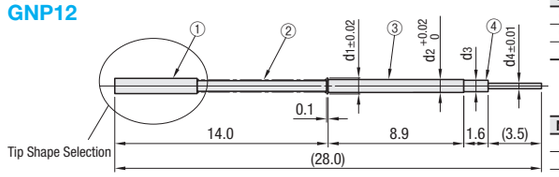
Contact Probes Assemblies

Standard, Screw Mounting, Resin Sleeve, Spring Built-In, Thread Wire Connection

Integrated Probe Assembly Features: One-piece Contact Probe is constructed by one continuous pin from the tip to the end. Less contact points and good conductivity enable stable electrical continuity, regardless of the stroke length.

Standard

GNP6
GNP8
GNP12



The matching end also strokes according to the stroke of the contact component.

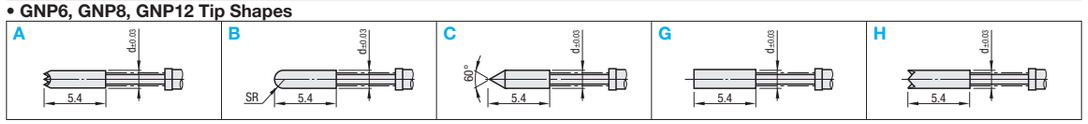
Part Number	d	d1	d2	d3	d4
GNP6	0.6	0.65	0.5	(0.45)	0.3
GNP8	0.8	0.8	0.6	(0.55)	0.4
GNP12	1.2	1.25	1.05	(0.95)	0.8

No.	Part	Material	Surface Treatment
①	Plunger	ISO-TC90 Equiv.	Gold Plating on Nickel Undercoat
②	Spring	Spring Steel (JIS-SWP)	Gold Plating
③	Sleeve	Brass*	Gold Plating on Nickel Undercoat
④	Collar	Brass	Nickel Plating

*The material of GNP6 is Phosphor Bronze.

Applicable Terminal P.1879

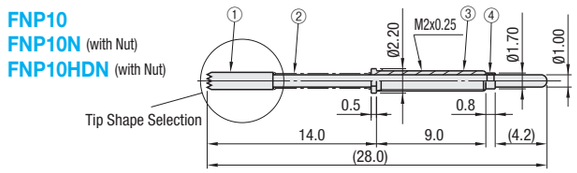
• GNP6, GNP8, GNP12 Tip Shapes



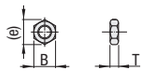
Features: Screw Mounting Type allows height adjustments.

Screw Mounting

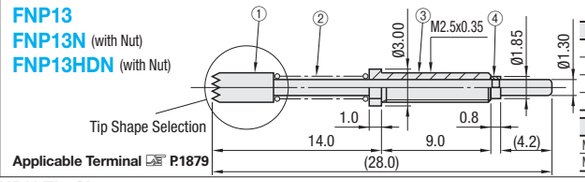
FNP10
FNP10N (with Nut)
FNP10HDN (with Nut)



The matching end also strokes according to the stroke of the contact component.



FNP13
FNP13N (with Nut)
FNP13HDN (with Nut)

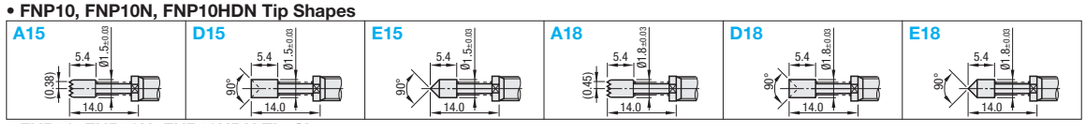


No.	Part	Material	Surface Treatment
①	Plunger	ISO-TC90 Equiv.	Gold Plating on Nickel Undercoat
②	Spring	Spring Steel (JIS-SWP)	Gold Plating
③	Sleeve	ISO-TC90 Equiv.	Nickel Plating
④	Collar	Brass	Gold Plating on Nickel Undercoat

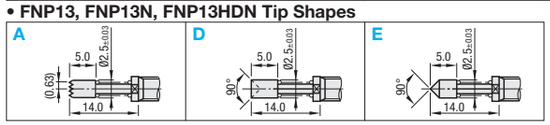
Part	Material	B	(e)	T
Nut (FNP10N)	EN 1.4301 Equiv.	4	4.6	1.6
Nut (FNP13N)	EN 1.4301 Equiv.	5	5.8	2

