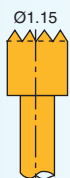
BeCu

P101-B



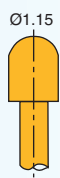
BeCu

P101-C



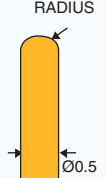
BeCu

P101-D



BeCu

P101-D1



BeCu

P101-E



BeCu

P101-H



BeCu

P101-K



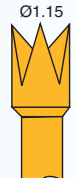
STEEL

P101-L



STEEL

P101-Q

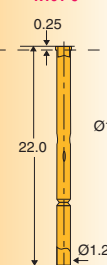


STEEL

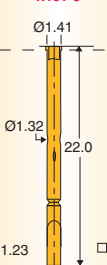
RECEPTACLES

RECEPTACLES

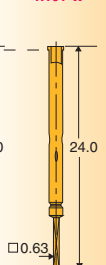
R101-C



R101-S



R101-W



PROBE ORDER CODE

P24 - B - 1

Series Tip Style Spring Force

Note: Tip Material shown Black - Standard Stock Item



P201 microswitch probe. 4.0mm centres with various tip styles and heights
P202 2.54mm centres switch probe with various tip styles and heights
P201 has 1.7mm switching travel P202 has 2.6mm and 4mm switching travel
P201/S short version OAL 24mm + 4mm tail
P201/F The switch is normally closed and operating plunger will open the switch

SERIES 201

SPECIFICATION

PROBE P201

MECHANICAL
Recommended minimum centres: 4.0mm
Full travel: 5.0mm
Recommended Working travel: 4.0mm
Switching travel: 1.7mm

SPRING FORCE
Preload: 0.12N 0.3N 1.8N 1.7N 5N
@ Working travel: 1.25N 2.3N 7.0N 9N 13N
@ Switch travel: 0.18N 0.7N 3.6N 4.4N 8N

ORDER PART NO. -0 -1 -1X -2 -3

ELECTRICAL
Receptacle to plunger: 5 amps
Pin to plunger: 1.5 amps
Max current: 5 amps
Terminal resistance: <15m ohms
Insulating voltage: 1,000v
Recommended hole size: 3.0mm

Note: P201/F Series A "normally closed" switch probe which will "open" when depressed to switch travel of 1.7mm. Tip styles on request.

Note: P201 and P202 also available with switch travel 4mm. Please indicate.

Note: P201/10 All tip styles with 10mm shoulder. Has the same overall length as the P201.

RECEPTACLES

R201-16 **R201-22** **R201/S-23** **R201-S/28**

SPECIFICATION

PROBE P202

MECHANICAL
with Receptacle: 2.54mm
without Receptacle: 2.00mm
Full travel: 5.3mm
Recommended Working travel: 4.0mm
Switching travel: 2.6mm

SPRING FORCE
Preload: 0.4N 0.5N 1.7N
@ Working travel: 1.5N 3N 6.5N
@ Switch travel: 0.8N 1.8N 4.5N

ORDER PART NO. -1 -2 -3

ELECTRICAL
Receptacle to plunger: 3 amps
Pin to plunger: 1 amp
Max current: 3 amps
Terminal resistance: <20m ohms
Insulating voltage: 1,000v
Recommended hole size: 2.00mm

RECEPTACLES

R202-S/26 **R202**

Spacers available ZRG 202-2 and -3

SPECIFICATION

PROBE P207

MECHANICAL
Recommended minimum centres: 2.54mm
Full travel: 6.3mm
Recommended Working travel: 5.0mm
Switching travel: 4.0mm

SPRING FORCE
Preload: 0.3N
@ Working travel: 2.0N
@ Switch travel: 1.0N

ELECTRICAL
Max current: 1.0 amp
Terminal resistance: <50m ohms
Insulating voltage: 1,000v
Recommended hole size: 1.70mm

SERIES 207

SPACER

Spacers are used to increase the shoulder height of the probe.

TIP STYLES

P201-A **P201-C/C4/C6** **P201-C1**

STEEL STEEL STEEL

P201-CL **P201-CL1** **P201-F/F3** **P201-F4** **P201-F1/F2/F4 POM** (with insulated head)

STEEL STEEL STEEL STEEL NYLON

P201-FL3 **P201-FL4** **P201-Y** **P201-Y5**

STEEL STEEL STEEL STEEL

P202-A **P202-C/C1** **P202-CL*** **P202-F** **P202-F1** **P202-F1 POM** (with insulated head)

STEEL STEEL BeCu STEEL STEEL NYLON

P207-C **P207-D1** **P207-DL1**** **P207-F**

STEEL STEEL STEEL STEEL

Note: Y + Y5 are non-rotational blades

Note: Use receptacle R207

****Note:** With P207-DL1 Tip Switch travel = 2.0mm
Working travel = 3.0mm Full travel = 4.3mm

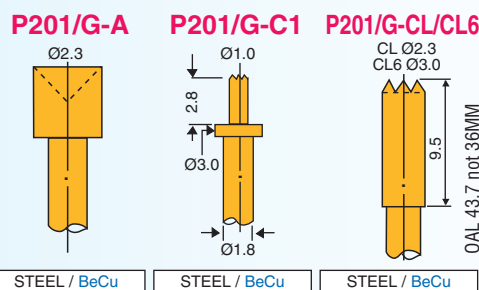
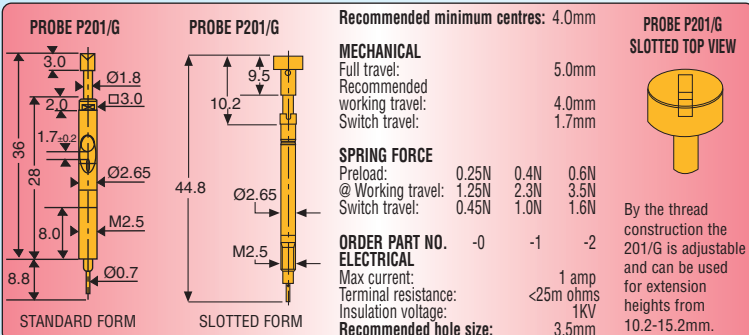
PROBE ORDER CODE
P201 - C - 1
Series Tip Style Spring Force

Note: Tip Material shown Black - Standard Stock Item Purple = Minimum order quantity

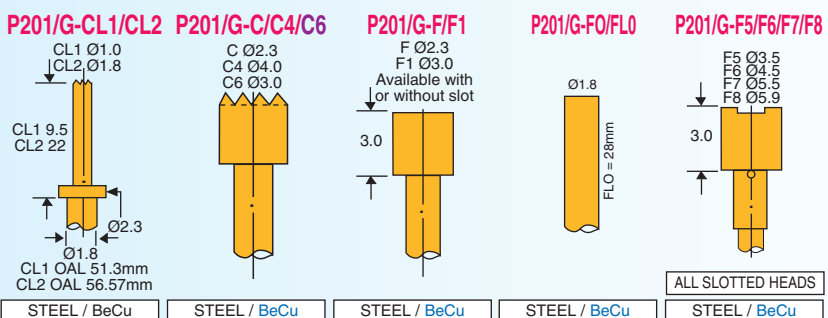
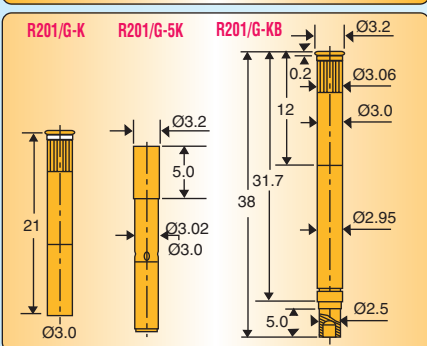
SPECIFICATION

TIP STYLES

SERIES 201/G

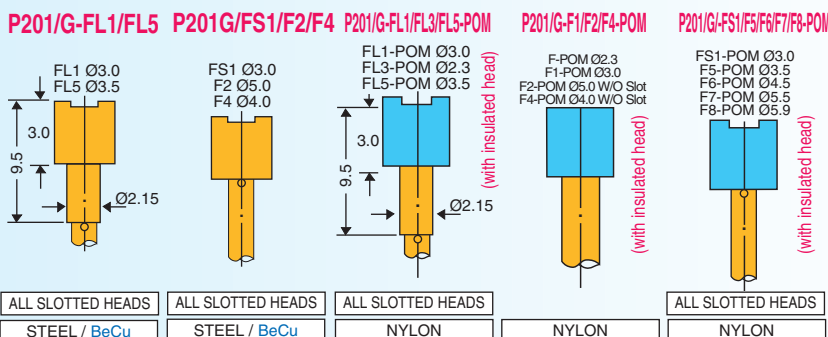
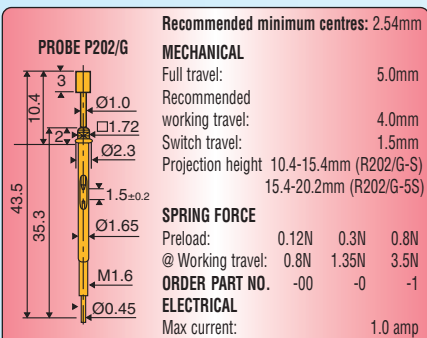


RECEPTACLES

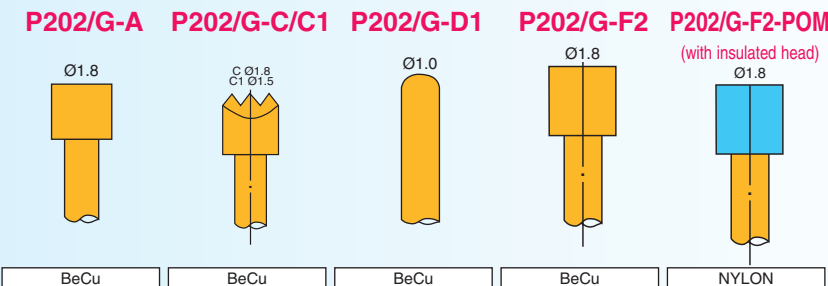
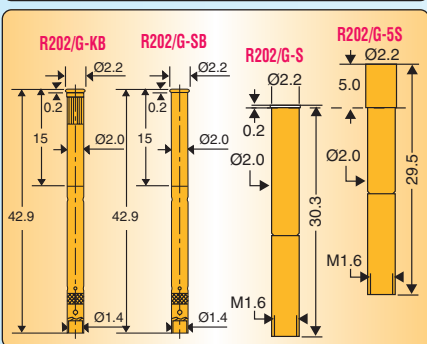


SPECIFICATION

SERIES 202/G



RECEPTACLES



P202/G-F3/FL3

STEEL / BeCu

PROBE ORDER CODE

P201/G - A - 1

Series Tipstyle Spring Force

Note: Alternative Spring Forces available on request for P201/G and P202/G Series.



P201/G and P202/G screw-in switch probes with the thread at the TOP of the probe barrel.
P201/G min centres 4.0mm switch travel 1.7mm
P202/G min centres 2.54mm switch travel 2.6mm

SPECIFICATION

SERIES 201/G-L1.7

PROBE P201/G-L1.7

Recommended minimum centres: 4.0mm

MECHANICAL
Full travel: 5.0mm
Recommended working travel: 4.0mm
Switch travel: 1.7mm

SPRING FORCE
Preload: 0.12N 0.3N 1.8N 1.7N 5.0N
@ Switching travel: 0.18N 0.7N 3.6N 4.4N 8.0N
@ Working travel: 1.25N 2.3N 7.0N 9.0N 13.0N

ORDER PART NO. -0 0 -1 -2 -3

ELECTRICAL Receptacle to plunger Pin to plunger
Max current: 5.0 amps 1.0 amp
Terminal resistance: <15m ohm <50m ohm
Insulating voltage: 1000v 1000v

* Temperature range of the isolator (HTK) up to +300°C

RECEPTACLES

SERIES 201/G-L1.7

R201/G-L4 R202/G-L4

STEEL / BeCu

SPECIFICATION

SERIES 202/G-L2.6

PROBE P202/G-L2.6

Recommended minimum centres: 2.54mm

MECHANICAL
Full travel: 5.3mm
Recommended working travel: 4.0mm
Switch travel: 2.6mm

SPRING FORCE
Preload: 0.15N 0.4N 1.5N 1.7N
@ Switching travel: 0.25N 0.8N 1.8N 4.5N
@ Working travel: 0.8N 1.5N 3.0N 6.5N

ORDER PART NO. -00 -0 -1 -2

ELECTRICAL Receptacle to plunger Pin to plunger
Max current: 3.0 amps 1.0 amp
Terminal resistance: <20m ohm <50m ohm
Insulating voltage: 1000v 1000v

* Temperature range of the isolator (HTK) up to +300°C

Note: Also available with 4.00mm switch travel, ask for details.

SPECIFICATION

SERIES 201/G-I

PROBE P201/GI

Recommended minimum centres: 4.0mm

MECHANICAL
Full travel: 5.0mm
Recommended working travel: 4.0mm
Switch travel: 1.70mm ±0.02mm

SPRING FORCE
Preload: 0.3N 1.8N 1.7N 5.0N
@ Switching travel: 0.7N 3.6N 4.4N 8.0N
@ Working travel: 2.3N 7.0N 9.0N 13.0N

ORDER PART NO. -0 -1 -2 -3

ELECTRICAL Receptacle to plunger Pin to plunger
Max current: 5.0 amps 1.0 amp
Terminal resistance: <15m ohm <50m ohm
Insulating voltage: 1000v 1000v

A new system which reduces the time for maintenance and replacement of SWITCH PROBES. The receptacle houses a specially designed socket to mate with the switch contact pin of the probe. The wire is soldered directly to the receptacle contact pin — therefore it requires no further removal. The SWITCH PROBE can be replaced in the receptacle without rewiring. Details on request.

Note: P201/GI also available with 4.00mm switch travel. Special request - please ask for full specification.

RECEPTACLES

R201/GI-S

STEEL / BeCu

Note: Tip styles as per P201/G-L1.7

TIP STYLES

P201/G-A-L1.7 P201/G-C/C4-L1.7 P201/G-C1-L1.7 P201/G-CL1-L1.7 P201/G-CL-L1.7

STEEL / BeCu

P201/G-CL2-L1.7 P201/G-F-L1.7 P201/G-F0/FLO-L1.7 P201/G-F1/F2/F4 POM-L1.7 (with insulated head) P201/G-FL3-L1.7

STEEL / BeCu STEEL / BeCu STEEL / BeCu NYLON STEEL / BeCu

P201/G-F7-L4

STEEL / BeCu

Note: Only available in: P201/G-F7-L4-2

Note: Also available as special with 4.00mm switch travel. Substitute L1.7 with L4 in Order Code

SPRING FORCE
Pre-load: 0.3N 1.8N 1.7N 5.0N
@ Switching Travel: 1.3N 6.0N 8.0N 12.0N
@ Working Travel: 1.3N 6.0N 8.0N 12.0N
Order Part No: -0 -1 -2 -3

P202/G-A-L2.6 P202/G-C/C1-L2.6 P202/G-D1-L2.6 P202/G-F-L2.6 P202/G-F1-L2.6 P202/G-F1 POM-L2.6 P202/G-F2-L2.6

STEEL / BeCu STEEL / BeCu STEEL / BeCu STEEL / BeCu STEEL / BeCu NYLON STEEL / BeCu

Note: Overall length insulated version = 39.8mm

PROBE ORDER CODE

P201/G - A - L1.7 - 0

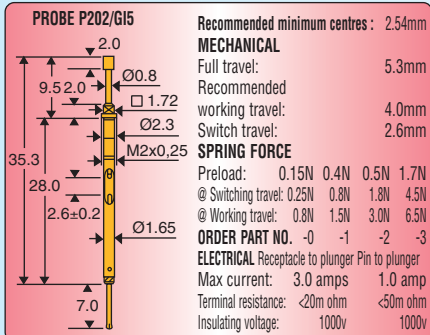
Series Tip Style Switch Travel Spring Force

Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request Purple = Minimum order quantity

P202/GI5 Series threaded switch probe for easy replacement and adjustable height
 For easy replacement of switch probes in test modules - without removing the wires.
 The test module does not have to be removed from the test table.
 The switching contact and receptacle are equipped with a special designed pin and socket system. The wire can be soldered directly to the connector pin of the receptacle
 P220/G Series short threaded switch probe available
 P200/G Series threaded switch probe for rear assembly 3.5mm centres

SPECIFICATION

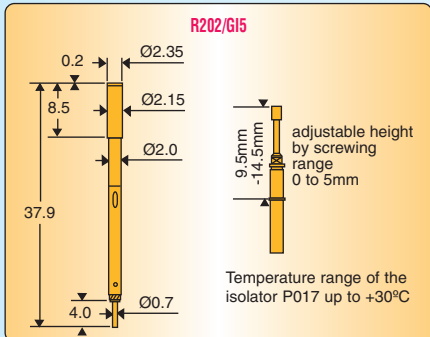
SERIES 202/GI5



Note: Also available with 4.0mm switch travel
 Special request - please ask for full specification

