| NB: models, Codes and Specifications may be subject to change wit | thout notice. |
|--|---------------|
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| CASAPPA HAND PUMPS | |
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| HAND LEVER | В 30 |
| | |
| | |
| | |





Polaris Series - Group 1 Mount Type: EUROMOUNT **Application: Standard Duty SHAFT**

PLP10 - Group 1 EURO Mount



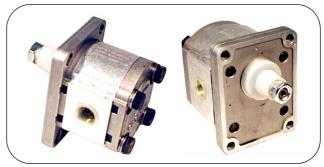
| | DISP. | MA | X PRESS | URE | МАХ | PO | RTS | DIM | | | |
|-------------------------------------|------------|------------|------------|------------|----------------|----------|-------|------------|---------|----------------|----------------|
| PUMP TYPE | CC/ | P1 | P2 | P3 | SHAFT SPEED | ADA | PTOR | N | 1M | | LIST PRIC |
| | REV | | BAR | | | IN | OUT | Α | I | В | |
| LP10-1D-81E1-BBBA | 1 | | 200 | 200 | | | | 65.7 | 31 | 1.6 | \$POA |
| LP10-2D-81E1-BBBA | 2 | 260 | 280 | 290 | | | | 68.9 | 33 | 3.2 | \$POA |
| LP10-3.15D-81E1-BBBA | 3.1 | | | | 4000 | | | 72.5 | 3 | 35 | \$POA |
| LP10-4D-81E1-BBBA | 4 | 250 | 270 | 280 | | 1GQ12 | 1GQ12 | 2 75.3 | | 5.4 | \$POA |
| P10-5D-81E1-BBBA | 4.9 | | | | | | | 78.5 | | 88 | \$POA |
| P10-6.3D-81E1-BBBA | 6.2 | 230 | 250 | 260 | 2500 | | | 82.5 | | 10 | \$POA |
| .P10-8D-81E1-BBBA | 7.9 9.9 | 180 140 | 200 160 | 210 170 | 3500 | | | 88 94.5 | | 2.8 16 | \$POA \$POA |
| DISPLACEME | SERIES | FF | PLP10- | 10 D | - 81 E1 | BBE | 3A | | | | |
| Rotati | on Code | s | haft Code | | Mount | t Code | | Port | Cod | е | |
| S = Counte | clockwise | | 81 = Tap | er | E1 = Eu | ro Mount | | BB = IN PC | ORT | | |
| D = Clockw | se | | 1 IN | 8 | | | | BA = OUT | PORT | - | |
| | | | | | | ◆ | | | |)= | |
| | | | | | | | | | | | |
| | | | ONNECTOF | | | MUI | | UMP PRICIN | IG | | |
| | | PORT C | | RS Port | Price | MU | | UMP PRICIN | IG | Price | - |
| | | | lo. F | | Price \$POA | | ARRAN | | IG + | Price \$PO/ | |
| | | Part N | lo. F | Port | | ** | ARRAN | IGED FOR | | | \ |
| Port Connector Must be ordered s | | Part N | lo. F | Port | | ** | ARRAN | IGED FOR | + | \$PO/ | \ |





Polaris Series - Group 1 Mount Type: EUROMOUNT/HD Application: Heavy Duty SHAFT

PLP10 - Group 1 EURO Mount HD



| | | MA | X PRESS | JRE | МАХ | PO | RTS | D | IM | |
|-----------------------|-----------------|--------|----------|-----------|----------------|----------|--------------------|----------|-------------------|-----------|
| PUMP TYPE | DISP. CC/REV | P1 | P2 | P3 | SHAFT SPEED | BS | SPP | м | IM | LIST PRIC |
| | | | BAR | | _ | IN | Ουτ | Α | В | |
| PLP10-1D-86E7-GCGC | 1 | | | | | | | 65.7 | 31.6 | \$POA |
| PLP10-2D-86E7-GCGC | 2 | 260 | 280 | 290 | | 3/8″ | 3/8″ | 68.9 | 33.2 | \$POA |
| PLP10-3.15D-86E7-GCGC | 3.1 | | | | 4000 | 5,0 | 0,0 | 72.5 | 35 | \$POA |
| PLP10-4D-86E7-GCGC | 4 | 250 | 270 | 280 | | | | 75.3 | 36.4 | \$POA |
| PLP10-5D-86E7-GDGD | 4.9 | | | | | | | 78.5 | 38 | \$POA |
| PLP10-6.3D-86E7-GDGD | 6.2 | 230 | 250 | 260 | | 1/2″ | 1/2″ | 82.5 | 40 | \$POA |
| PLP10-8D-86E7-GDGD | 7.9 | 180 | 200 | 210 | 3500 | (GD) | (GD) | 88 | 42.8 | \$POA |
| PLP10-10D-86E7-GDGD | 9.9 | 140 | 160 | 170 | | | | 94.5 | 46 | \$POA |
| D = Clockwise | A B | | | | 72 72 | Mount HD | | D = 1/2" | ⁷ BSPP | 、 |
| 1:8 Taper | | | | | |) | ARRAI *PLP10/10 | | | Price |
| Same pric | e as singi | e puin | s plus c | 122611101 | y KILS. | | 1 21 10/10 | Double | e + | \$POA |
| Same pric | e as singi | e puni | | 155611101 | Y KILS. | | *PLP10/10 | | | |





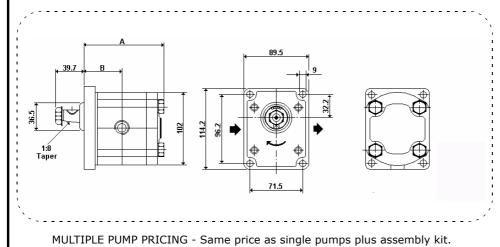
Polaris Series - Group 2 Mount Type: EUROMOUNT

PLP20 - Group 2 EURO Mount



| PLP20-6.3D-82E2-GDGD 6.5 PLP20-8D-82E2-GDGD 8.3 PLP20-9D-82E2-GDGD 9.0 PLP20-11.2D-82E2-GDGD 11.1 PLP20-14D-82E2-GEGD 14.4 PLP20-16D-82E2-GEGD 16.0 | A 93 95.5 98 99.3 102.5 | 46.2 | LIST PRICE \$POA \$POA \$POA |
|--|---|--------------------|---------------------------------------|
| PLP20-4D-82E2-GDGD 4.8 PLP20-6.3D-82E2-GDGD 6.5 PLP20-8D-82E2-GDGD 8.3 PLP20-9D-82E2-GDGD 9.0 PLP20-11.2D-82E2-GDGD 11.1 PLP20-14D-82E2-GEGD 14.4 PLP20-16D-82E2-GEGD 16.0 | 93 95.5 98 99.3 | 43.7 45 46.2 | \$POA |
| PLP20-6.3D-82E2-GDGD 6.5 PLP20-8D-82E2-GDGD 8.3 PLP20-9D-82E2-GDGD 9.0 PLP20-11.2D-82E2-GDGD 11.1 PLP20-14D-82E2-GEGD 14.4 PLP20-16D-82E2-GEGD 16.0 | 95.5 98 99.3 | 45 46.2 | \$POA |
| PLP20-6.3D-82E2-GDGD 6.5 PLP20-8D-82E2-GDGD 8.3 250 280 300 1/2" (GD) 1/2" 1/2" (GD) 1/2" 1/2" 1/2" 1/2" (GD) 1/2" 1/2" (GD) 1/2" (GD) 1/2" 1/2" 1/2" (GD) 1/2" <th< td=""><td>98 99.3</td><td>46.2</td><td></td></th<> | 98 99.3 | 46.2 | |
| PLP20-3B-82E2-GDGD 8.3 250 280 300 (GD) (GD) PLP20-9D-82E2-GDGD 11.1 11.1 11.1 11.1 11.1 11.1 PLP20-14D-82E2-GEGD 14.4 14.4 11.1 11.1 11.1 | 99.3 | - | \$POA |
| PLP20-9D-82E2-GDGD 9.0 PLP20-11.2D-82E2-GDGD 11.1 PLP20-14D-82E2-GEGD 14.4 PLP20-16D-82E2-GEGD 16.0 3000 3/4" 1/2" | | 46.9 | |
| PLP20-11.2D-82E2-GEGD 11.1 PLP20-14D-82E2-GEGD 14.4 PLP20-16D-82E2-GEGD 16.0 3000 3/4" 1/2" | 102.5 | | \$POA |
| PLP20-16D-82E2-GEGD 16.0 3000 3/4" 1/2" | | 6 48.5 | \$POA |
| 3000 3/4" 1/2" | 107.5 | 5 51 | \$POA |
| 3/4'' $1/2''$ | 111 | 52.7 | \$POA |
| PLP20-20D-82E2-GEGD 20.8 200 220 240 (GE) (GD) | 117.5 | 5 56 | \$POA |
| PLP20-25D-82E2-GEGD 26 170 190 210 2500 | 125.5 | 60 | \$POA |
| PLP20-31.5D-82E2-GEGD 32.6 130 150 170 2000 | 135.5 | 65 | \$POA |

