



HYDRAULIC GEAR PUMPS AND MOTORS

'C' Series

SINGLE PUMP



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MAXIMUM PRESSURE | | MAXIMUM SPEED (RPM) |
|---------------|--|--------------|-------------|---------------------|-----|---------------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | PSI | BAR | |
| C45 | .0038 | 0.88 | 14.4 | 3500 | 241 | 3600 |
| C65 | .0055 | 1.27 | 20.8 | 3500 | 241 | 3600 |
| C85 | .0072 | 1.66 | 27.2 | 3500 | 241 | 3400 |
| C100 | .0085 | 1.96 | 32.1 | 3500 | 241 | 3300 |
| C115 | .0097 | 2.24 | 36.7 | 3000 | 207 | 3100 |
| C150 | .0127 | 2.93 | 48.1 | 2500 | 172 | 2800 |
| C180 | .0152 | 3.51 | 57.5 | 2500* | 172 | 2500 |
| C200 | .0169 | 3.90 | 63.9 | 2500* | 172 | 2200 |

* CONSULT FACTORY WITH TYPE APPLICATION
PRESSURES MAY BE LIMITED TO SHAFT TYPE

- CAST IRON THROUGHOUT
- PRESSURES TO 3500 PSI
- FLOWS TO 37 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

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CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

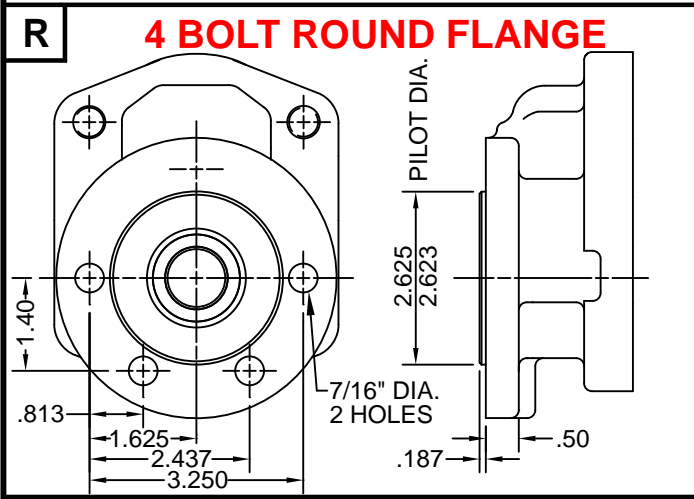
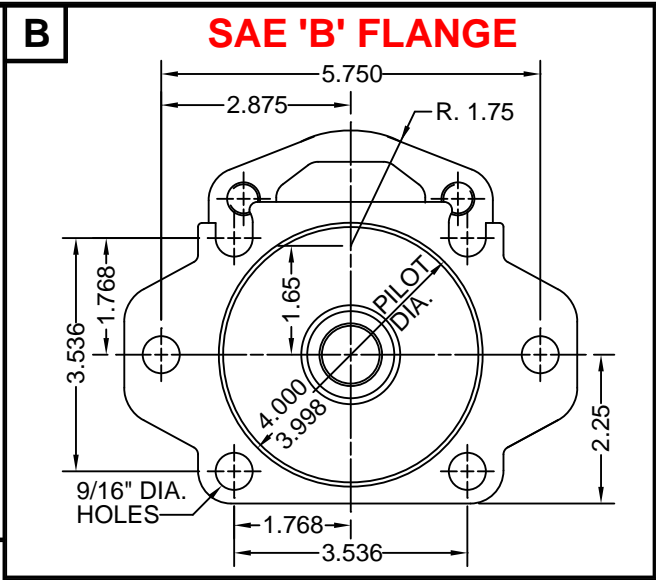
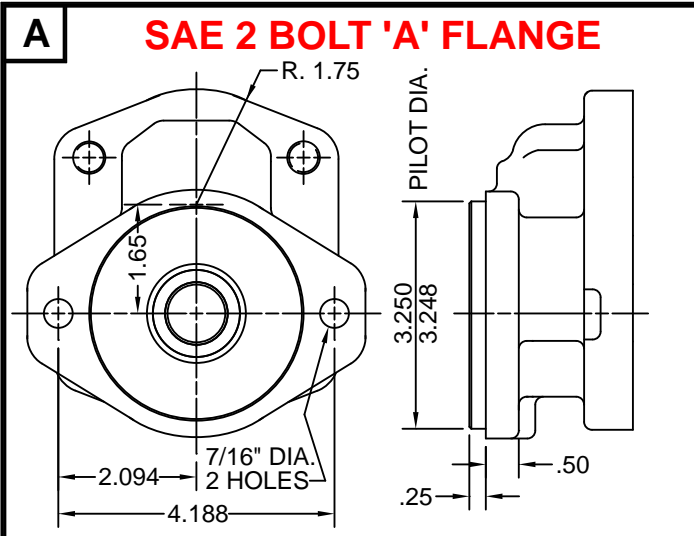
SHAFTS AVAILABLE

| | | | | | | | | | | | | | | | | | |
|---|--|-------|----------------|-----|--------------|---|------------|-----------|--|-----------------|-------|----------------|-----|--------------|----|------------|-----------|
| <p>1 5/8"-9 TOOTH SPLINE AVAILABLE ON 45 THRU 100 SIZES ONLY TORQUE LIMIT 52 FT.-LBS.</p> <p>FLAT ROOT SIDE FIT</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>16/32</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>9</td></tr> <tr><td>MINOR DIA.</td><td>.465-.475</td></tr> </table> | DIAMETRAL PITCH | 16/32 | PRESSURE ANGLE | 30° | NO. OF TEETH | 9 | MINOR DIA. | .465-.475 | <p>2 7/8"-13 TOOTH SPLINE TORQUE LIMIT 184 FT.-LBS. FLAT ROOT SIDE FIT</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>16/32</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>13</td></tr> <tr><td>MINOR DIA.</td><td>.722-.733</td></tr> </table> | DIAMETRAL PITCH | 16/32 | PRESSURE ANGLE | 30° | NO. OF TEETH | 13 | MINOR DIA. | .722-.733 |
| DIAMETRAL PITCH | 16/32 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 9 | | | | | | | | | | | | | | | | |
| MINOR DIA. | .465-.475 | | | | | | | | | | | | | | | | |
| DIAMETRAL PITCH | 16/32 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 13 | | | | | | | | | | | | | | | | |
| MINOR DIA. | .722-.733 | | | | | | | | | | | | | | | | |
| <p>5 7/8" STRAIGHT TORQUE LIMIT 184 FT.-LBS.</p> | <p>6 3/4" STRAIGHT AVAILABLE ON 45 THRU 115 SIZES ONLY TORQUE LIMIT 105 FT.-LBS.</p> | | | | | | | | | | | | | | | | |

PORTS AVAILABLE

| | |
|--|---|
| <p>1 REAR PORTED SAE STRAIGHT THREAD</p> <p>SUCTION SAE #20 O-RING BOSS</p> <p>DISCHARGE SAE #16 O-RING BOSS</p> | <p>3 SAE 4-BOLT CONNECTOR</p> <p>DISCHARGE 3/4" SAE 4-BOLT CONNECTOR</p> <p>SUCTION 1 1/4" SAE 4-BOLT CONNECTOR</p> |
| <p>5 SIDE PORTED SAE STRAIGHT THREAD</p> <p>DISCHARGE SAE #12 O-RING BOSS</p> <p>SUCTION SAE #20 O-RING BOSS</p> | |

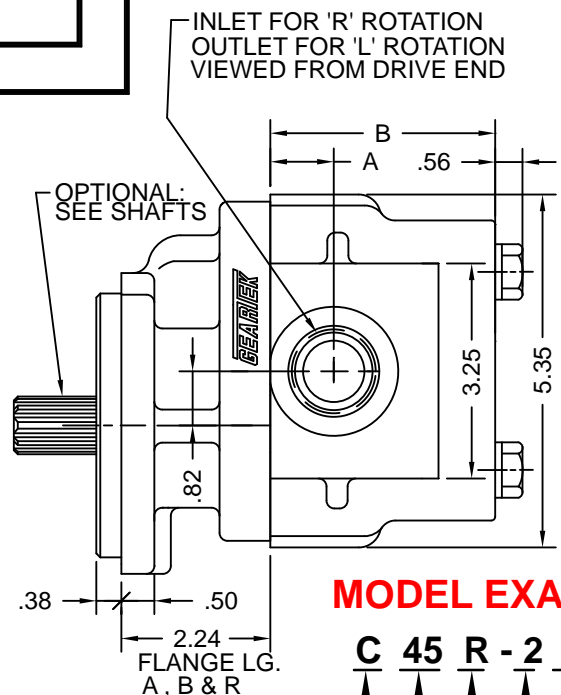
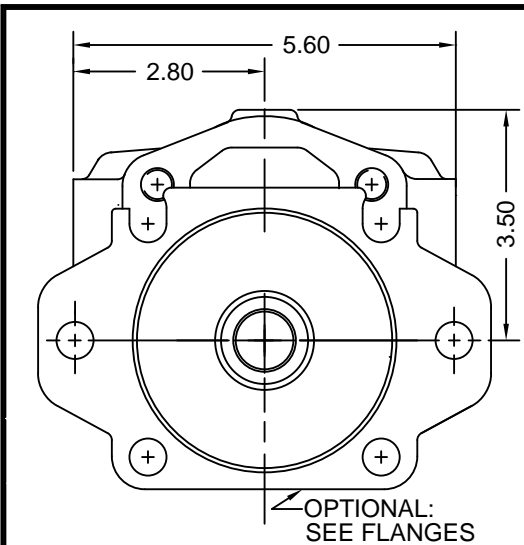
FLANGES AVAILABLE



MOUNTING DIMENSIONS

| SIZE | A | B |
|------|------|------|
| C45 | 1.06 | 2.98 |
| C65 | 1.06 | 3.20 |
| C85 | 1.06 | 3.41 |
| C100 | 1.06 | 3.57 |
| C115 | 1.25 | 3.73 |
| C150 | 1.25 | 4.10 |
| C180 | 1.25 | 4.42 |
| C200 | 1.25 | 4.64 |

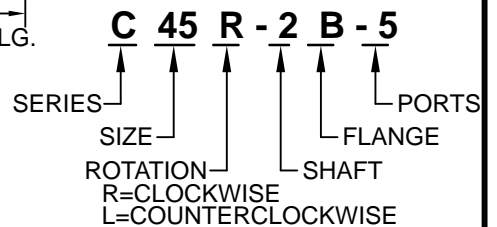
DIMENSIONAL DATA



FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

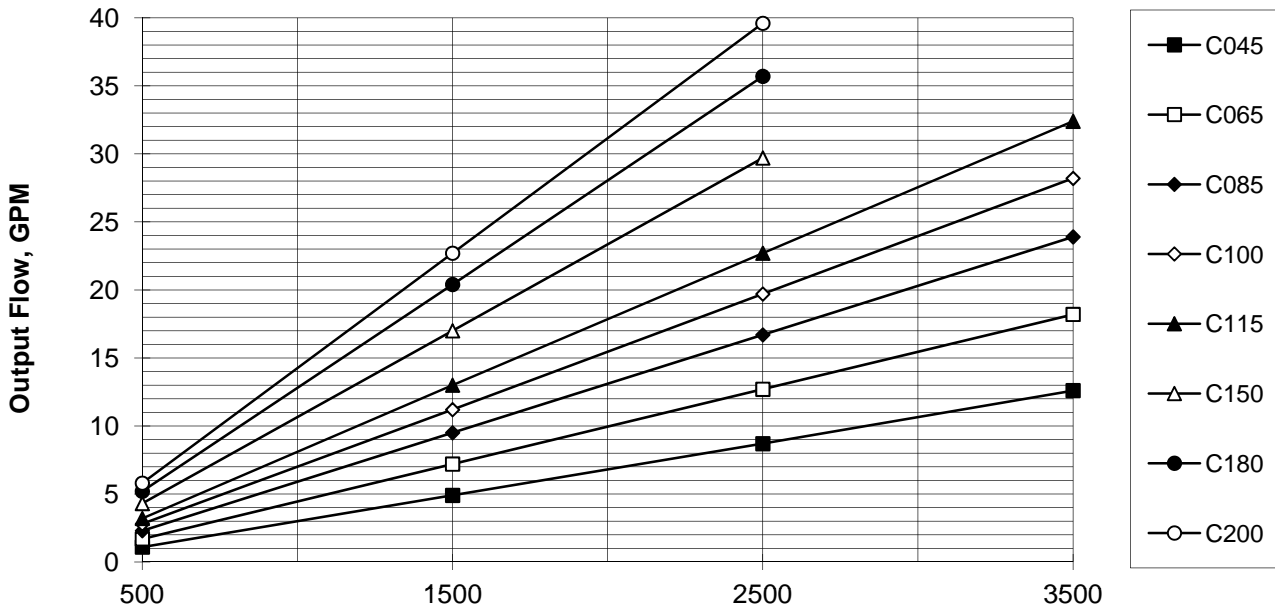
OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

MODEL EXAMPLE

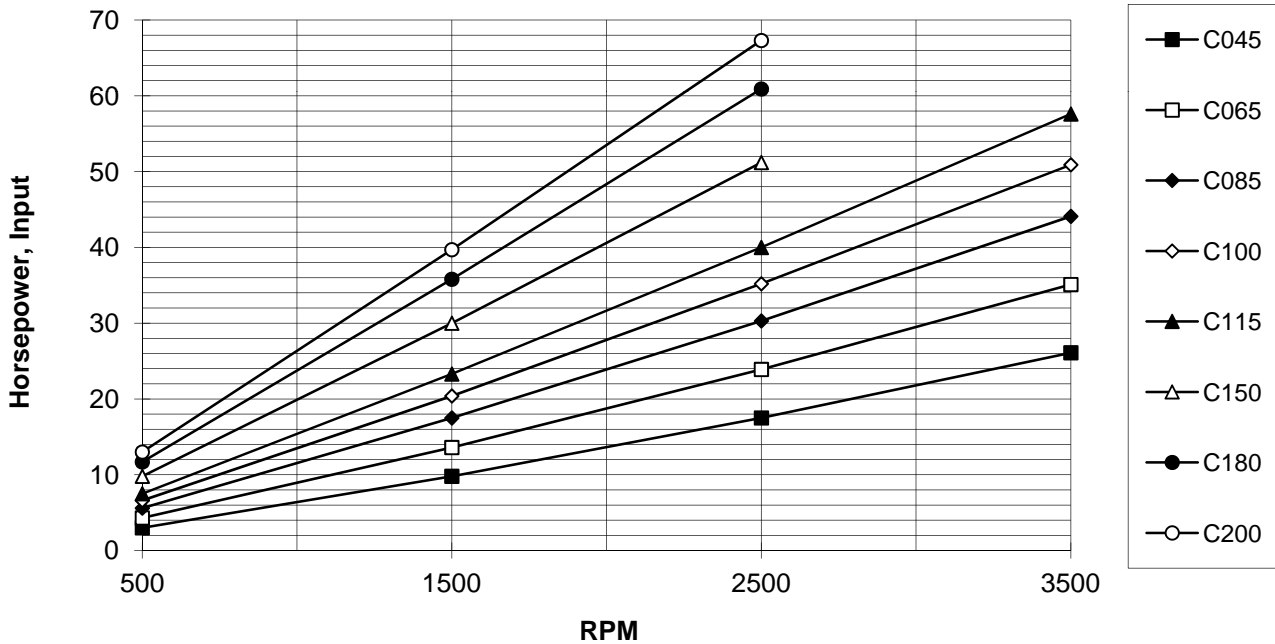


TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

'C' Series Typical Pump Flow @ 2500 PSI



'C' Series Pump Horsepower In @ 2500 PSI

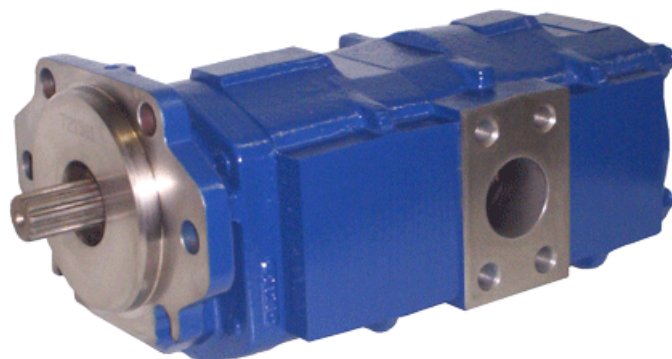




HYDRAULIC GEAR PUMPS AND MOTORS

'C' Series

2 SECTION PUMP



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MAXIMUM PRESSURE | | MAXIMUM SPEED (RPM) |
|------------|---------------------------------------|--------------|-------------|------------------|-----|---------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | PSI | BAR | |
| C45 | .0038 | 0.88 | 14.4 | 3500 | 241 | 3600 |
| C65 | .0055 | 1.27 | 20.8 | 3500 | 241 | 3600 |
| C85 | .0072 | 1.66 | 27.2 | 3500 | 241 | 3400 |
| C100 | .0085 | 1.96 | 32.1 | 3500 | 241 | 3300 |
| C115 | .0097 | 2.24 | 36.7 | 3000 | 207 | 3100 |
| C150 | .0127 | 2.93 | 48.1 | 2500 | 172 | 2800 |
| C180 | .0152 | 3.51 | 57.5 | 2500* | 172 | 2500 |
| C200 | .0169 | 3.90 | 63.9 | 2500* | 172 | 2200 |