RECEPTACLES

RECEPTACLES



TIP STYLES

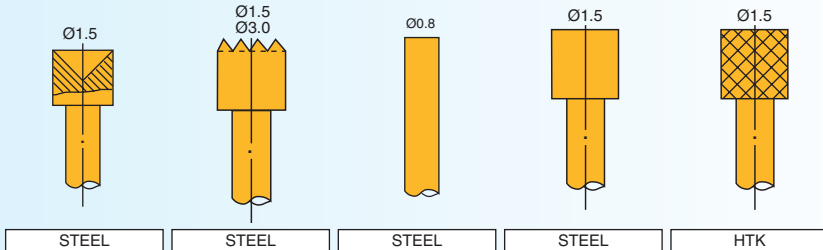
P202/GI5-A

P202/GI5-C/C1

P202/GI5-F

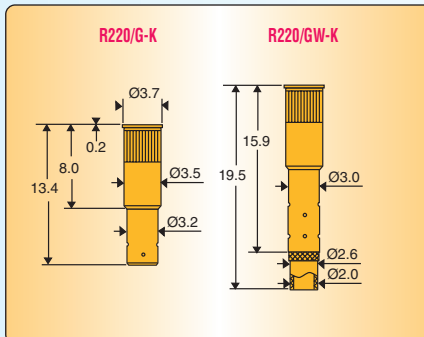
P202/GI5-F1

P202/GI5-F1-POM



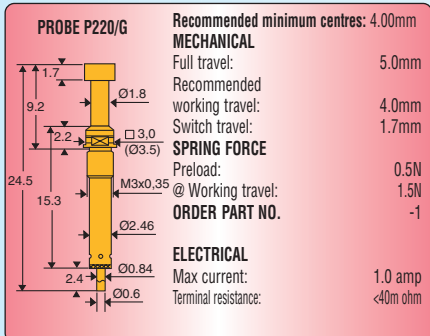
RECEPTACLES

RECEPTACLES



SPECIFICATION

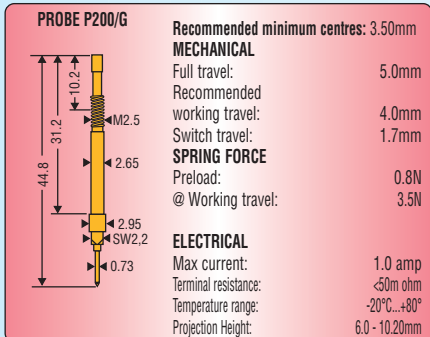
SERIES 220/G



Note: Also available with 4.0mm switch travel
 Special request - please ask for full specification

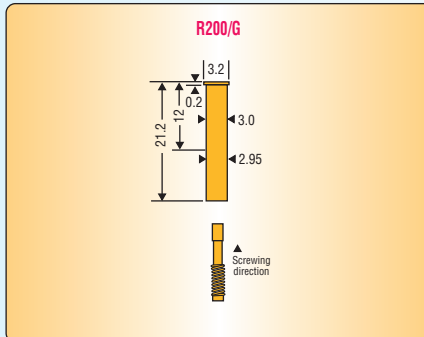
SPECIFICATION

SERIES 200/G

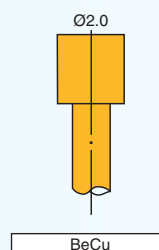


RECEPTACLES

RECEPTACLES



P200/G-F



PROBE ORDER CODE
P202/GI5 - C - 1
 Series Tip Style Switch Travel Spring Force

Note: Probe P200/G has been specially designed for Rear Assembly in various applications like multi-level modules, fixtures etc. The Rear Assembly allows an efficient, simple and quick replacement of probes in the lower levels of the application. The probe is screwed into the receptacle from the bottom side without dismantling the fixture or module. Due to the Rear Assembly the maximum diameter of the plunger is 2.0mm. The threaded P200/G prevents ejection and allows variable projection heights.

Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request Purple = Minimum order quantity



P305 Series special probes which cannot rotate. Bladed probe.
P307 Series. 2.54mm centres bladed probe. P306/G New threaded blade probe for wire harness. P28/G-YL + P28/G-YLX Threaded probe for wire harness and connection

SERIES 305

SPECIFICATION

PROBE P305

Recommended minimum centres: 5.0mm

MECHANICAL

Full travel: 5.0mm

Recommended working travel: 4.0mm

SPRING FORCE

Preload: 0.3N 0.8N

@ Working travel: 1.5N 3.0N

ORDER PART NO.

-1 -2

ELECTRICAL

Max current: 5.0 amps

Terminal resistance: <20m ohms

Recommended hole size: 3.0mm

RECEPTACLES

R60/S-23

R60-S

R60-ST

R60-W

SERIES 307

SPECIFICATION

PROBE P307

Recommended minimum centres: 2.54mm

MECHANICAL

@ Working travel: 1.5N 3.0N

ORDER PART NO.

-1 -2

Recommended operating stroke: 4.0mm

Maximum stroke: 5.0mm

ELECTRICAL

Max current: 3 amps

Contact resistance: <30m ohms

Recommended drill size with receptacle: 2.00mm

5N available on request

RECEPTACLES

R307

Ø2.2

Ø2.0

8.0

30.0

SERIES 28/G

SPECIFICATION

PROBE P28/G-YL

Recommended minimum centres: 2.5mm

MECHANICAL

Full travel: 4.4mm

Recommended working travel: 4.0mm

SPRING FORCE

Preload: 0.6N 0.6N

@ Working travel: 1.5N 3.0N

ORDER PART NO.

-1 -2

ELECTRICAL

Max current: 5.0 amps

Terminal resistance: <25m ohms

HIGH TEMP VERSION P28/G-YLX

Operating temperature version X : -40° ...250°C

RECEPTACLES

P28/G-YL

Ø2.20

Ø2.20

Ø2.0

33

TIP STYLES

P28/G-YL

Ø1.5

4.1

1.5

0.5

TIP STYLES

P305-C

P305-Q

P305-Y

P305-Y1

P305-Y3

P305-Y4

P305-Y5

P305-YL

P305-YL2

P305-Y8

P307-Y

P307-Y1

P307-Y12

P307-YA

P307-YB

P307-YC

P307-YL

P307-YV

PROBE ORDER CODE

P305 - Q - 1

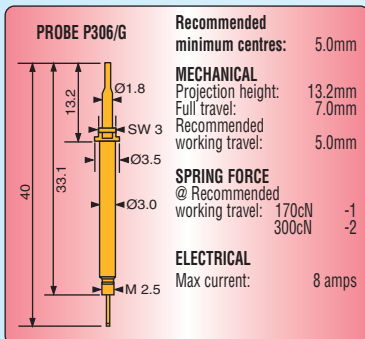
Series Tip Style Spring Force

Note: P28/G-YL is a threaded probe for Scart Sockets.
Other tip sizes available on request.

Note: Tip Material shown Black - Standard Stock Item Purple = Minimum order quantity

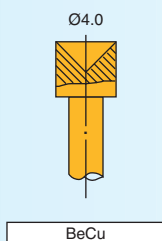
SPECIFICATION

SERIES 306/G

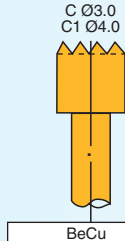


TIP STYLES

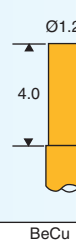
P306/G-A



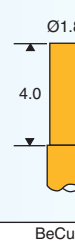
P306/G-C/C1



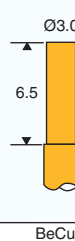
P306/G-Y



P306/G-Y1

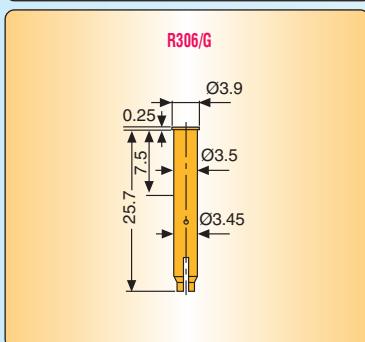


P306/G-Y2



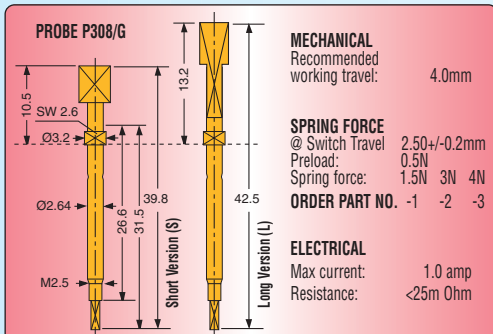
RECEPTACLES

RECEPTACLES



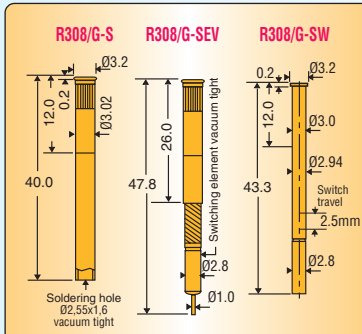
SPECIFICATION

SERIES 308/G

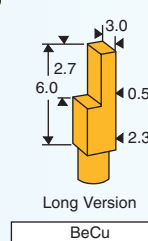


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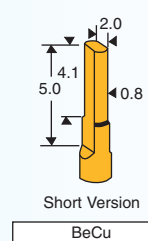
RECEPTACLES



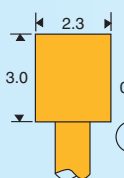
P308/G-Y



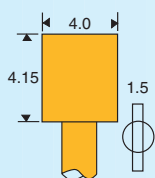
P308/G-Y1



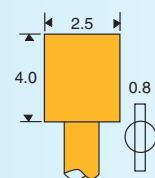
P308/G-Y21



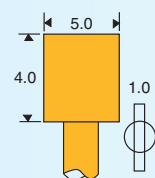
P308/G-Y24



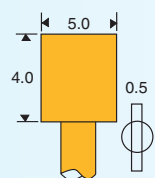
P308/G-Y22



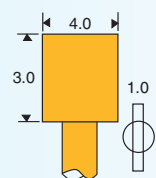
P308/G-Y23



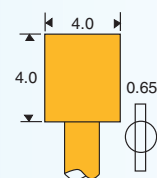
P308/G-Y3



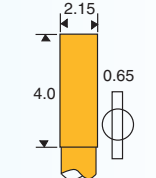
P308/G-Y4



P308/G-Y5

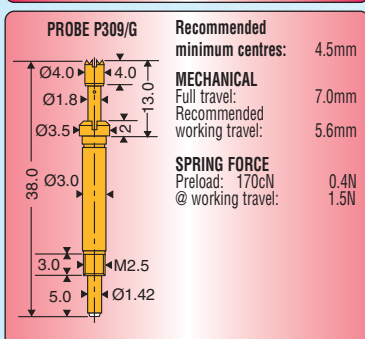


P308/G-Y6



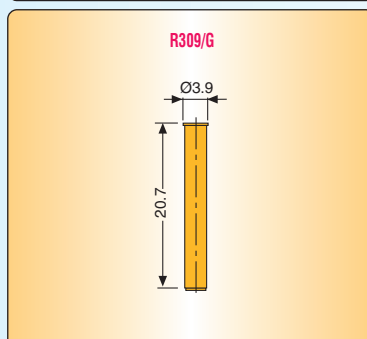
SPECIFICATION

SERIES 309/G

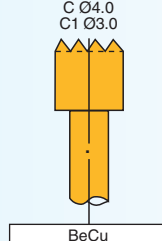


RECEPTACLES

RECEPTACLES



P309/G-C/C1



Note: Tip Material shown Black - Standard Stock Item

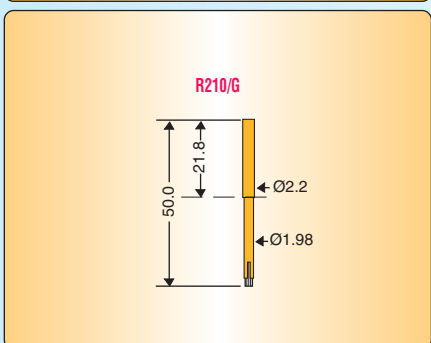
SPECIFICATION

SERIES 210/G

PROBE P210/G	Recommended minimum centres:	2.54mm
MECHANICAL		
Full travel:		5.5mm
Projection height:		40.5mm
Recommended Working travel:		5.0mm
SPRING FORCE		
Preload:	0.8N 1.2N	
@ Working travel:	10N 15N	
ORDER PART NO.		
ELECTRICAL		
Max current:		5.0 amps
Recommended drill size:		2.0mm

RECEPTACLES

RECEPTACLES



SPECIFICATION

SERIES 211/G

PROBE P211/G	Recommended minimum centres:	2.54mm
MECHANICAL		
Full travel:		5.0mm
Projection height:		40.5mm
Recommended Working travel:		4.0mm
Switch travel:		2.60mm
SPRING FORCE		
Preload:	1.0N 2.20N 4.0N	
@ Switch travel:	3.10N 6.80N 10.70N	
@ Working travel:	5N 10N 15N	
ORDER PART NO.		
ELECTRICAL		
Receptacle - Plunger Pin - Plunger		
Max current:	3.0 amps 1.0 amp	
Typical contin. Resistance:	≤20m Ohms ≤50m Ohms	
Insulating Voltage:	1000V	

SPECIFICATION

SERIES 205/G

PROBE P205/G	Recommended minimum centres:	5.0mm
MECHANICAL		
Projection height		36.50mm
Full travel:		10.0mm
Recommended working travel:		9.50mm
(except -4 spring force which is 5.50mm)		
Projection height:		36.5mm
SPRING FORCE		
Preload Series:	3N 1N 1N 10N	
@ Working travel:	15N 20N 25N 34N	
ORDER PART NO.		
ELECTRICAL		
Max current:		8.0 amps
Recommended hole size:		4.40-4.42mm

Note: P205/G cannot rotate.
For more details see Application Notes

PROBE ORDER CODE

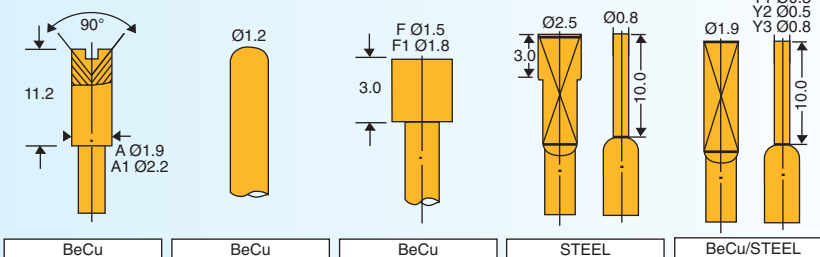
P210/G - Y1 - 1

Series Tip Style Spring Force

Note: Tip Material shown Black - Standard Stock Item

TIP STYLES

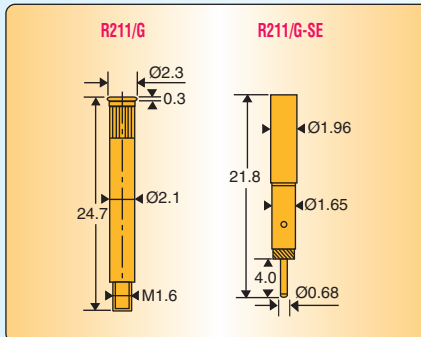
P210/G-A/A1 P210/G-D1 P210/G-F/F1 P210/G-Y P210/G-Y1/Y2/Y3



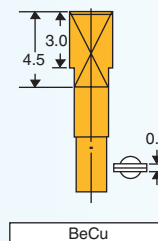
Note: All tip shapes are twist proof. The projection height is compatible with P204/G Series.
For more details see Application Notes for Push Back Test Probes.