| Rotation Code | Shaft Code | Mount Code | Port Code |
|----------------------|------------|-----------------|-----------------|
| S = Counterclockwise | 82 = Taper | E2 = Euro Mount | GD = 1/2'' BSPP |
| D = Clockwise | 1 IN 8 | | GE = 3/4" BSPP |



| ARRANGED FOR | • | PRICE |
|-----------------|---|-------|
| **PLP20/20 | + | \$POA |
| **PLP20/10 | + | \$POA |
| **PLP20/20/20 | + | \$POA |
| **PLP20/20/10 | + | \$POA |
| **PLP20/10/10 | + | \$POA |





Polaris Series - Group 3 Mount Type: EUROMOUNT

PLP30 - Group 3 EURO Mount



| | DISP. | | PRESS | SURE | MAX | PO | RTS | DI | | | |
|--|-----------------|-----|--------------|------|---|----------------------------------|-------------------------|------------------------------------|----------------------|-------|-------------------------|
| PUMP TYPE | CC/ REV | P1 | P2 | Р3 | SHAFT SPEED | ADA | PTOR | M | м | LIS | ST PRICE |
| | REV | | BAR | | | IN | OUT | Α | В | | |
| LP30-22D-83E3-GF | GF 21.89 | 250 | 270 | 280 | | | | 130 | 63 | | \$POA |
| LP30-27D-83E3-GF | GF 26.58 | 230 | 270 | 200 | | | | 133 | 64.5 | | \$POA |
| LP30-34D-83E3-GF | GF 34.39 | 240 | 260 | 270 | 3000 | 1″ (GF) | 1″ (GF) | 138 | 67 | | \$POA |
| LP30-38D-83E3-GF | GF 38.53 | 2.0 | 200 | 270 | | 1 (0.) | - (0.) | 141 | 68.5 | | \$POA |
| LP30-43D-83E3-GF | | 260 | 250 | 260 | | | | 144 | 70 | | \$POA |
| LP30-51D-83E3-GF | | 210 | 230 | 240 | 2500 | | | 149 | 72.5 | | \$POA |
| LP30-61D-83E3-GG | | 190 | 210 | 220 | 2500 | 1 1/4″ (GG |) 1″ (GF) | 155 | 75.5 | | \$POA |
| LP30-73D-83E3-GG | GF 73.47 | 170 | 190 | 200 | | | | 163 | 79.5 | | \$POA |
| Rotat | ion Code | Sh | aft Cod | e | Mount | : Code | | Рог | rt Code | 9 | |
| S = Counte | erclockwise | 8 | 33 = Tap | ber | E3 = Eur | ro Mount | | GF = 1″ E | BSPP | | |
| D = Clockw | 120 | | | | | | - | CC = 1.1 | | חר | |
| D = CIOCKW | lise | | 1 IN | 8 1 | | | | GG = 1 1, | /4 DSF | -P | |
| | | | | | | | | | | | |
| 47 47 1:8 Taper | | | 157 | | 122 | | | ARRANG | | | PRICE |
| 1:8 Taper | | | | | ARRANGED FO | | PRICE | ARRANG | | | |
| 1:8 Taper | RICING | | + <u>147</u> | | ARRANGED FC | DR F | PRICE | ARRANG **PLP30/30 | 0/10 | + | \$POA |
| 1:8 Taper MULTIPLE PUMP PI Same price as sing | RICING | | + 14/ → | | ARRANGED FC **PLP30/20 | DR F | PRICE \$POA \$POA | ARRANG **PLP30/30 |)/10)/20 | +++ | \$POA \$POA |
| 1:8 | RICING | | | | ARRANGED FC **PLP30/30 **PLP30/10 | DR F | PRICE \$POA \$POA | ARRANG **PLP30/30 **PLP30/20 |)/10)/20)/10 | +++++ | \$POA \$POA \$POA |
| 1:8 Taper MULTIPLE PUMP PI Same price as sing | RICING | | | | ARRANGED FC **PLP30/20 | DR F + 9 + 9 + 9 + 9 | PRICE \$POA \$POA | ARRANG **PLP30/30 |)/10)/20)/10 | +++ | \$POA \$POA |





Polaris Series - Group 2 Mount Type:SAE "A" 2 Bolt Mount Application: Heavy Duty

PLP20 - Group 2 SAE



| | DICD | МАХ | PRESS | SURI | E | МАХ | PO | RTS | DI | м | | |
|---|--------------|--------------------|--------------------------|-------|-----------|----------------|--------------|--------------|-----------------|----------|------------|--|
| PUMP TYPE | DISP. CC/ | P1 | P2 | Р | 3 | SHAFT SPEED | ADAI | PTOR | M | | LIST PRICE | |
| | REV | | BAR | | | | IN | Ουτ | Α | В | | |
| PLP20-4D-03S1-GDGD | 4.8 | | | | | 4000 | | | 95 | 45.7 | \$POA | |
| PLP20-6.3D-03S1-GDGD | 6.5 | | | | | 4000 | | | 97.5 | 47 | \$POA | |
| PLP20-8D-03S1-GDGD | 8.3 | 250 | 200 | 2 | | | 1/2″ (GD) | 1/2″ (GD) | 100 | 48.2 | \$POA | |
| PLP20-9D-03S1-GDGD | 9 | 250 | 280 | 30 | - | 3500 | (02) | (02) | 101.3 | 48.9 | \$POA | |
| PLP20-11.2D-03S1-GDGD | 11.1 | | | | | 3300 | | | 104.5 | 50.5 | \$POA | |
| PLP20-14D-03S1-GEGD | 14.4 | | | | | | | | 109.5 | 53 | \$POA | |
| PLP20-16D-03S1-GEGD | 16 | | | | | 3000 | 2/4// | 1/7// | 113 | 54.7 | \$POA | |
| PLP20-20D-03S1-GEGD | 20.8 | 200 | 220 | 24 | | 5000 | 3/4″ (GE) | 1/2″ (GD) | 119.5 | 58 | \$POA | |
| PLP20-25D-03S1-GEGD | 26 | 170 | 190 | 21 | LO | 2500 | | () | 127.5 | 62 | \$POA | |
| PLP20-31.5D-03S1-GEGD | 32.6 | 130 | 150 | 17 | 70 | 2000 | | | 137.5 | 67 | \$POA | |
| | | Sha | ft Code | |] | Mount | | | Do | ort Code | | |
| Rotation Coo | de | Sha | ft Code | e | | Mount | Code | | Po | rt Cod | e | |
| S = Counterclockw | ise | 31 = 5/ | '8″ 9 Tootl '8″ Keyed | | S | 1 = SAE " | `A″ 2 BOLT | | GD = 1/2'' BSPP | | | |
| D = Clockwise | | 49 = 3/ 07 = 3/ | 4" Keyed 4" 11 Too | oth | | | | | GE = 3/ | 4″ BSPF | b | |
| 31.5 B 31.5 B 31.5 B 3/4" 11 TOOTH (INDENT ONI | 201 102 | 114.7 | 4 | | | | | | | | eyed (STD) | |
| `` MUL | TIPLE PL | IMP PRI | CING - | Sam | e price a | as single | pumps plu | s assem | bly kit. | | | |
| B6 | ADDIT | IONAL F | RODUC | CT IN | IFORMAT | TION AVA | ILABLE ON | I REQUE | ST | | April 2004 | |