* CONSULT FACTORY WITH TYPE APPLICATION PRESSURES MAY BE LIMITED TO SHAFT TYPE

- CAST IRON THROUGHOUT
- PRESSURES TO 3500 PSI
- FLOWS TO 37 GPM / SECTION
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON @SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
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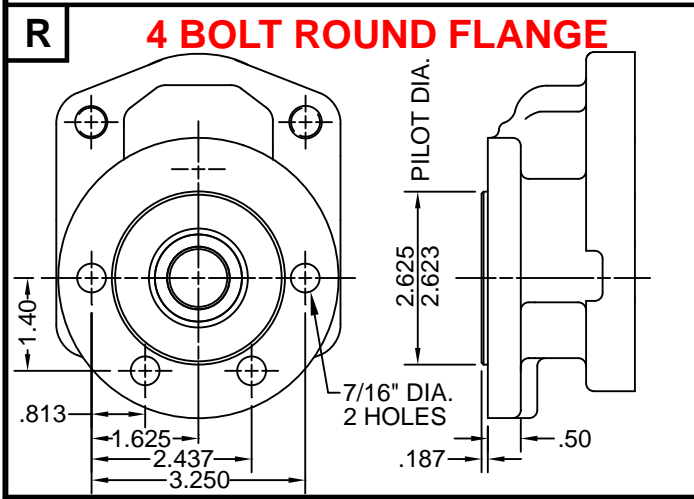
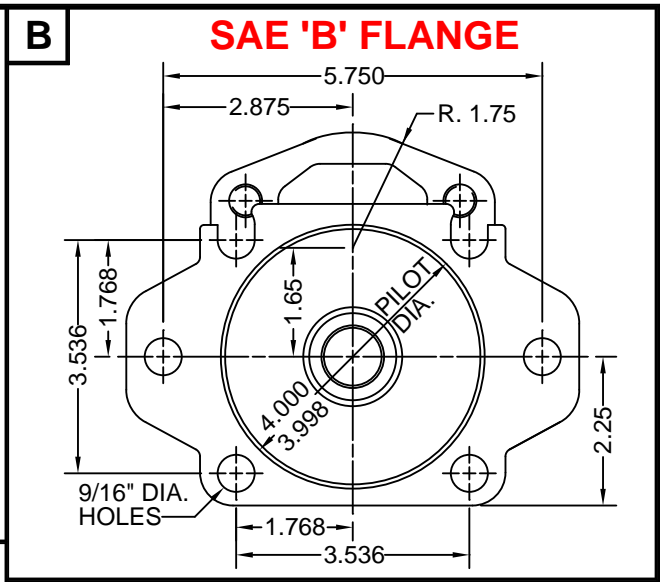
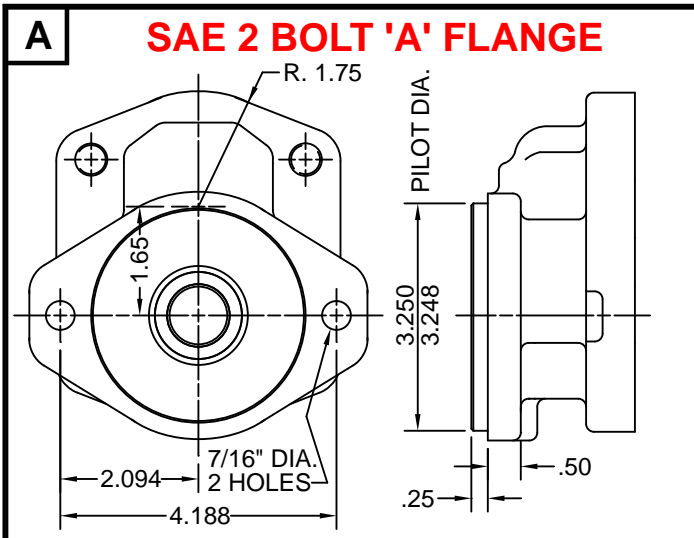
SHAFTS AVAILABLE

| | | | | | | | | | | | | | | | | | |
|--|---|-------|----------------|-----|--------------|---|------------|-----------|--|-----------------|-------|----------------|-----|--------------|----|------------|-----------|
| <p>1 5/8"-9 TOOTH SPLINE AVAILABLE ON 45 THRU 100 SIZES ONLY TORQUE LIMIT 52 FT.-LBS.</p> <p>FLAT ROOT SIDE FIT</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>16/32</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>9</td></tr> <tr><td>MINOR DIA.</td><td>.465-.475</td></tr> </table> <p>DIA. .608 .603</p> <p>.75 FULL SPLINE</p> <p>1.25 FLG. MTG. SURFACE</p> | DIAMETRAL PITCH | 16/32 | PRESSURE ANGLE | 30° | NO. OF TEETH | 9 | MINOR DIA. | .465-.475 | <p>2 7/8"-13 TOOTH SPLINE TORQUE LIMIT 184 FT.-LBS.</p> <p>FLAT ROOT SIDE FIT</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>16/32</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>13</td></tr> <tr><td>MINOR DIA.</td><td>.722-.733</td></tr> </table> <p>DIA. .8585 .8535</p> <p>1.20 FULL SPLINE 1.17</p> <p>1.62 FLG. MTG. SURFACE</p> | DIAMETRAL PITCH | 16/32 | PRESSURE ANGLE | 30° | NO. OF TEETH | 13 | MINOR DIA. | .722-.733 |
| DIAMETRAL PITCH | 16/32 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 9 | | | | | | | | | | | | | | | | |
| MINOR DIA. | .465-.475 | | | | | | | | | | | | | | | | |
| DIAMETRAL PITCH | 16/32 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 13 | | | | | | | | | | | | | | | | |
| MINOR DIA. | .722-.733 | | | | | | | | | | | | | | | | |
| <p>5 7/8" STRAIGHT TORQUE LIMIT 184 FT.-LBS.</p> <p>DIA. .874 .873</p> <p>1/4"x1/4"x1 3/4" KEY</p> <p>2.45 FLG. MTG. SURFACE</p> | <p>6 3/4" STRAIGHT AVAILABLE ON 45 THRU 115 SIZES ONLY TORQUE LIMIT 105 FT.-LBS.</p> <p>DIA. .749 .748</p> <p>3/16"x3/16"x1 1/4" KEY</p> <p>1.62 1.94 FLG. MTG. SURFACE</p> | | | | | | | | | | | | | | | | |

PORTS AVAILABLE

| | |
|--|--|
| <p>1 REAR PORTED SAE STRAIGHT THREAD</p> <p>5.60 2.70 1.35</p> <p>SUCTION SAE #20 O-RING BOSS</p> <p>DISCHARGE SAE #16 O-RING BOSS</p> | <p>3 SAE 4-BOLT CONNECTOR</p> <p>DISCHARGE 3/4" SAE 4-BOLT CONNECTOR</p> |
| <p>5 SIDE PORTED SAE STRAIGHT THREAD</p> <p>DISCHARGE SAE #12 O-RING BOSS</p> | Empty space |

FLANGES AVAILABLE



MOUNTING DIMENSIONS

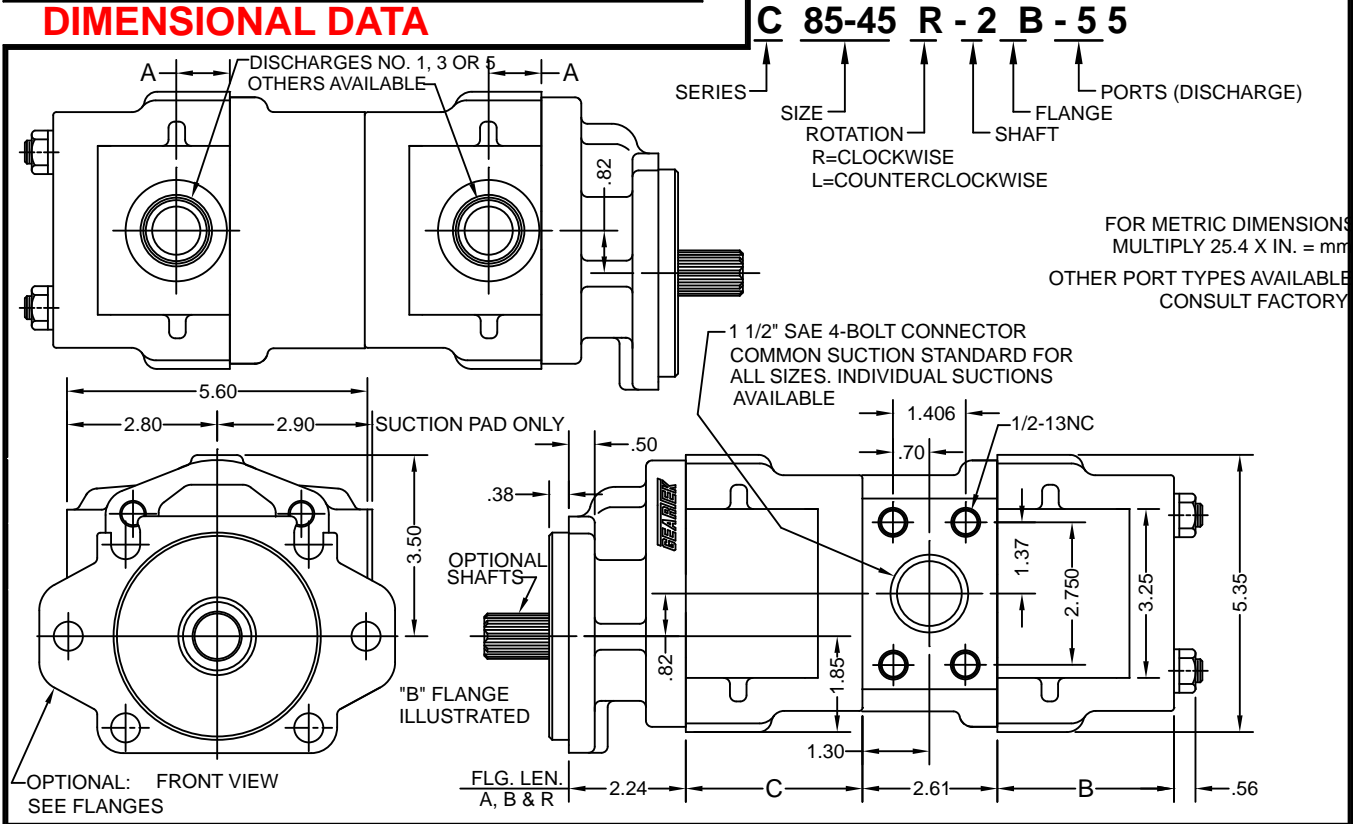
| SIZE | A | B | C |
|------|------|------|------|
| C45 | 1.06 | 2.98 | 2.32 |
| C65 | 1.06 | 3.20 | 2.54 |
| C85 | 1.06 | 3.41 | 2.75 |
| C100 | 1.06 | 3.57 | 2.91 |
| C115 | 1.25 | 3.73 | 3.07 |
| C150 | 1.25 | 4.10 | 3.44 |
| C180 | 1.25 | 4.42 | 3.76 |
| C200 | 1.25 | 4.64 | 3.98 |

MODEL EXAMPLE

C 85-45 R - 2 B - 5 5

SERIES — SIZE — ROTATION — FLANGE — PORTS (DISCHARGE)
 R=CLOCKWISE
 L=COUNTERCLOCKWISE

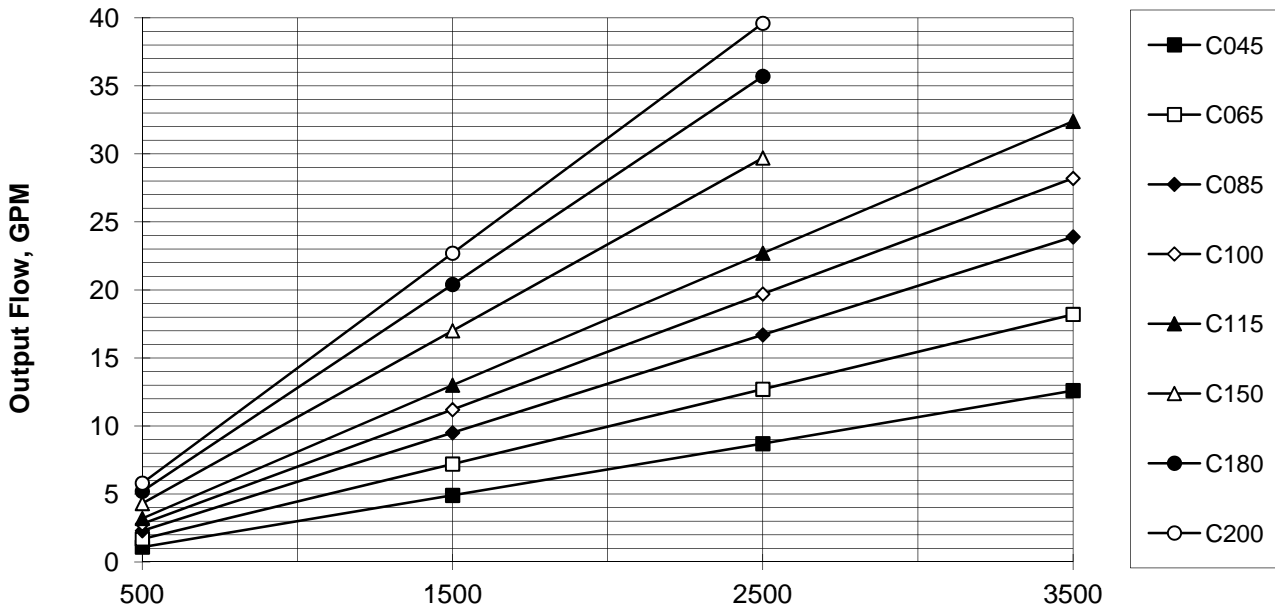
FOR METRIC DIMENSIONS
 MULTIPLY 25.4 X IN. = mm
 OTHER PORT TYPES AVAILABLE
 CONSULT FACTORY



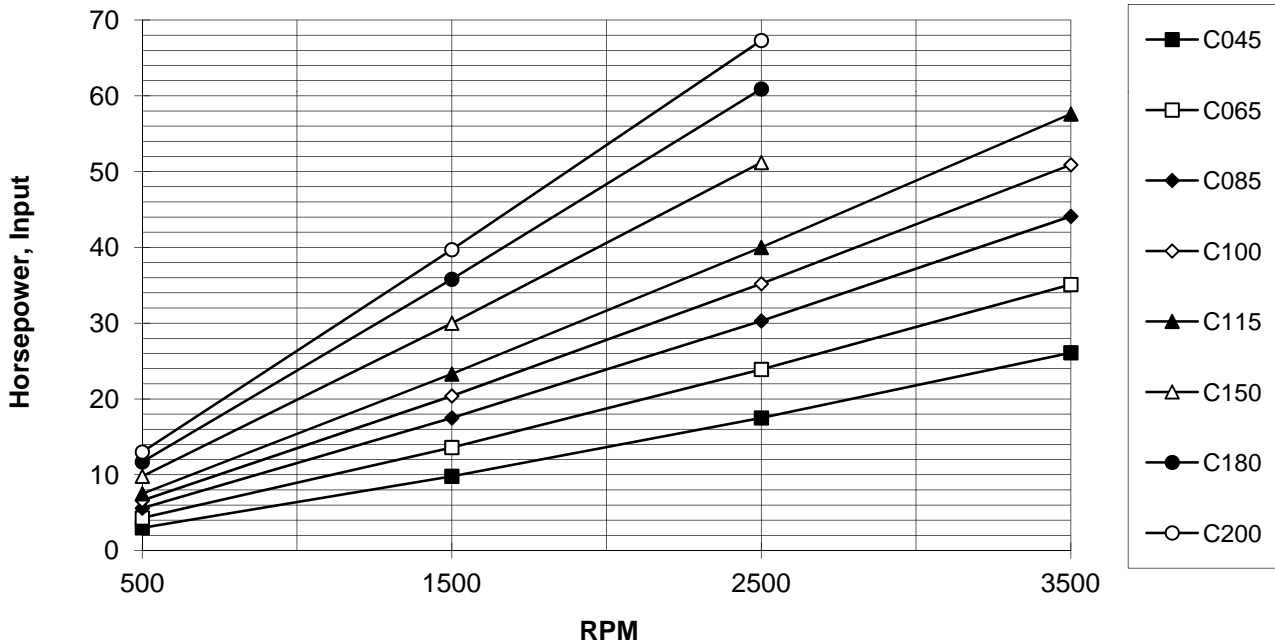
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TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

'C' Series Typical Pump Flow @ 2500 PSI



'C' Series Pump Horsepower In @ 2500 PSI

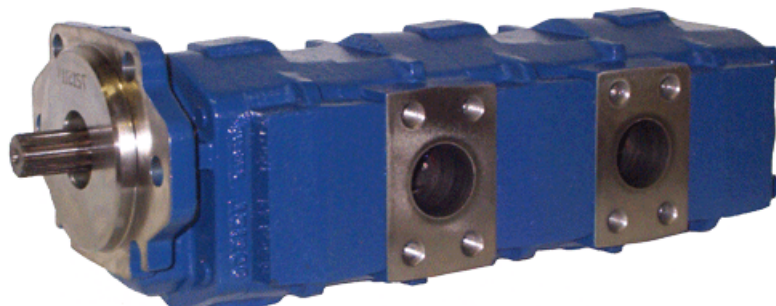




HYDRAULIC GEAR PUMPS AND MOTORS

'C' Series

3 SECTION PUMP



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MAXIMUM PRESSURE | | MAXIMUM SPEED (RPM) |
|---------------|--|--------------|-------------|---------------------|-----|---------------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | PSI | BAR | |
| C45 | .0038 | 0.88 | 14.4 | 3500 | 241 | 3600 |
| C65 | .0055 | 1.27 | 20.8 | 3500 | 241 | 3600 |
| C85 | .0072 | 1.66 | 27.2 | 3500 | 241 | 3400 |
| C100 | .0085 | 1.96 | 32.1 | 3500 | 241 | 3300 |
| C115 | .0097 | 2.24 | 36.7 | 3000 | 207 | 3100 |
| C150 | .0127 | 2.93 | 48.1 | 2500 | 172 | 2800 |
| C180 | .0152 | 3.51 | 57.5 | 2500* | 172 | 2500 |
| C200 | .0169 | 3.90 | 63.9 | 2500* | 172 | 2200 |