RECEPTACLES

RECEPTACLES

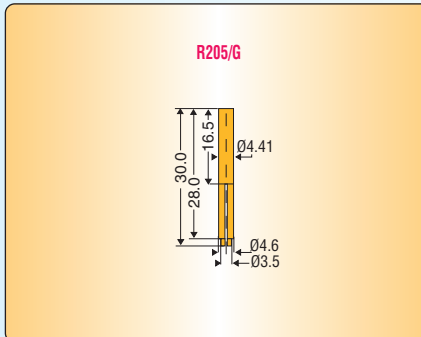


P211/G-Y

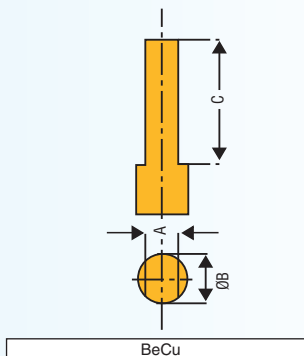


RECEPTACLES

RECEPTACLES



P205/G-Y



	A	ØB	C
Y1 =	1.0mm	2.29mm	12.00mm
Y2 =	1.40mm	2.29mm	12.00mm
Y3 =	1.60mm	2.29mm	12.00mm
Y4 =	1.80mm	2.29mm	12.00mm
Y5 =	1.50mm	2.80mm	12.00mm
Y6 =	2.00mm	2.29mm	12.00mm

P10/G and P740/G Series: New threaded probes especially designed for miniaturised connectors as used in the automotive industry
P10/G min centres 1.27mm travel 5.0mm P740/G min centres 1.91mm travel 3.0mm
P70/G Series: Very short threaded probe min centres 2.54mm
P940/G Series: new threaded version of P940 min centres 4.0mm travel 3.5mm 10amp current

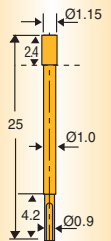
SERIES 10/G

SPECIFICATION

PROBE P10/G	Recommended minimum centres	1.27mm
	MECHANICAL	
	Full travel:	5.0mm
	Recommended Working travel:	4.0mm
	Projection height:	10.5mm
	SPRING FORCE	
	Preload:	0.2N
	@ Working travel:	1.1N
	ELECTRICAL	
	Max current:	3 amps
	Terminal resistance:	<50m ohms

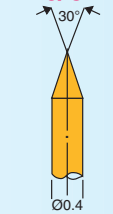
RECEPTACLES

R10/G-S



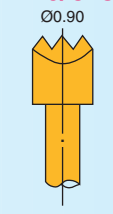
TIP STYLES

P10/G-B



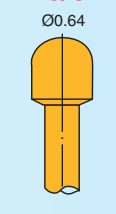
STEEL / BeCu

P10/G-C



BeCu

P10/G-D



BeCu

Note: Other tip styles — special order For probe insertion tool use PIT 10/G

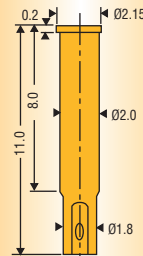
SERIES 70/G

SPECIFICATION

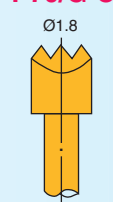
PROBE P70/G	Recommended minimum centres	2.54mm
	MECHANICAL	
	Full travel:	2.2mm
	Recommended Working travel:	1.5mm
	SPRING FORCE	
	Preload:	0.4N
	@ Working travel:	1.0N
	ELECTRICAL	
	Max current:	5 amps
	Terminal resistance:	<25m ohms
	Temperature range:	-20°C...+80°C
	Projection height:	4.5mm

RECEPTACLES

R70/G-S

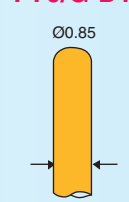


P70/G-C



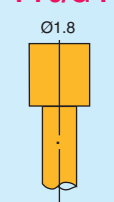
BeCu

P70/G-D1



BeCu

P70/G-F



BeCu

Note: The compact dimensions of this pin are especially suitable for applications with limited space. This feature makes the P70/G very practical for small sized wire harness modules and interface solutions. It can also be implemented as a threaded interface pin. Using the tools it is screwed into the receptacle R70/G-S. The receptacle is vacuum tight after soldering of the wire. Order number for insertion tool PIT70/G-1.8 or insertion torque tool PIT70/GT.

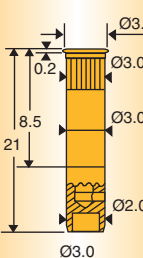
SERIES 940/G

SPECIFICATION

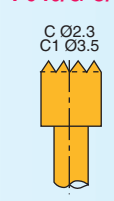
PROBE P940/G	MECHANICAL	
	Spacing:	4.0mm
	Full travel:	3.5mm
	Recommended Working travel:	2.8mm
	SPRING FORCE	
	Preload:	0.25N 0.30N 0.45N 0.50N
	@ Working travel:	0.8N 1.2N 1.5N 2.5N
	ORDER PART NO.	-0 -1 -2
	ELECTRICAL	
	Max current:	10 amps
	Terminal resistance:	<10m ohms

RECEPTACLES

R940/G-GR

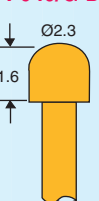


P940/G-C/C1



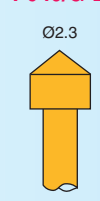
STEEL

P940/G-D



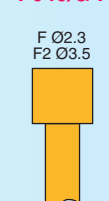
STEEL

P940/G-E



STEEL

P940/G-F



STEEL

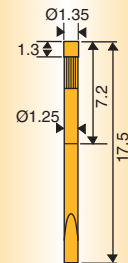
SERIES 740/G

SPECIFICATION

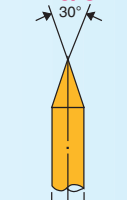
PROBE P740/G	Recommended minimum centres	1.91mm
	MECHANICAL	
	Full travel:	3.0mm
	Recommended Working travel:	2.4mm
	SPRING FORCE	
	Preload:	0.2N
	@ Working travel:	0.8N
	ELECTRICAL	
	Max current:	2 amps
	Terminal resistance:	<20m ohms
	Recommended hole size:	1.25mm

RECEPTACLES

R740/G-S

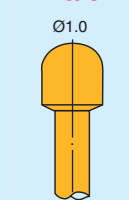


P740/G-B



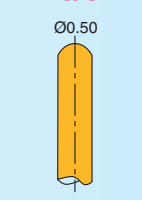
STEEL

P740/G-D



STEEL

P740/G-D1



STEEL

Note: For probe insertion tool use PIT 740/G

Note: Tip styles: A, C, F, G, H all Ø1.5 May be available later. Please enquire.

PROBE ORDER CODE

P740/G - D

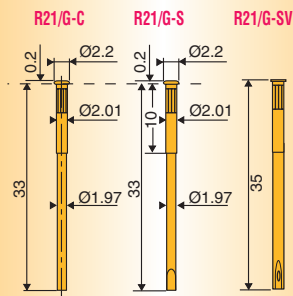
Series Tip Style

Note: Tip Material shown Black - Standard Stock Item

SPECIFICATION

PROBE P21/G	Recommended minimum centres:	2.54mm
MECHANICAL		
Full travel:		5.3mm
Recommended working travel:		4.0mm
SPRING FORCE		
Preload:	0.3N 0.4N 0.35N 0.75N 1.0N	
@ Working travel:	0.7N 1.0N 1.5N 2.25N 3.0N	
ORDER PART NO.	-07 -0 -1 -2x -2	
ELECTRICAL		
Max current:		3.0 amps
Terminal resistance:		<25m ohms
Recommended hole size:		2.0mm

RECEPTACLES

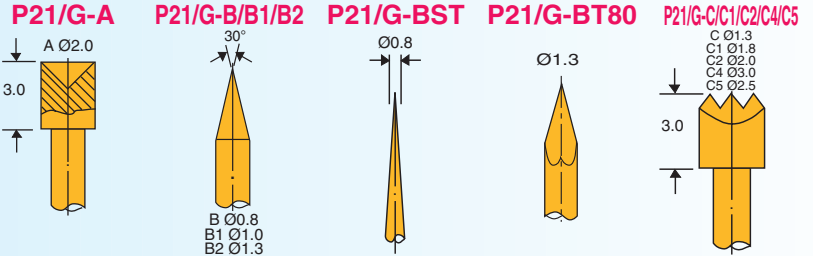


NOTE: For high current P21/G please see page 42

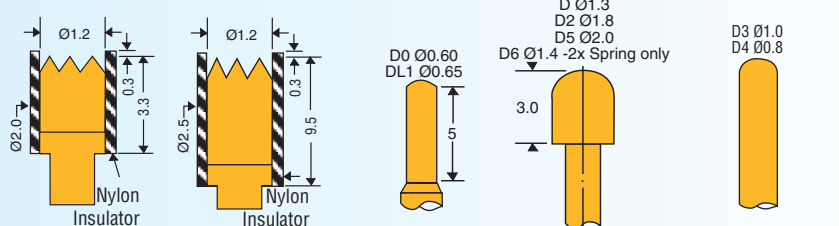
SPECIFICATION

PROBE P28/G	Recommended minimum centres:	2.54mm
MECHANICAL		
Full travel:		5.3mm
Recommended working travel:		4.0mm
SPRING FORCE		
Preload:	0.35N 1.0N	
@ Working travel:	1.5N 3.0N	
ORDER PART NO.	-1 -2	
ELECTRICAL		
Max current:		3.0 amps
Terminal resistance:		<25m ohms
Recommended hole size:		2.0mm

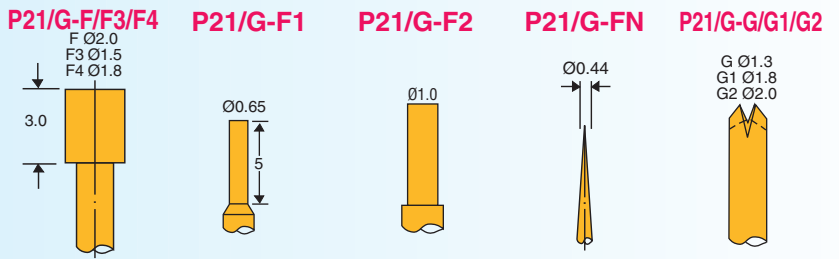
TIP STYLES



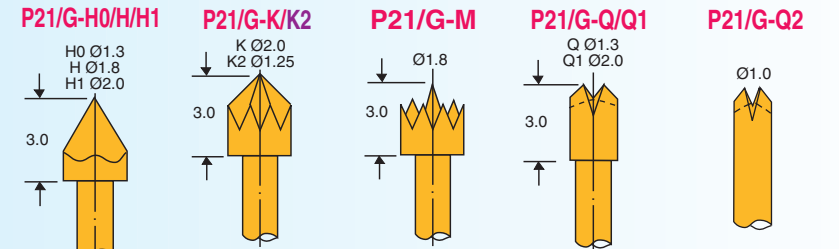
P21/G-A P21/G-B/B1/B2 P21/G-BST P21/G-BT80 P21/G-C/C1/C2/C4/C5



P21/G-C.INS P21/G-C1.INS P21/G-D0/DL1 P21/G-D/D2/D5/D6 P21/G-D3/D4

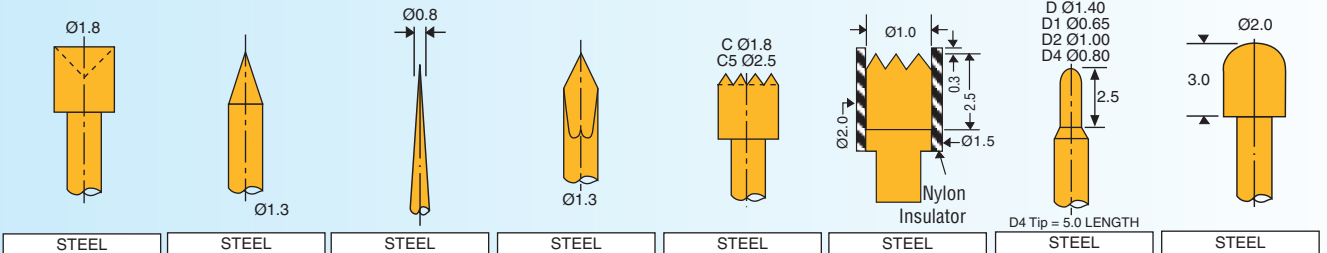


P21/G-F/F3/F4 P21/G-F1 P21/G-F2 P21/G-FN P21/G-G/G1/G2

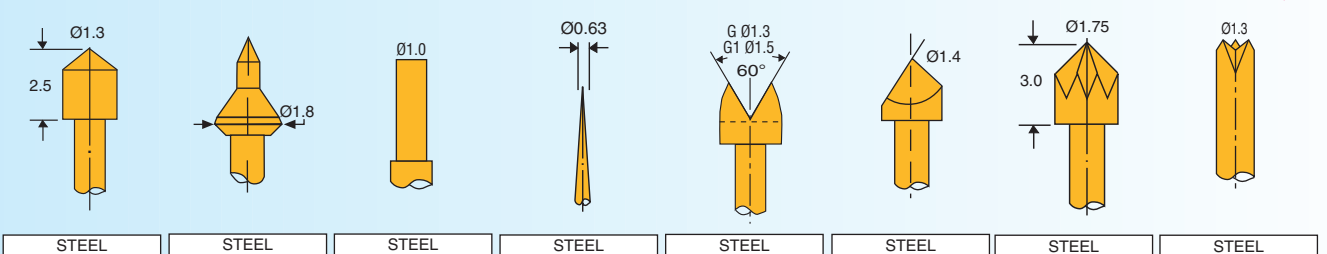


P21/G-H0/H/H1 P21/G-K/K2 P21/G-M P21/G-Q/Q1 P21/G-Q2

P28/G-A1 P28/G-B P28/G-BST P28/G-BT80 P28/G-C/C5 P28/G-C.INS P28/G-D/D1/D2/D4 P28/G-D3



P28/G-E P28/G-EB P28/G-F P28/G-FN P28/G-G/G1 P28/G-H P28/G-K3 P28/G-Q5



Note: R21/G-S and R21/G-C are for both Series P21/G and P28/G

PROBE ORDER CODE

P21/G - B - 0

Series Tip Style Spring Force

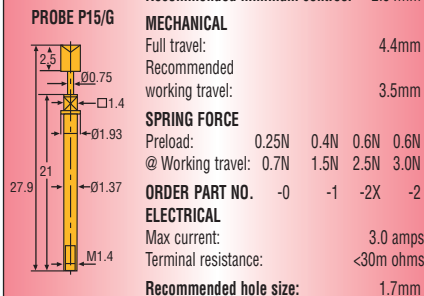
Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request Purple - Minimum order quantity

Threaded probes used for automotive and cable harness testing. P15/G has 4.40mm travel and 2.54mm centres. P60/G has 5.50mm travel and 4mm centres. P61/G longer version of P60/G.

SPECIFICATION

SERIES 15/G

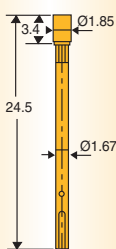
PROBE P15/G



RECEPTACLES

RECEPTACLES

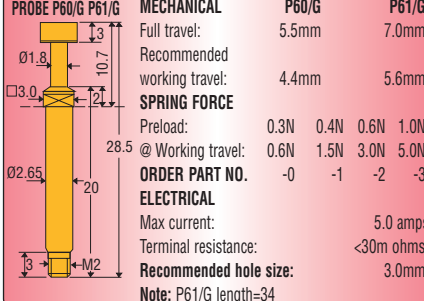
R15/G-S



SPECIFICATION

SERIES 60/G / 61/G

PROBE P60/G P61/G



NOTE: For high current P60/G please see page 42

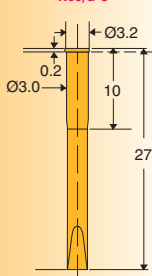
P61/G Tip Styles available refer to drawings above B and BA. -1, -2 Spring only

Note: Use R60/G receptacle

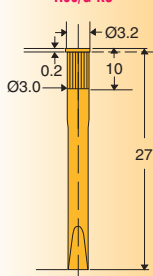
RECEPTACLES

RECEPTACLES

R60/G-S



R60/G-KS



PROBE ORDER CODE

P15/G - B - 0

Series Tip Style Spring Force

Note: Tip Material shown Black - Standard Stock Item
Blue - Optional On Request

TIP STYLES

P15/G-A



STEEL

P15/G-B



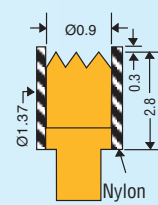
STEEL

P15/G-C/C1



STEEL

P15/G-C.INS



STEEL

P15/G-D4



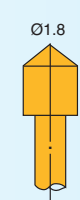
STEEL

P15/G-D1/D3



STEEL / BeCu

P15/G-E



STEEL / BeCu

P15/G-F



STEEL / BeCu

P15/G-F3



STEEL / BeCu

P15/G-G/G1



STEEL / BeCu

P15/G-H/H1



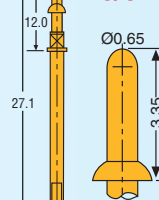
STEEL

P15/G-K



STEEL

P15/G-D7*



STEEL

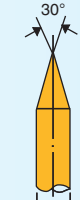
Note:
P15/G-D7
Full travel = 2.75mm
Working travel = 2.0mm

P60/G-A/A4



STEEL

P60/G-B



STEEL / BeCu

P60/G-BA



STEEL

P60/G-BST



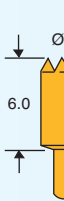
STEEL

P60/G-C/C1/C2/C4



STEEL / BeCu

P60/G-CL



STEEL

P60/G-C6



STEEL

P60/G-D1/D2



STEEL

P60/G-DL2



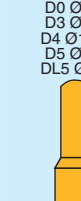
BeCu

P60/G-D6



STEEL

P60/G-D0/D3/D4/D5/DL5



STEEL

P60/G-F0/F1/F8



STEEL / BeCu

P60/G-F2



STEEL / BeCu

P60/G-F3/F4/F5/F6/F7



STEEL

P60/G-G1/G2



STEEL / BeCu

P60/G-G4



STEEL

P60/G-H1/H2/H3/H5



STEEL / BeCu

P60/G-KF/KF1



STEEL

P60/G-K



STEEL

P60/G-K1/K2



STEEL

P60/G-L



STEEL

P60/G-W



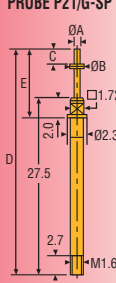
STEEL

Note: Purple = Minimum order quantity

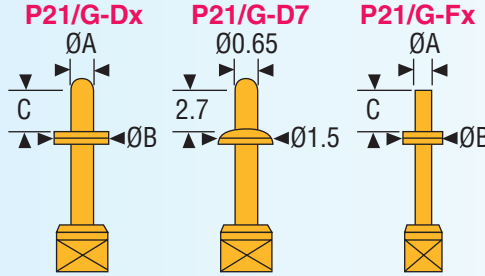
SPECIFICATION

SERIES 21/G-SP

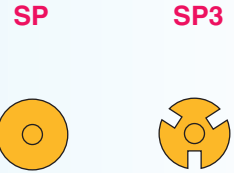
PROBE P21/G-SP	
MECHANICAL	
Full travel:	5mm
Recommended working travel:	4mm
SPRING FORCE	
Preload:	0.35N 0.8N
@ Working travel:	1.5N 3.0N
ORDER PART NO.	-1 -2
Refer to page 23 for receptacle R21/G-S	
Other springs available on request	