Polaris Series - Group 3 Mount Type:SAE "B" 2 Bolt Mount Application: Heavy Duty

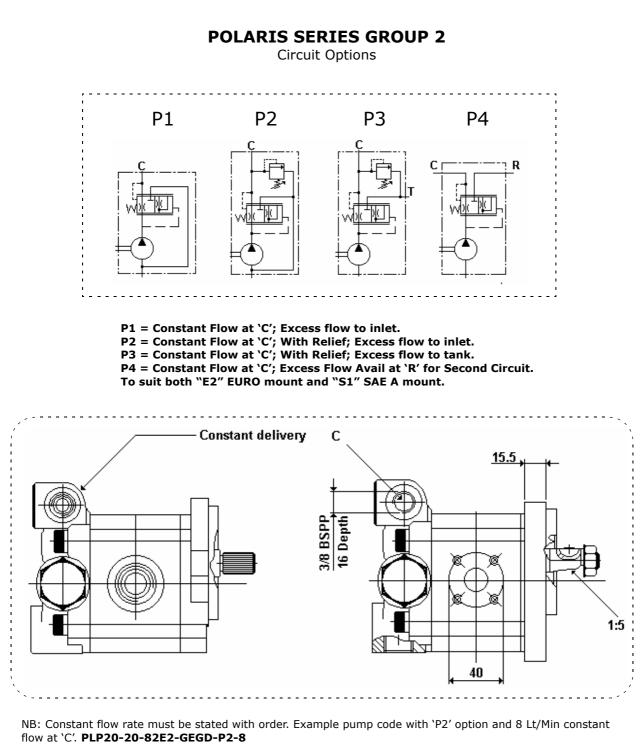
PLP30 - Group 3 SAE



| | | | F A N | | | | D 01 | RTS | | | |
|--------|-----------------|------------|--------------|--------------|-------|--------------|----------------|------------|--------|-----------|------------|
| 1 | | DISP. | | | - | MAX SHAFT | | - | _ | IM 1M | |
| | ΡυΜΡ ΤΥΡΕ | CC/ REV | P1 | P2 | P3 | SPEED | ADAI | PTOR | | | LIST PRICE |
| | | | | BAR PSI | [| | IN | OUT | A | В | |
| PLP30- | 22D-04S5-GFGF | 21.89 | 250 | 270 | 280 | | | | 158 | 92 | \$POA |
| PLP30- | 27D-04S5-GFGF | 26.58 | | | | | | | 163 | 94.5 | \$POA |
| PLP30- | 34D-04S5-GFGF | 34.39 | 240 | 260 | 270 | 3000 | 1″ | 1″ | 168 | 97 | \$POA |
| | 38D-04S5-GFGF | 38.53 | | | | | (GF) | (GF) | 173 | 99.5 | \$POA |
| | 43D-04S5-GFGF | 43.77 | 260 | 250 | 260 | | - | | 174 | 100 | \$POA |
| | 51D-04S5-GFGF | 51.59 | 210 | 230 | 240 | 2500 | | | 179 | 102.5 | \$POA |
| | 61D-04S5-GGGF | 60.97 | 190 | 210 | 220 | 2500 | 1 1/4" (GG) | 1″ (GF) | 185 | 105.5 | \$POA |
| PLP30- | 73D-04S5-GGGF | 73.47 | 170 | 190 | 200 | | | | 193 | 109.5 | \$POA |
| | Rotation C | ode | | Shaft Co | de | М | ount Code | | | Port Cod | le |
| | Rotation (| ode | | Shaft Co | de | м | ount Code | | | Port Cod | |
| | S = Countercloc | kwise | 04 = | 7/8″ 13 | Tooth | S1 = 9 | 5AE "A" 2 E | BOLT | GF = 1 | " BSPP | |
| | D = Clockwise | | | 7/8″ Ке | | | SAE "B″ 2 I | | 66 = ' | 1 1/4″ BS | SPP |
| | Belocitinoe | | 52 - | //0 Ke | yeu | 55 - 5 | DAL D ZI | BULI | | / | 511 |
| | | | | | | | | | | | |
| 23.5 | | | | 1 4.5 | | 174.5 | | | | <u>-</u> | |
| 23.5 | | | | * <u>-</u> | | | | | t. | | |







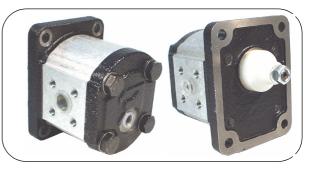
PRICING: Please consult the sales centre for pricing of these options.





Polaris Series - Group 1 Mount Type:EUROMOUNT SERIES

PLM10 - Group 1 EURO Mount



| | | | MAX CONT | МАХ | PO | RTS | OUTPUT | TORQUE | | |
|------------------|---|--------|-----------------------|-------|--------|--------------------|--------|------------------|-------------|--|
| | PUMP TYPE | DISP. | PRESSURE | SHAFT | Ada | ptor | ĸw | NM | LIST PRICE | |
| | | CC/REV | BAR | SPEED | IN OUT | | | BAR AND) RPM | | |
| PLM1 | 0-2R-81E1-BBBA | 2 | 221 | | | | 0.27 | 2.71 | \$POA | |
| PLM1 | 0-3.15R-81E1-BBBA | 3.1 | | 4000 | | | 0.42 | 4.20 | \$POA | |
| PLM1 | 0-4R-81E1-BBBA | 4 | 213 | 4000 | | | 0.54 | 5.42 | \$POA | |
| PLM1 | 0-5R-81E1-BBBA | 4.9 | 1 | | 1GQ12 | 1GQ12 | 0.66 | 6.63 | \$POA | |
| PLM1 | 0-6.3R-81E1-BBBA | 6.2 | 196 | | 1 | | 0.83 | 8.39 | \$POA | |
| PLM1 | 0-8R-86E7-GDGD | 7.9 | | 3500 | | | 1.06 | 10.70 | \$POA | |
| LM1 | 0-10R-86E7-GDGD | 9.9 | 213 | 1 | | | 1.33 | 13.40 | \$POA | |
| | Rotation Code | | Shaft Cod | e | Мо | unt Cod | le | Port | Code | |
| | Batation Code | | Shaft Cod | - | Ma | unt Cod | | Dout | Cada | |
| | Rotation couc | | | | | | | | | |
| | | 01 | - Tanor | | E1 - F | | NINT | | UL Adaptor | |
| | S = Counterclockwise | | = Taper = H.D. Taj | per | | EURO MO H.D. MO | | | RT Adaptor | |
| | | | = Taper = H.D. Taj | per | | | | | ORT Adaptor | |
| | S = Counterclockwise | | | per | | | | | - | |
| | S = Counterclockwise D = Clockwise | | | per | | | | | - | |
| , - - | S = Counterclockwise D = Clockwise | | | per | E7 = | | | | - | |
| , - - | S = Counterclockwise D = Clockwise | | | per | | | | | - | |
| , - - | S = Counterclockwise D = Clockwise R = Reverse | | | per | E7 = | | | | - | |
| · | S = Counterclockwise D = Clockwise R = Reverse | | | per | E7 = | н.р. мо | UNT | | - | |
| , - - | S = Counterclockwise D = Clockwise R = Reverse | | | | E7 = | н.р. мо | | | - | |
| 4. | S = Counterclockwise D = Clockwise R = Reverse A | | | | E7 = | н.р. мо | UNT | | - | |
| 25.4 | S = Counterclockwise D = Clockwise R = Reverse A | | | | E7 = | н.р. мо | UNT | | - | |