* CONSULT FACTORY WITH TYPE APPLICATION
PRESSURES MAY BE LIMITED TO SHAFT TYPE

- CAST IRON THROUGHOUT
- PRESSURES TO 3500 PSI
- FLOWS TO 37 GPM / SECTION
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
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SHAFTS AVAILABLE

| | | | |
|----------|---|----------|---|
| 2 | 7/8"-13 TOOTH SPLINE TORQUE LIMIT 184 FT.-LBS. FLAT ROOT SIDE FIT DIAMETRAL PITCH 16/32 PRESSURE ANGLE 30° NO. OF TEETH 13 MINOR DIA. .722-.733 | 5 | 7/8" STRAIGHT TORQUE LIMIT 184 FT.-LBS. |
| | | | |

PORTS AVAILABLE

| | | | |
|----------|-----------------------------|----------|--|
| 3 | SAE 4-BOLT CONNECTOR | 5 | SIDE PORTED SAE STRAIGHT THREAD |
| | | | |

FLANGES AVAILABLE

| | | | |
|----------|------------------------------|----------|-----------------------|
| A | SAE 2 BOLT 'A' FLANGE | B | SAE 'B' FLANGE |
| | | | |

DIMENSIONAL DATA

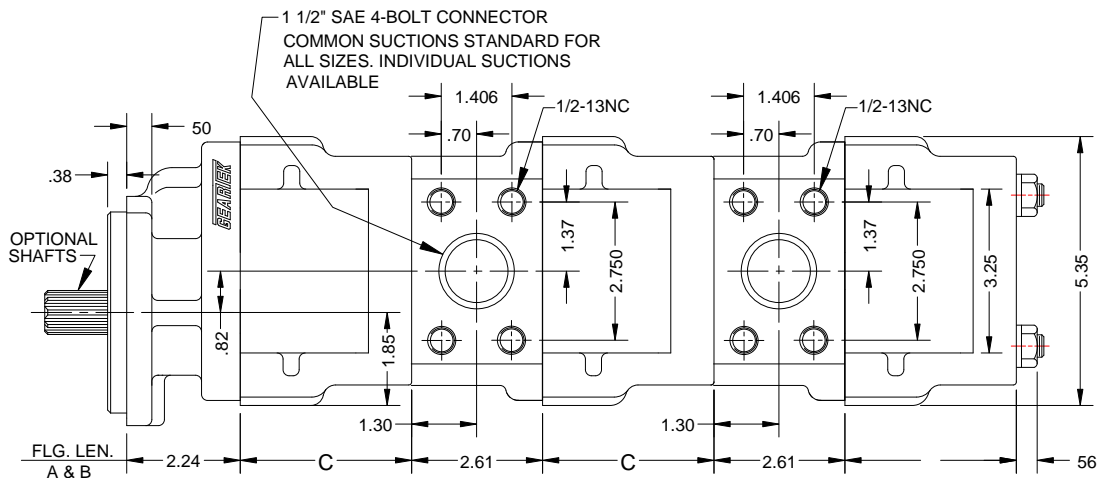
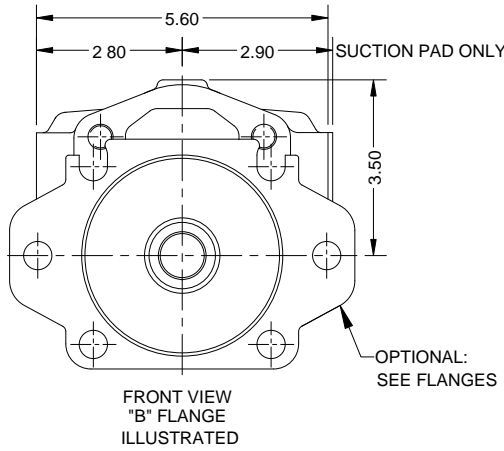
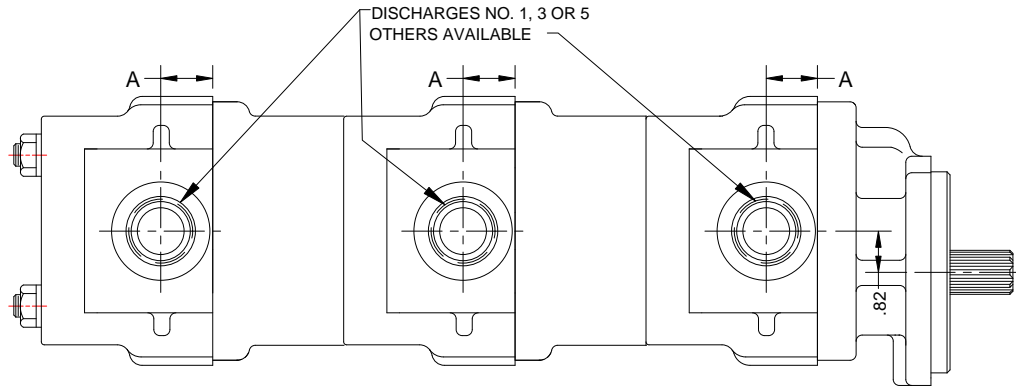
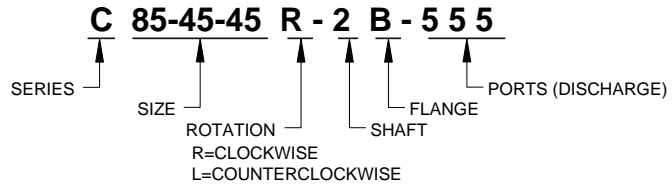
MOUNTING DIMENSIONS

| SIZE | A | B | C |
|------|------|------|------|
| C45 | 1.06 | 2.98 | 2.32 |
| C65 | 1.06 | 3.20 | 2.54 |
| C85 | 1.06 | 3.41 | 2.75 |
| C100 | 1.06 | 3.57 | 2.91 |
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| C150 | 1.25 | 4.10 | 3.44 |
| C180 | 1.25 | 4.42 | 3.76 |
| C200 | 1.25 | 4.64 | 3.98 |

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

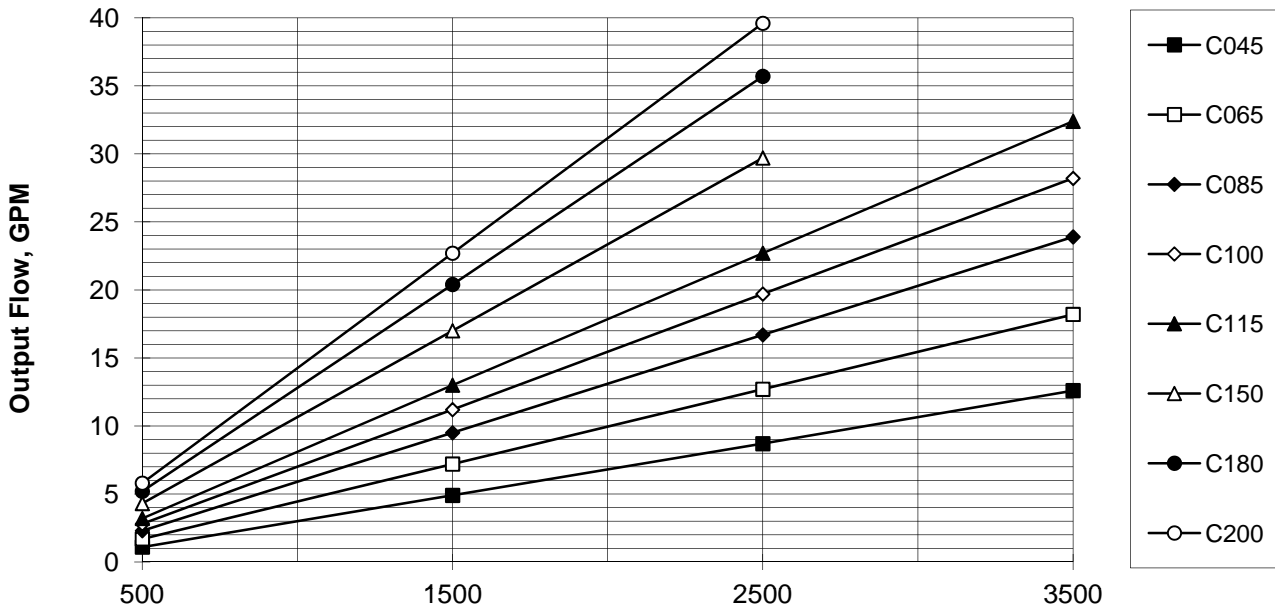
MODEL EXAMPLE



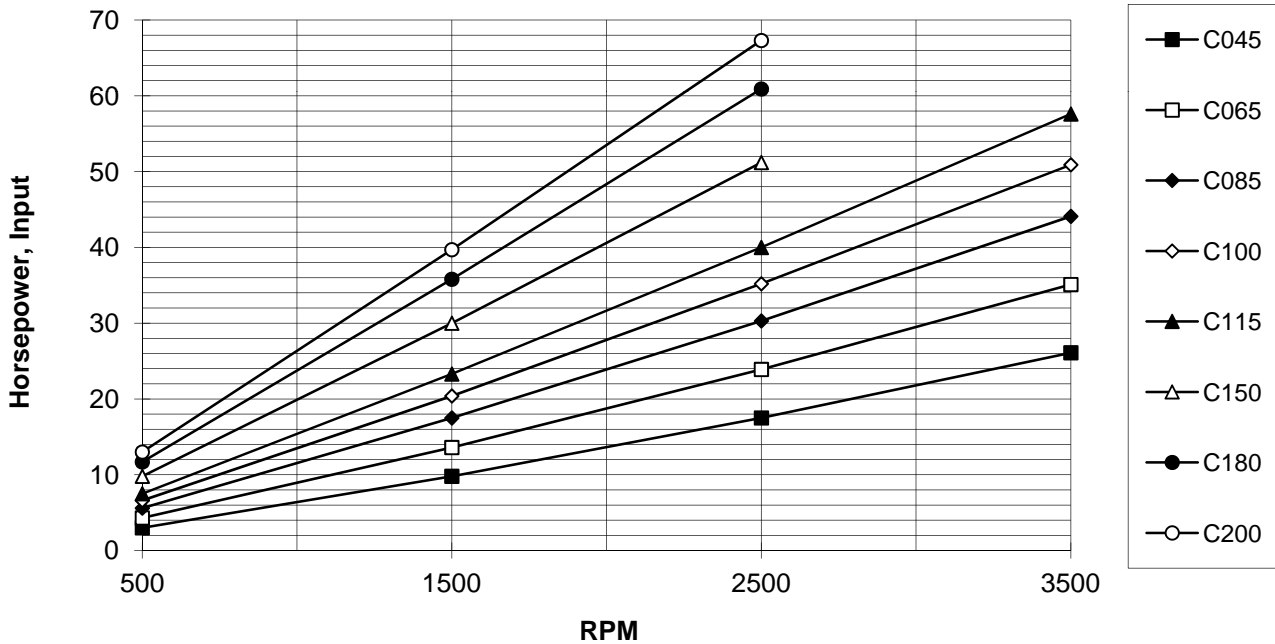
UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONS ARE IN INCHES.

TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

'C' Series Typical Pump Flow @ 2500 PSI



'C' Series Pump Horsepower In @ 2500 PSI





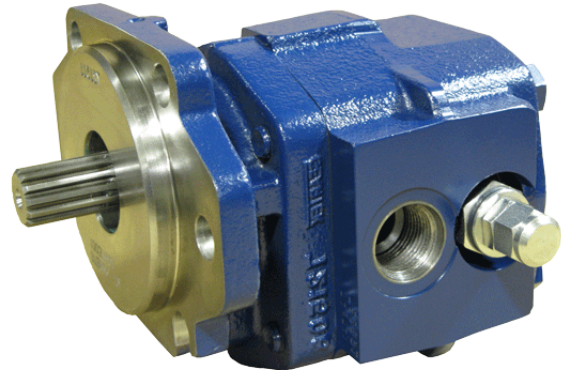
HYDRAULIC GEAR PUMPS AND MOTORS

'CX' Series

SINGLE PUMP w/ RELIEF VALVE

GEARTEK 'C' SERIES WITH INTEGRAL RELIEF VALVE

The adjustable cartridge relieves from discharge back to suction internally. Flows to GPM, pressures from 100 psi to 3,000 psi.



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MAXIMUM PRESSURE | | MAXIMUM SPEED (RPM) |
|---------------|--|--------------|-------------|---------------------|-----|---------------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | PSI | BAR | |
| CX45 | .0038 | 0.88 | 14.4 | 3000 ** | 241 | 3600 |
| CX65 | .0055 | 1.27 | 20.8 | 3000 ** | 241 | 3600 |
| CX85 | .0072 | 1.66 | 27.2 | 3000 ** | 241 | 3400 *** |
| CX100 | .0085 | 1.96 | 32.1 | 3000 ** | 241 | 3300 *** |
| CX115 | .0097 | 2.24 | 36.7 | 3000 | 207 | 3100 *** |
| CX150 | .0127 | 2.93 | 48.1 | 2500 | 172 | 2800 *** |
| CX180 | .0152 | 3.51 | 57.5 | 2500 * | 172 | 2500 *** |
| CX200 | .0169 | 3.90 | 63.9 | 2500 * | 172 | 2200 *** |

* CONSULT FACTORY WITH TYPE APPLICATION - PRESSURES MAY BE LIMITED TO SHAFT TYPE

** RELIEF VALVE RATED @ 3000 PSI

*** RELIEF VALVE RATED TO 20 GPM

- CAST IRON THROUGHOUT
- PRESSURES TO 3000 PSI
- FLOWS TO 20 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
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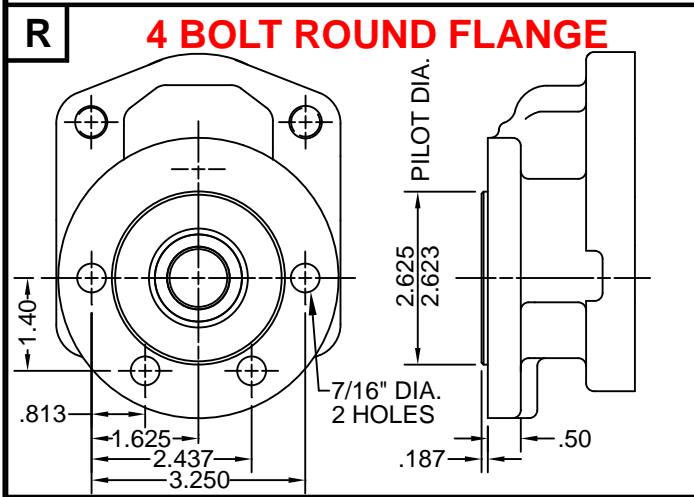
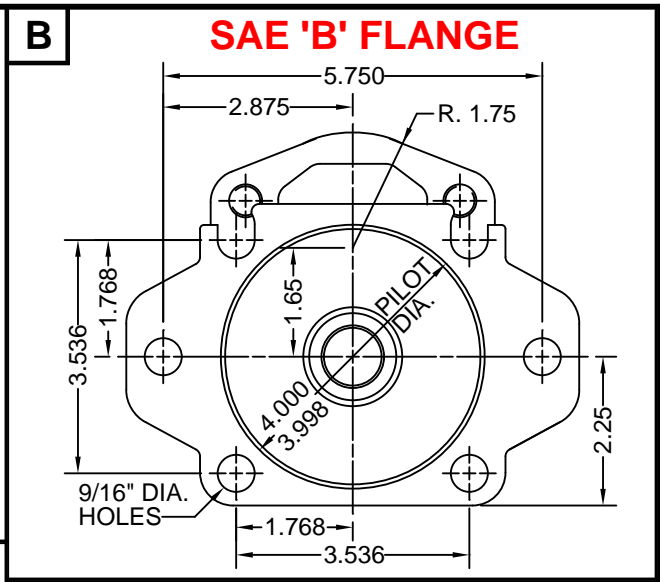
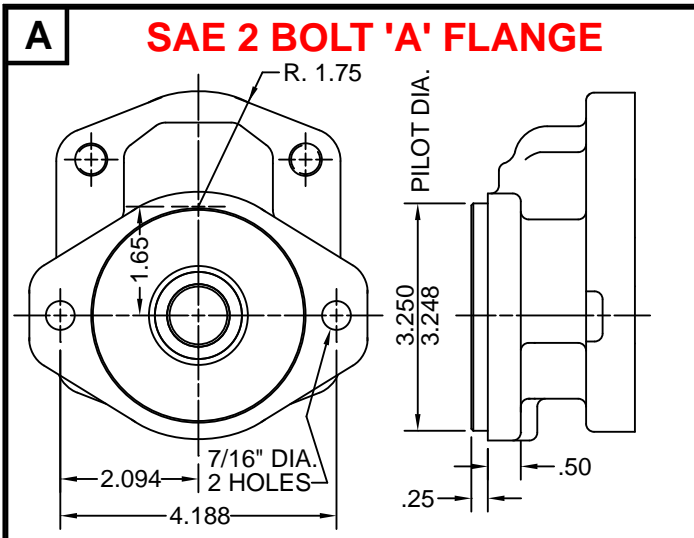
SHAFTS AVAILABLE

| | | | | | | | | | | | | | | | | | |
|--|---|-------|----------------|-----|--------------|---|------------|-----------|--|-----------------|-------|----------------|-----|--------------|----|------------|-----------|
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| DIAMETRAL PITCH | 16/32 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 13 | | | | | | | | | | | | | | | | |
| MINOR DIA. | .722-.733 | | | | | | | | | | | | | | | | |
| <p>5 7/8" STRAIGHT TORQUE LIMIT 184 FT.-LBS.</p> | <p>6 3/4" STRAIGHT AVAILABLE ON 45 THRU 115 SIZES ONLY TORQUE LIMIT 105 FT.-LBS.</p> | | | | | | | | | | | | | | | | |

PORTS AVAILABLE

| | |
|---|--|
| | <p>3 SAE 4-BOLT CONNECTOR</p> |
| <p>5 SIDE PORTED SAE STRAIGHT THREAD</p> | |

FLANGES AVAILABLE



MOUNTING DIMENSIONS

| SIZE | A | B |
|-------|--------|------|
| CX45 | 1.06 * | 2.98 |
| CX65 | 1.06 | 3.20 |
| CX85 | 1.06 | 3.41 |
| CX100 | 1.06 | 3.57 |
| CX115 | 1.25 | 3.73 |
| CX150 | 1.25 | 4.10 |
| CX180 | 1.25 | 4.42 |
| CX200 | 1.25 | 4.64 |

* .88 DISCHARGE PORT C/L FOR CX45 SIZE ONLY
ALL OTHER DISC. C/L'S SAME AS SUC.

