NAAMS FLOATING MICRO PIN

FLOATING PIN

SEQUENCE OF OPERATION:
1. EXTEND CYLINDER TO LOCK PIN IN PLACE.
2. LOAD PRODUCT TO PIN AND PERFORM TOOL OPERATION.
3. RETRACT CYLINDER, ALLOWING PIN TO FLOAT.
4. UNLOAD PRODUCT FROM PIN.
5. REPEAT SEQUENCE.

- PINS ARE HARDENED TO Rc 48-52, WITH WELD SPATTER RESISTANT COATING
- PIN HAS A 1.5mm RADIAL FLOAT WHEN UNIT IS PNEUMATICALLY RETRACTED.
- FLOATING FEATURE IS SHIELDED TO RESIST CONTAMINANTS.
- INTEGRATED PNEUMATIC CYLINDER, 28mm BORE x 11mm STROKE
- 1/8" NPT OR G 1/8 PORTS
- PIN DIAMETER RANGE: 3mm - 13mm
- ROUND PINS ONLY, NO ANTI-ROTATE. PIN DOES NOT RETRACT.
- REDUCES PIN WEAR & PART BIND WHEN UNLOADING PART

UNIT WEIGHT IS APPROX 1.5 LBS BASED ON LARGEST CONFIGURATION

RELEASED 1/15/21
### Pin Diameter

<table>
<thead>
<tr>
<th>XXXX</th>
<th>(i.e. 8.00mm Pin = 0800)</th>
</tr>
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<tr>
<td></td>
<td>(3.00mm-13.00mm Dia Range)</td>
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### Pin Length (mm)

- **06-12** For Pin Dia 3.00 - 8.00
- **06-32** For Pin Dia 8.01 - 13.00

### Pin Type

- **A** Cone
- **E** Low Profile

### Body Style

- **A** 11.0 Dia thru & 8.00 Dia Dowels (Side)
- **B** M10 Tap thru & 8.00 Dia Dowels (Side)
- **C** 9.0 Dia thru & 8.00 Dia Dowels (Side)
- **D** M8 Tap thru & 8.00 Dia Dowels (Side)
- **E** M8 Tap & 8.00 Dia Dowels (End)
- **F** M10 Tap & 8.00 Dia Dowels (End)
- **G** 8.5 Dia thru & 8.00 Dia Dowels (Side) and M8 Tap & 8.00 Dia Dowels (End)

### Actuator

- **N** 1/8 NPT
- **G** G1/8

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**SWAPPING FROM FIXED NAAMS PIN RETAINER AND STANDARD PIN TO WELKER NMP FLOATING PIN**

<table>
<thead>
<tr>
<th>NAAMS PIN DIA</th>
<th>NAAMS STYLES ASP, ARP AQP</th>
<th>NAAMS LENGTH (DIM A)</th>
<th>WELKER EQV PIN LENGTH</th>
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<tbody>
<tr>
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*L3 SWITCH: DUAL SENSOR, SINGLE CONNECTOR
4-WIRE, 4-PIN, DC (PNP) M12 X 1 QUICK DISCONNECT

*NOTE THAT SOME MID AND LOW FREQUENCY DC RESISTANCE APPLICATIONS (I.E. ALUMINUM RESISTANCE WELDING APPLICATIONS) MAY CAUSE A FAULT. IN THESE APPLICATIONS, IT IS RECOMMENDED THAT THE SENSOR BE IGNORED/BYPASSED DURING THE WELDING CYCLE.
NMP BODY STYLES
SWITCH NOT SHOWN FOR CLARITY