30

ADDITIONAL PRODUCT INFORMATION AVAILABLE ON REQUEST

52

<u>1/8 B</u>SPP 9 Depth





Polaris Series - Group 2 Mount Type:EUROMOUNT SERIES "82E2"

PLM20 - Group 2 EURO "82E2"

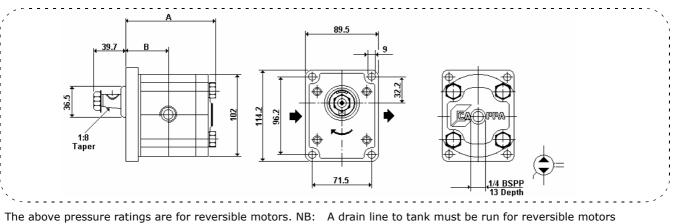


| РИМР ТҮРЕ | DISP. | MAX CONT PRESSURE | MAX SHAFT | PO | RTS | OUTPUT KW | TORQUE NM | LIST PRICE | |
|-----------------------|--------|----------------------|--------------|------|------|--------------|------------------|------------|--|
| POMPTTPE | CC/REV | BAR | SPEED IN | | Ουτ | | BAR AND) RPM | | |
| PLM20-4R-82E2-GDGD | 4.8 | | 4000 | | | 0.64 | 6.50 | \$POA | |
| PLM20-6.3R-82E2-GDGD | 6.5 | | 4000 | | | 0.87 | 8.80 | \$POA | |
| PLM20-8R-82E2-GDGD | 8.3 | | 3500 | 1/2" | 1/2" | 1.11 | 11.24 | \$POA | |
| PLM20-9R-82E2-GDGD | 9 | 213 | | (GD) | (GD) | 1.20 | 12.18 | \$POA | |
| PLM20-11.2R-82E2-GDGD | 11.1 | | | | | 1.49 | 15.03 | \$POA | |
| PLM20-14R-82E2-GEGD | 14.4 | | | | | 1.93 | 19.50 | \$POA | |
| PLM20-16R-82E2-GEGD | 16.0 | 1 | 3000 | | | 2.22 | 22.48 | \$POA | |
| PLM20-20R-82E2-GEGD | 20.8 | 170 | - 3000 | 3/4" | 1/2" | 3.48 | 28.16 | \$POA | |
| PLM20-25R-82E2-GEGD | 26 | 145 | 2500 | (GE) | (GD) | 4.37 | 35.20 | \$POA | |
| PLM20-31.5R-82E2-GEGD | 32.6 | 111 | 2500 | | | 5.48 | 44.14 | \$POA | |

SERIES

PLM20-14 R- 82 E2 - GEGD

| Rotation Code | Shaft Code | Mount Code | Port Code |
|----------------------|------------|-----------------|------------------------------------|
| S = Counterclockwise | | | |
| D = Clockwise | 82 = Taper | E2 = EURO MOUNT | GD = 1/2'' BSPP GE = 3/4'' BSPP |
| R = Reverse | | | |



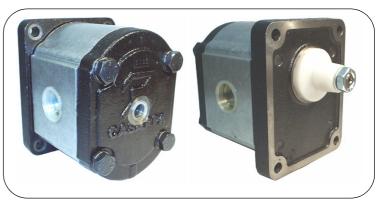
For input flow allow volumetric efficiency of.: 90% Output KW figures allow for overall efficiency of:82% Output torque figures allow for mechanical efficiency of:85%





Polaris Series - Group 3 Mount Type:EUROMOUNT SERIES "83E3"

PLM30 - Group 3 EURO "83E3"



| PUMP TYPE | | DISP. | MAX CONT PRESSURE | MAX SHAFT | POF | RTS | OUTPUT KW | TORQUE NM | LIST |
|------------|--------------------|-------------|----------------------|---------------|-----------------------------------|---------|---|------------------|----------|
| | | CC/REV | BAR | SPEED | IN | Ουτ | AT 100 BAR AND 1000 RPM | | PRICE |
| PLM30-22 | R-83E3-GFGF | 21.89 | 213 | | | | 2.93 | 29.64 | \$POA |
| PLM30-27 | R-83E3-GFGF | 26.58 | | | | | 3.56 | 36 | \$POA |
| PLM30-34 | R-83E3-GFGF | 34.39 | 204 | 3000 | 1" | 1" | 4.61 | 46.56 | \$POA |
| LM30-38 | R-83E3-GFGF | 38.53 | | | (GF) | (GF) | 5.14 | 52.17 | \$POA |
| LM30-43 | R-83E3-GFGF | 43.77 | 196 | | | | 5.87 | 59.26 | \$POA |
| LM30-51 | R-83E3-GFGF | 51.59 | 179 | 2500 | | | 6.91 | 69.45 | \$POA |
| LM30-61 | R-83E3-GFGF | 60.97 | 162 | 2500 | 1 1/4" (GG) | 1" (GF) | 8.17 | 82.55 | \$POA |
| F | | on Code | Shaft (| Code | Mou | nt Code | | Port Code | e |
| 1 | DISPLACEMEN | IT CODE | | | <u>R-83 E</u> | | <u>, , , , , , , , , , , , , , , , , , , </u> | | |
| Г | Detection | | | N - 4- | | | İ | Davit Card | _ |
| - | | | Share | Joue | Hou | | | | C |
| - | S = Countero | | _ | | | | | GF = 1'' BSPF | , |
| | D = Clockwise | | 83 = T | aper | E3 = EURO MOUNT | | | GG = 1 1/4" BSPP | |
| | R = Reverse | | | | | | | | |
| , | | A | | | <u> 122 </u> | | | | |
| 8 99 95 | 47 1:8 Taper | | | | | | CASAPPA 3/8 BSPP 15 Depth | | |
| : A drai | | must be run | for reversibl | e motors | For input flow ut torque figur | | | | 85% |





Polaris Series - Group 2 Mount Type:SAE "A" 2 BOLT MOUNT

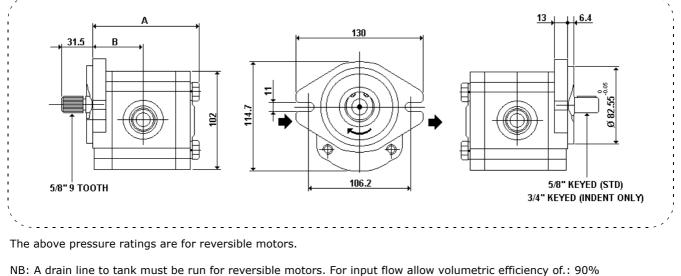
PLM20 - Group 2 SAE



| PUMP TYPE | DISP. | MAX CONT PRESSURE | MAX SHAFT SPEED | PORTS | | OUTPUT KW | TORQUE NM | LIST PRICE |
|-----------------------|--------|----------------------|-----------------------|--------------|--------------|--------------|------------------|------------|
| | CC/REV | BAR | | IN | Ουτ | | BAR AND) RPM | |
| PLM20-4R-31S1-GDGD | 4.8 | | 4000 | | | 0.64 | 6.50 | \$POA |
| PLM20-6.3R-31S1-GDGD | 6.5 | | 4000 | 1/2" (GD) | 1/2" (GD) | 0.87 | 8.80 | \$POA |
| PLM20-8R-31S1-GDGD | 8.3 | | 3500 | | | 1.11 | 11.24 | \$POA |
| PLM20-9R-31S1-GDGD | 9 | 213 | | | | 1.20 | 12.18 | \$POA |
| PLM20-11.2R-31S1-GDGD | 11.1 | | | | | 1.49 | 15.03 | \$POA |
| PLM20-14R-31S1-GEGD | 14.4 | | | | | 1.93 | 19.50 | \$POA |
| PLM20-16R-31S1-GEGD | 16.0 | | | | | 2.22 | 22.48 | \$POA |
| PLM20-20R-31S1-GEGD | 20.8 | 170 | 3000 | 3/4" | 1/2" | 3.48 | 28.16 | \$POA |
| PLM20-25R-31S1-GEGD | 26 | 145 | 2500 | (GE) | (GD) | 4.37 | 35.20 | \$POA |
| PLM20-31.5R-31S1-GEGD | 32.6 | 111 | 2500 | | | 5.48 | 44.14 | \$POA |
| | SERIES | PLM2(|)-16 R | - 31 : | S1 - (| GEGD | | |