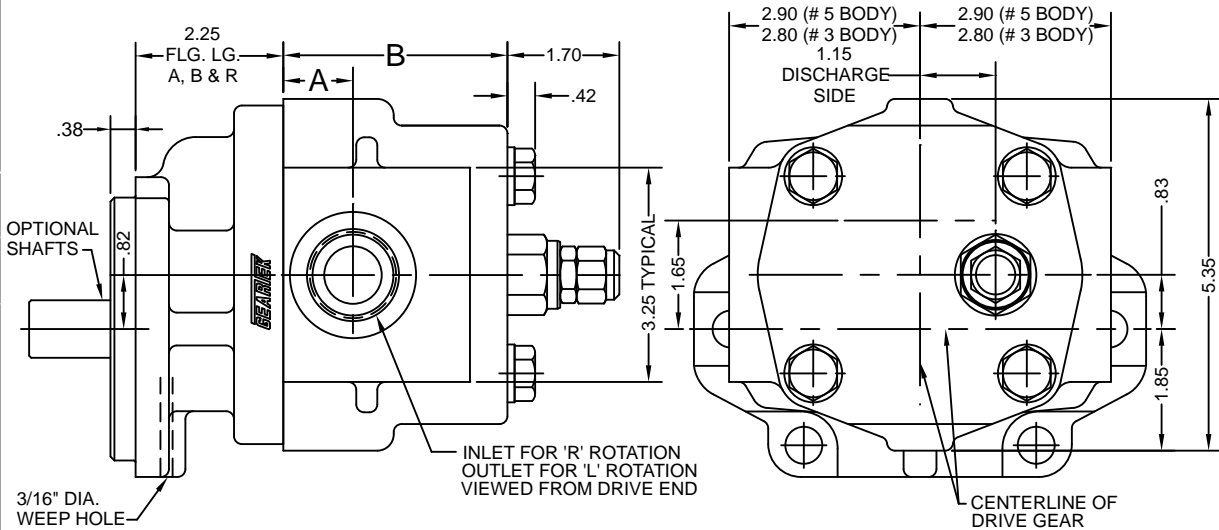
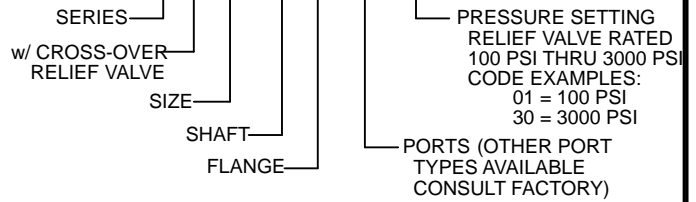
DIMENSIONAL DATA

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

LOCATION OF VALVE CARTRIDGE
DEPENDANT ON APPLICATION
CONSULT FACTORY

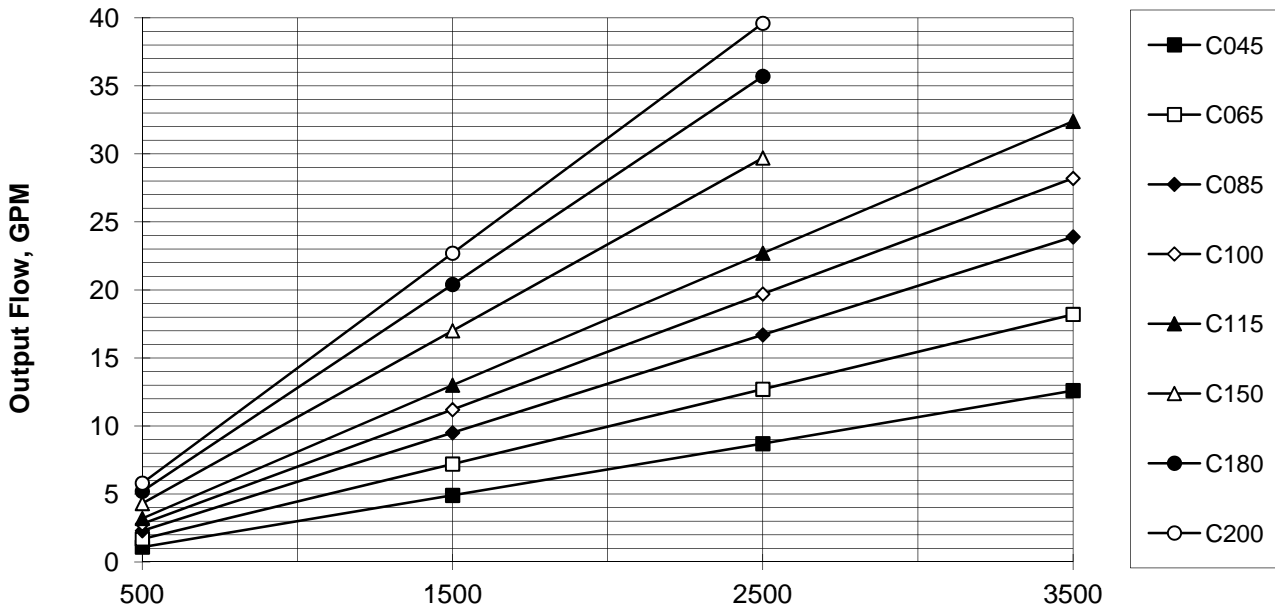
MODEL EXAMPLE
C X 45 - 2 B - 5 - 30



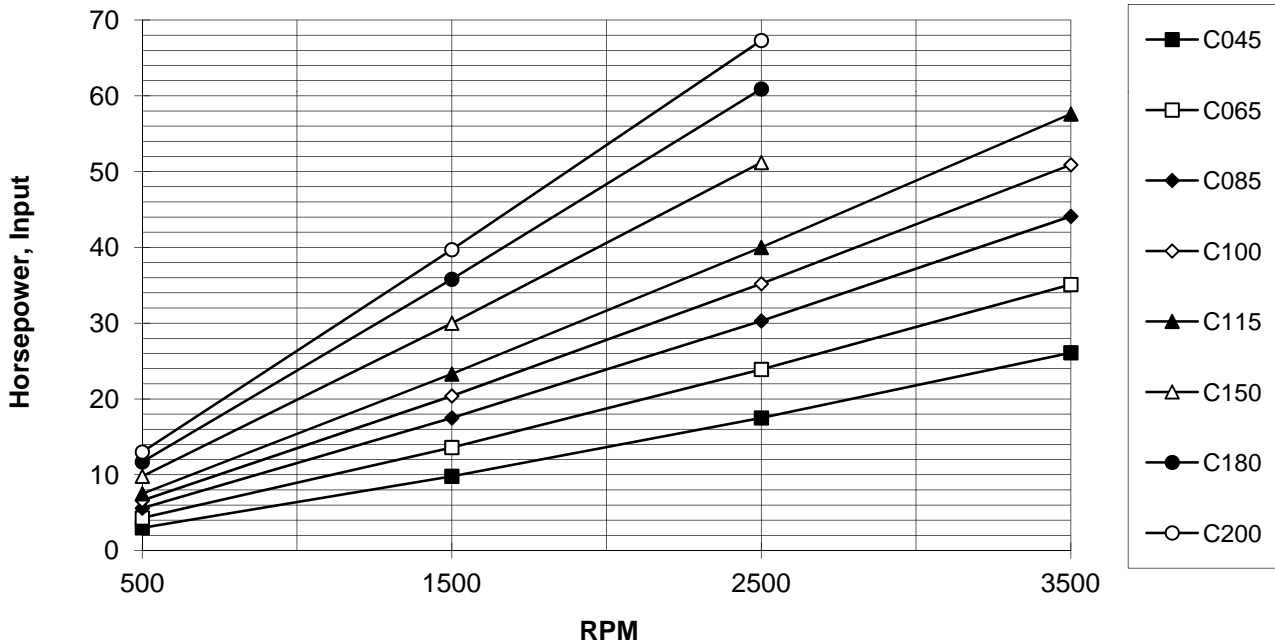
UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONS ARE IN INCHES.

TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

'C' Series Typical Pump Flow @ 2500 PSI



'C' Series Pump Horsepower In @ 2500 PSI





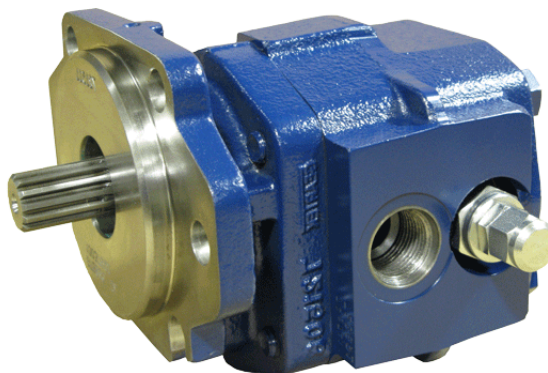
HYDRAULIC GEAR PUMPS AND MOTORS

'MCX' Series

SINGLE MOTOR w/ RELIEF VALVE

GEARTEK 'RPMC' SERIES MOTOR
WITH INTEGRAL CROSSOVER RELIEF VALVE

Valve will relieve from high pressure side to low pressure side regardless of rotation. Flows to 20 GPM, pressures from 100 psi to 3,000 psi.



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | | | IN-LB TORQUE @ 2400 RPM & 2500 PSI | | HP/OUT @ 2400 RPM & 2500 PSI | MAX. PRESSURE | |
|---------------|--|-----------------|----------------|------|---------|--|------|---------------------------------------|------------------|-----|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | RPM | | START | RUN | | PSI | BAR |
| | | | | MIN. | MAX. | | | | | |
| MCX45 | .0038 | 0.88 | 14.4 | 600 | 3600 | 241 | 301 | 11 | 3000 ** | 241 |
| MCX65 | .0055 | 1.27 | 20.8 | 600 | 3600 | 347 | 434 | 16 | 3000 ** | 241 |
| MCX85 | .0072 | 1.66 | 27.2 | 600 | 3400*** | 455 | 569 | 22 | 3000 ** | 241 |
| MCX100 | .0085 | 1.96 | 32.1 | 600 | 3300*** | 535 | 669 | 25 | 3000 ** | 241 |
| MCX115 | .0097 | 2.24 | 36.7 | 600 | 3100*** | 615 | 769 | 29 | 3000 | 207 |
| MCX150 | .0127 | 2.93 | 48.1 | 600 | 2800*** | 802 | 1003 | 38 | 2500 | 172 |
| MCX180 | .0152 | 3.51 | 57.5 | 600 | 2500*** | 962 | 1203 | 46 | 2500* | 172 |
| MCX200 | .0169 | 3.90 | 63.9 | 600 | 2200 | 1069 | 1337 | 51 | 2500* | 172 |

* CONSULT FACTORY WITH TYPE APPLICATION - PRESSURES MAY BE LIMITED TO SHAFT TYPE

** RELIEF VALVE RATED @ 3000 PSI

*** RELIEF VALVE RATED TO 20 GPM

- CAST IRON THROUGHOUT
- PRESSURES TO 3000 PSI
- FLOWS TO 20 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

P. O. BOX 2160, 1506 FULTON DR.
CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

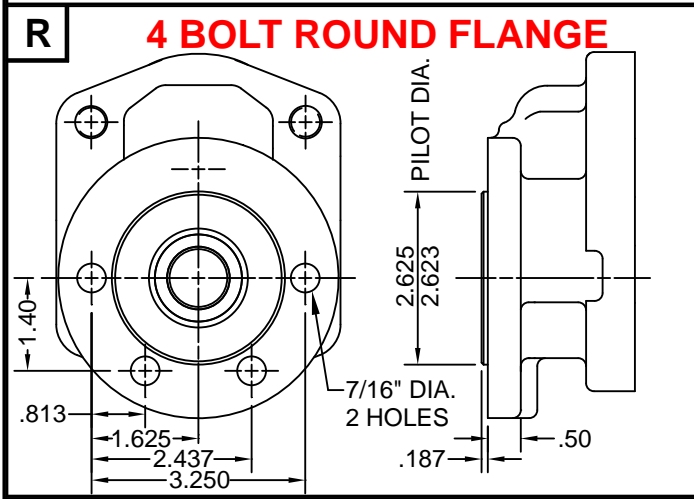
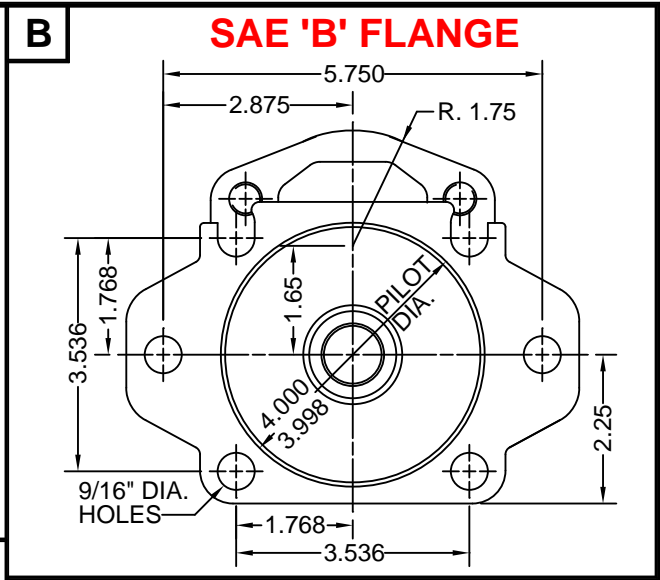
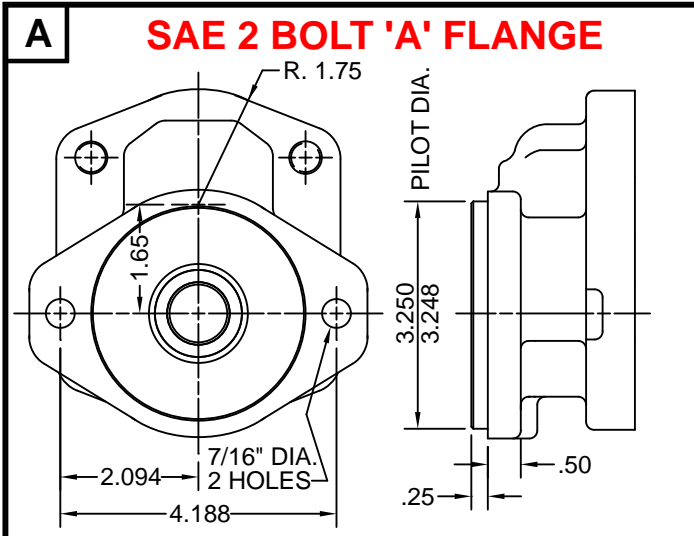
SHAFTS AVAILABLE

| | | | | | | | | | | | | | | | | | |
|---|--|-------|----------------|-----|--------------|---|------------|-----------|---|-----------------|-------|----------------|-----|--------------|----|------------|-----------|
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| NO. OF TEETH | 13 | | | | | | | | | | | | | | | | |
| MINOR DIA. | .722-.733 | | | | | | | | | | | | | | | | |
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PORTS AVAILABLE

| <p>5 SIDE PORTED SAE STRAIGHT THREAD</p> | <p>PORT SIZES</p> <table border="1"> <thead> <tr> <th>SIZE</th> <th>FOR CODE 5 PORTS BOTH SIDES SAE STRAIGHT THREAD O-RING BOSS</th> </tr> </thead> <tbody> <tr><td>RPMC45</td><td>NO. 12 1 1/16-12UN-2B</td></tr> <tr><td>RPMC65</td><td>NO. 16 1 5/16-12UN-2B</td></tr> <tr><td>RPMC85</td><td>NO. 16 1 5/16-12UN-2B</td></tr> <tr><td>RPMC100</td><td>NO. 16 1 5/16-12UN-2B</td></tr> <tr><td>RPMC115</td><td>NO. 20 1 5/8-12UN-2B</td></tr> <tr><td>RPMC150</td><td>NO. 20 1 5/8-12UN-2B</td></tr> <tr><td>RPMC180</td><td>NO. 20 1 5/8-12UN-2B</td></tr> <tr><td>RPMC200</td><td>NO. 20 1 5/8-12UN-2B</td></tr> </tbody> </table> | SIZE | FOR CODE 5 PORTS BOTH SIDES SAE STRAIGHT THREAD O-RING BOSS | RPMC45 | NO. 12 1 1/16-12UN-2B | RPMC65 | NO. 16 1 5/16-12UN-2B | RPMC85 | NO. 16 1 5/16-12UN-2B | RPMC100 | NO. 16 1 5/16-12UN-2B | RPMC115 | NO. 20 1 5/8-12UN-2B | RPMC150 | NO. 20 1 5/8-12UN-2B | RPMC180 | NO. 20 1 5/8-12UN-2B | RPMC200 | NO. 20 1 5/8-12UN-2B |
|--|---|------|--|--------|-----------------------|--------|-----------------------|--------|-----------------------|---------|-----------------------|---------|----------------------|---------|----------------------|---------|----------------------|---------|----------------------|
| SIZE | FOR CODE 5 PORTS BOTH SIDES SAE STRAIGHT THREAD O-RING BOSS | | | | | | | | | | | | | | | | | | |
| RPMC45 | NO. 12 1 1/16-12UN-2B | | | | | | | | | | | | | | | | | | |
| RPMC65 | NO. 16 1 5/16-12UN-2B | | | | | | | | | | | | | | | | | | |
| RPMC85 | NO. 16 1 5/16-12UN-2B | | | | | | | | | | | | | | | | | | |
| RPMC100 | NO. 16 1 5/16-12UN-2B | | | | | | | | | | | | | | | | | | |
| RPMC115 | NO. 20 1 5/8-12UN-2B | | | | | | | | | | | | | | | | | | |
| RPMC150 | NO. 20 1 5/8-12UN-2B | | | | | | | | | | | | | | | | | | |
| RPMC180 | NO. 20 1 5/8-12UN-2B | | | | | | | | | | | | | | | | | | |
| RPMC200 | NO. 20 1 5/8-12UN-2B | | | | | | | | | | | | | | | | | | |

