PASS-THRU GROUND BLOCKS

FULLY INSULATED, COMPACT UNITS THAT MOVE THE GROUNDING CABLE AWAY FROM THE CONTACT FACE. PNEUMATIC AND SPRING ACTUATED VERSIONS PROVIDE CONSISTENT PRESSURE FOR WELD CONSISTENCY.

GBP
PNEUMATIC ACTUATED UNIT

CLASS 2 COPPER ROD ELECTRICALLY INSULATED FROM MOUNTING BLOCK

LIGHTWEIGHT ALUMINUM BODY

OPTION "0" (NO TIP)

ACETAL (POM) BASE

NOSE OPTIONS:

FLAT SWIVEL HEAD

SERRATED SWIVEL HEAD (NOT AVAILABLE WITH GBM)

GBS
SPRING ACTUATED UNIT

NAAMS STANDARD MOUNTING

WRENCH FLATS

GROUND ATTACHMENT

ACETAL (POM) BASE

PROJECTION SWIVEL HEAD (NOT AVAILABLE WITH GBM)

GBM
SPRING ACTUATED MICRO UNIT

SIDE MOUNTING BODY STYLE

END MOUNTING BODY STYLE

RELEASED 6/16/21
GBP UNIT INCLUDES
WELKER L3 WELD
FIELD IMMUNE* SWITCH

GBP UNIT INCLUDES
WELKER L3 WELD
FIELD IMMUNE* SWITCH

Nose Option

0  None
B  Flat Swivel head
C  Serrated Swivel head
D  Projection Swivel head
E  Small Flat Swivel head

Port

N  1/8 NPT (Adapters Included)
G  G 1/8

** TRAVEL NOTE:
CYLINDER HAS 12mm OF FULL TRAVEL. IT
IS RECOMMENDED TO SET UNIT UP WITH
3mm TO GO TO INSURE PART CONTACT.
BY DOING THIS, THE OVERALL TRAVEL
WILL BE REDUCED TO 9mm.

UNIT WEIGHT: 4 LBS (1.8 KG)
MAX CYL FORCE: 55lbf @ 60 PSI
MAX. CURRENT CAPACITY: 265 amps
GBS SPRING ACTUATED UNIT ~ ORDER INFO & DIMENSIONS

Nose Option

0  None
B  Flat Swivel head
C  Serrated Swivel head
D  Projection Swivel head
E  Small Flat Swivel head

12mm MAX. STROKE
MIN. 3mm STROKE
TO GO RECOMMENDED

#2 MT TAPER
Ø8.00 P.F. 12.00
(2) PLACES

M8x1.25 ø 16.00
NEARSIDE & C'BORE
FOR M6 OR 1/4" SHCS
FARSIDE (4) PLACES

UNIT WEIGHT: 4 LBS
APPROX SPRING FORCE:
INITIAL: 4 LB.
FULLY RETRACTED: 14 LB.
MAX. CURRENT CAPACITY: 340 amps

M10x1.5 TAP ø 15.00
GROUND ATTACHMENT

19.0 FLATS CENT.

SEE NOSE OPTIONS, SHEET 5

(Do not scale drawing)
GBM SPRING MICRO UNIT ~ ORDER INFO & DIMENSIONS

G B M

L 3

Nose Option

0 None
B X-Large Flat Swivel head
C Large Flat Swivel head
D Medium Flat Swivel head
E Small Flat Swivel head

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)

NOTE: GBM SWIVEL TIPS ARE NOT INTERCHANGEABLE WITH GBP & GBS

GBM UNIT INCLUDES WELKER L3 WELD FIELD IMMUNE** SWITCH

BODY STYLES WITH SIDE MOUNTING HOLES: A, B, C, D

SEE SHEET 5 FOR NOSE OPTION INFO
#1 MT TAPER
Ø8.00 P.F THRU (2) PLACES
WELKER L3 WELD FIELD IMMUNE** SWITCH
TAP OR THRU HOLE (2) PLACES
SEE ORDER INFO FOR HOLE TYPE & SIZE

*HOLE PATTERN TYPICAL ALL BODY STYLES

25.00 CENT.

10.00*

15.00*

30.00*

BODY STYLES WITH END MOUNTING HOLES: E, F

TAP HOLE ø 15.00 (2) PLACES
SEE ORDER INFO FOR HOLE SIZE
Ø8.00 P.F. ø 15.00 (2) PLACES

UNIT WEIGHT: 1.5 LBS (.68 KG)
APPROX SPRING FORCE:
INITIAL: 8.5 LB.
FULLY RETRACTED: 11.5 LB.
MAX. CURRENT CAPACITY: 300 amps
(Do Not Scale Drawing)

GBM SPRING MICRO UNIT ~ ORDER INFO & DIMENSIONS

WELKER ENGINEERED PRODUCTS
800-229-0890 www.welkerproducts.com

SHEET 4
SWITCH INFORMATION

<table>
<thead>
<tr>
<th>Switch</th>
<th>Part Number</th>
<th>Manufacturer</th>
<th>Description</th>
</tr>
</thead>
<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>
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</tbody>
</table>

*L3 switch is weld field immune, comparable to World Switches. Dual sensor switch, 1 per cylinder

*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.

GBP & GBS NOSE OPTIONS: #2 MT TAPER

<table>
<thead>
<tr>
<th>OPTION</th>
<th>SWIVEL HEAD</th>
<th>DIM &quot;X&quot;</th>
<th>RE-ORDER PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>FLAT SWIVEL HEAD</td>
<td>38.1mm (1.5&quot;)</td>
<td>SN-1512</td>
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<tr>
<td>C</td>
<td>SERRATED</td>
<td>38.1mm (1.5&quot;)</td>
<td>GB3E25</td>
</tr>
<tr>
<td>D</td>
<td>PROJECTION</td>
<td>38.1mm (1.5&quot;)</td>
<td>GBPH25E150200</td>
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<tr>
<td>E</td>
<td>SMALL FLAT</td>
<td>22.2mm (0.88&quot;)</td>
<td>SN-157</td>
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</table>

GBM NOSE OPTIONS: #1 MT TAPER

<table>
<thead>
<tr>
<th>OPTION</th>
<th>SWIVEL HEAD</th>
<th>DIM &quot;X&quot;</th>
<th>RE-ORDER PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>X-LARGE FLAT</td>
<td>38.1mm (1.5&quot;)</td>
<td>SN-1412</td>
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<tr>
<td>C</td>
<td>LARGE FLAT</td>
<td>31.8mm (1.25&quot;)</td>
<td>SN-1410</td>
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<tr>
<td>D</td>
<td>MEDIUM FLAT</td>
<td>25.4mm (1&quot;)</td>
<td>SN-148</td>
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<tr>
<td>E</td>
<td>SMALL FLAT</td>
<td>22.2mm (0.88&quot;)</td>
<td>SN-147</td>
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</tbody>
</table>

NOTE: GBM SWIVEL TIPS ARE NOT INTERCHANGEABLE WITH GBP & GBS

NOSE OPTIONS

ALL SWIVEL HEADS ARE RWMA CLASS 2 COPPER