TIP STYLES



TYPES



STEEL / BeCu

STEEL / BeCu

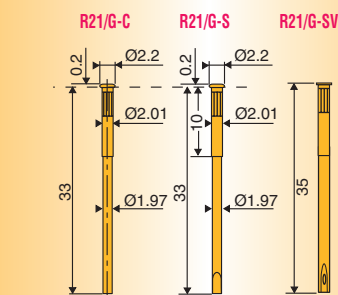
ORDER PART NO	TIP DIAMETER "A"	COLLAR DIAMETER "B"	TIP LENGTH "C"	OAL LENGTH "D"
P21/G-D1-x-SP/SP3	0.80	2.5	2.8	36.1
P21/G-D2-x-SP/SP3	0.65	3.0	3.4	36.3
P21/G-D3-x-SP/SP3	1.0	2.5	2.6	35.5
P21/G-D4-x-SP/SP3	0.8	2.5	4.6	37.9
P21/G-D5-x-SP/SP3	0.8	3.5	3.2	36.1
P21/G-D6-x-SP/SP3	0.8	2.3	3.2	36.1
P21/G-D7-x-SP	0.65	1.5	2.7	36.0
P21/G-D8-x-SP3	0.8	2.8	5.3	38.2
P21/G-D9-x-SP3	0.8	2.5	4.0	36.9
P21/G-D10-x-SP	1.0	1.8	2.0	35.3
P21/G-D11-x-SP3	1.2	2.5	2.2	35.1
P21/G-D12-x-SP3	1.2	2.5	2.5	35.4
P21/G-D13-x-SP3	1.5	3.0	2.5	35.4
P21/G-F1-x-SP	0.7	1.8	2.0	35.3
P21/G-F2-x-SP/SP3	1.0	2.5	3.5	36.8
P21/G-F3-x-SP/SP3	1.0	2.3	3.3	36.2
P21/G-F4-x-SP3	1.0	2.5	3.0	35.9
P21/G-F5-x-SP3	1.0	2.5	3.18	38.6
P21/G-F6-x-SP/SP3	1.3	2.5	3.0	35.9
P21/G-F7-x-SP3	1.4	3.5	1.6	36.9
P21/G-F8-x-SP3	1.5	3.5	2.0	34.9
P21/G-F9-x-SP/SP3	1.5	3.0	2.5	35.4
P21/G-F10-x-SP3	1.8	3.5	1.6	36.9

Other sizes available on request for both types.

Note: SP3 type requires special tool. Details on request.

RECEPTACLES

RECEPTACLES



PROBE ORDER CODE

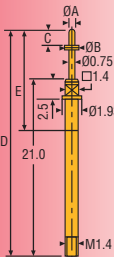
P21/G - Dx-X - SP or SP3

Series Tip Style Spring Type

Note: Tip Material shown Black - Standard Stock Item Blue - Optional On Request Purple = Minimum order quantity

SPECIFICATION

PROBE P15/G-SP



MECHANICAL

Full travel: 4.4mm
Recommended working travel: 3.5mm

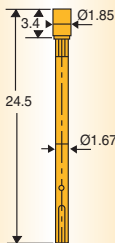
SPRING FORCE

Preload: 0.4N 0.6N
@ Working travel: 1.5N 3.0N
ORDER PART NO. -1 -2

Other springs available on request

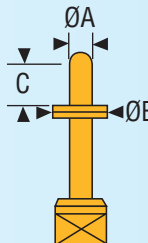
RECEPTACLES

R15/G-S



TIP STYLE

P15/G-Dx



TYPE

SP



STEEL / BeCu

ORDER PART NO

TIP DIAMETER "A"

COLLAR DIAMETER "B"

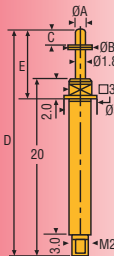
TIP LENGTH "C"

OAL LENGTH "D"

P15/G-D1-x-SP	0.65	1.5	4.0	29.9
P15/G-D2-x-SP	0.65	1.5	2.8	28.7

SPECIFICATION

PROBE P60/G-SP



MECHANICAL

Full travel: 5mm
Recommended working travel: 4mm

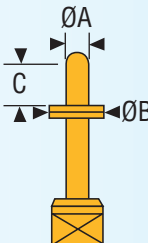
SPRING FORCE

Preload: 0.5N 0.5N
@ Working travel: 1.5N 3.0N
ORDER PART NO. -1 -2

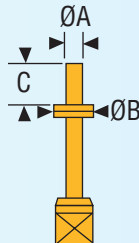
Other springs available on request

TIP STYLES

P60/G-Dx



P60/G-Fx



TYPES

SP



SP3



STEEL / BeCu

STEEL / BeCu

ORDER PART NO

TIP DIAMETER "A"

COLLAR DIAMETER "B"

TIP LENGTH "C"

OAL LENGTH "D"

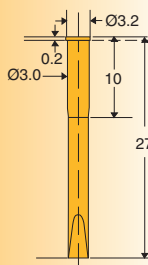
P60/G-D1-x-SP	1.0	3.5	2.8	29.3
P60/G-D2-x-SP	1.0	3.5	4.0	30.5
P60/G-D3-x-SP	1.4	3.5	2.4	28.9
P60/G-D4-x-SP	1.4	3.5	3.3	29.8
P60/G-D5-x-SP	1.4	3.5	4.0	30.5
P60/G-F1-x-SP or SP3	1.3	4.7	2.7	29.2
P60/G-F2-x-SP or SP3	1.3	4.7	3.6	30.1
P60/G-F3-x-SP or SP3	1.3	4.7	5.3	31.8
P60/G-F4-x-SP	1.4	3.5	1.7	28.2
P60/G-F5-x-SP	1.4	3.5	2.0	28.5
P60/G-F6-x-SP	1.4	3.5	3.0	29.5
P60/G-F7-x-SP or SP3	1.8	4.5	1.5	28.0
P60/G-F8-x-SP	2.3	3.5	1.8	28.3
P60/G-F9-x-SP	2.3	3.5	2.0	28.5
P60/G-F10-x-SP or SP3	4.0	5.0	2.0	28.5

Other sizes available on request for both types.

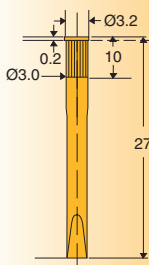
Note: SP3 requires special tool

RECEPTACLES

R60/G-S



R60/G-KS

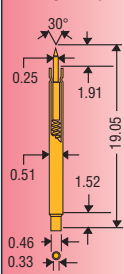


PROBE ORDER CODE
P60/G - Dx-X - SP or SP3
Series Tip Style Spring Type

SPECIFICATION

SERIES 702

PROBE P702



Recommended minimum centres: 0.63mm

MECHANICAL

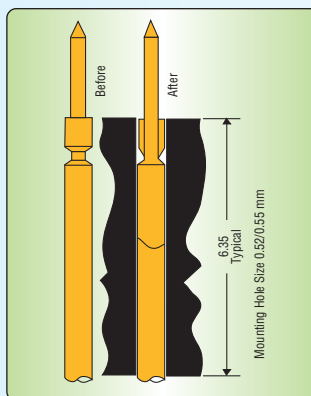
Full travel: 1.91mm
Recommended working travel: 1.27mm

SPRING FORCE

Preload: 0.11N
@ Working travel: 0.39N

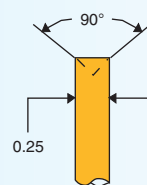
ELECTRICAL

Max current: 2 amps
Terminal resistance: <50m ohms
Recommended hole size: 0.7mm



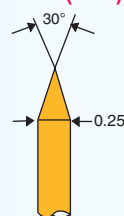
TIP STYLES

P702-A-(W30)



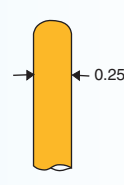
BeCu

P702-B-(W30)



BeCu

P702-DI-(W30)



BeCu

Note: "W30" signifies supplied with 30" (76cms) of wire attached

SPECIFICATION

SERIES 720

PROBE P720



Recommended minimum centres: 0.76mm

MECHANICAL

Full travel: 2.00mm
Recommended working travel: 1.35mm

SPRING FORCE

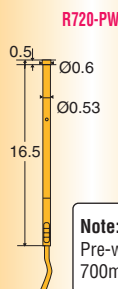
Preload: 0.13N
@ Working travel: 0.30N

ELECTRICAL

Max current: 0.5 amp
Terminal resistance: <150m ohms

RECEPTACLES

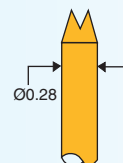
RECEPTACLES



Note: Pre-wired with 700mm of wire

TIP STYLE

P720-Q3



STEEL

The top of the P702 barrel is flared, making its design different from other probes. This allows them to be 'pressed' directly into the probe plate, eliminating the need for a receptacle or gluing. This 'press-fit' feature also permits it to be installed in a variety of probe plate thicknesses and to be replaced relatively easily.

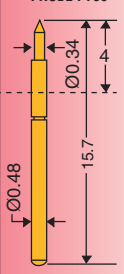
The P702 is available either with or without 76cms of 30AWG insulated wire attached and is installed into the probe plate with a probe insertion tool (PIT 702) or a pair of tweezers. Shrink tubing can be used on alternate probes to provide strain relief in the termination and to reduce the possibility of electrical shorting.

To replace the probe, the wire is cut at the termination and the probe is then pushed out of the probe plate.

SPECIFICATION

SERIES 709

PROBE P709



Recommended minimum centres: 1.0mm

MECHANICAL

Full travel: 2.3mm
Recommended working travel: 2.0mm

SPRING FORCE

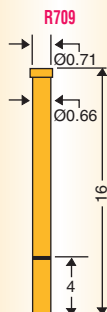
Preload: 0.1N
@ Working travel: 0.5N

ELECTRICAL

Max current: 0.5 amp
Terminal resistance: <65m ohms
Recommended hole size: 0.7mm

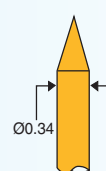
RECEPTACLES

RECEPTACLES



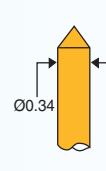
TIP STYLES

P709-B



BeCu

P709-E1

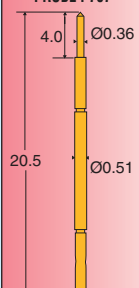


BeCu

SPECIFICATION

SERIES 707

PROBE P707



Recommended minimum centres: 0.70mm

MECHANICAL

Full travel: 2.5mm
Recommended working travel: 2.0mm

SPRING FORCE

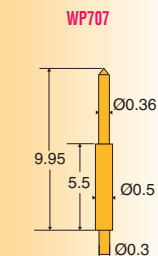
Preload: 0.1N
@ Working travel: 0.5N ±20%

ELECTRICAL

Max current: 1.0 amp
Terminal resistance: <70m ohms
Recommended hole size: 0.7mm

RECEPTACLES

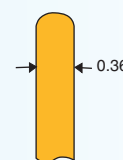
RECEPTACLES



N.B. Connecting plug WP707 is also available on request with 500mm insulated solid wire (0.05mm² / AWG30). Part Number R707-PW

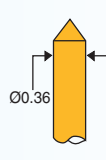
TIP STYLES

P707-D1



STEEL

P707-E1



STEEL

PROBE ORDER CODE
P702 - B (- W30)
Series Tip Style Optional

Note: Tip Material shown Black - Standard Stock Item

SERIES 700

SPECIFICATION

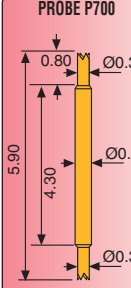
PROBE P700

Recommended minimum centres: 0.75mm

MECHANICAL
Full travel: 1.0mm
Recommended working travel: 0.5mm

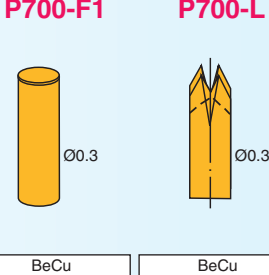
SPRING FORCE
Preload: 0.2N
@ Working travel: 0.4N ±20%

ELECTRICAL
Max current: 1.5 amps
Terminal resistance: <50m ohms



TIP STYLES

P700-F1 P700-L



BeCu BeCu

SPECIFICATION

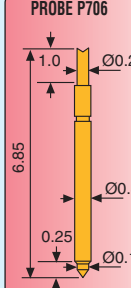
PROBE P706

Recommended minimum centres: 0.5mm

MECHANICAL
Full travel: 0.75mm
Recommended working travel: 0.65mm

SPRING FORCE
@ Working travel: 0.2N ±20%

ELECTRICAL
Max current: 0.15 amp
Terminal resistance: <60m ohms



SERIES 706

SPECIFICATION

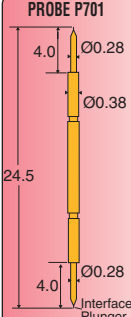
PROBE P701

Recommended minimum centres: 0.5mm

MECHANICAL
Full travel: 2.5mm
Recommended working travel: 2.0mm

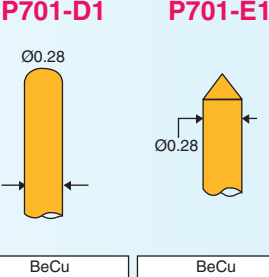
SPRING FORCE
Preload: 0.10N
@ Working travel: 0.50N

ELECTRICAL
Max current: 0.5 amp
Terminal resistance: <350m ohms
Interface plunger: BeCu / gold plated



TIP STYLES

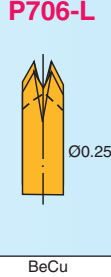
P701-D1 P701-E1



BeCu BeCu

TIP STYLE

P706-L



BeCu

SERIES 701

SPECIFICATION

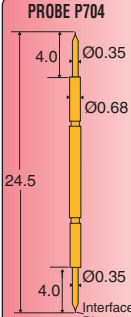
PROBE P704

Recommended minimum centres: 1.0mm

MECHANICAL
Full travel: 2.5mm
Recommended working travel: 2.0mm

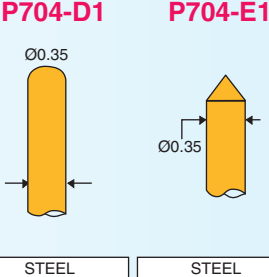
SPRING FORCE
Preload: 0.30N
@ Working travel: 0.85N

ELECTRICAL
Max current: 1.5 amps
Terminal resistance: <75m ohms
Interface plunger: Steel / nickel plated



TIP STYLES

P704-D1 P704-E1



STEEL STEEL

SPECIFICATION

PROBE P708

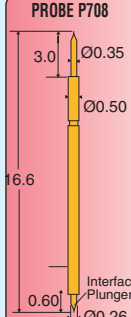
Recommended minimum centres: 0.7mm

MECHANICAL
Full travel: 2.5mm
Recommended working travel: 2.0mm

SPRING FORCE
Preload: 0.10N
@ Working travel: 0.50N

ELECTRICAL
Max current: 1.0 amp
Terminal resistance: <70m ohms

Also available with overall length of 24.5mm / projection height 4mm Order part No: P708L-E1



SERIES 708

SPECIFICATION

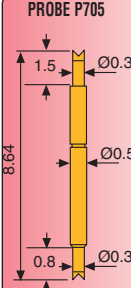
PROBE P705

Recommended minimum centres: 0.75mm

MECHANICAL
Full travel: 1.5mm
Recommended working travel: 1.0mm

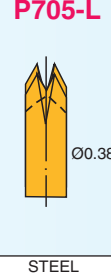
SPRING FORCE
Preload: 0.2N
@ Working travel: 0.35N ±20%

ELECTRICAL
Max current: 0.5 amp
Terminal resistance: <50m ohms



TIP STYLE

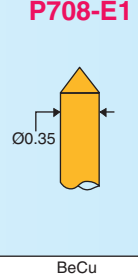
P705-L



STEEL

TIP STYLE

P708-E1



BeCu

SERIES 705

PROBE ORDER CODE

P704 - D1

Séries Tip Style

SPECIFICATION

SERIES 730

	PROBE P730	MECHANICAL	
		Full travel:	2.54mm
		Recommended working travel:	1.70mm
		Minimum centres:	1.27mm
		SPRING FORCE	
		Preload:	0.3N
		@ Working travel:	1.0N
		ORDER PART NO.	
		ELECTRICAL	
		Max current:	1 amp
		Terminal resistance:	<30m ohms
		Recommended hole size:	0.9mm

Note: Other springs available on request

RECEPTACLES

SERIES 730

R730-C	R730-C-F	R730-S	R730-S-F	R730-3-36
R730-W/W1 Details on request				

SPECIFICATION

SERIES 740

	PROBE P740	MECHANICAL	
		Full travel:	3.0mm
		Recommended working travel:	2.4mm
		Minimum centres:	1.91mm
		SPRING FORCE	
		Preload:	0.3N 0.45N 0.9N
		@ Working travel:	0.8N 1.1N 1.87N
		ORDER PART NO.	- -1 -2
		ELECTRICAL	
		Max current:	2 amps
		Terminal resistance:	<20m ohms
		Recommended hole size:	1.40mm

Note: "-2" new spring option 1.87N on most tip styles MOQ100

RECEPTACLES

SERIES 740

R740-C	R740-P	R740-S	R740-W
R740-3-20 Blue wired receptacle 20" wire			

PROBE ORDER CODE

P730 - B
 Series Tip Style

Note: Tip Material shown Black - Standard Stock Item
 Blue - Optional On Request Purple - Minimum order quantity

TIP STYLES

P730-A	P730-B	P730-*C/C1	P730-C21	P730-D
STEEL / BeCu	STEEL / BeCu	STEEL / BeCu	BeCu	STEEL / BeCu

P730-D1/D2/D3 P730-ED P730-E/E1 P730-F1/F2 P730-*H/H1 P730-L12

STEEL / BeCu	BeCu	BeCu	STEEL / BeCu	STEEL / BeCu	BeCu

Note: R730-3-36
 "-36" specifies wire length required in inches. 18", 24", 30"
 also available.