FLANGES AVAILABLE



MOUNTING DIMENSIONS

| SIZE | A | B |
|--------|------|------|
| MCX45 | .88 | 2.98 |
| MCX65 | 1.06 | 3.20 |
| MCX85 | 1.06 | 3.41 |
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| MCX180 | 1.25 | 4.42 |
| MCX200 | 1.25 | 4.64 |

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

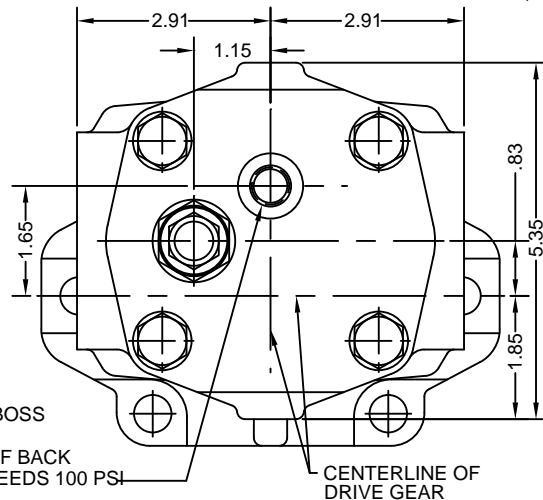
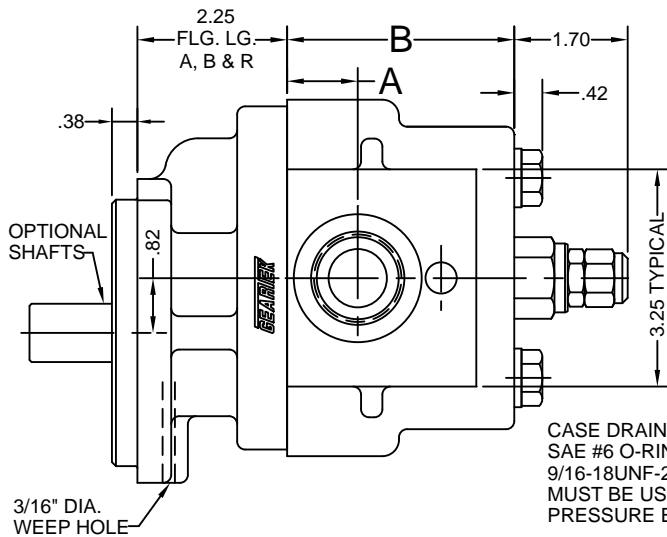
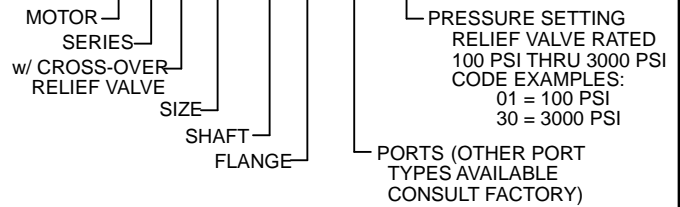
DIMENSIONAL DATA

OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

LOCATION OF VALVE CARTRIDGE
DEPENDANT ON APPLICATION
CONSULT FACTORY

MODEL EXAMPLE

M C X 45 - 2 B - 5 - 30

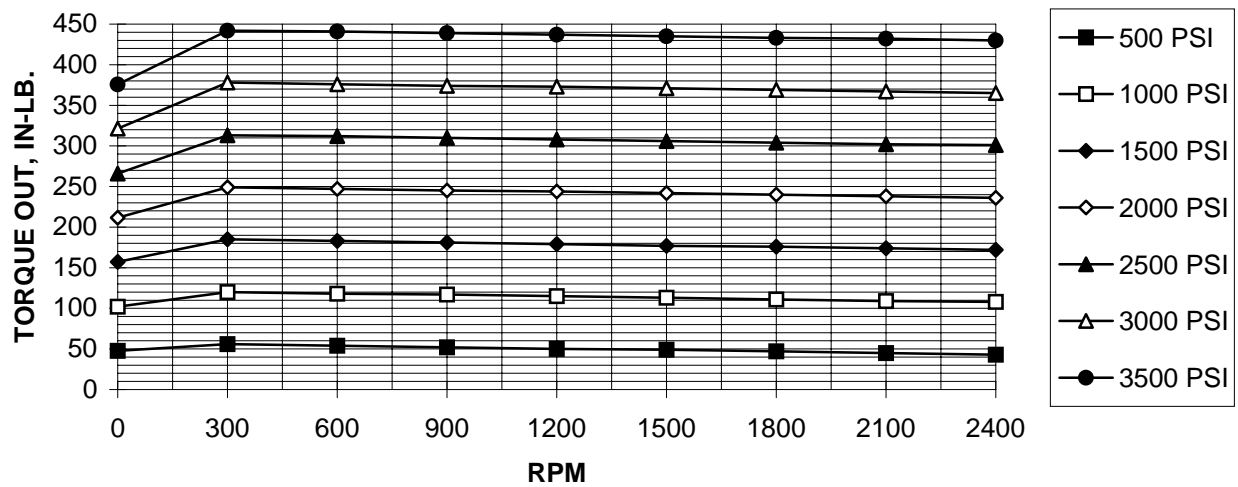
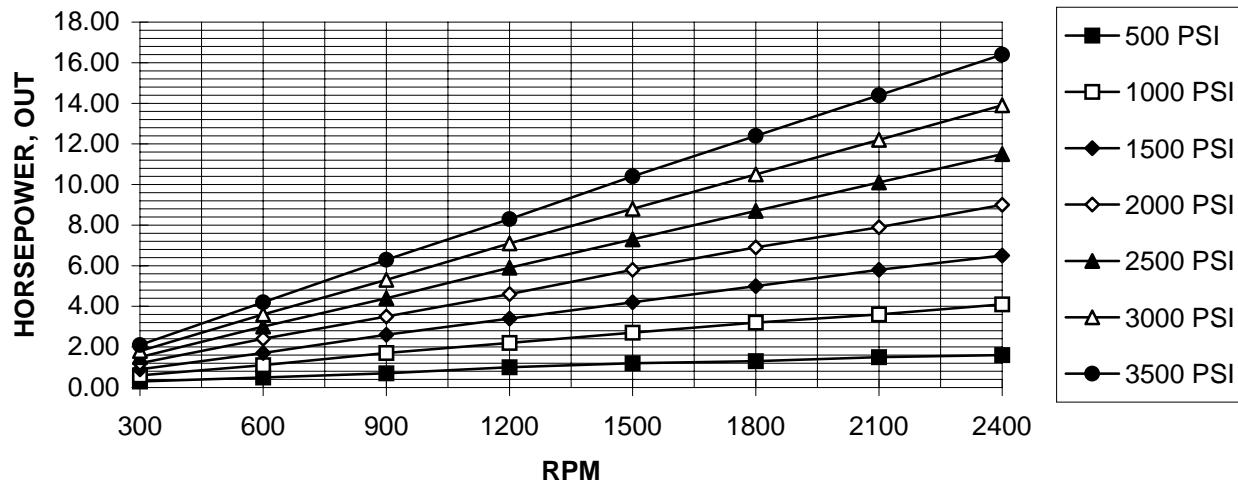
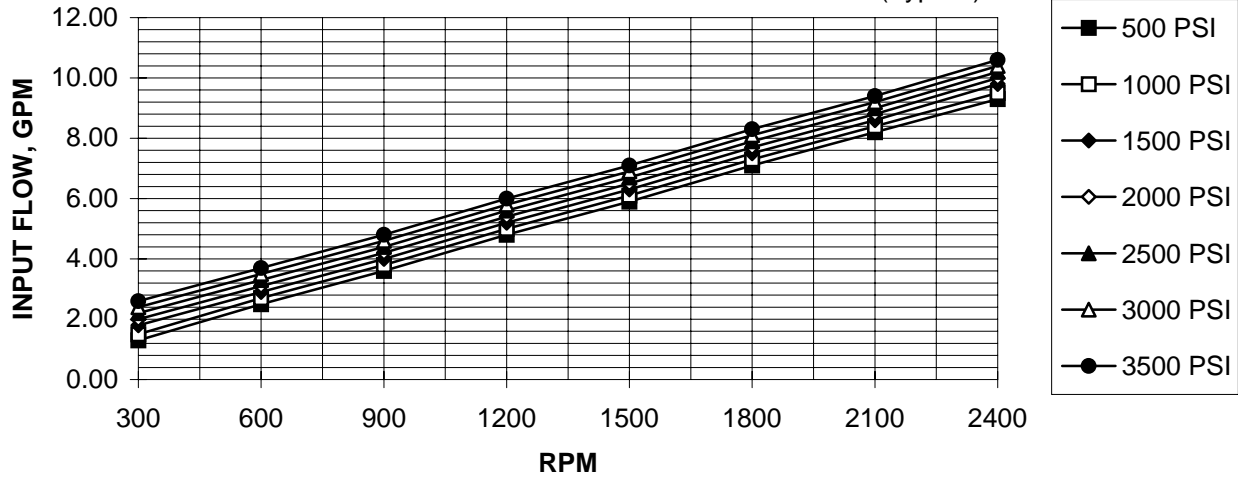


CASE DRAIN
SAE #6 O-RING BOSS
9/16-18UNF-2B
MUST BE USED IF BACK
PRESSURE EXCEEDS 100 PSI

GEARTEK MC45 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

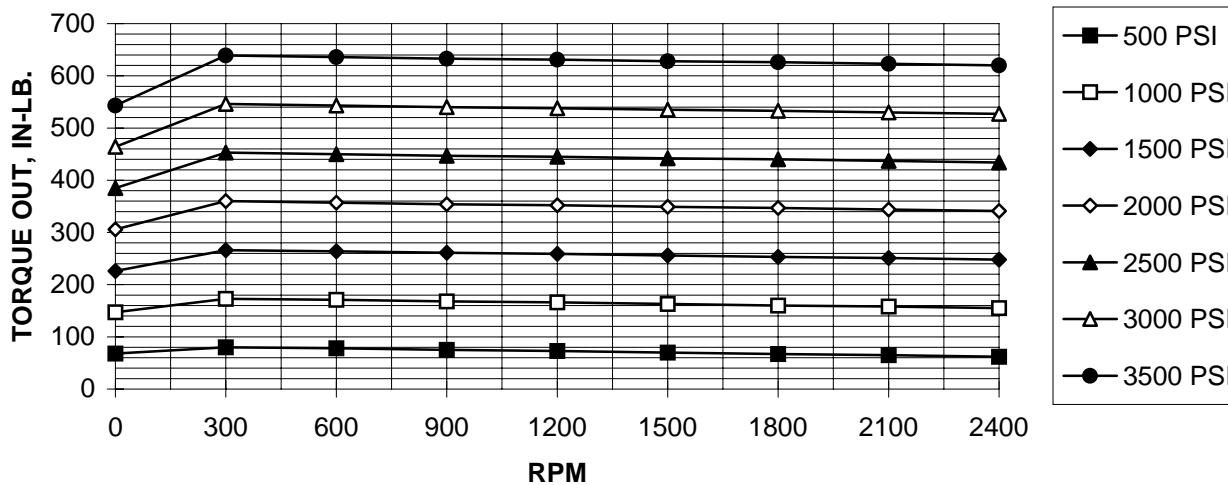
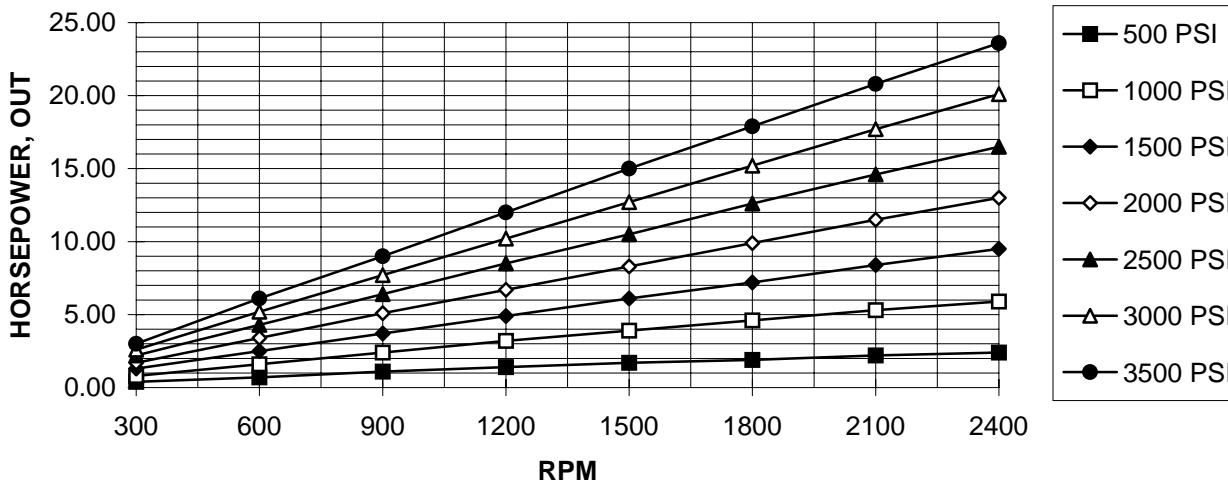
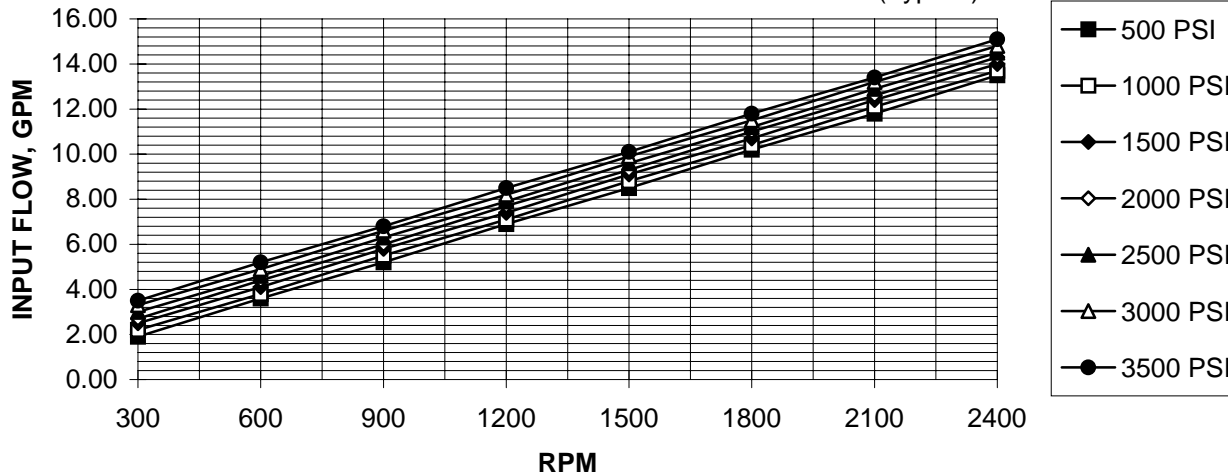
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GEARTEK MC65 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