DISPLACEMENT CODE

| Rotation Code | Shaft Code | Mount Code | Port Code |
|----------------------|---|--------------------|------------------------------------|
| S = Counterclockwise | | | |
| D = Clockwise | 03 = 5/8" 9 Tooth 31 = 5/8" Keyed 49 = 3/4" Keyed | S1 = SAE"A" 2 BOLT | GD = 1/2'' BSPP GE = 3/4'' BSPP |
| R = Reverse | 49 – 374 Reyeu | | |



Output KW figures allow for overall efficiency of:82%Output torque figures allow for mechanical efficiency of:85%

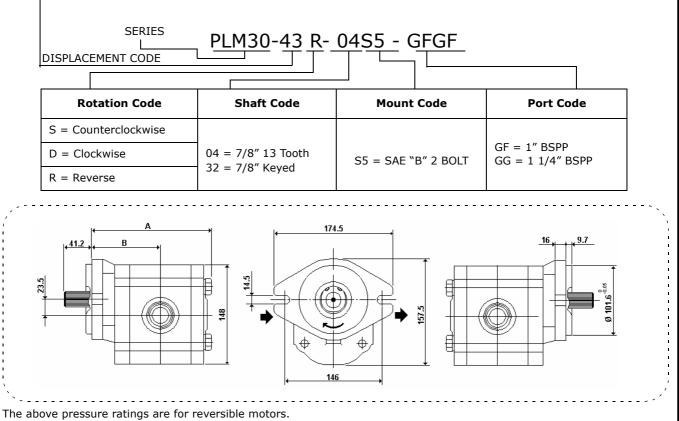




Polaris Series - Group 3 Mount Type:SAE "B" 2 BOLT MOUNT

PLM30 - Group 3 SAE

| | DISP. | MAX CONT PRESSURE | MAX SHAFT | OUTPUT KW | TORQUE NM | LIST PRICE | |
|---------------------|--------|----------------------|--------------|----------------------------|--------------|------------|-------|
| FOMFTIFL | CC/REV | BAR | SPEED | AT 100 BAR AND 1000 RPM | | | |
| PLM30-22R-04S5-GFGF | 21.89 | 213 | | 2.93 | 29.64 | \$POA | |
| PLM30-27R-04S5-GFGF | 26.58 | 215 | 215 | 3.56 | 36 | \$POA | |
| PLM30-34R-04S5-GFGF | 34.39 | 204 | 3000 | 4.61 | 46.56 | \$POA | |
| PLM30-38R-04S5-GFGF | 38.53 | | 204 | | 5.14 | 52.17 | \$POA |
| PLM30-43R-04S5-GFGF | 43.77 | 196 | | 5.87 | 59.26 | \$POA | |
| PLM30-51R-04S5-GFGF | 51.59 | 179 | 2500 | 6.91 | 69.45 | \$POA | |
| PLM30-61R-04S5-GFGF | 60.97 | 162 | 2300 | 8.17 | 82.55 | \$POA | |



NB: A drain line to tank must be run for reversible motors For input flow allow volumetric efficiency of.: 90% Output KW figures allow for overall efficiency of:82% Output torque figures allow for mechanical efficiency of:85%





Suits Polaris Group 1 (Standard Duty) Requires Splined Hub Part No. 31001000

| Part No. | List Price |
|----------|------------|
| SU/1-C | \$POA |
| 31001000 | \$POA |

MODEL SU/1M-C

Suits Polaris Group 1 (Heavy Duty) Requires Splined Hub Part No. 31001200

| Part No. | List Price |
|----------|------------|
| SU/1M-C | \$POA |
| 31001200 | \$POA |

MODEL SU/2

Suits Polaris Group 2 Requires Splined Hub Part No. 31000700

| Part No. | List Price |
|----------|------------|
| SU/2 | \$POA |
| 31000700 | \$POA |

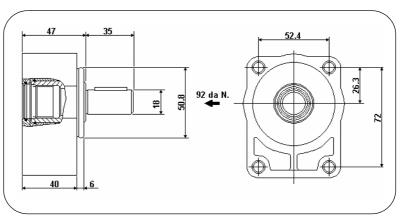
MODEL SU/3

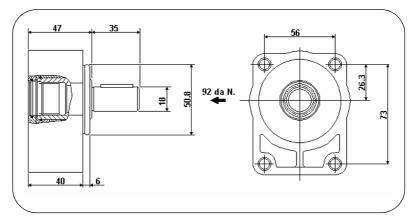
Suits Polaris Group 3 Requires Splined Hub Part No. 31003500

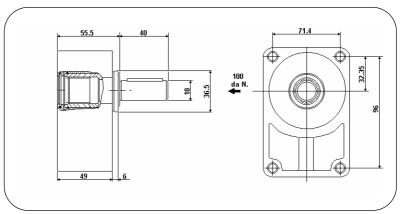
| Part No. | List Price |
|----------|------------|
| SU/3 | \$POA |
| 31003500 | \$POA |

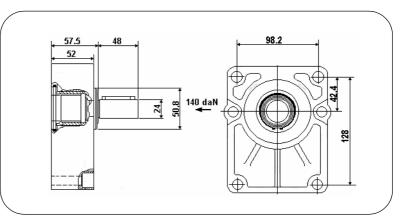
hydr-app

OVERHUNG LOAD ADAPTORS SUITS CASAPPA













ML32 GEARBOXES

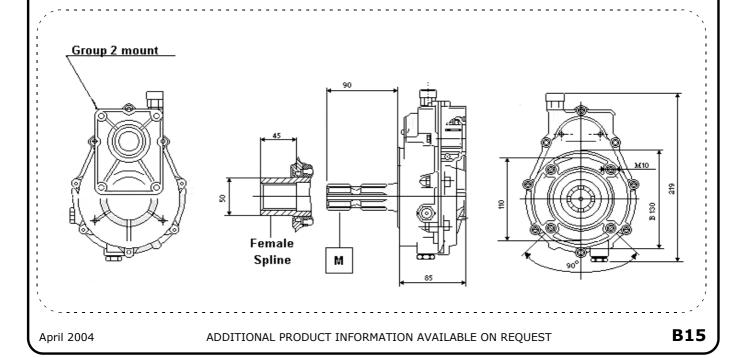
Designed for the fitment of the Casappa group 2 PLP20 range of gear pumps and the be driven from the power take off an agricultural tractor.

Designed for PLP20



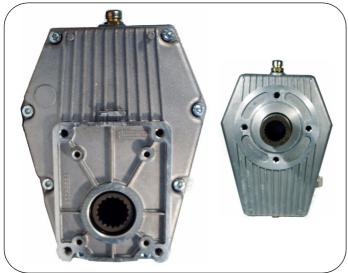
GEARBOXES

| PART | INPUT SPLINE | | | | Torque nm | | | |
|------------|--------------|--------------------------------|--------------|-------|-----------|--------|------------|--|
| NUMBER | ТҮРЕ | SIZE | NO. TEETH | RATIO | Input | Output | LIST PRICE | |
| ML32-2-1/3 | FEMALE | 1 3/8″ | 6 | 3:1 | 180 | 58 | \$POA | |
| ML32-1-1/3 | MALE | 1 3/8″ | 6 | 3:1 | 180 | 58 | \$POA | |
| 31000700 | | SPLINED HUB SUIT GROUP 2 TAPER | | | | | | |









ML52 GEARBOXES

Designed for the fitment of the Casappa group 3 PLP30 range of gear pumps and the be driven from the power take off an agricultural tractor.