Applicable Terminal P.1879

• FNP10, FNP10N, FNP10HDN Tip Shapes



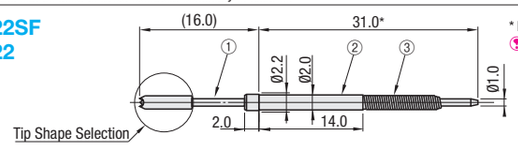
• FNP13, FNP13N, FNP13HDN Tip Shapes



Features: Resin Sleeve Type has resin sleeves, and can be used to avoid electrical continuity of fixtures.

Resin Sleeve

FNP22SF
FNP22

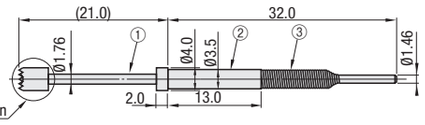


* For TH shape, this dimension is 34.0.

The matching end also strokes according to the stroke of the contact component.

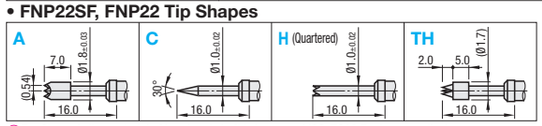
Applicable Terminal P.1879

FNP40SF
FNP40



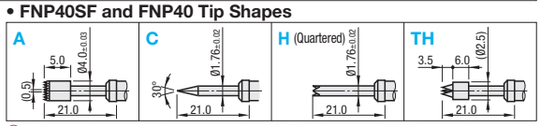
No.	Part	Material	Surface Treatment
①	Plunger	ISO-TC90 Equiv.	Nickel Plating
②	Sleeve	Polyacetal	-
③	Spring	Stainless Steel	-

• FNP22SF, FNP22 Tip Shapes



For Shape A, the material of head and shaft is brass and ISO-TC90 Equiv. respectively.
For Shape TH, the material of holder is BS and that of needle is JIS-SWRH.

• FNP40SF and FNP40 Tip Shapes

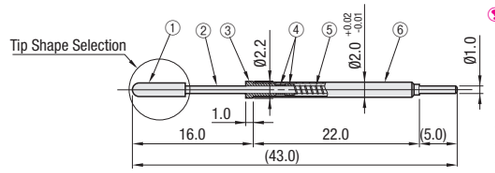


For Shape A, the material of head and shaft is ISO-TC90 Equiv. and JIS-SWRH respectively.
For Tip Shape C, the material of plunger is JIS-SWRH.
For Shape TH, the material of holder is BS and that of needle is JIS-SWRH.

Features: Spring Built-In Type houses a spring, which causes no external interference and keeps out dust.

Spring Built-In

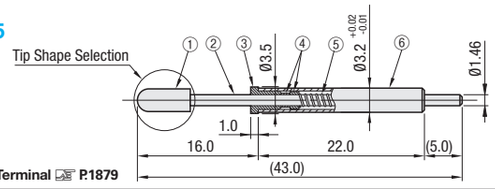
FNPS22



The matching end also strokes according to the stroke of the contact component.

No.	Part	Material	Surface Treatment
①	Head	Brass	Electroless Nickel Plating
②	Plunger	JIS-SWRH	Nickel Plating
③	Bearing	Brass	Electroless Nickel Plating
④	Collar	Stainless Steel	-
⑤	Spring	Spring Steel (JIS-SWP)	Gold Plating
⑥	Sleeve	German Silver	Electroless Nickel Plating

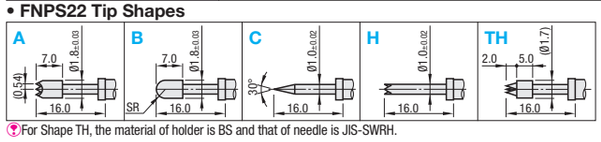
FNPS35



No.	Part	Material	Surface Treatment
①	Head	Brass	Electroless Nickel Plating
②	Plunger	ISO-TC90 Equiv.	Electroless Nickel Plating
③	Bearing	Brass	Electroless Nickel Plating
④	Collar	Brass	Electroless Nickel Plating
⑤	Spring	Stainless Steel	-
⑥	Sleeve	Brass	Electroless Nickel Plating

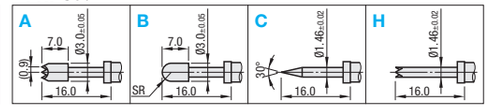
Applicable Terminal P.1879

• FNPS22 Tip Shapes



For Shape TH, the material of holder is BS and that of needle is JIS-SWRH.