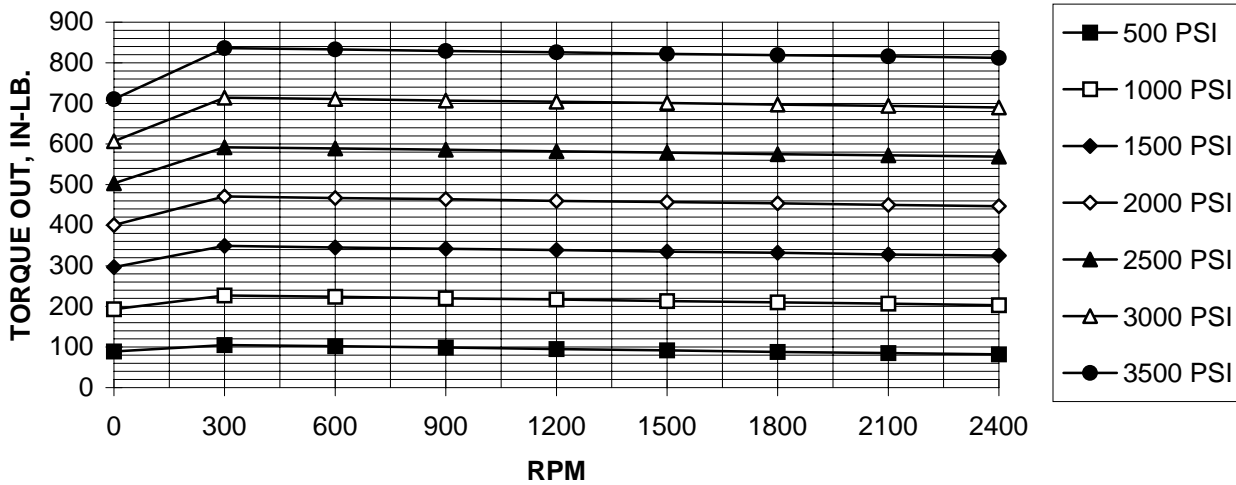
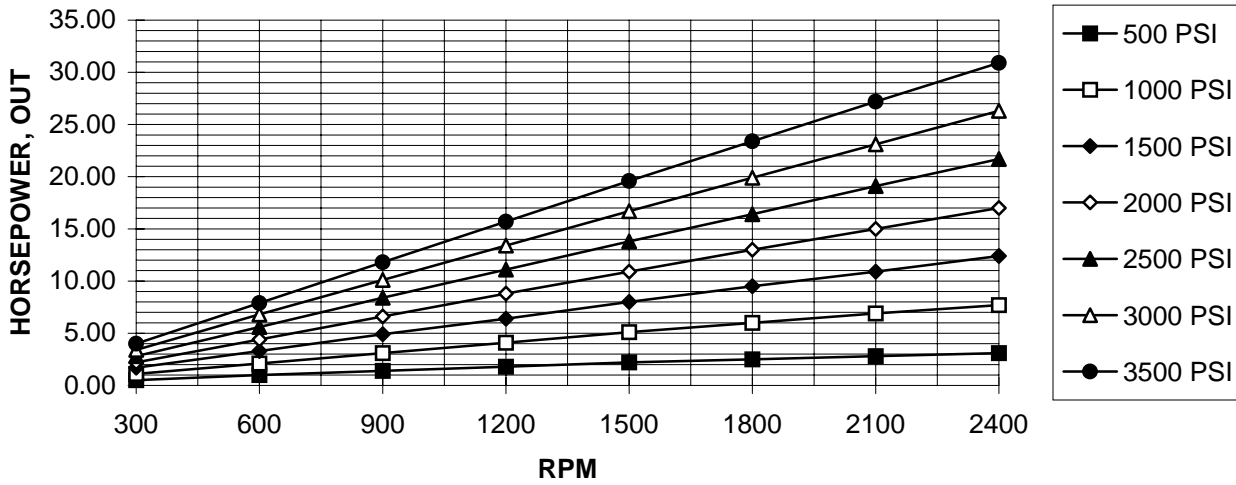
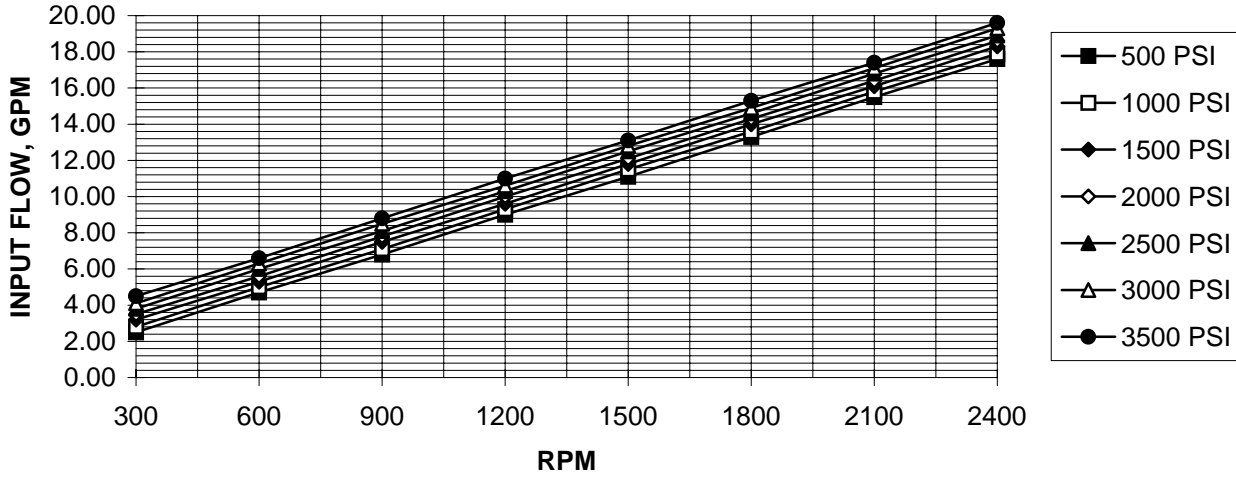
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GEARTEK MC85 MOTOR PERFORMANCE

SAE 10W oil @ 150degrees F

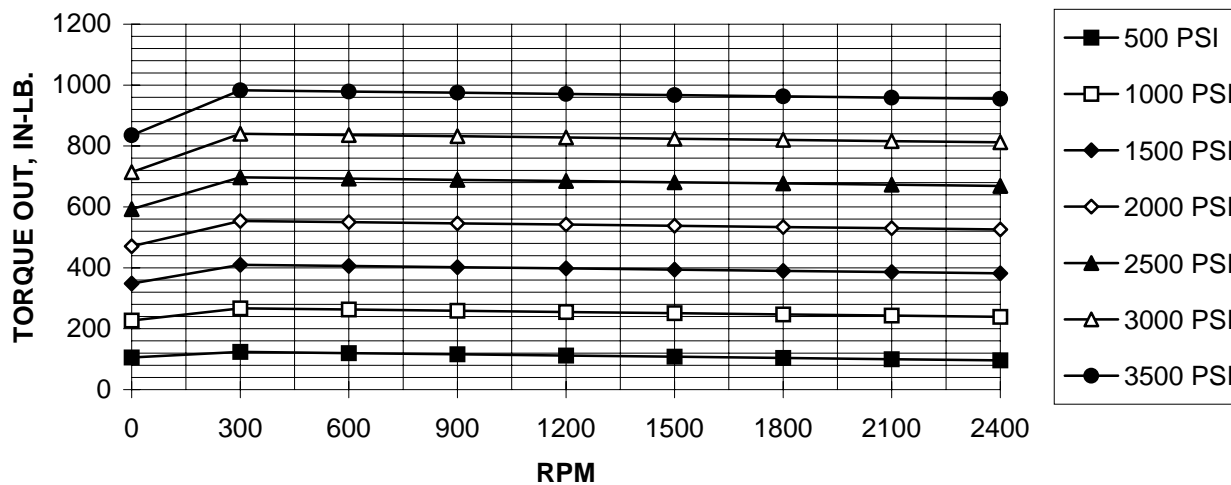
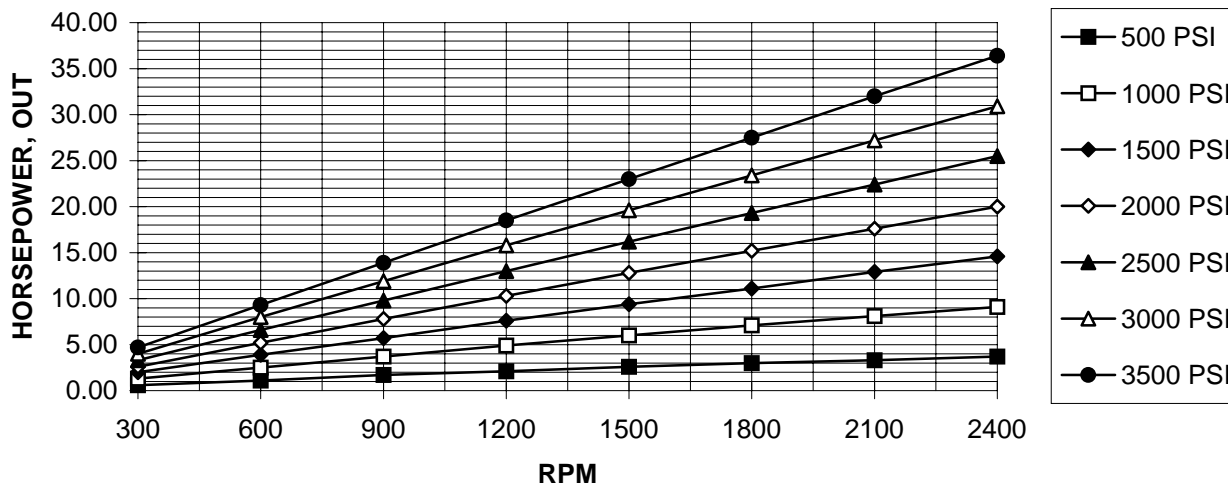
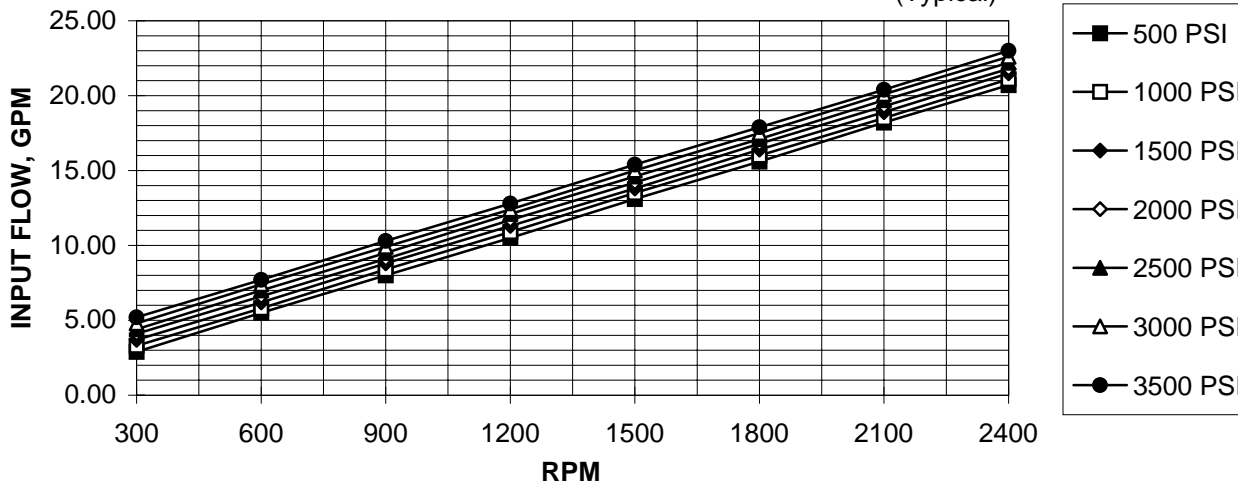
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GEARTEK MC100 MOTOR PERFORMANCE

SAE 10W oil @ 150degrees F

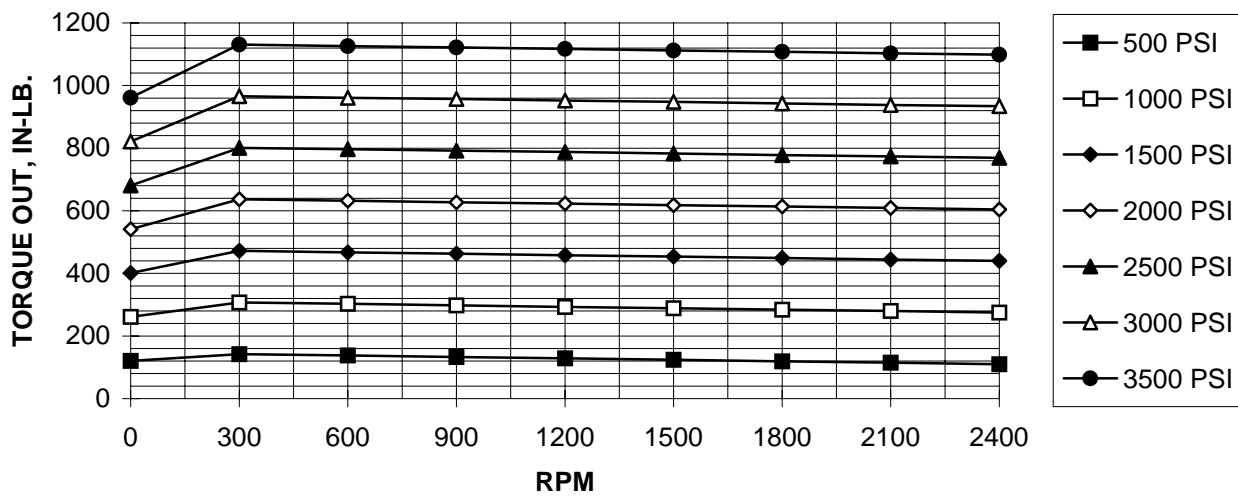
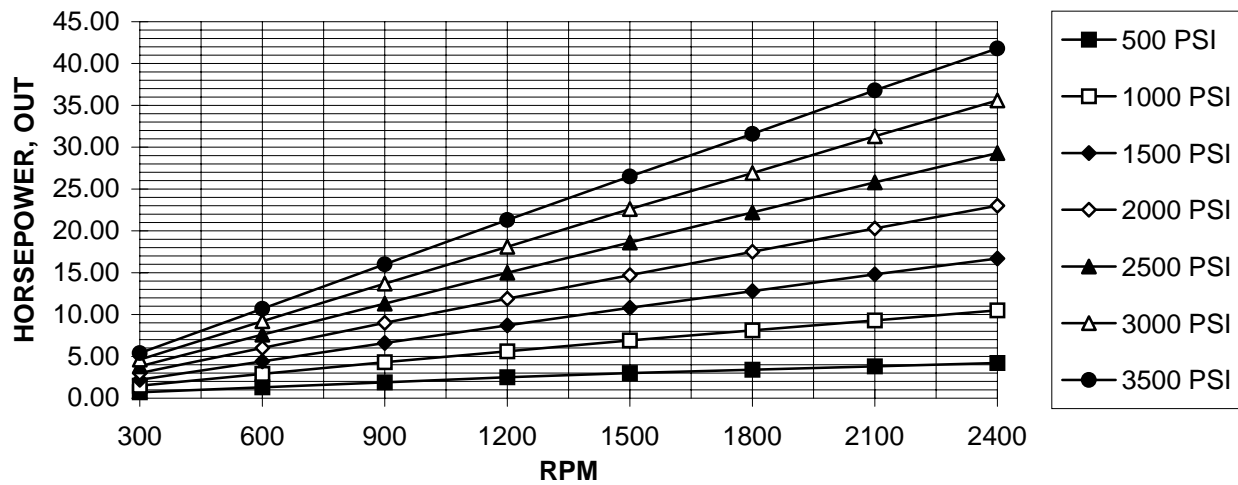
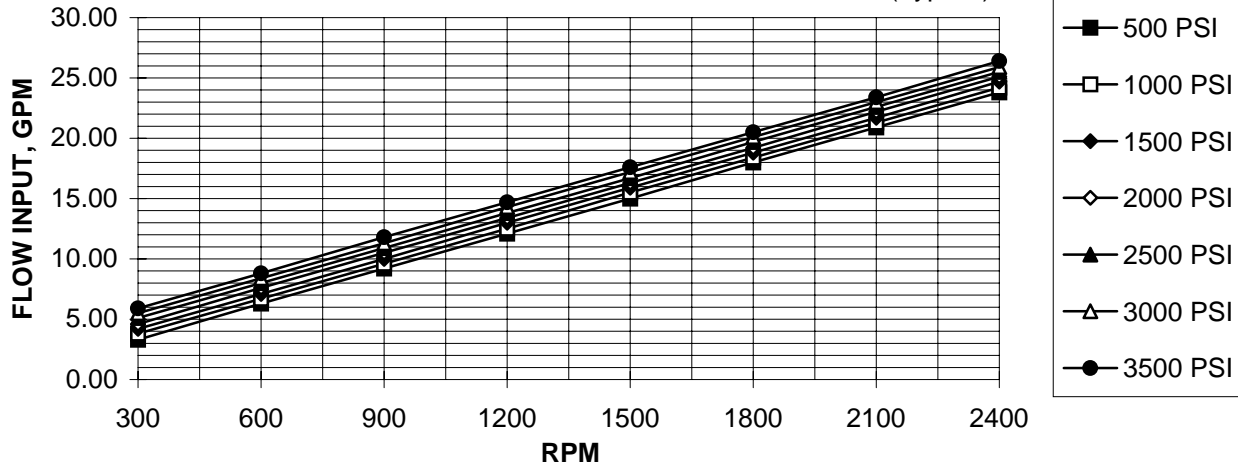
(Typical)



