RMP RETRACTING MICRO PIN

- CAN BE USED WITHOUT BACKUP. NO PIN MODIFICATION BELOW PIN SHOULDER
- NO SEALS IN BACKUP. BACKUP CAN BE MACHINED AWAY FOR CLEARANCE
- CUSTOMER-REPLACEABLE PIN
- ROUND PINS ONLY, NO ANTI-ROTATE
- 6mm PIN ENGAGEMENT, 15mm STROKE
- RAP COUPLER

12mm MAX DIAMETER PIN FULLY RETRACTS INTO BACKUP
NAAMS 8mm DOWEL WITH M8 TAP & THRU MULTI-SIDED MOUNTING
LIGHTWEIGHT ALUMINUM BODY
1/8" NPT OR G1/8 PORTS
WELD-FIELD IMMUNE SOLID STATE SWITCH (INCLUDED)

NAAMS COMPATIBLE COMPACT 2-WAY OR 3-WAY SHIMMING

CLAMPING BACKUP
ORDERING INFORMATION

Pin Diameter
XXXX  Pin Diameter (i.e. 8.00mm Pin = 0800)
       (3.00mm-12.00mm Diameter Range)

Backup
X  No Backup
B  With Backup

Actuator
N  NPT port cylinder
G  G Port Cylinder

REPLACEMENT PIN KIT ORDERING
KIT INCLUDES PIN, WIPER, INNER SEAL, PISTON SEAL, AND PLUG SEAL

Pin Diameter
XXXX  Pin Diameter
       3.00 - 12.00mm
       Example:
       8.00mm = 0800

APPLICATIONS
Retracting Micro Pins are for small, lightweight parts with minimal side load. 
Buyoffs must include hole size and tolerance. No flow controls required or recommended.

Good applications:
• Metal \leq 1.5mm thick
• Vertical applications with small parts, pin pointing up
• Multiple metal with one hole being 2-way or clearance
• End effectors: closures, door, hood, deck lid, seating lines
• Non-automotive industries
• Load to extended pin, not a repositioning device

Bad applications:
• Multiple metal with same hole size
• Vertical applications with pin pointing down
• Horizontal applications with pin pointing up
• Horizontal applications with heavy parts or where the pinned part becomes part of heavy assembly
• Applications that will produce side loads >20 lbf on pin
GENERAL DIMENSIONS

DESIGNER'S NOTE: SHIMMING RECOMMENDED FOR X, Y, AND Z

UNIT WEIGHT: 1.3 LBS
PIN & SEAL REPLACEMENT

1. DISCONNECT AIR LINES TO UNIT.
2. REMOVE M4 SCREWS & LOCK WASHERS SECURING PLUG TO UNIT BODY.
3. REMOVE PLUG.
4. BACK PIN AND PISTON OUT OF UNIT AND REMOVE.
5. SLIDE PIN OUT FROM SLOT IN PISTON.
6. REPLACE PLUG SEAL & PISTON SEAL, APPLYING MAGNALUBE OR EQUIVALENT.
7. REMOVE M5 BACKUP SCREWS & LOCKWASHERS. REMOVE BACKUP, IF PRESENT.
8. REMOVE WIPER, NOTING ORIENTATION. REMOVE INNER SEAL.
9. APPLY MAGNALUBE OR EQUIVALENT TO PISTON, PIN, SEALS AND BODY BORE.
10. INSTALL NEW SEAL, WIPER. INSTALL NEW PIN TO SLOT IN PISTON.
11. REASSEMBLE UNIT.
12. APPLY REMOVEABLE THREAD ADHESIVE TO SCREWS. TORQUE TO SHOWN.

<table>
<thead>
<tr>
<th>Bolt Size</th>
<th>Steel</th>
<th>Aluminum</th>
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<tbody>
<tr>
<td>M4</td>
<td>5 Nm</td>
<td>2.5 Nm</td>
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<tr>
<td></td>
<td>4 ft lb.</td>
<td>2 ft lb.</td>
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<tr>
<td>M5</td>
<td>10 Nm</td>
<td>5 Nm</td>
</tr>
<tr>
<td></td>
<td>7.375 ft lb.</td>
<td>3.6875 ft lb.</td>
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<tr>
<td>M6</td>
<td>19 Nm</td>
<td>9.5 Nm</td>
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<tr>
<td></td>
<td>14.014 ft lb.</td>
<td>7.007 ft lb.</td>
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<tr>
<td>M8</td>
<td>45 Nm</td>
<td>22.5 Nm</td>
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<tr>
<td></td>
<td>33.19 ft lb.</td>
<td>16.595 ft lb.</td>
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<tr>
<td>M10</td>
<td>89 Nm</td>
<td>44.5 Nm</td>
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<td></td>
<td>65.643 ft lb.</td>
<td>32.8215 ft lb.</td>
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<tr>
<td>M12</td>
<td>156 Nm</td>
<td>78 Nm</td>
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<tr>
<td></td>
<td>115.06 ft lb.</td>
<td>57.53 ft lb.</td>
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</tbody>
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