Note: P730-K 0.90 Available

SPECIFICATION

SERIES 734

	PROBE P734	MECHANICAL	
		Full travel:	1.27mm
		Recommended working travel:	1.27mm
		Minimum centres:	1.27mm
		SPRING FORCE	
		Preload:	0.4N
		@ Working travel:	0.9N
		ELECTRICAL	
		Max current:	3 amps
		Terminal resistance:	<35m ohms
		Recommended hole size:	0.9mm

P740-A	P740-B	P740-BT80	P740-C/C1	P740-D	P740-D1/D3/D2
BeCu	STEEL	STEEL	STEEL / BeCu	BeCu	BeCu

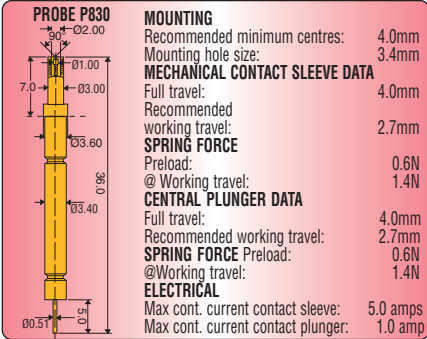
P740-E/E2	P740-E1	P740-F/F2	P740-F1	P740-H/H2/H3
BeCu	BeCu	STEEL / BeCu	BeCu	STEEL / BeCu

P740-K	P740-L	P740-P	P740-Q/Q1/Q2	P740-SU
BeCu	BeCu	BeCu	STEEL / BeCu	BeCu

Series Tip Style

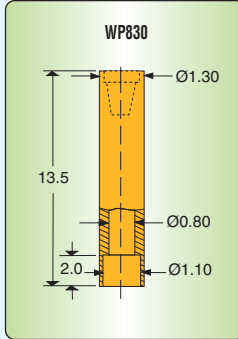
SPECIFICATION

SERIES 830



WIRE PLUG

WIRE PLUG



TIP STYLES

P830-E2



Ø1.0

BeCu

P830-W

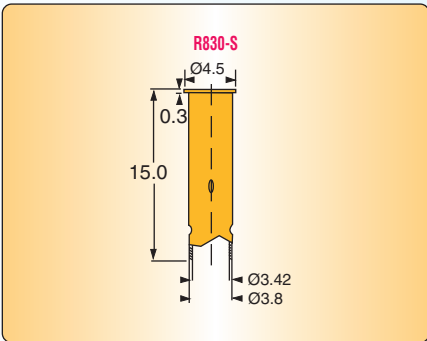


Ø1.0

BeCu

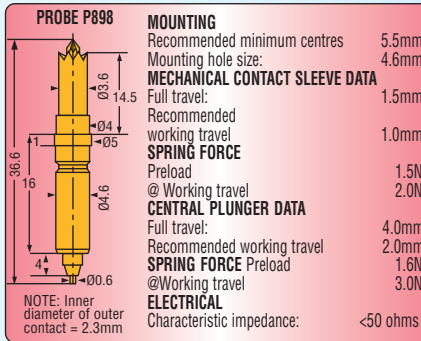
RECEPTACLES

RECEPTACLES



SPECIFICATION

SERIES 898



P898-K



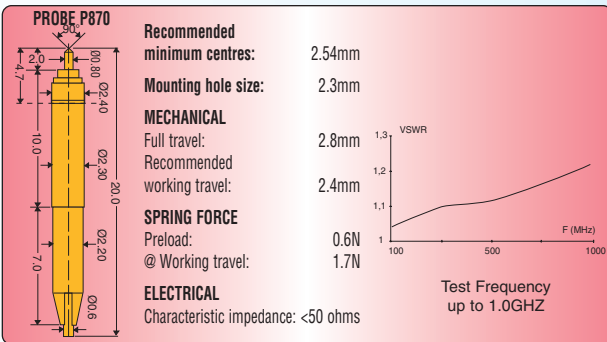
BeCu

Note: Test frequency up to 4 GHz

Note: Uses Wire Plug WP870

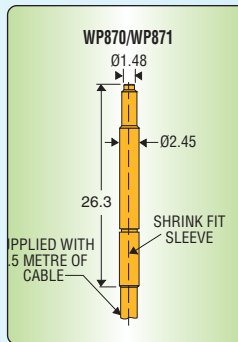
SPECIFICATION

SERIES 870

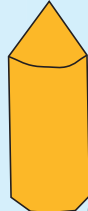


WIRE PLUG

WIRE PLUG



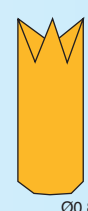
P870-E



Ø0.8

BeCu

P870-L



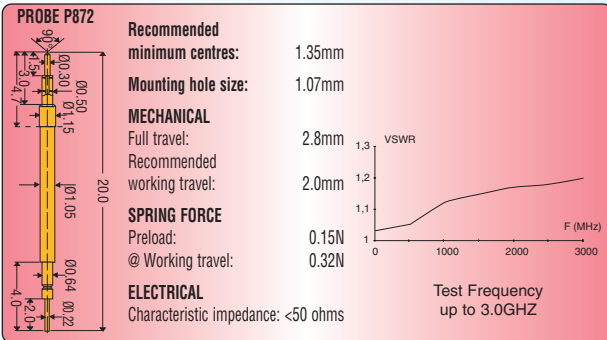
Ø0.8

BeCu

Note: Two alternative wire plugs are available.
WP870 for min. centres of 3.5mm length of cable = 1.5 metres
WP871 for min. centres of 2.54mm length of cable = 1.5 metres

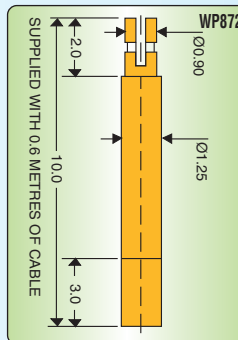
SPECIFICATION

SERIES 872



WIRE PLUG

WIRE PLUG



P872-E



Ø0.3

BeCu

Note: For WP870/871/872 SMA/SMB connector available fitted on request.
Free standing or bulkhead. Please specify length of cable required.

PROBE ORDER CODE

P830 - W

Series Tip Style

Note: Tip Material shown Black - Standard Stock Item

Series P900 the shortest probe available on the market, 3.0mm centres less than 7mm length
Series P912 is a short probe for 1.9mm centres
Series P975 is a finer pitch version of the 900, for 1.9mm centres
Series P995 is a longer version of 900 also for 3.0mm centres

SERIES 900

SPECIFICATION

PROBE P900-C/D/F/P/Q

PROBE P900-B

TECHNICAL
Minimum centres: 3.00mm

MECHANICAL
SPRING FORCE
Preload: 0.7N
@ Working travel: 2.0N
Working travel: 1.0mm
Maximum travel: 1.2mm

ELECTRICAL
Max current: 1.5 amps
Terminal resistance: <20m ohms

Recommended hole size:
with receptacle: 1.7mm
without receptacle: 2.30mm
2.00mm

TIP STYLES

P900-B

STEEL

P900-C

BeCu

P900-C1

BeCu

P900-D

BeCu

P900-F

BeCu

P900-P

BeCu

P900-L

BeCu

RECEPTACLES

RECEPTACLES

R900-2

R900-5

R900-13

R900-S

SERIES 975

SPECIFICATION

PROBE P975-D1

Recommended minimum centres: 1.9mm

MECHANICAL
Full travel: 1.20mm
Recommended working travel: 1.00mm

SPRING FORCE
Preload: 0.15N 0.25N
@ Working travel: 0.5N 1.0N
ORDER PART NO. -0 -1

ELECTRICAL
Max current: 1.0 amp
Terminal resistance: <20m ohms
Operating temperature: -20°C to +80°C

RECEPTACLES

R975-S

TIP STYLES

P975-D1

BeCu

P975-L

BeCu

SERIES 995

SPECIFICATION

PROBE P995-D1

Recommended minimum centres: 3.0mm

MECHANICAL
Full travel: 4.0mm
Recommended working travel: 3.30mm

SPRING FORCE
Preload: 0.25N
@ Working travel: 2.0N

ELECTRICAL
Max current: 1.0 amp
Terminal resistance: <20m ohms

P995-D1

BeCu

SPECIFICATION

PROBE P912-D

Recommended minimum centres: 1.9mm

MECHANICAL
Full travel: 1.20mm
Recommended working travel: 0.80mm

SPRING FORCE
Preload: 0.40N
@ Working travel: 0.85N

ELECTRICAL
Max current: 1.0 amp
Terminal resistance: <20m ohms

Note: For receptacles use R900-2,-5,-S, see above

PROBE ORDER CODE

P900 - B

Series Tip Style

Note: Tip Material shown Black - Standard Stock Item

P605 for all applications that require a low projection height.
Also used as interface contact probe for 1.27mm grid fields. Compatible with P970.
P620 for all applications that require a low height. The stranded wire is soldered directly to the lower part of the spring contact probe.
P790 suited for a variety of interface applications. The probes combine a low projection height with a high spring force.
P780-B is an example of a special contact probe manufactured to meet a customers very stringent military requirements.

SERIES 605

SPECIFICATION

PROBE P605

Recommended minimum centres: 1.27mm

MECHANICAL

Full travel: 1.20mm

Recommended working travel: 0.80mm

SPRING FORCE

Preload: 0.3N

@ Working travel: 0.75N

ELECTRICAL

Max current: 1 amp

Terminal resistance: <70m ohms

RECEPTACLES

R605-W

TIP STYLES

P605-A

STEEL

P605-D1

STEEL

P605-E

STEEL

P605-K

STEEL

Note: Both P620 and P780 are suitable for soldering directly into a PCB

SERIES 620

SPECIFICATION

PROBE P620

Recommended minimum centres: 2.54mm

MECHANICAL

Full travel: 1.60mm

Recommended working travel: 1.30mm

SPRING FORCE

Preload: 0.4N 0.4N

@ Working travel: 0.75N 1.3N

ORDER PART NO.

- -1

ELECTRICAL

Max current: 3 amps

Terminal resistance: <30m ohms

RECEPTACLES

P620-D1

STEEL

P620-E1

STEEL

SERIES 790

SPECIFICATION

PROBE P790

Recommended minimum centres: 2.70mm

MECHANICAL

Full travel: 2.20mm

Recommended working travel: 1.50mm

SPRING FORCE

Preload: 0.4N

@ Working travel: 1.3N

ELECTRICAL

Max current: 1.5 amps

Terminal resistance: <20m ohms

RECEPTACLES

P790-D

BeCu

SERIES 795

SPECIFICATION

PROBE P795

Recommended minimum centres: 2.70mm

MECHANICAL

Full travel: 3.2mm

Recommended working travel: 2.5mm

SPRING FORCE

Preload: 0.4N

@ Working travel: 1.5N

ELECTRICAL

Max current: 1.5 amps

Terminal resistance: <20m ohms

RECEPTACLES

P795-D1

BeCu

SERIES 780

SPECIFICATION

PROBE P780

Recommended minimum centres: 3.0mm

MECHANICAL

Full travel: 3.0mm

Recommended working travel: 2.6mm

SPRING FORCE

Preload: 1.0N

@ Working travel: 4.5N

SPECIAL REQUIREMENTS

Temperature range -100°C to +120°C

Other tip styles quoted on request subject to availability and MOQ 500

RECEPTACLES

P780-B

STEEL

RECEPTACLES

R900-2

R900-5

R900-13

R900-S

Note: P790 uses R900 receptacles

PROBE ORDER CODE

P605 - A
Series Tip Style

Note: Tip Material shown Black - Standard Stock Item

P920 Series battery contact probes
P970 Series a very short bare board probe with a selection of tip styles 2.54mm centres
1.27mm travel and is also suitable for battery contacts. Many new tip styles added to P970
All probes suitable to solder directly into PCB

SERIES 920

SPECIFICATION

Based on the P970 Series; the P920 Series offers superior electrical characteristics, making them ideal for use as a replaceable miniature battery contact, or as an interface probe in a D.U.T. ring. This series uses a receptacle to enable connection to the PCB or wiring. The post on the wire wrap receptacles may be removed if not required.

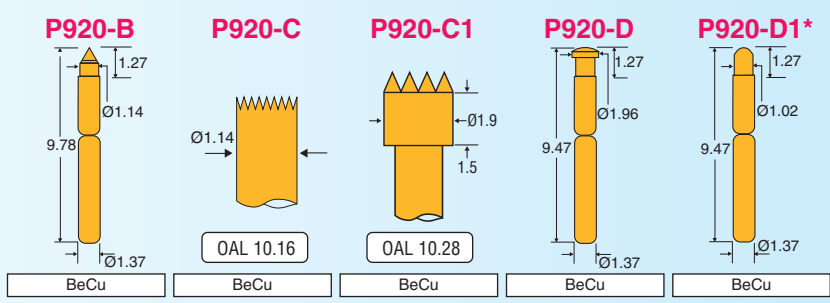
MECHANICAL
Full travel: 1.27mm
Recommended working travel: 0.84mm

SPRING FORCE
Working travel: 1.1N

ELECTRICAL
Max current: 3.0 amps
Minimum test centres: 2.54mm

Recommended mounting hole size: 1.7mm

TIP STYLES



The P920 Series use the receptacle of the R970 Series

SERIES 970

SPECIFICATION

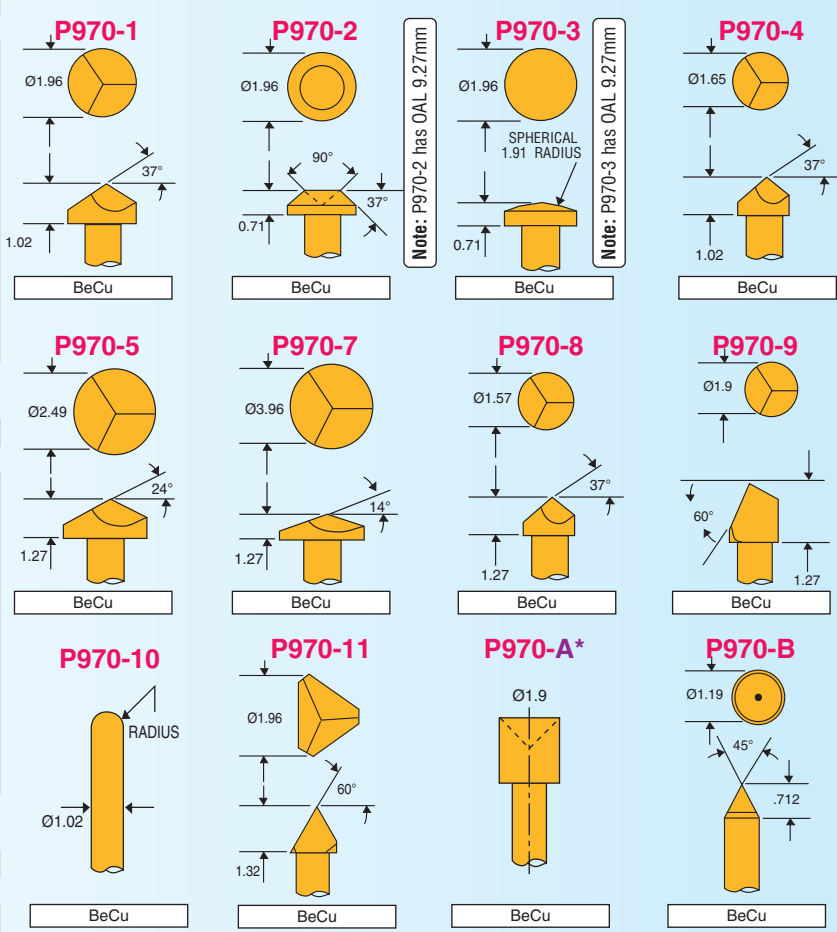
PROBE P970

MECHANICAL
Minimum centres: 2.54mm
Full travel: 1.27mm
Working travel: 1.27mm

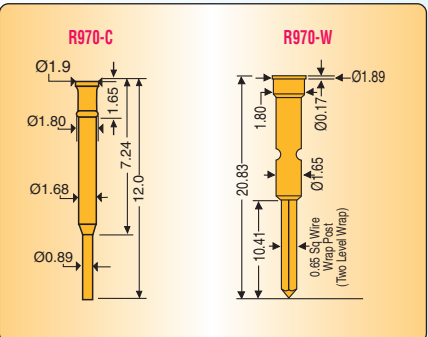
SPRING FORCE
Preload: 0.3N
@ Working travel: 1.1N