GEARTEK MC115 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

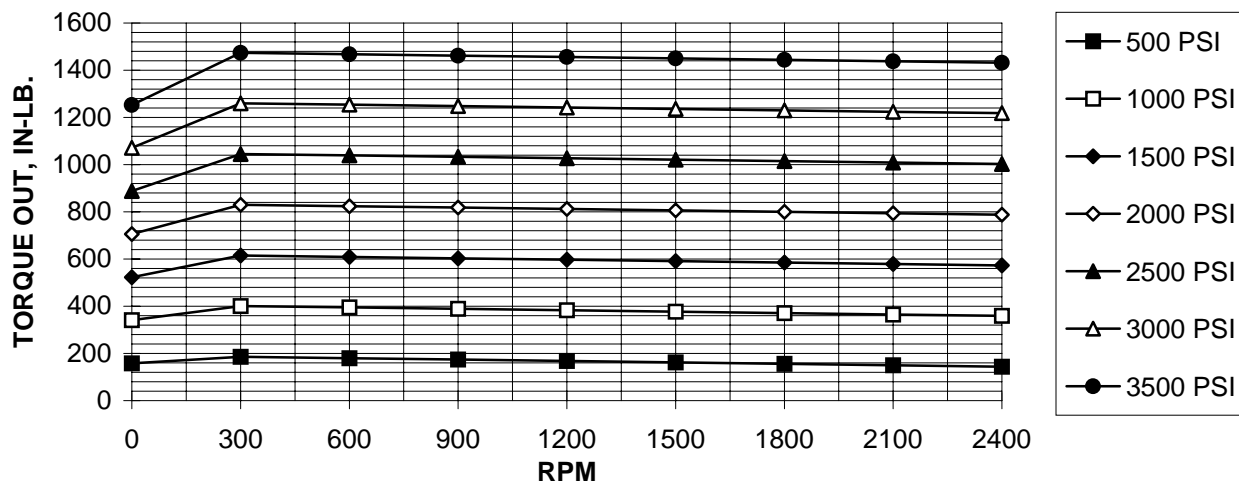
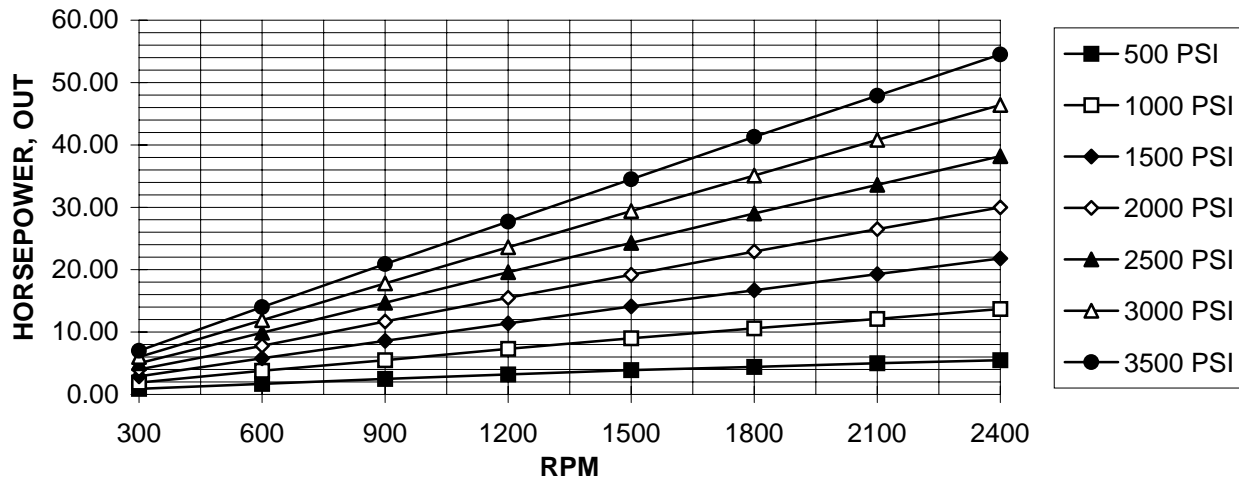
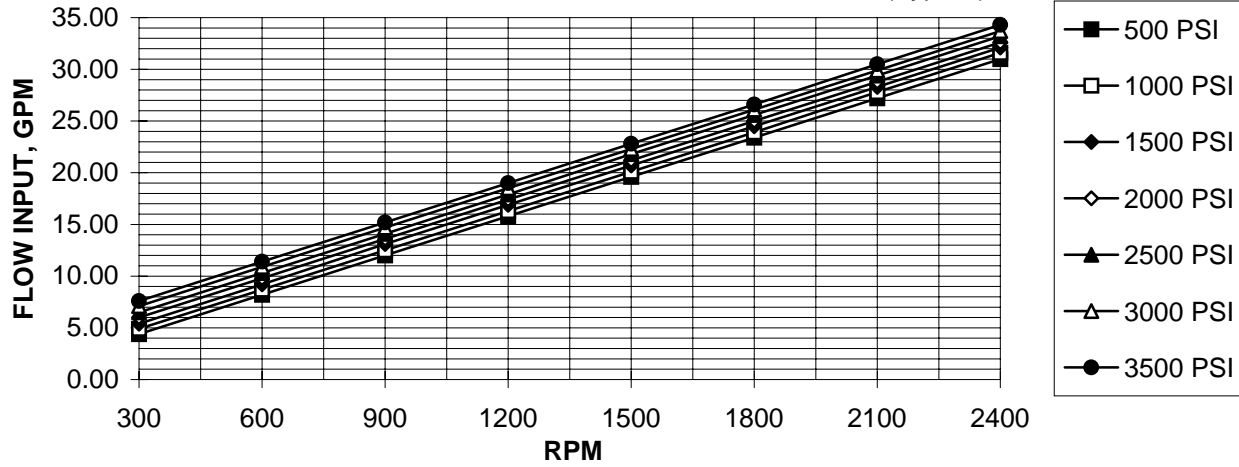
(Typical)



GEARTEK MC150 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

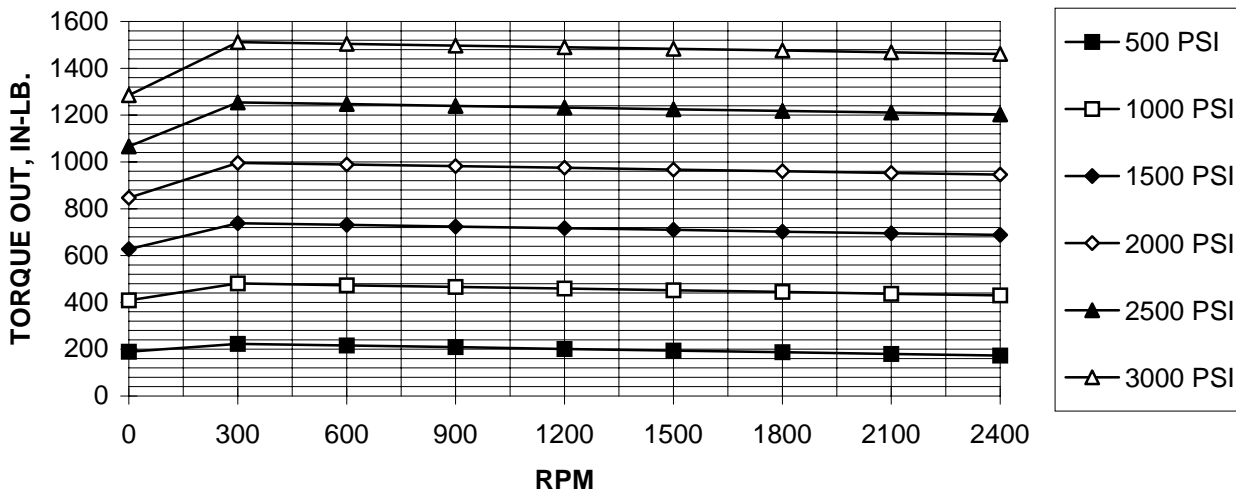
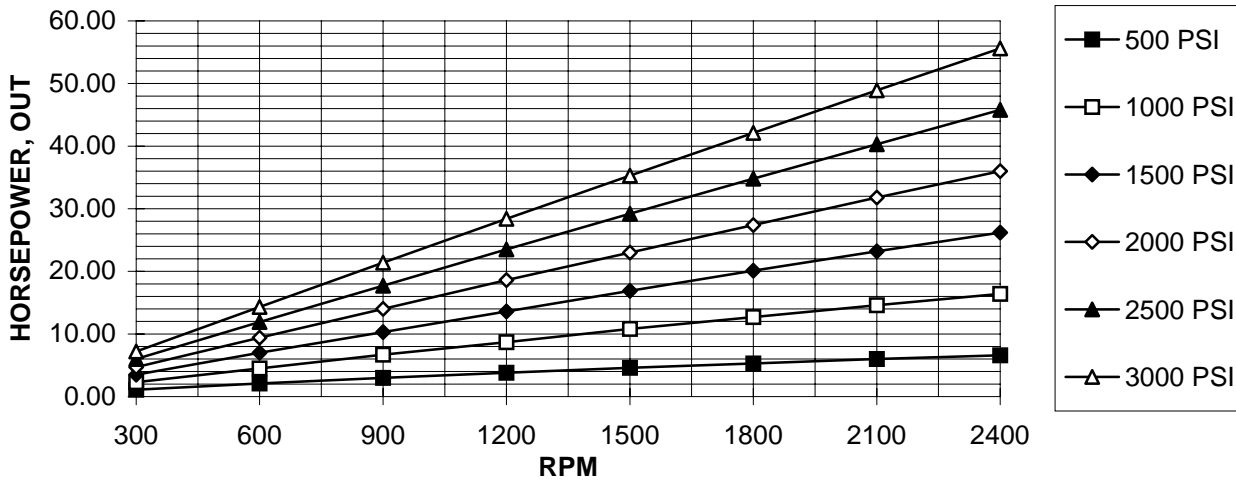
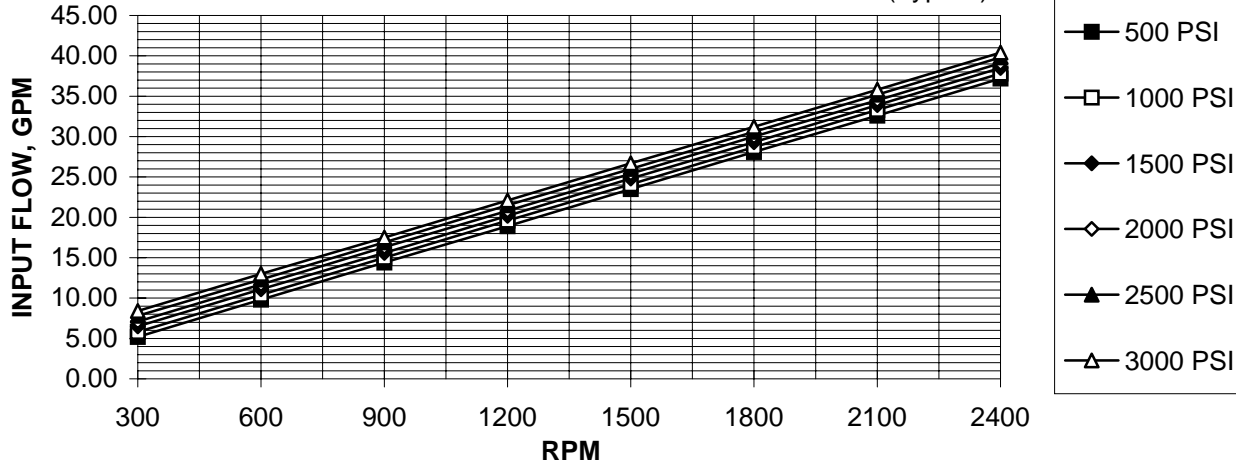
(Typical)



GEARTEK MC180 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

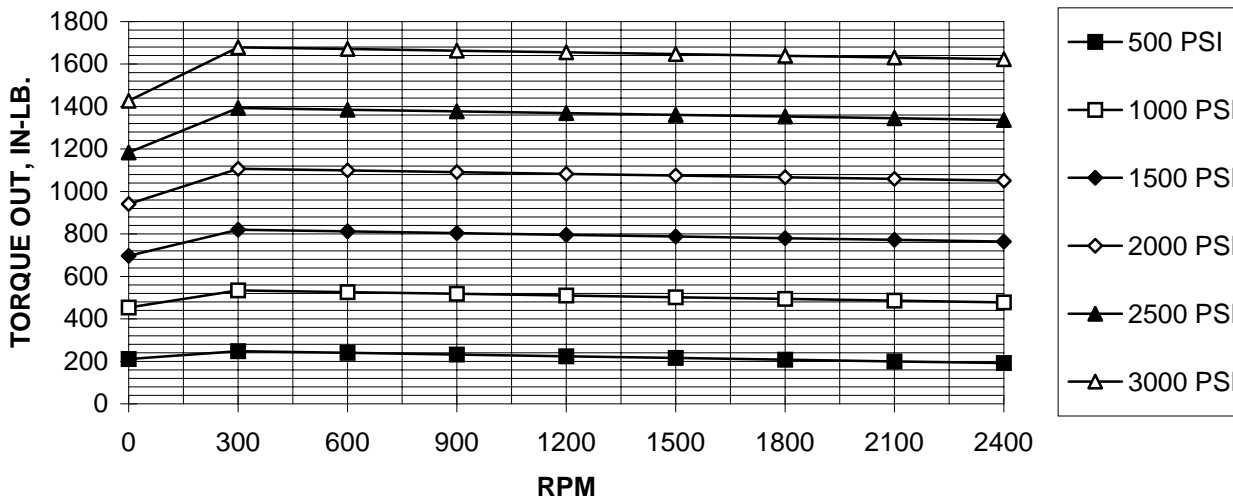
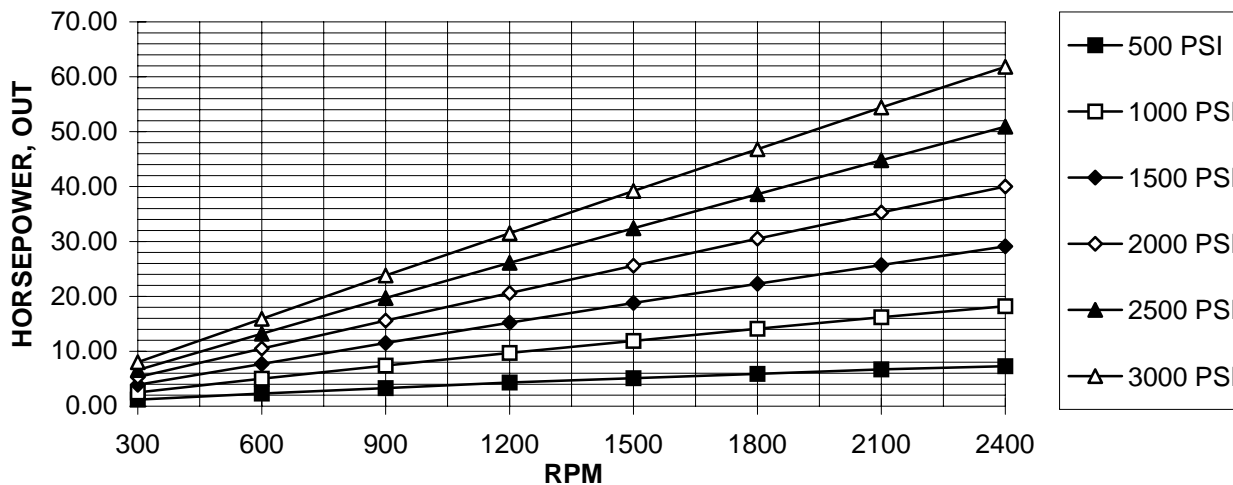
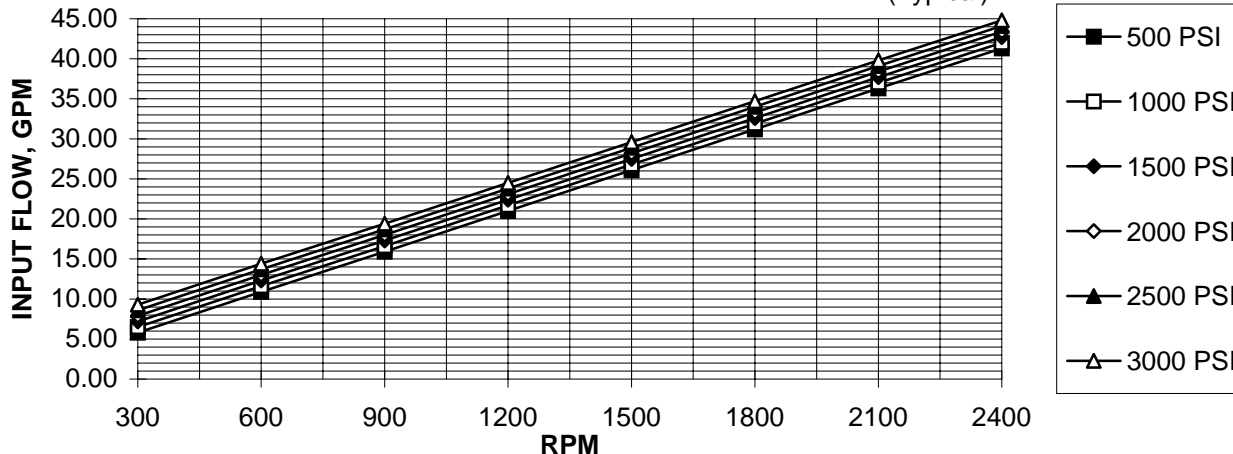
(Typical)



GEARTEK MC200 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

(Typical)



'RPMC' Series
SINGLE MOTOR
SINGLE REVERSIBLE PUMP



**Performance
Data**

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | | | IN-LB TORQUE @ 2400 RPM & 2500 PSI | | HP/OUT @ 2400 RPM & 2500 PSI | MAX. PRESSURE | |
|---------------|--|-----------------|----------------|------|------|--|------|---------------------------------------|------------------|-----|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | RPM | | START | RUN | | PSI | BAR |
| | | | | MIN. | MAX. | | | | | |
| RPMC45 | .0038 | 0.88 | 14.4 | 600 | 3600 | 241 | 301 | 11 | 3500 | 241 |
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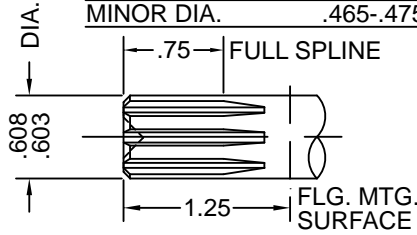
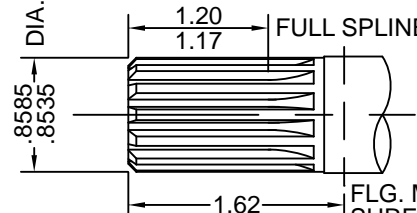
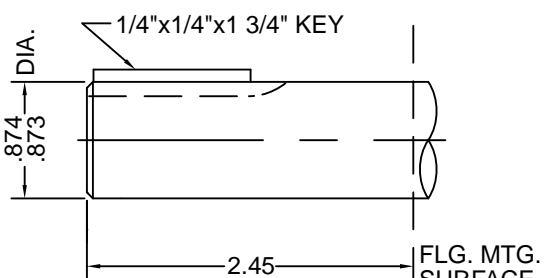
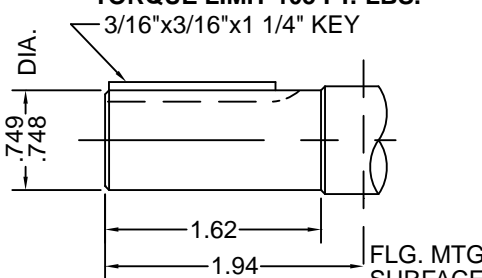
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- PRESSURES TO 3500 PSI
- FLOWS TO 37 GPM
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- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