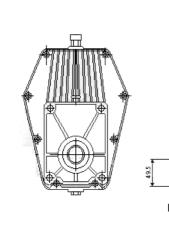
Designed for

PLP30

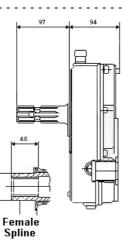
| PART NUMBER | IN | INPUT SPLINE | | | Torq | ue NM | LIST | |
|----------------|------------|--------------------------------|--------------|-------|-------|--------|-------|-------|
| | ТҮРЕ | SIZE | NO. TEETH | RATIO | Input | Output | PRICE | |
| ML52-2-1/3 | FEMALE | 1.3/8″ | | 3:1 | 483 | 161 | \$POA | |
| ML52-2-1/3.4 | FEMALE | 1.3/8″ | 6 | 3:4:1 | 452 | 133 | \$POA | |
| ML52-1-1/3 | MALE | 1.3/8″ | | | 3:1 | 483 | 161 | \$POA |
| ML52-1-1/3.4 | MALE | 1.3/8″ | | 3:4:1 | 452 | 133 | \$POA | |
| ML52-18-1/2 | FEMALE | 1.3/8″ | 21 | 2:1 | 434 | 217 | \$POA | |
| 31003500 | SPLINED HU | SPLINED HUB SUIT GROUP 3 TAPER | | | | | | |
| 25-008 | GASKET | GASKET | | | | | | |

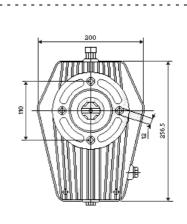
GEARBOXES WITH THROUGH INPUT SHAFT

| NEW model | INPUT SPLINE | | | RATIO | LIST PRICE |
|--------------|--------------|--------|---|-------|------------|
| ML52/B-8-1/3 | FEM/MALE | 1 3/8″ | 6 | 3:1 | \$POA |
| ML52/B-7-1/3 | FEM/FEM | 1 3/8″ | 6 | 3:1 | \$POA |



B16









MA7A / MA7B



Electric Clutch for Pump Drives:

Designed to interface with Casappa Group 2 Gear Pumps. Ideal for small ships anchor winch drives.

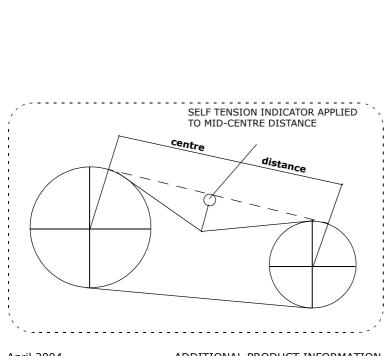
Interfaces with Group 2 Gear Pumps

| MAX SPEED | = | 4000 RPM |
|-----------------------|---|---------------------|
| VOLTAGE | = | 12 - 24 VOLTS D.C. |
| ELECTRICAL INPUT | = | 12 VOLTS AT 4.5 AMP |
| MAX TRANSMITTED POWER | = | 3KW PER 1000 RPM |
| PULLEY O.D. | = | 178mm (7″) |

| MODEL | PULLEY TYPE | VOLTAGE | LIST PRICE |
|---------|-----------------|---------|------------|
| MA7A-12 | 2 X 'A' SECTION | 12 | \$POA |
| MA7A-24 | 2 X 'A' SECTION | 24 | \$POA |
| MA7B-12 | 1 X 'B' SECTION | 12 | \$POA |
| MA7B-24 | 1 X 'B' SECTION | 24 | \$POA |

NB: Pressure limitation of the larger displacements is determined by the maximum power transmitted by the belts i.e. 3 kW per 1000 RPM.

Price includes the clutch and foot bracket but excludes the pump.



CLUTCH ASSEMBLY & INSTALLATION INSTRUCTIONS:

Your Pump/Clutch Unit is normally supplied assembled. If for any reason your Clutch is supplied unassembled then the unit must be assembled using Feeler Gauges to ensure concentricity between Armature and the Pulley.

BELT TENSIONING INSTRUCTIONS:

Each drive belt must be tensioned to provide 16mm of deflection per metre of centre distance between the Pulleys when a given load is applied at the centre of the belt.

Belt deflection (mm) = $16 \times M$ (Pulley centres in metres)

Loading:-

2 X A section belts = 1.5 Kg per belt 1 X B section belt = 2.75 Kg

(Your Vee belt supplier can supply you with a belt tensioning indicator device.)

NB: Failure to comply with above instructions may result in damage to the Unit and may void your warranty.





GEAR PUMPS AND MOTORS

MORE POWER, LESS NOISE, LONGER LIFE.