ELECTRICAL
Max current: 3.0 amps
Terminal resistance: <35m ohms

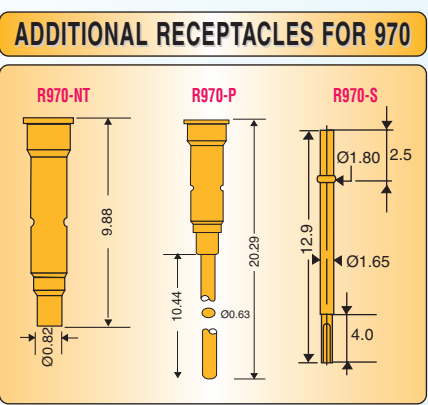
Recommended hole size: 1.7mm



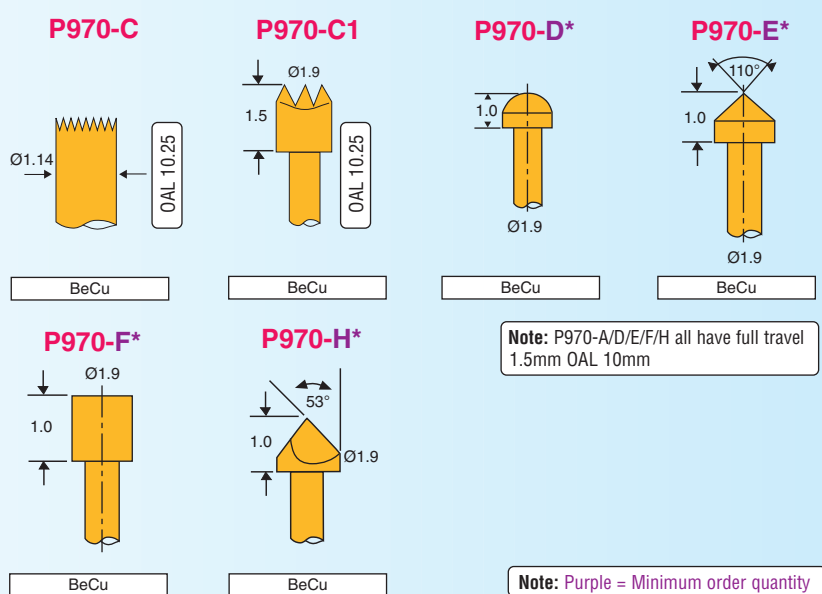
RECEPTACLES



RECEPTACLES



PROBE ORDER CODE
P920 - B
Series Tip Style



Note: P970-A/D/E/F/H all have full travel 1.5mm OAL 10mm

Note: Purple = Minimum order quantity

SPECIFICATION

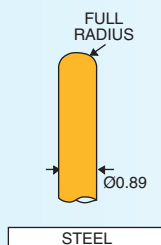
SERIES 910

PROBE P910	
MECHANICAL	
Full travel:	1.91mm
Recommended working travel:	1.27mm
Minimum centres:	3.81mm
SPRING FORCE	
@ Working travel:	1.0N
ELECTRICAL	
Max current: DC	3 amps
Connection method:	Solder tail to PCB
Recommended hole size:	1.7mm

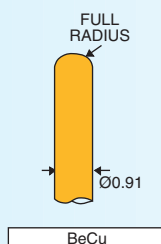
TIP STYLES

Note: Probe P910-D, P911-D1, P930-D, P950-D are used without receptacles. The tail of the probe can be soldered onto a P.C.B.

P910-D



P911-D1

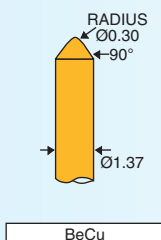


SPECIFICATION

SERIES 911

PROBE P911-D1	
Recommended minimum centres: 2.54mm with care	
MECHANICAL	
Full travel:	1.57mm
Recommended working travel:	1.00mm
SPRING FORCE	
@ Working travel:	1.28N
ELECTRICAL	
Max current:	3 amps
Drill size:	1.5mm
Connection:	Solder tail to PCB / Flexi or wires

P930-D



SPECIFICATION

SERIES 930

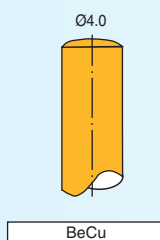
PROBE P930	
MECHANICAL	
Full travel:	2.79mm
Recommended working travel:	1.52mm
Minimum test centres:	3.18mm
SPRING FORCE	
Preload:	0.12N 0.32N
@ Working travel:	0.32N 0.85N
ORDER PART NO.	-1 -2
ELECTRICAL	
Max current:	3 amps
Recommended hole size:	1.12mm

SPECIFICATION

SERIES 950

PROBE P950	
MECHANICAL	
Full travel:	1.2mm
Recommended working travel:	0.6mm
SPRING FORCE	
@ Working travel:	1.2N
ELECTRICAL	
Max current:	3 amps
Recommended hole size:	1.1mm
Connection:	Solder tail to PCB

P950-D

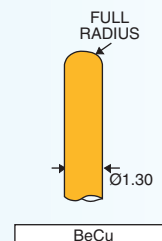


SPECIFICATION

SERIES 990

PROBE P990	
Recommended minimum centres: 4.5mm	
MECHANICAL	
Full travel:	2.2mm
Recommended working travel:	1.5mm
SPRING FORCE	
@ Working travel:	1.3N
ELECTRICAL	
Max current:	1.5 amps

P990-D1



SPECIFICATION

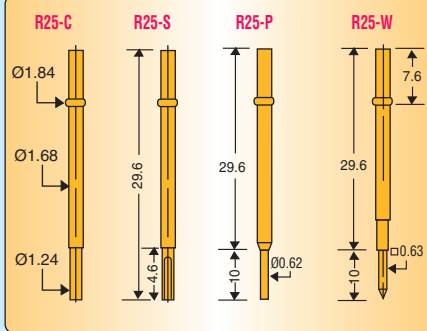
SERIES HSP25

PROBE HSP25	
MECHANICAL	
Full travel:	6.35mm
Recommended working travel:	4.24mm
Minimum centres:	2.54mm
SPRING FORCE	
Preload:	0.5N
@ Working travel:	1.8N
Operating temp. range*:	-55°C to +105°C
ELECTRICAL	
Max current:	10 amps
Recommended hole size:	1.7mm
*High temperature probe HSP25-HTP 250°C max	

Note: Other head styles and diameters available on request. MOQ may apply. See HSP30 below for possible styles.

RECEPTACLES

RECEPTACLES



SPECIFICATION

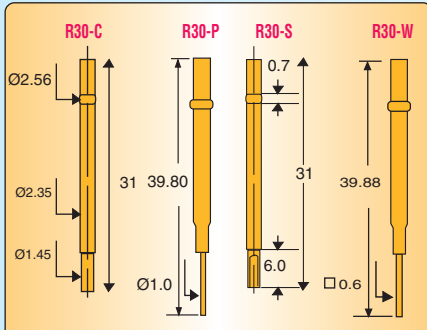
SERIES HSP30

PROBE HSP30	
MECHANICAL	
Full travel:	6.35mm
Recommended working travel:	4.24mm
Minimum centres:	3.18mm
SPRING FORCE	
Preload:	0.6N 1N
@ Working travel:	1.14N 2N
ORDER PART NO.	-1
Operating temp. range:	-55°C to +150°C
ELECTRICAL	
Max current:	15 amps
Recommended hole size:	2.4mm

Note: Above 105°C non-lubricated recommended

RECEPTACLES

RECEPTACLES

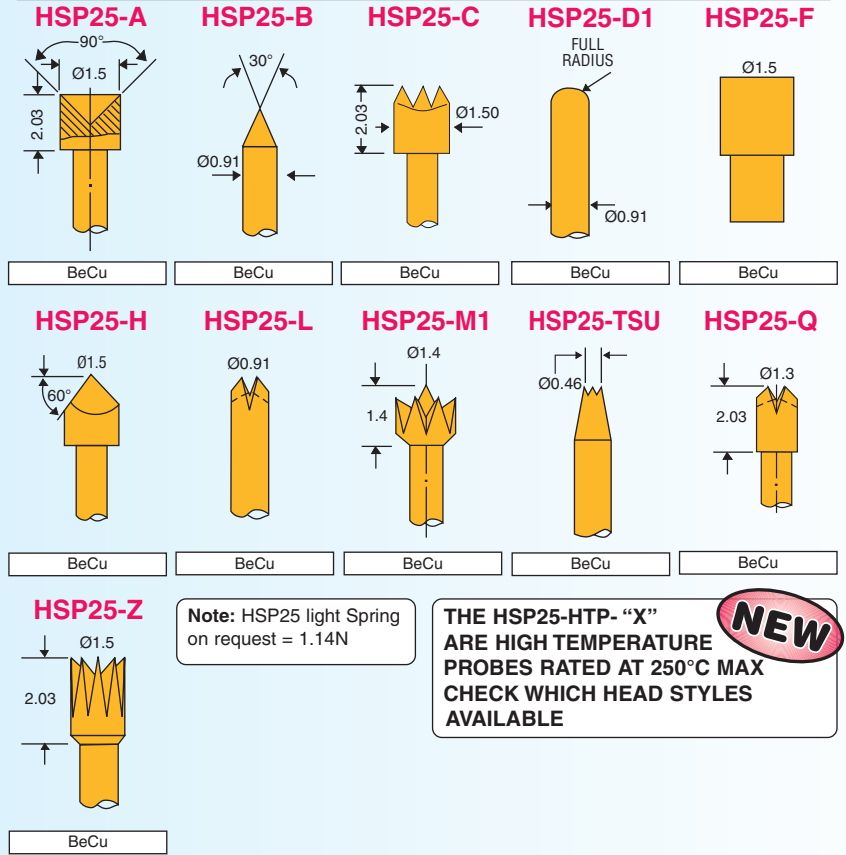


PROBE ORDER CODE

HSP30 - B
Series Tip Style

Note: BeCu Only

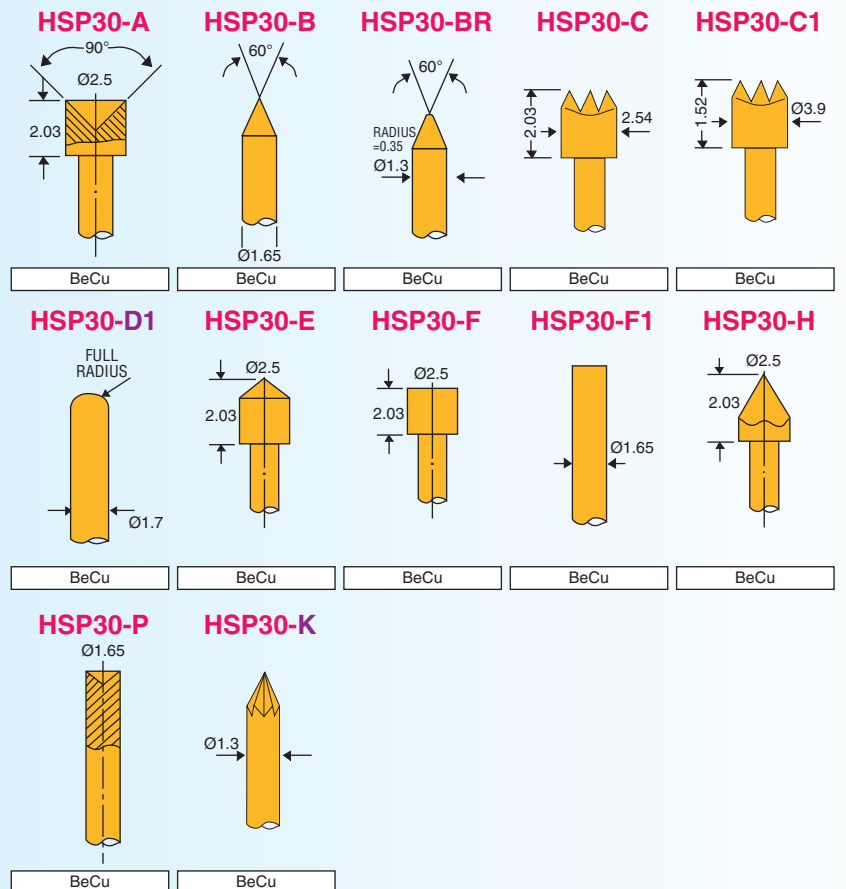
TIP STYLES



Note: HSP25 light Spring on request = 1.14N

THE HSP25-HTP- "X" ARE HIGH TEMPERATURE PROBES RATED AT 250°C MAX CHECK WHICH HEAD STYLES AVAILABLE

NEW



Note: Purple = Minimum order quantity

Note: HSP30 heavier Spring Version on request = 1.8N

Note: For Standard Current Versions of the Probes refer to following:

HSP25 — P25 Page No. 3
HSP30 — P30 Page No. 9

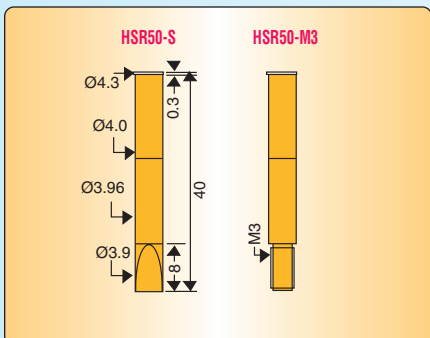
SPECIFICATION

SERIES HSP50

PROBE HSP50	Recommended minimum centres	5.00mm
	MECHANICAL	
	Maximum travel:	5.5mm
	Recommended working travel:	4.4mm
	SPRING FORCE	
	@ Working travel:	3.0N 5.0N
	ORDER PART NO.	-2 -3
	ELECTRICAL	
	Nominal current:	max 50 amps
	Terminal resistance:	<2m ohms
	Recommended hole size	
	with receptacle:	4.0mm
	without receptacle:	3.50mm

RECEPTACLES

RECEPTACLES



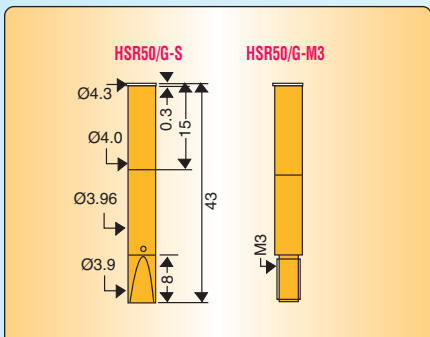
SPECIFICATION

SERIES HSP50/G

PROBE HSP50/G	Recommended minimum centres	5.08mm
	MECHANICAL	
	Maximum travel:	5.5mm
	Recommended working travel:	4.4mm
	SPRING FORCE	
	@ Working travel:	3.0N 5.0N
	ORDER PART NO.	-2 -3
	ELECTRICAL	
	Nominal current:	max 50 amps
	Terminal resistance:	<2m ohms
	Recommended hole size:	4.0mm

RECEPTACLES

RECEPTACLES



TIP STYLES

HSP50-A



BeCu

HSP50-C2/C4



BeCu

HSP50-F



BeCu

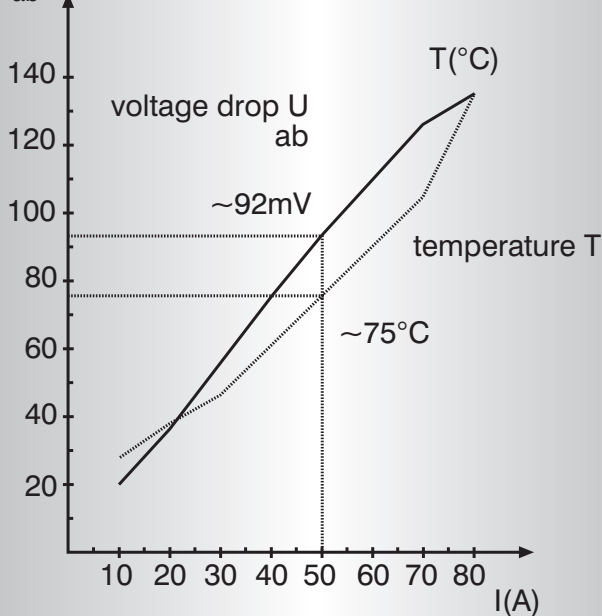
HSP50-K



BeCu

U (mV)

ab



The diagram applies to both series

TIP STYLES

HSP50/G-A



BeCu

HSP50/G-C2/C4



BeCu

HSP50/G-F



BeCu

HSP50/G-K



BeCu

PROBE ORDER CODE

HSP50 - A - 2

Series Tip Style Spring Force

P21-X High current version of P21 series for 16amps
P60-X High current version of P60 series for 24amps
P21/G-X High current version of P21/G series for 16amps
P60/G-X High current version of P60/G series for 24amps

SPECIFICATION

SERIES 21-X

PROBE P21-X

Recommended minimum centres: 2.54mm

MECHANICAL

Full travel: 5.3mm

Recommended working travel: 4.0mm

SPRING FORCE

Preload: 0.35N 1.0N

@ Working travel: 1.5N 3.0N

ORDER PART NO.