BODY STYLES
A, B, C & D

DIRECT REPLACEMENT FOR NAAMS PIN RETAINERS
SIDE MOUNTING
SEE SHEET 4 FOR DIMENSIONS

BODY STYLES
E & F

DIRECT REPLACEMENT FOR NAAMS PIN RETAINERS
END MOUNTING
SEE SHEET 5 FOR DIMENSIONS

BODY STYLE
G

DIRECT REPLACEMENT FOR WELKER RMP RETRACTING MICRO PIN
SIDE & END MOUNTING
SEE SHEET 6 FOR DIMENSIONS

(DO NOT SCALE DRAWING)
GENERAL DIMENSIONS: BODY STYLES A, B, C & D*
SIDE MOUNT

- BODY STYLE A (SHOWN)
  - Ø8.00 P.F. THRU (2) PLACES
  - Ø11.00 DRILL THRU (2) PLACES
- BODY STYLE C
  - Ø9.00 DRILL THRU (2) PLACES
- BODY STYLE B (SHOWN)
  - M10x1.5 TAP THRU (2) PLACES
  - M8x1.25 TAP THRU (2) PLACES
- LOW PROFILE PIN (PIN OPTION E)
- CONE PIN (PIN OPTION A)
- UNIT WEIGHT IS APPROX 1.5 LBS BASED ON LARGEST CONFIGURATION

*SWITCH INCLUDED, NOT SHOWN FOR CLARITY

ENGINEERED PRODUCTS
800-229-0890 www.welkerproducts.com
GENERAL DIMENSIONS: BODY STYLES E & F*
END MOUNT

BODY STYLE E (SHOWN)
M8x1.25 TAP \( \varnothing \) 15.00 (2) PLACES
BODY STYLE F
M10x1.5 TAP \( \varnothing \) 15.00 (2) PLACES
\( \varnothing \)8.00 P.F. \( \varnothing \) 15.00 (2) PLACES

UNIT WEIGHT IS APPROX 1.5 LBS BASED ON LARGEST CONFIGURATION

*SWITCH INCLUDED, NOT SHOWN FOR CLARITY

CONE PIN (PIN OPTION A)
LOW PROFILE PIN (PIN OPTION E)
GENERAL DIMENSIONS: BODY STYLE G*
SIDE & END MOUNT
DIRECT REPLACEMENT FOR WELKER RMP
RETRACTING MICRO PIN

LOW PROFILE PIN (PIN OPTION E)
Ø8.00 P.F. THRU (3) PLACES
Ø8.50 DRILL THRU (2) PLACES

CONE PIN (PIN OPTION A)
Ø8.00 P.F. ⌀16.00 (2 PLACES)

M8x1.25 TAP ⌀16.00 (2 PLACES)

UNIT WEIGHT IS APPROX 1.5 LBS BASED ON LARGEST CONFIGURATION

*SWITCH INCLUDED, NOT SHOWN FOR CLARITY

SHEET 6
REPLACEMENT PIN INFORMATION

Pin Diameter

XXXX (i.e. 8.00mm Pin = 0800)
(3.00mm-13.00mm Dia Range)

Pin Length (mm)

06-12 For Pin Dia 3.00 - 8.00
06-32 For Pin Dia 8.01- 13.00

Pin Type

A Cone
E Low Profile

Ø7.00 [Ø0.276] PIN SHOWN
PIN DIA RANGE IS
Ø3.00 - Ø13.00

CONE PIN
(PIN OPTION A)

LOW PROFILE PIN
(PIN OPTION E)

1.0 X 45°

OVERALL HEIGHT
VARIES WITH
PIN DIAMETER

DEPENDING ON PIN
DIA & LENGTH
DIMS VARY BETWEEN
7.2 (Ø3.00 DIA x 6MM LG) TO
51.96 (Ø13.00 DIA X 32mm LG)

SWAPPING FROM
FIXED NAAMS PIN RETAINER AND STANDARD PIN
TO WELKER NMP FLOATING PIN

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LOAD INFORMATION

ALLOWABLE SIDE LOAD
WITH CYLINDER EXTENDED

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<tr>
<th>CYLINDER LINE PRESSURE</th>
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<tbody>
<tr>
<td>60 PSI</td>
<td>10 LBS</td>
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