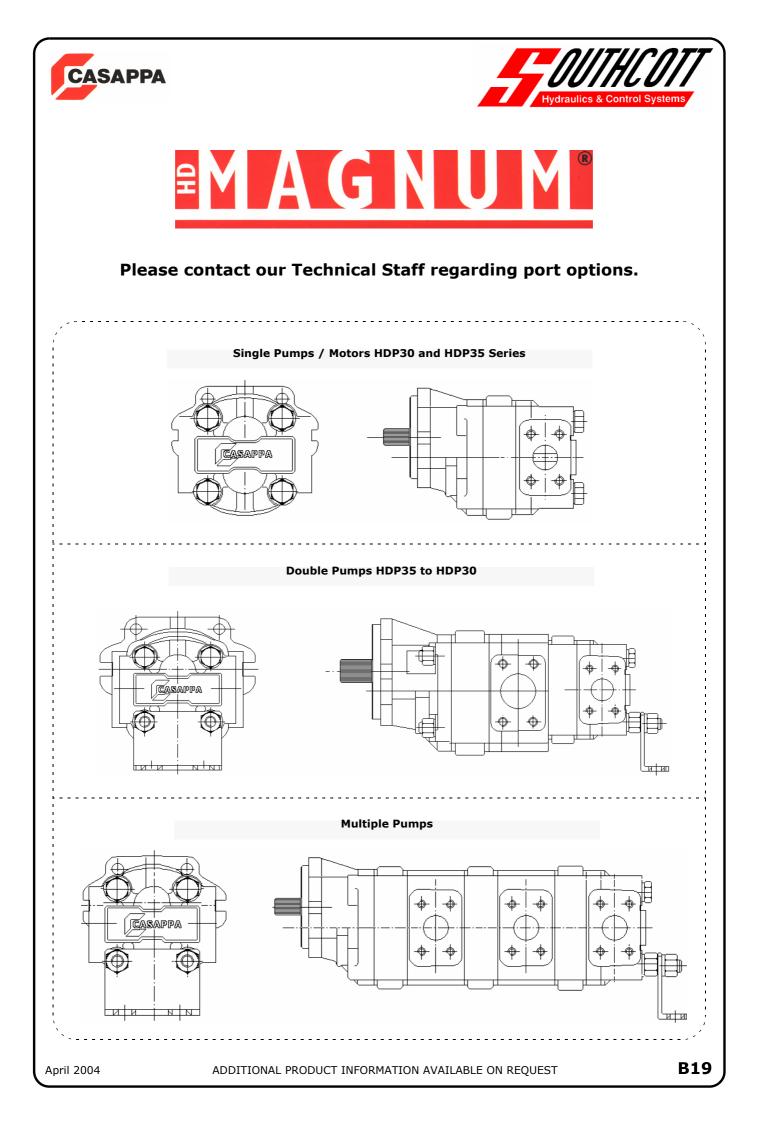


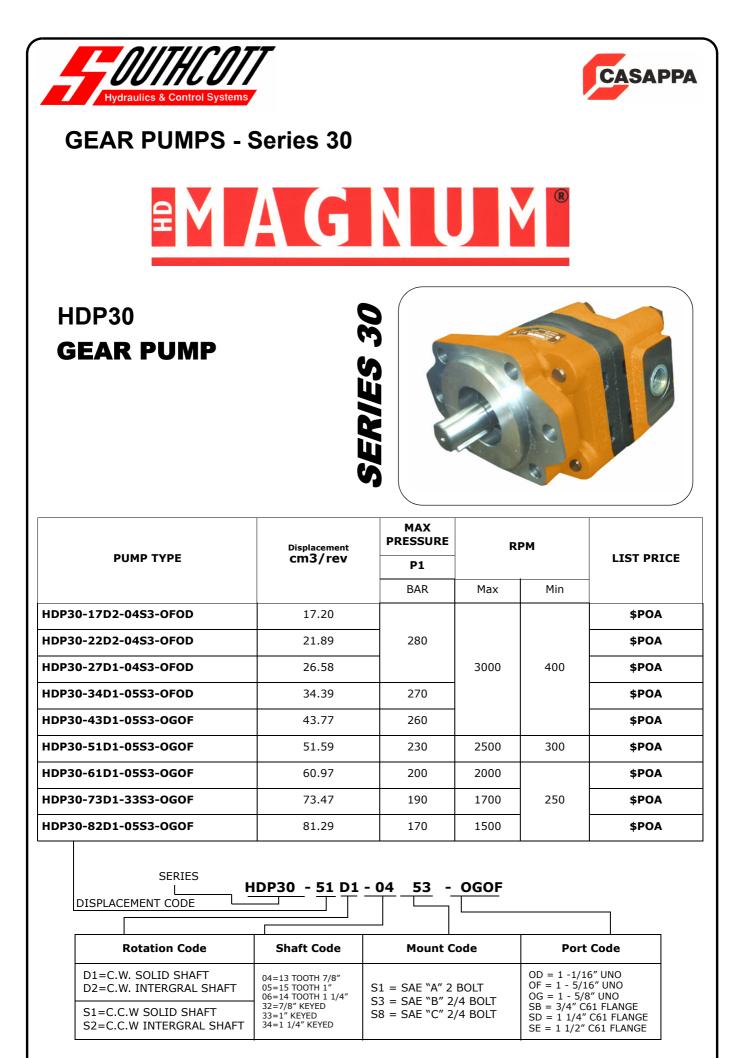
- * Available as:- Single and multiple pumps, motors and flow dividers.
- * Max. Intermittent Pressures to 280 BAR (4000 PSI)
- * Max. Rotational Speeds to: 3000 RPM
- * Higher Volumetric Efficiency
- * Lower Noise Level
- * Higher Contaminant resistance
- * Bush Bearings for Longer Life
- * High Strength Cast Iron Housings

Available in 2 ranges: Magnum 30 and Magnum 35

| | Magnum 30 (17cc to 82cc) | Magnum 35 (50cc to 125cc) |
|-------------------------|--------------------------|---------------------------|
| Standard Mounting | SAE"A" & "B" 2/4 Bolt | SAE "C" 2/4 Bolt |
| Standard keyed shafts | 7/8″ & 1″ | 1 - 1/4" |
| Standard splined shafts | 13T x 7/8" & 15T x 1" | 14 Tooth 1 - 1/4" OD |

For other options please consult our Sales Department.





ADDITIONAL PRODUCT INFORMATION AVAILABLE ON REQUEST





GEAR PUMPS - Series 35

₽MAGNUM®

HDP35 GEAR PUMP



| PUMP TYPE | Displacement cm3/rev | MAX PRESSURE | RPM | | LIST PRICE |
|-----------------------|-------------------------|-----------------|------|-----|------------|
| FOMFITE | | P1 | | | LIST PRICE |
| | | BAR | Max | Min | |
| HDP35-50D1-06S8-SESD | 50.77 | 270 | | | \$POA |
| HDP35-63D1-06S8-SESD | 63.46 | | 3000 | | \$POA |
| HDP35-71D1-06S8-SESD | 71.92 | | 5000 | | \$POA |
| HDP35-80D1-06S8-SESD | 80.39 | 250 | | 400 | \$POA |
| HDP35-90D1-06S8-SFSE | 90.96 | 230 | | | \$POA |
| HDP35-100D1-06S8-SFSE | 99.43 | 210 | 2700 | | \$POA |
| HDP35-112D1-06S8-SFSE | 112.12 | 190 | | | \$POA |
| HDP35-125D1-06S8-SFSE | 124.81 | 170 | 2500 | 250 | \$POA |

SERIES

HDP35 - 80 D1 - 06 S8 - SESD

| Rotation Code | Shaft Code | Mou | nt Code | Por | t Code |
|-----------------------|----------------------|---------|----------------|---------|------------------------------|
| D1 = Counterclockwise | 06 = 14 TOOTH SPLINE | S4 = SA | E "B″ 4 BOLT | , | " C61 FLANGE " C61 FLANGE |
| S1 = Clockwise | 34 = 1 1/4" KEYED | S8 = SA | E "C" 2/4 BOLT | SF = 2" | C61 FLANGE |







Multiple Pump Pricing

For Multiple Pump prices use the same price as single pumps for each section plus an allowance for the following additions and deductions.

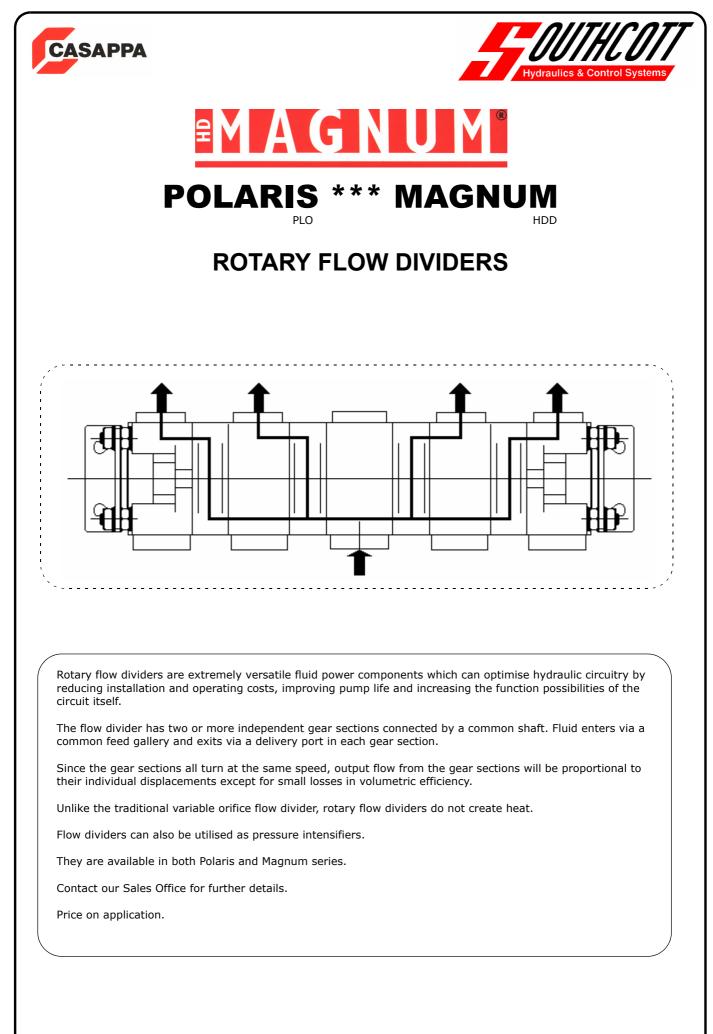
| Front Pump Section | List Price Addition | List Price Reduction |
|-------------------------|------------------------|-------------------------|
| **HDP30 PLP20 - PRIMARY | \$POA | NIL |
| **HDP30 /30 - PRIMARY | \$POA | NIL |
| **HDP35/PLP20 - PRIMARY | \$POA | NIL |
| **HDP35 HDP30 - PRIMARY | \$POA | NIL |
| **HDP35/35 - PRIMARY | \$POA | NIL |

| Intermediate Pump Section | List Price Addition | List Price Reduction |
|---------------------------|------------------------|-------------------------|
| **HDP30 PLP20 - INTER | \$POA | NIL |
| **HDP30/30 - INTER | NIL | \$POA |
| **HDP35/PLP20 - INTER | \$POA | NIL |
| **HDP35/30 - INTER | NIL | \$POA |
| **HDP35/35 - INTER | NIL | \$POA |

| Rear Pump Section | List Price Addition | List Price Reduction |
|-------------------|------------------------|-------------------------|
| PLP20 | See PLP20 Page B4 | NIL |
| **HDP30 - REAR | NIL | \$POA |
| **HDP35 - REAR | NIL | \$POA |

NB: For multiple PLP20 series pricing refer to pages B3.