ELECTRICAL

Max current: 16 amps

Terminal resistance: <10m ohms

Recommended hole size: 2.0mm

SPECIFICATION

SERIES 60-X

PROBE P60-X

Recommended minimum centres: 4.0mm

MECHANICAL

Full travel: 5.5mm

Recommended working travel: 4.4mm

SPRING FORCE

Preload: 0.4N 0.75N 0.7N

@ Working travel: 1.5N 2.25N 3.0N

ORDER PART NO.

ELECTRICAL

Max current: 24 amps

Terminal resistance: <5m ohms

Recommended hole size: 3.0mm

Note: Use receptacle R60-S, see page 12

SPECIFICATION

SERIES 21/G-X

PROBE P21/G-X

Recommended minimum centres: 2.54mm

MECHANICAL

Full travel: 5.3mm

Recommended working travel: 4.0mm

SPRING FORCE

Preload: 0.35N 0.75N 1.0N

@ Working travel: 1.5N 2.25N 3.0N

ORDER PART NO.

ELECTRICAL

Max current: 16.0 amps

Terminal resistance: <10m ohms

Recommended hole size: 2.0mm

Note: Use receptacle R21/G-S, see page 23

SPECIFICATION

SERIES 60/G-X

PROBE P60/G-X

Recommended minimum centres: 4.0mm

MECHANICAL

Full travel: 5.5mm

Recommended working travel: 4.4mm

SPRING FORCE

Preload: 0.4N 0.7N 1.0N

@ Working travel: 1.5N 3.0N 5.0N

ORDER PART NO.

ELECTRICAL

Max current: 24 amps

Terminal resistance: <5m ohms

Recommended hole size: 3.0mm

Note: Use receptacle R60/G-KS, see page 24

TIP STYLES

P21-CX

BeCu

P21-DX

BeCu

P21-FX

BeCu

P21-HX

BeCu

Note: Specify high current receptacles Part R21X-S for use with P21-X probes

P60-AX

BeCu

P60-CX

BeCu

P60-DX

BeCu

P60-FX

BeCu

P60-HX

BeCu

Note: Request drawing for FX7

P21/G-AX1

BeCu

P21/G-CX/CX6

BeCu

P21/G-DX

BeCu

P21/G-FX

BeCu

P21/G-HX/H3X

BeCu

P21/G-K2X

BeCu

P60/G-AX/AX1

BeCu

P60/G-CX/CX1

BeCu

P60/G-DX/DX2/DX3

BeCu

P60/G-DX1

BeCu

P60/G-FX/FX1/FX2/FX3/FX7

BeCu

Note: Request drawing for FX7

RECEPTACLES

R21X-S

P60/G-GX1

BeCu

P60/G-HX

BeCu

Test Conditions to Specify the max. current rating:

- Test probe will be pulsed with raising current up to constant heating of max. 45 k (according to VDE 0609)
- Test probe and test piece are free of dirt
- Test probe is regularly mounted in corresponding receptacle

PROBE ORDER CODE

P21 - CX - 2

Series Tip Style Spring Force

Note: Purple = Minimum order quantity

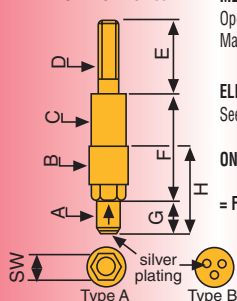
PROBE ORDER CODE

HSP125

Series

SPECIFICATION

PROBE HSP125-400



MECHANICAL
Operating stroke: 7.0mm
Maximum stroke: see table, column 'G'

ELECTRICAL
See table

ONLY ONE TIP STYLE

= FLAT AS SHOWN

SERIES HSP125-400

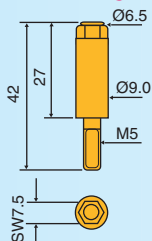
Order No. HSP	Maximum Current (A)	Transition Resistance (mΩ)	Spring Force Preload(N)	Spring Force Operating Stroke(N)	ØA (mm)	ØB (mm)	ØC (mm)	D (Thread)	E (mm)	F (mm)	G (mm)	H (mm)	SW (Spanner size mm)	Silver Plating Ø (mm)
125	25	1.0	5	10	4.9	9	9	M 5	20	28	9.5	37.5	7	4
135	35	0.7	6	12	7	13	12	M 6	27	42	10.5	25.7	10	6
150	100	0.5	7	17	9	16	15	M 6	27	42.2	12	27	12	6
200	200	0.3	38	58	16	26	25	M 8	27	52	11	40	20	3 x Ø6 PADS
400	400	0.1	70	116	25.9	32	32	M 14	51	52	11	63	*	3 x Ø8 PADS

Note: Type 'A' HSP120, 135, 150 Type 'B' HSP200 & 400

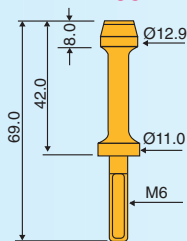
Note: *Use adjustable spanner

**SILVER PLATED CONTACTING TERMINALS
FOR HIGH CURRENT TEST PROBES**

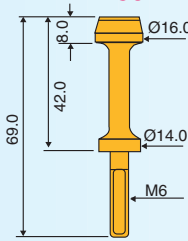
KT-125



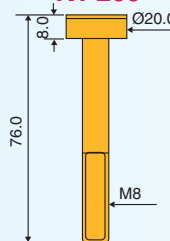
KT-135



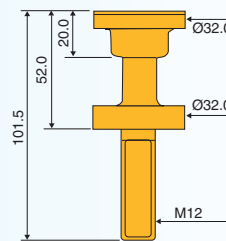
KT-150



KT-200

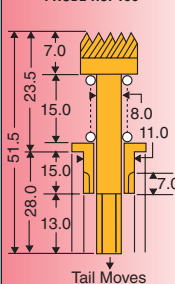


KT-400



SPECIFICATION

PROBE HSP100



Recommended minimum centres: 17mm

MECHANICAL

Full travel: 7mm
Recommended working travel: 5mm

SPRING FORCE

Preload: 5N
@ Working travel: 9.5N

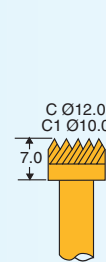
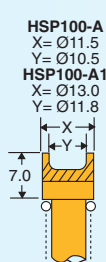
ELECTRICAL

Max current: 70-100 amps
Current rating DC continuous: 60 amps

Recommended hole size: 11mm

HSP100-A/A1

HSP100-C/C1



BeCu

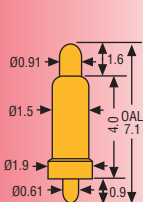
BeCu

Probe HSP100

- The probe bolts into probe plate and can be easily removed for cleaning
- Comes supplied with fixings
- Connection method by solder tag and suitable copper braid
- Heads "A" and "A1" for probing onto M5 and M6 pan head screws
- Through-pin construction
- Takes up to 100 Amps
- Silver alloy contact area

SPECIFICATION

PROBE HSP915-D1



Recommended minimum centres: 2.54mm

MECHANICAL

Full travel: 1.57mm
Recommended working travel: 1.00mm

OPERATING TEMPERATURE: -35°C to +105°C

SPRING FORCE

Preload: 0.46N
@ Working travel: 1.3N

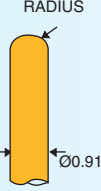
ELECTRICAL

Max current: 3 amps
Probe resistance: <25m ohms

Solder Tail to PCB/Flexi or wires

HSP915-D1

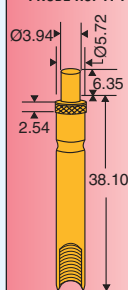
FULL
RADIUS



BeCu

SPECIFICATION

PROBE HSP41-F



MECHANICAL

Full travel: 6.35mm
Recommended working travel: 4.24mm

OPERATING TEMPERATURE: -40°C to +204°C

SPRING FORCE

Preload: 4.5N
@ Working travel: 6.5N

ELECTRICAL

Max current: 25 amps

Note: Termination is via the tapped hole with wire attached

PROBE ORDER CODE

HSP915 - D1

Series Tip Style

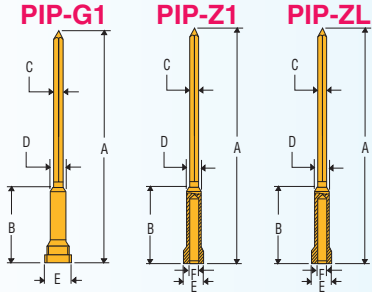
PEAK TEST SERVICES LIMITED

We are continually updating our range of Test Probes. Should your exact needs for your application not appear in this catalogue, please call us for assistance.

PIP SERIES

Note: Interface pins are available with either 'Barbed' or 'Knurled' fitting design. Please refer to the list below.

INTERFACE PINS



Model		PIP-G1	PIP-Z1	PIP-ZL
Dimensions	A	17.78 mm	17.78 mm	23.5 mm
	B	5.08 mm	5.08 mm	5.08 mm
	C	□ 0.64 mm	□ 0.64 mm	□ 0.64 mm
	D	1.35 mm	1.47 mm	1.47 mm
	E	1.83 mm	1.83 mm	1.83 mm
	F		1.09 mm	1.09 mm
Material				
Gold plated brass				
Mounting Hole Ø		1.45 mm	1.45 mm	1.45 mm
For		GenRad	Zehntel/Teradyne	Special Interfaces

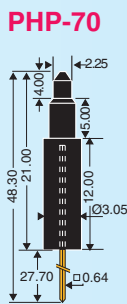
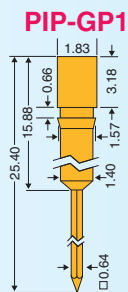
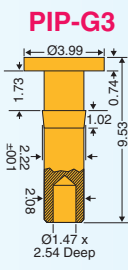
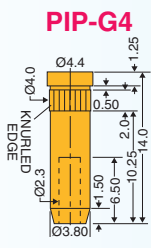
PART NO.	FITTING TYPE
PIP-G1	KNURLED
PIP-G1-B	BARBED
PIP-G3	BARBED
PIP-G4	KNURLED
PIP-GP1	BARBED
PIP-Z1	KNURLED
PIP-Z1-B	BARBED
PIP-ZL	BARBED

POWER PINS

GENRAD & GENERAL PURPOSE POWER PINS

GENERAL PURPOSE PINS

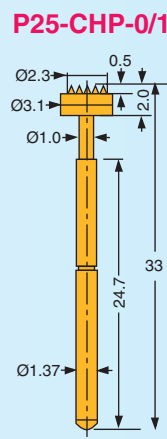
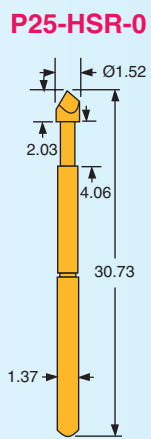
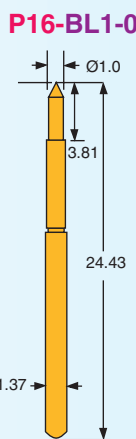
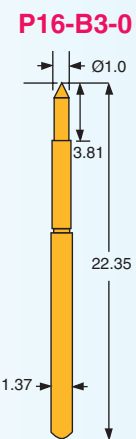
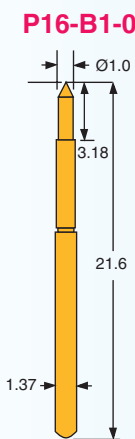
AGILENT/HP 3070 FIXTURE PERSONALITY PIN PHP-70



Note: Special Pins made on request / Factron datasheet available on request = PIP-F1

Black Plastic body with Gold Plated Tail

TEST SYSTEM RECEIVER/INTERFACE PROBES



GENRAD AND ROHDE & SCHWARZ
P16-B1-0 Straight barrel or P16-B1-0-P Curved barrel (Pylon replacement)
Fits receptacles R16-S or W

SCHLUMBERGER/FACTRON
P25-HSR-0 fits receptacle R25-W or S

TERADYNE/ZEHNTTEL/INNOVATE
P25-H-0
See P25 Series, page 3 for specification

OLIVETTI/TECHNOST/CIRCUIT LINE
Bare board testers
P25-H/C/F
See P25 Series, page 3 for specification

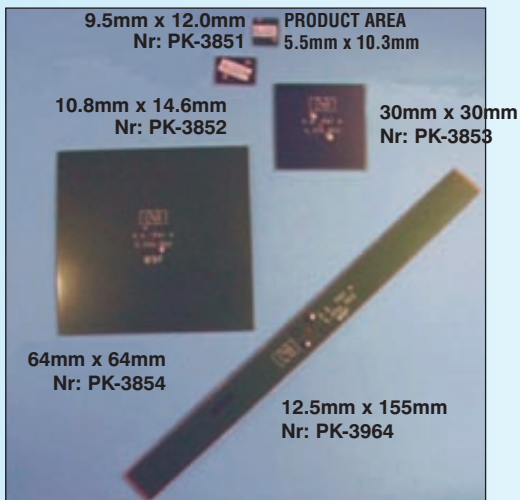
AGILENT/HEWLETT PACKARD 3070
P25-CHP-0/1
See P25 Series for specification
Spring force -0 = 1.0N or -1 = 1.8N
Fit R25 receptacles

BSL FLYING PROBER ORIGINAL DESIGN
Replacement probe available
Part No. = P30-BSL

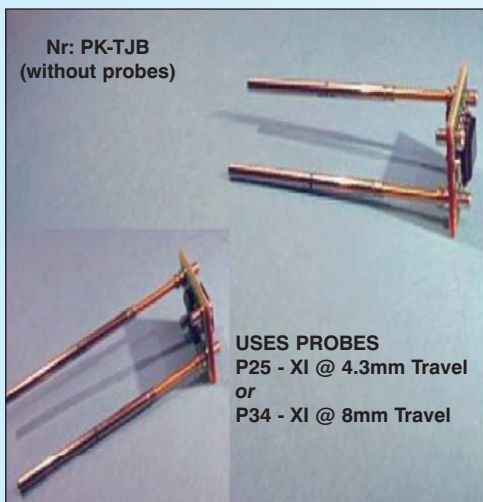
GENRAD/ROHDE & SCHWARZ
Long version P16-B3-0

Note: Purple = Minimum order quantity

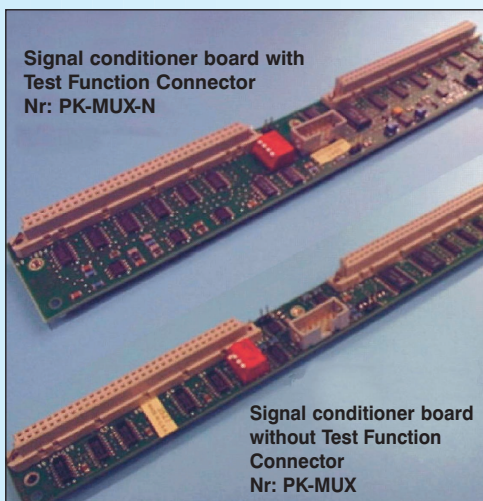
SENSOR PLATES



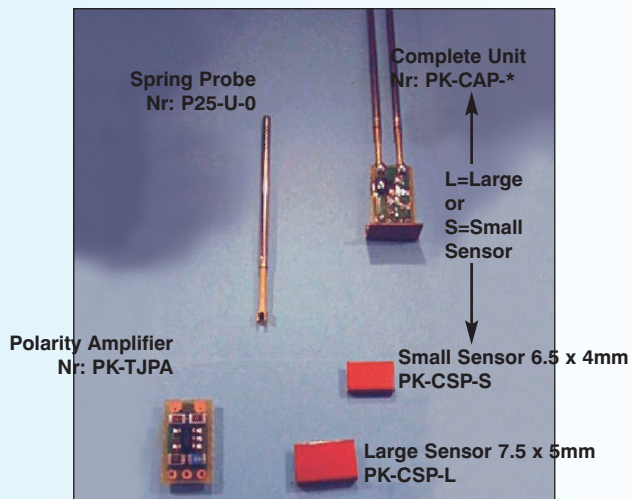
AMPLIFIER BOARDS FOR STANDARD SPRING PROBES



SIGNAL CONDITIONER/MUX BOARDS

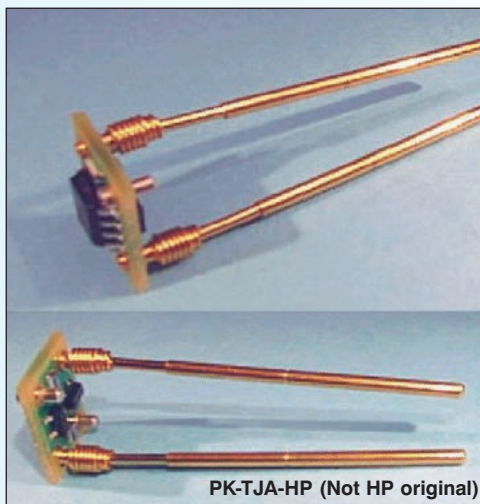


CAPSCAN/POLARITY SENSORS

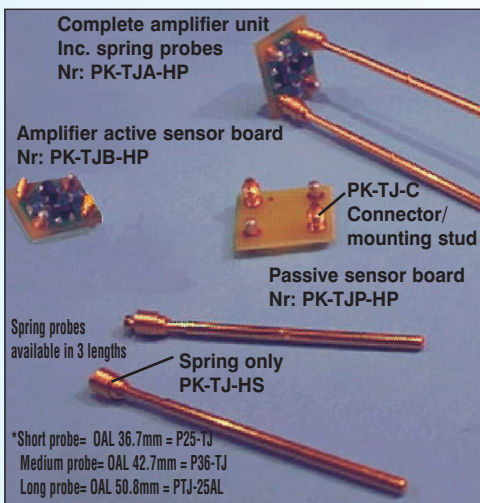


Note: One complete unit PK-CAP-S/L consists of two x P25-U and PK-TJPA AND PK-CSP-S/L