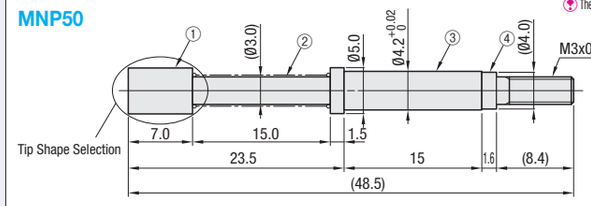
• FNPS35



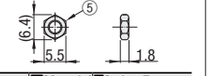
Features: No soldering is required as round crimp terminals and round lead wires are tucked in the threads and secured with nuts.

Thread Wire Connection

MNP50



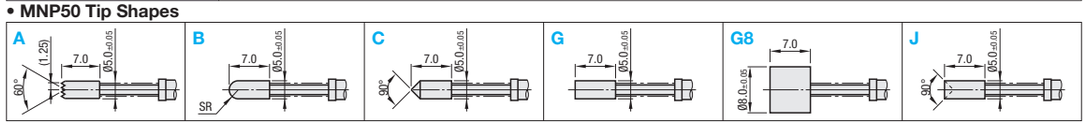
The matching end also strokes according to the stroke of the contact component.
Accessory: Nut (2 pcs.)



No.	Part	Material	Surface Treatment
①	Plunger	ISO-TC90 Equiv.	Gold Plating on Nickel Undercoat
②	Spring	Spring Steel (JIS-SWP)	Gold Plating
③	Sleeve	Brass	Gold Plating on Nickel Undercoat
④	Collar	Brass	Nickel Plating
⑤	Nut	Stainless Steel	-

Avoid tightening the nut exceeding the torque value of 0.98 N / m.

• MNP50 Tip Shapes



Part Number	Mounting Pitch (min.)	Full Stroke	Spring Pressure Initial	Spring Pressure 2/3 Stroke	Allowable Current	Resistance	Replacement Cycle (Reference)	Mounting Hole for Press-Fitting Dimension (Reference)	Unit Price 1 ~ 69 pc (s).	Volume Discount Rate 70~99	Volume Discount Rate 100~500
GNP6	0.8mm	3.4mm	26gf	80gf	0.5A	50mΩ	100,000 times	0.48~0.5mm			
GNP8	1.0mm	3.4mm	23gf	80gf	1A			0.58~0.6mm			
GNP12	1.5mm	4.0mm	32gf	95gf	3A		300,000 times	1.03~1.05mm			
FNP10	3.0mm (6.0mm)	4.5mm	60gf	105gf	3A	80mΩ	300,000 times	M2×0.25			
FNP10N (with Nut)											
FNP10HDN (with Nut)			56gf	175gf							
FNP13	5.0mm (7.0mm)	4.0mm	60gf	100gf	3A	80mΩ	300,000 times	M2.5×0.35			
FNP13N (with Nut)											
FNP13HDN (with Nut)			58gf	175gf							
FNP22SF	3.0mm	7.0mm	0gf	100gf	3A	80mΩ	300,000 times	1.98~2.00mm			
FNP22				150gf							
FNP40SF	5.0mm	17.0mm*	0gf	220gf				3.48~3.50mm			
FNP40				300gf							
FNPS22	3.0mm	8.0mm	51gf	180gf	3A	80mΩ	300,000 times	1.98~2.00mm			
FNPS35	4.0mm	8.0mm	66gf	200gf				3.17~3.19mm			
MNP50	7.0mm<9.0mm>	7.6mm	228gf	455gf	5A	35mΩ	300,000 times	4.18~4.2mm			

Mounting pitches in ( ) are applicable to the contact probes with nut. MNP50 mounting pitches in < > are applicable to G8 tip shape. * Tip shape A is 14.0mm, and TH is 9.5mm. For orders larger than indicated quantity, please request a quotation.

Ordering Example

Part Number	-	Tip Shape
GNP12	-	G
FNP10N	-	E15
FNP13	-	A
MNP50	-	G8

Example