NB: The above should be used as a close guide only - Contact our Office with full details of your requirements to obtain firm pricing.



April 2004

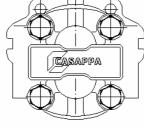


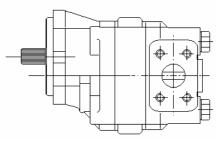
₽M



AGNUM® HDM30 GEAR MOTOR







| MOTOR TYPE | Displacement | MAX PRESSURE | RPM | | Output kW | Torque NM | LIST |
|----------------------|--------------|-----------------|------|------|----------------------------|--------------|-------|
| | cm3/rev | P1 | | | at 100 BAR and 1000 RPM | | PRICE |
| | | BAR | Max | Min | | | |
| HDM30-17R2-04S3-0D0D | 17.20 | | | | 2.2 | 21 | \$POA |
| HDM30-22R2-04S3-ODOD | 21.89 | 238 | 3000 | 1000 | 2.7 | 26 | \$POA |
| HDM30-27R1-04S3-ODOD | 26.58 | 1 | | 4000 | 3.2 | 31 | \$POA |
| HDM30-34R1-04S3-ODOD | 34.39 | 270 | | | 4.4 | 42 | \$POA |
| HDM30-43R1-04S3-ODOD | 43.77 | 230 | | | 5.4 | 52 | \$POA |
| HDM30-51R1-04S3-ODOD | 51.59 | 221 | 2500 | 300 | 6.8 | 65 | \$POA |
| HDM30-61R1-04S3-ODOD | 60.97 | 170 | 2000 | 250 | 7.7 | 74 | \$POA |
| HDM30-73R1-04S3-OFOF | 73.47 | 161 | 1700 | | 9.6 | 92 | \$POA |
| HDM30-82R1-04S3-OFOF | 81.29 | 144 | 1500 | | 11.0 | 105 | \$POA |

<u>HDM30</u> - <u>17 R 2</u> - <u>04</u> <u>S5</u> - <u>ODOD</u>

DISPLACEMENT CODE

SERIES

Г

| T CODE | | | |
|--------|---|--|---|
| | · | | |
| | | | _ |

| | Rotatio | on Code | SHAFT TYPE | Shaft Code | Mount Code | Port Code |
|---|--|---------|-----------------------------------|---|---|--|
| D | = Countero = Clockwis = Reversib | se . | 1 = SOLID SHAFT 2 = STUB SHAFT | 04 = 7/8" 13 Tooth 05 = 1" 15 Tooth 06 = 1 1/4" 14 Tooth 32 = 7/8" Keyed 33 = 1" Keyed 34 = 1 1/4" Keyed | S1 = SAE "A" 2 BOLT S3 = SAE "B" 2/4 BOLT S8 = SAE "C" 2/4 BOLT | OD = 1 1/16" Oring Boss OF = 1 5/16" Oring Boss |

NB: Listed pressures are for reversible motors, for single rotation motors refer to pump figures

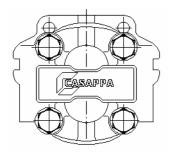
NB: Output kW and torque figures are for reversible motors.

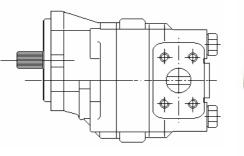




HDM35

GEAR MOTOR







| MOTOR TYPE | Displacement | MAX PRESS URE | RPM | | Output kW | Torque NM | LIST PRICE | |
|----------------------------------|--------------|---------------------|-------------|--------|----------------|--------------|------------|-------|
| | cm3/rev | P1 | | | at 100 BAR and | | LIST FRICE | |
| | | BAR | Max | Min | 1000 RPM | | | |
| HDM35-50R1-06S8-OFOF | 50.77 | 230 | | | 6.3 | 60 | \$POA | |
| HDM35-63R1-06S8-OFOF | 63.46 | 230 | 3000 | 2000 | | 7.9 | 75 | \$POA |
| HDM35-71R1-06S8-OFOF | 71.92 | 213 | | | 9.0 | 86 | \$POA | |
| HDM35-80R1-06S8-OFOF | 80.39 | 215 | | 400 | 10.2 | 97 | \$POA | |
| HDM35-90R1-06S8-OFOF | 90.96 | 196 | | | 11.5 | 110 | \$POA | |
| HDM35-100R1-06S8-OFOF | 99.43 | 179 | 2700 | | 13.1 | 125 | \$POA | |
| HDM35-112R1-06S8-OFOF | 112.12 | 162 | | | 14.7 | 140 | \$POA | |
| HDM35-125R1-06S8-OFOF | 124.81 | 145 | 2500 | 250 | 15.9 | 152 | \$POA | |
| SERIES L DISPLACEMENT CODE | HDM35-5 | 0 R 1- ⊤ ⊤ | <u>06</u> S | 58 - O | FOF | | | |

| DISPLAC | EMENT CODE | |
|---------|------------|---|
| | | |
| | | 1 |
| | | |

| Rotation Code | SHAFT TYPE | Shaft Code | Mount Code | Port Code |
|---|-----------------------------------|---|--|-------------------------|
| S = Counterclockwise D = Clockwise R = Reversible | 1 = SOLID SHAFT 2 = STUB SHAFT | 06 = 1 1/4" 14 Tooth 34 = 1 1/4" Keyed | S4 = SAE "B" 4 BOLT S8 = SAE "C" 2/4 BOLT | OF = 1 5/16" Oring Boss |

NB: Listed pressures are for reversible motors, for single rotation motors refer to pump figures.

NB: Output kW and torque figures are for reversible motors.





SEAL KITS

To suit Polaris and Magnum

| PUMP SEAL KITS | | | | |
|----------------|---------------|------------|--|--|
| SERIES | MODEL | LIST PRICE | | |
| | SK-PLP10-81E1 | \$POA | | |
| | SK-PLP10-86E7 | \$POA | | |
| POLARIS | SK-PLP20 | \$POA | | |
| | SK-PLP30-83E3 | \$POA | | |
| | SK-PLP30-SAE | \$POA | | |
| MAGNUM | SK-HDP30 | \$POA | | |
| MAGNUM | SK-HDP35 | \$POA | | |

| MOTOR SEAL KITS | | | | |
|-----------------|-----------------|------------|--|--|
| SERIES | MODEL | LIST PRICE | | |
| | SK-PLM10-81E1-R | \$POA | | |
| | SK-PLM10-86E7 | \$POA | | |
| POLARIS | SK-PLM20 | \$POA | | |
| | SK-PLM30-83E3-R | \$POA | | |
| | SK-PLM30-SAE-R | \$POA | | |
| MAGNUM | SK-HDM30 | \$POA | | |
| MAGNOM | SK-HDM35 | \$POA | | |

ADDITIONAL PRODUCT INFORMATION AVAILABLE ON REQUEST

April 2004