AMPLIFIER BOARDS WITH SPRING HANGER PROBES



AMPLIFIER BOARDS WITH SPRING HANGER PROBES. VARIOUS LENGTHS



SPECIFICATION

SERIES 404

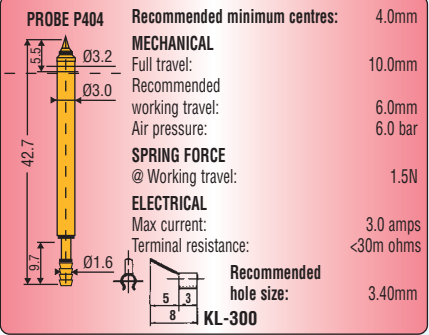
PROBE P404 Recommended minimum centres: 4.0mm

MECHANICAL
Full travel: 10.0mm
Recommended working travel: 6.0mm
Air pressure: 6.0 bar

SPRING FORCE
@ Working travel: 1.5N

ELECTRICAL
Max current: 3.0 amps
Terminal resistance: <30m ohms

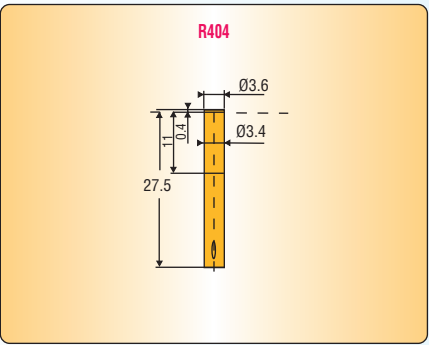
Recommended hole size: 3.40mm



RECEPTACLES

RECEPTACLES

R404



SPECIFICATION

SERIES 404/G

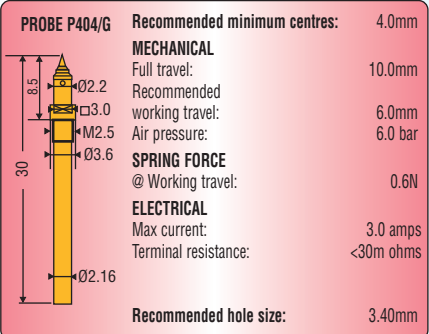
PROBE P404/G Recommended minimum centres: 4.0mm

MECHANICAL
Full travel: 10.0mm
Recommended working travel: 6.0mm
Air pressure: 6.0 bar

SPRING FORCE
@ Working travel: 0.6N

ELECTRICAL
Max current: 3.0 amps
Terminal resistance: <30m ohms

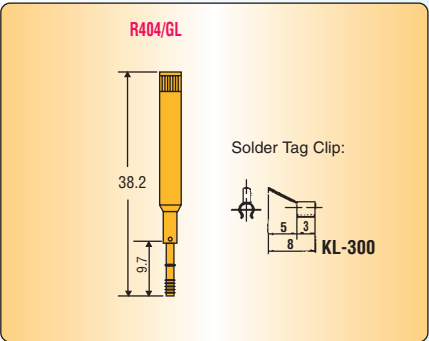
Recommended hole size: 3.40mm



RECEPTACLES

RECEPTACLES

R404/GL

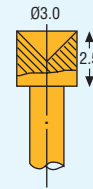


PROBE ORDER CODE
P404 - A - L
Series Tipstyle

Note: Tip Material shown Black - Standard Stock Item

TIP STYLES

P404-A



STEEL

P404-BST1



STEEL

P404-G



STEEL

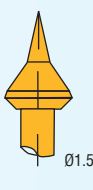
Note: The KL-300 is a Solder Tag Clip which allows easier wiring to the probe and facilitates probe replacement.

APPLICATIONS FOR PNEUMATIC PROBES

- Can be controlled either singularly or in groups
- For selective contacting of separate test points
- Contacting of test points with difficult access
- Additional contacting of combined in-circuit and functional test
- For the setting up of a flexible connection from the electronic units to the power supply

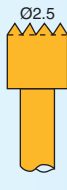
TIP STYLES

P404/G-BST1



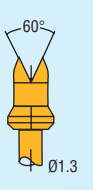
STEEL

P404/G-C



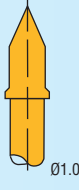
STEEL

P404/G-G



STEEL

P404/G-BT80



STEEL

Note: Probe insertion tool: use PIT 60/G-3
P404/G probe ONLY operates in combination with R404/GL receptacle.

SPECIFICATION

SERIES 407

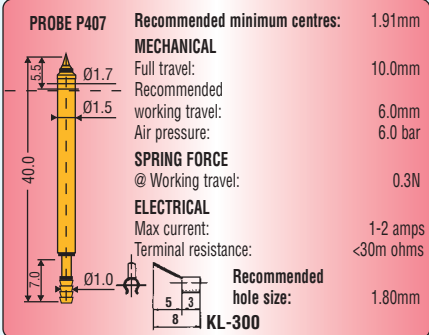
PROBE P407 Recommended minimum centres: 1.91mm

MECHANICAL
Full travel: 10.0mm
Recommended working travel: 6.0mm
Air pressure: 6.0 bar

SPRING FORCE
@ Working travel: 0.3N

ELECTRICAL
Max current: 1-2 amps
Terminal resistance: <30m ohms

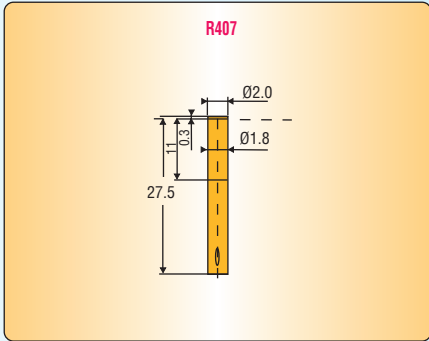
Recommended hole size: 1.80mm



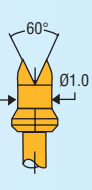
RECEPTACLES

RECEPTACLES

R407

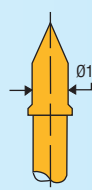


P407-G



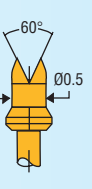
STEEL

P407-BT80



STEEL

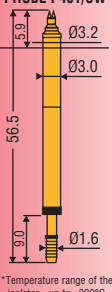
P407-Q



STEEL

SPECIFICATION

SERIES 401/SW

PROBE P401/SW	Recommended minimum centres:	4.0mm
	MECHANICAL	
	Full travel:	10.0mm
	Recommended working travel:	5.0mm
	Switching travel:	6.0mm
	Air pressure:	6.0 bar
	SPRING FORCE	
	@ Working travel:	1.6N
	@ Switching travel:	1.5N
	ELECTRICAL	
	Receptacle - headstyle	
	Max current:	3.0 amps
	Terminal resistance:	<30m ohms
	Hose connection - headstyle	
	Max current:	1.0 amp
	Terminal resistance:	<50m ohms

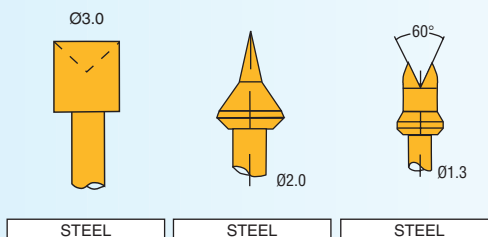
*Temperature range of the isolator - up to +300°C

Note: P401/SW uses R405 Receptacle

Note: P401/SW Series are pneumatically operated switch probes

TIP STYLES

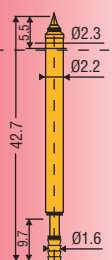
P401/SW-A P401/SW-BST1 P401/SW-G



Note: The KL-300 is a Solder Tag Clip which allows easier wiring to the probe and facilitates probe replacement.

SPECIFICATION

SERIES 405

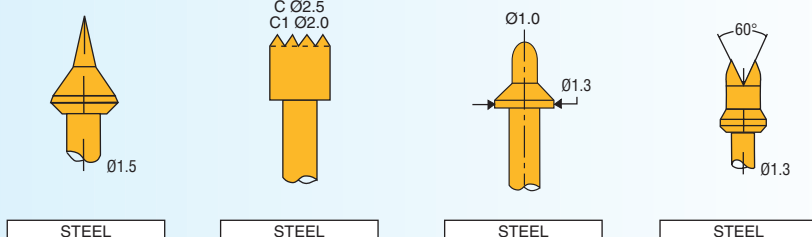
PROBE P405	Recommended minimum centres:	3.5mm
	MECHANICAL	
	Full travel:	10.0mm
	Recommended working travel:	6.0mm
	Air pressure:	6.0 bar
	SPRING FORCE	
	@ Working travel:	0.8N
	ELECTRICAL	
	Max current:	3.0 amps
	Terminal resistance:	<30m ohms
	Recommended hole size:	3.0mm

P405-BST1

P405-C/C1

P405-D1

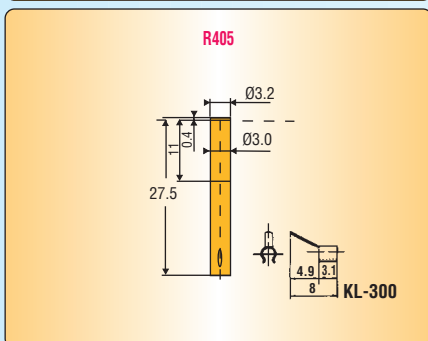
P405-G



Note: The KL-300 is a Solder Tag Clip which allows easier wiring to the probe and facilitates probe replacement.

RECEPTACLES

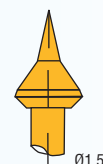
RECEPTACLES



APPLICATIONS FOR PNEUMATIC PROBES

- Can be controlled either singularly or in groups
- For selective contacting of separate test points
- Contacting of test points with difficult access
- Additional contacting of combined in-circuit and functional test
- For the setting up of a flexible connection from the electronic units to the power supply

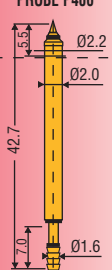
P406-BST1



STEEL

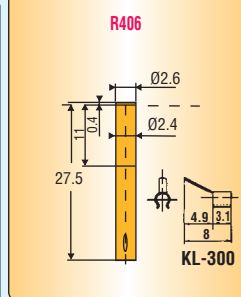
SPECIFICATION

SERIES 406

PROBE P406	Recommended minimum centres:	3.0mm
	MECHANICAL	
	Full travel:	10.0mm
	Recommended working travel:	6.0mm
	Air pressure:	6.0 bar
	SPRING FORCE	
	@ Working travel:	0.6N
	ELECTRICAL	
	Max current:	3.0 amps
	Terminal resistance:	<30m ohms
	Recommended hole size:	2.40mm

RECEPTACLES

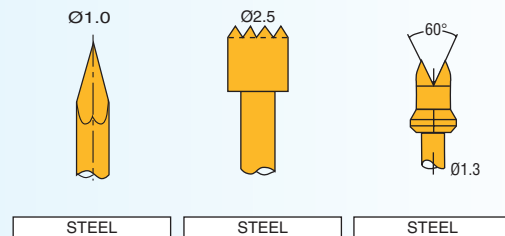
RECEPTACLES



P406-BT80

P406-C

P406-G



Note: The KL-300 is a Solder Tag Clip which allows easier wiring to the probe and facilitates probe replacement.

PROBE ORDER CODE

P405 - B - L

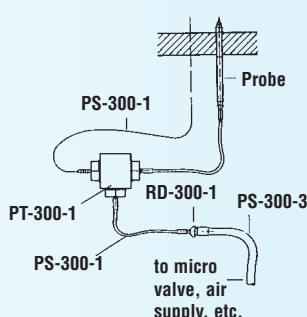
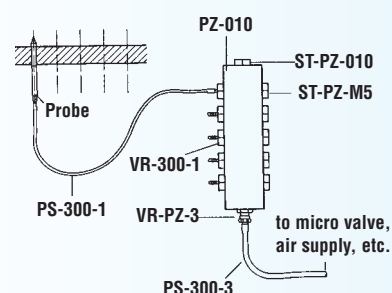
Series Tip Style

Note: Applies to P405/P406
"L" signifies longer tail to allow fitting of KL-300

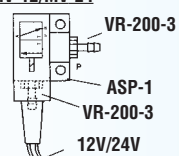
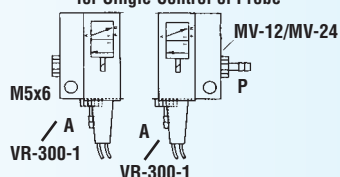
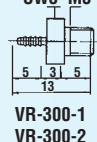
Note: Tip Material shown Black - Standard Stock Item

ACCESSORIES FOR PNEUMATIC TEST PROBES

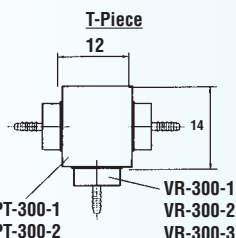
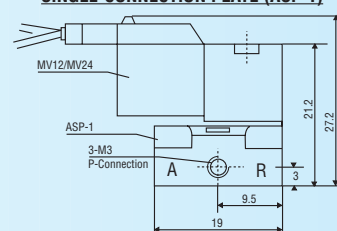
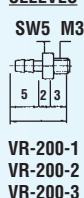
Pneumatic Test Probes can be driven and controlled individually or in groups. Possible set-up and layout:



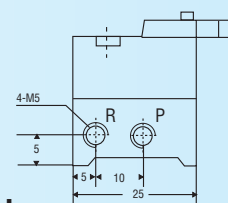
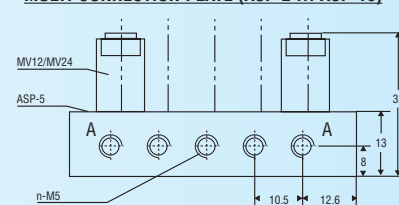
MV-12/MV-24

Multi-Connection Plate ASP-2—ASP 10
for Single Control of ProbeTHREADED
SLEEVES
SW5 M5

SINGLE-CONNECTION PLATE (ASP-1)

THREADED
SLEEVES
SW5 M3SOLDER CLIP
KL-300

MULTI-CONNECTION PLATE (ASP-2 ... ASP-10)



Example:
simultaneous control
of 5 P404 Probes

5	P404-Probes	
xm	PS-300-1	hose NW 1
1	PZ-010	tenfold distributor
1	ST-PZ-010	dummy plug
1	VR-PZ-3	hose connection NW 3
5	VR-300-1	hose connection NW 1
xm	PS-300-3	hose NW 3
1	MV-24	micro valve, 24V
1	ASP-1	connection plate for MV
2	VR-200-3	hose connection NW 3
5	ST-PZ-M5	dummy plug for distributor

ITEM	TECHNICAL DESIGNATION	ORDER No.
Reducer	NW 3/NW 1	RD-300-1
Reducer	NW 3/NW 2	RD-300-2
Threaded sleeve	M 5/NW 1	VR-300-1
Threaded sleeve	M 5/NW 2	VR-300-2
Threaded sleeve	M 5/NW 3	VR-300-3
Threaded sleeve	M 3/NW 3	VR-200-3
Threaded sleeve	M 3/NW 1	VR-200-2
T-piece (without threaded sleeve)	3 x M 5	PT-300-M5
T-piece (includes 3 sleeves-VR-300-1)	3 x NW 1	PT-300-1
T-piece (includes 3 sleeves-VR-300-2)	3 x NW 2	PT-300-2
Tenfold distributor	10 x M 5	PZ-010
Compressed air hose	NW 1	PS-300-1
Compressed air hose	NW 3	PS-300-3
Special cutter		SS-010
Dummy plug for distributor	B1/8	ST-PZ-010
Dummy plug for distributor	M5	ST-PT-M5
Plug for distributor	M5-1/8a	ST-PZ-VR
Sleeve	NM 5-PK 3	VR-PZ-3
Sleeve	NM 5-PK 4	VR-PZ-4
3/2 micro valve 12 V		MV-12
3/2 micro valve 24 V		MV-24
Single-connection plate	for 1 valve	ASP-1
Multi-connection plate	for 2-10 valves	ASP-2 to ASP-10

PEAK TEST SERVICES LTD

For more information or a quote please contact :

MERCURY ELECTRONICS PRIVATE LIMITED,
46, FIRST MAIN ROAD WEST, SHENOYNAGAR, CHENNAI-600030
PHONE: (044) 2626 9328 FAX: (044) 2626 0948 Email:mercury@vsnl.com



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