BP2 LOCKOUT PIN

LOCKOUT PIN FEATURES

- PNEUMATIC, DOUBLE ACTING RETRACTABLE PIN
- OPTIONAL SPRING EXTEND (AIR LOSS TRIGGERS MECHANICAL SPRING EXTENSION)
- PNEUMATIC 50MM BORE INTEGRATED CYLINDER
- 2500 LBF LOCKOUT LOAD CAPACITY

LOCKOUT APPLICATIONS

- TURNTABLES
- TRUNNION FIXTURES
- TURN-OVER UNITS
- LIFTERS & SLIDES
- SAFETY COMPLIANCE

2-WAY & 4-WAY

LOCKOUT RECEIVERS

ORDERED SEPARATELY SEE SHEETS 4 & 5

CLEARANCE HOLE

RELEASED 1/15/21

Welker Engineered Products  1401 Piedmont, Troy MI 48083  (800) 229-0890  www.welkerproducts.com
**ORDERING INFORMATION**

NOTE: ALL BOXES MUST BE FILLED IN FOR A COMPLETE PART NUMBER

<table>
<thead>
<tr>
<th>Stroke</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>025</td>
<td>25mm Stroke</td>
</tr>
<tr>
<td>050</td>
<td>50mm Stroke</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cylinder</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Welker 50mm Bore w/ NPT ports</td>
</tr>
<tr>
<td>02</td>
<td>Welker 50mm Bore w/ G ports</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pin Nose</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Conical</td>
</tr>
<tr>
<td>2</td>
<td>Flat</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Spring Extend</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No spring</td>
</tr>
<tr>
<td>E</td>
<td>Spring Extend</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Switch</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>No switch</td>
</tr>
<tr>
<td>LX</td>
<td>See Welker Cylinder Switch Chart</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bearing</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Standard</td>
</tr>
<tr>
<td>H</td>
<td>Maintenance free, PTFE composite lined</td>
</tr>
</tbody>
</table>

**SPRING EXTEND OPTION “E”: SPRING FORCE**

<table>
<thead>
<tr>
<th>STROKE</th>
<th>ACTUATOR 01/02</th>
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<tbody>
<tr>
<td>25mm STROKE EXTENDED</td>
<td>30 LBF</td>
</tr>
<tr>
<td>50mm STROKE EXTENDED</td>
<td>20 LBF</td>
</tr>
<tr>
<td>FULLY RETRACTED</td>
<td>40 LBF</td>
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</table>

<table>
<thead>
<tr>
<th>Cylinder Switches</th>
<th>Part Number</th>
<th>Manufacturer</th>
<th>Description</th>
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<tbody>
<tr>
<td>L3</td>
<td>SWITCH L3*</td>
<td>Welker</td>
<td>4-Wire, 4-Pin, DC (PNP) M12 X 1 Quick Disconnect</td>
</tr>
<tr>
<td></td>
<td>L3 switch is weld field immune, comparable to World Switches. Dual sensor switch, 1 per cylinder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L5</td>
<td>MKS113</td>
<td>ifm Efector</td>
<td>3-Wire, 4-Pin, DC (NPN) M12 X 1 Quick Disconnect</td>
</tr>
<tr>
<td></td>
<td>Single sensor switch, 2 switches are installed per cylinder</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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.*

**LOCKOUT RECEIVERS**

ORDERED SEPARATELY
SEE SHEETS 4 & 5

248-528-2020 www.welkerproducts.com
GENERAL DIMENSIONS

1/8" NPT OR G1/8 PORTS

FLAT PIN
RETRACTED POSITION

CONICAL PIN
RETRACTED POSITION

NOTES:
- ALL RAMS ARE HARDENED 4140 Rc 45 MIN.
- CYLINDERS INCLUDE MAGNETIC PISTON
- OPTIONAL SPRING EXTEND
  (AIR LOSS TRIGGERS MECHANICAL SPRING EXTENSION)

BP2 UNIT WEIGHT: 8.4 LBS.

WEIKER ENGINEERED PRODUCTS
248-528-2020 www.welkerproducts.com
**BP2NE90 LOCKOUT PIN RECEIVER (2-WAY)**

CONICAL PIN NOSE OPTION "1"  
CARB & HARDENED Rc 45-50

2-WAY RECEIVER - FOR USE WITH CONICAL NOSE PIN AS LOCATOR

18 MAX SET UP FOR  
25mm STROKE UNIT

25 RETRACTED

50.00 CENT.  
25.00

24.25 MAX.  
WITH UNIT SHOWN  
(49.25 MAX FOR 50mm  
STROKE OPTION)

4X Ø10.50 THRU  
Ø17.00 x 12.0  
FROM FARSIDE

**BP2NE91 LOCKOUT PIN RECEIVER (4-WAY)**

CONICAL PIN NOSE OPTION "1"  
CARB & HARDENED Rc 45-50

4-WAY RECEIVER - FOR MORE ACCURATE LOCATING, USE WITH CONICAL  
NOSE PIN AS A FINAL POSITIONER OR SAFETY LOCKOUT

SAME SET UP  
CONDITION AS  
#BP2NE90  
SHOWN ABOVE

Ø39.98  
Ø39.80 PILOT

DOUBLE CONE FOR  
REVERSE MOUNTING

SECTION A-A

Ø26.00

60.00° ± 0.5°  
CONICAL INCL ANGLE  
TYP BOTH SIDES

Ø76 FLANGE

4X Ø9 DRILL THRU  
EVENLY SPACED ON A  
Ø60.00 BOLT CIRCLE

(DO NOT SCALE DRAWING)
BP2 CLEARANCE RECEIVERS
ORDERED SEPARATELY

BP2NE92 LOCKOUT PIN RECEIVER (CLEARANCE)
PIN NOSE OPTION "2", 50mm STROKE
CLEARANCE HOLE - FOR USE WITH FLAT/CONICAL NOSE PIN AS SAFETY LOCK-OUT

BP2NE95 LOCKOUT PIN RECEIVER (CLEARANCE)
PIN NOSE OPTION "2", 25mm STROKE
CLEARANCE HOLE - FOR USE WITH FLAT/CONICAL NOSE PIN AS SAFETY LOCK-OUT

(DO NOT SCALE DRAWING)