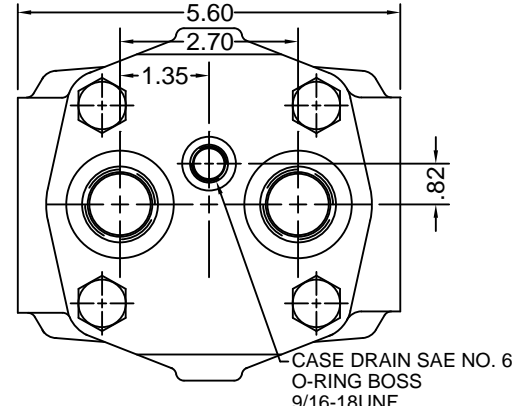
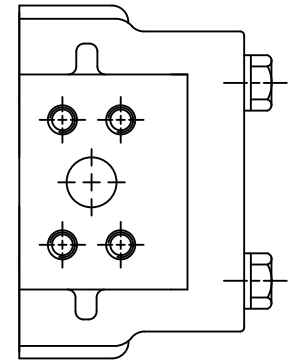
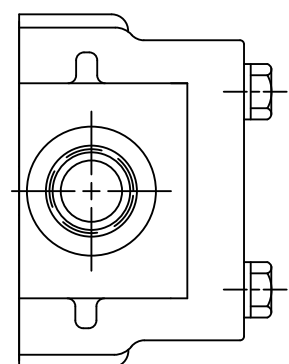
P. O. BOX 2160, 1506 FULTON DR.
CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

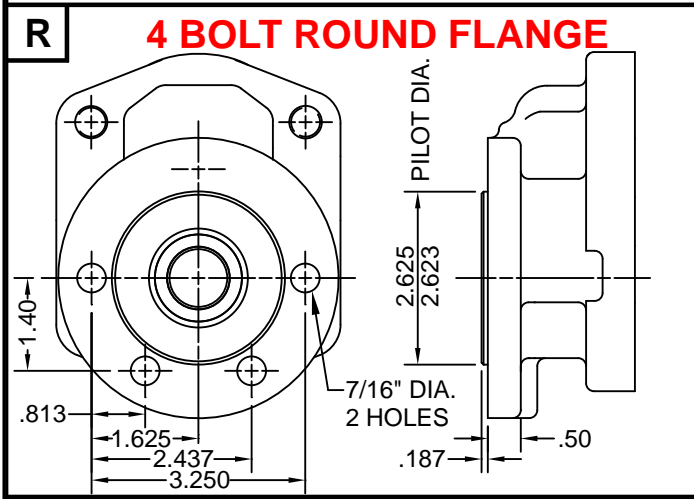
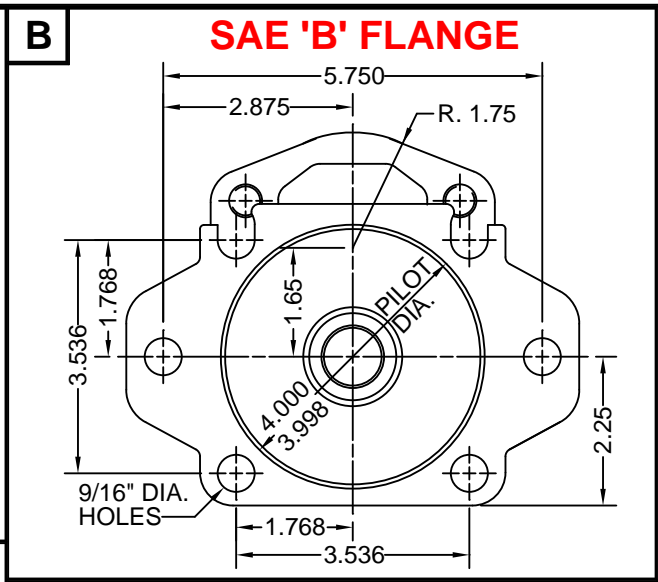
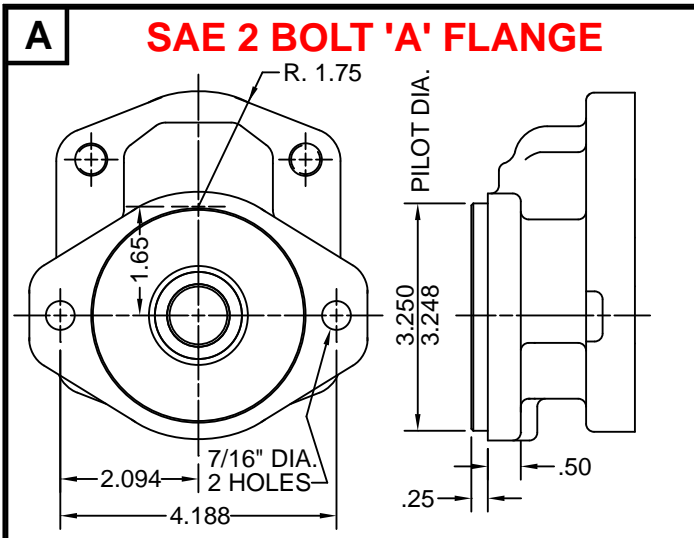
SHAFTS AVAILABLE

| | | | | | | | | | | | | | | | | | |
|--|---|-------|----------------|-----|--------------|---|------------|-----------|--|-----------------|-------|----------------|-----|--------------|----|------------|-----------|
| <p>1 5/8"-9 TOOTH SPLINE AVAILABLE ON 45 THRU 100 SIZES ONLY TORQUE LIMIT 52 FT.-LBS.</p> <p>FLAT ROOT SIDE FIT</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>16/32</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>9</td></tr> <tr><td>MINOR DIA.</td><td>.465-.475</td></tr> </table>  | DIAMETRAL PITCH | 16/32 | PRESSURE ANGLE | 30° | NO. OF TEETH | 9 | MINOR DIA. | .465-.475 | <p>2 7/8"-13 TOOTH SPLINE TORQUE LIMIT 184 FT.-LBS.</p> <p>FLAT ROOT SIDE FIT</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>16/32</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>13</td></tr> <tr><td>MINOR DIA.</td><td>.722-.733</td></tr> </table>  | DIAMETRAL PITCH | 16/32 | PRESSURE ANGLE | 30° | NO. OF TEETH | 13 | MINOR DIA. | .722-.733 |
| DIAMETRAL PITCH | 16/32 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 9 | | | | | | | | | | | | | | | | |
| MINOR DIA. | .465-.475 | | | | | | | | | | | | | | | | |
| DIAMETRAL PITCH | 16/32 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 13 | | | | | | | | | | | | | | | | |
| MINOR DIA. | .722-.733 | | | | | | | | | | | | | | | | |
| <p>5 7/8" STRAIGHT TORQUE LIMIT 184 FT.-LBS.</p>  | <p>6 3/4" STRAIGHT AVAILABLE ON 45 THRU 115 SIZES ONLY TORQUE LIMIT 105 FT.-LBS.</p>  | | | | | | | | | | | | | | | | |

PORTS AVAILABLE

| <p>1 REAR PORTED SAE STRAIGHT THREAD</p>  | <p>3 SAE 4-BOLT CONNECTOR</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---|--|--------|-----------------------|------|--------|-----------------------|----|--------|-----------------------|----|---------|-----------------------|----|---------|----------------------|--------|---------|----------------------|--------|---------|----------------------|--------|---------|----------------------|--------|
| <p>5 SIDE PORTED SAE STRAIGHT THREAD</p>  | <p>PORT SIZES</p> <table border="1"> <thead> <tr> <th>SIZE</th> <th>FOR CODE 1 & 5 PORTS BOTH SIDES SAE STRAIGHT THREAD O-RING BOSS</th> <th>FOR CODE 3 PORTS BOTH SIDES SAE 4-BOLT CODE 61</th> </tr> </thead> <tbody> <tr><td>RPMC45</td><td>NO. 12 1 1/16-12UN-2B</td><td>3/4"</td></tr> <tr><td>RPMC65</td><td>NO. 16 1 5/16-12UN-2B</td><td>1"</td></tr> <tr><td>RPMC85</td><td>NO. 16 1 5/16-12UN-2B</td><td>1"</td></tr> <tr><td>RPMC100</td><td>NO. 16 1 5/16-12UN-2B</td><td>1"</td></tr> <tr><td>RPMC115</td><td>NO. 20 1 5/8-12UN-2B</td><td>1 1/4"</td></tr> <tr><td>RPMC150</td><td>NO. 20 1 5/8-12UN-2B</td><td>1 1/4"</td></tr> <tr><td>RPMC180</td><td>NO. 20 1 5/8-12UN-2B</td><td>1 1/4"</td></tr> <tr><td>RPMC200</td><td>NO. 20 1 5/8-12UN-2B</td><td>1 1/4"</td></tr> </tbody> </table> | SIZE | FOR CODE 1 & 5 PORTS BOTH SIDES SAE STRAIGHT THREAD O-RING BOSS | FOR CODE 3 PORTS BOTH SIDES SAE 4-BOLT CODE 61 | RPMC45 | NO. 12 1 1/16-12UN-2B | 3/4" | RPMC65 | NO. 16 1 5/16-12UN-2B | 1" | RPMC85 | NO. 16 1 5/16-12UN-2B | 1" | RPMC100 | NO. 16 1 5/16-12UN-2B | 1" | RPMC115 | NO. 20 1 5/8-12UN-2B | 1 1/4" | RPMC150 | NO. 20 1 5/8-12UN-2B | 1 1/4" | RPMC180 | NO. 20 1 5/8-12UN-2B | 1 1/4" | RPMC200 | NO. 20 1 5/8-12UN-2B | 1 1/4" |
| SIZE | FOR CODE 1 & 5 PORTS BOTH SIDES SAE STRAIGHT THREAD O-RING BOSS | FOR CODE 3 PORTS BOTH SIDES SAE 4-BOLT CODE 61 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPMC45 | NO. 12 1 1/16-12UN-2B | 3/4" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPMC65 | NO. 16 1 5/16-12UN-2B | 1" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPMC85 | NO. 16 1 5/16-12UN-2B | 1" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPMC100 | NO. 16 1 5/16-12UN-2B | 1" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPMC115 | NO. 20 1 5/8-12UN-2B | 1 1/4" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPMC150 | NO. 20 1 5/8-12UN-2B | 1 1/4" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPMC180 | NO. 20 1 5/8-12UN-2B | 1 1/4" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RPMC200 | NO. 20 1 5/8-12UN-2B | 1 1/4" | | | | | | | | | | | | | | | | | | | | | | | | | | |

FLANGES AVAILABLE

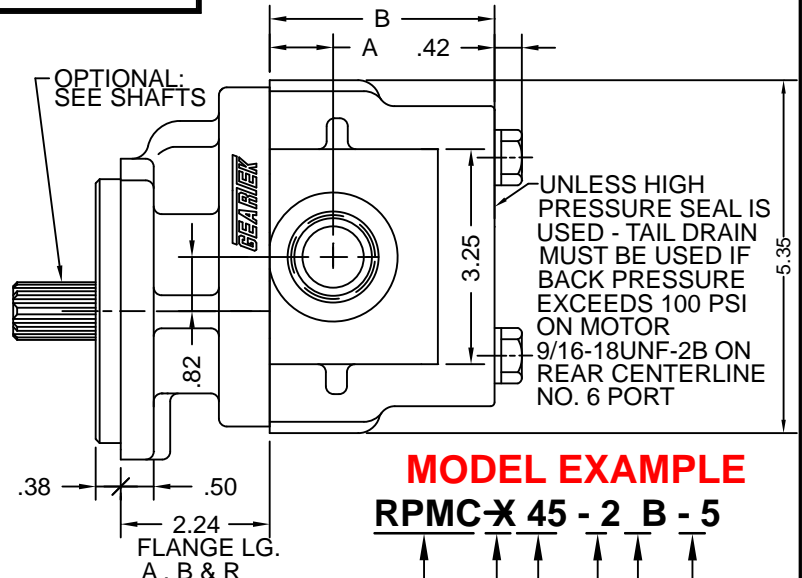
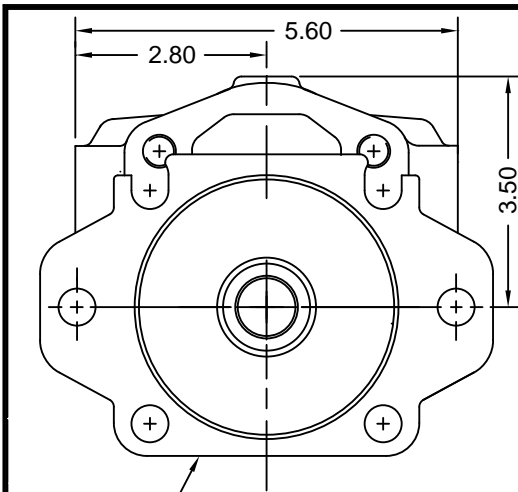


MOUNTING DIMENSIONS

| SIZE | A | B |
|---------|------|------|
| RPMC45 | 1.06 | 2.98 |
| RPMC65 | 1.06 | 3.20 |
| RPMC85 | 1.06 | 3.41 |
| RPMC100 | 1.06 | 3.57 |
| RPMC115 | 1.25 | 3.73 |
| RPMC150 | 1.25 | 4.10 |
| RPMC180 | 1.25 | 4.42 |
| RPMC200 | 1.25 | 4.64 |

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

DIMENSIONAL DATA



MODEL EXAMPLE

RPMC-X 45 - 2 B - 5

SERIES
OPTIONAL: SPECIFY CODE 'H' THIS AREA FOR HIGH PRESSURE SEAL OTHERWISE: LEAVE BLANK
PORTS
FLANGE
SHAFT
SIZE

OPTIONAL: SEE FLANGES

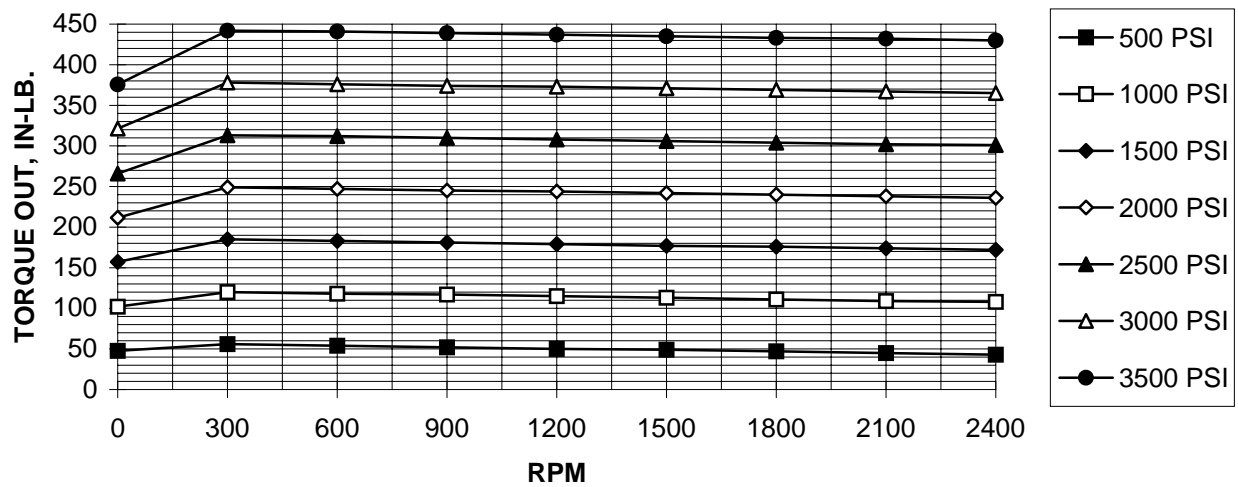
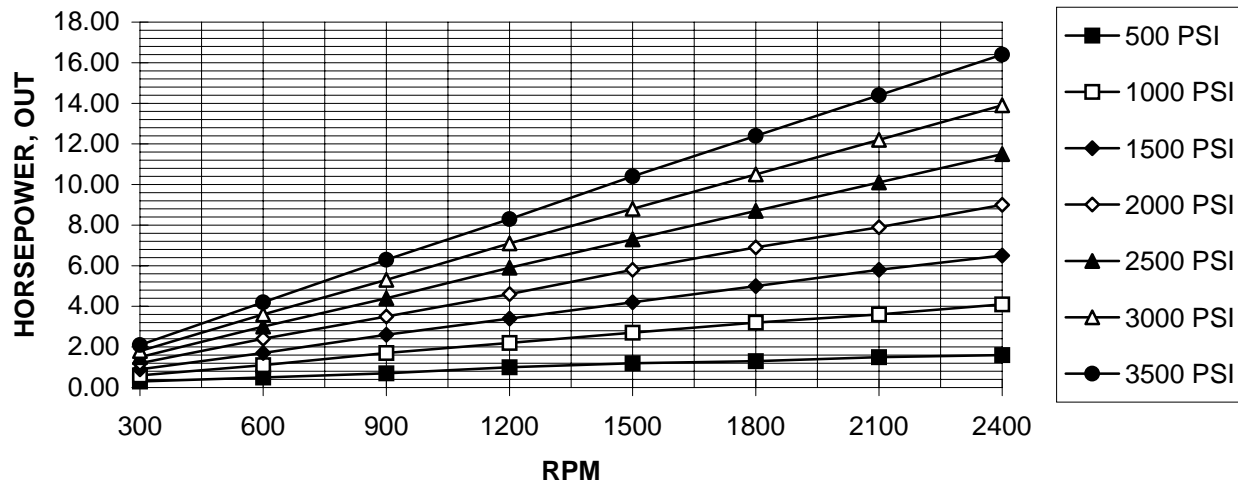
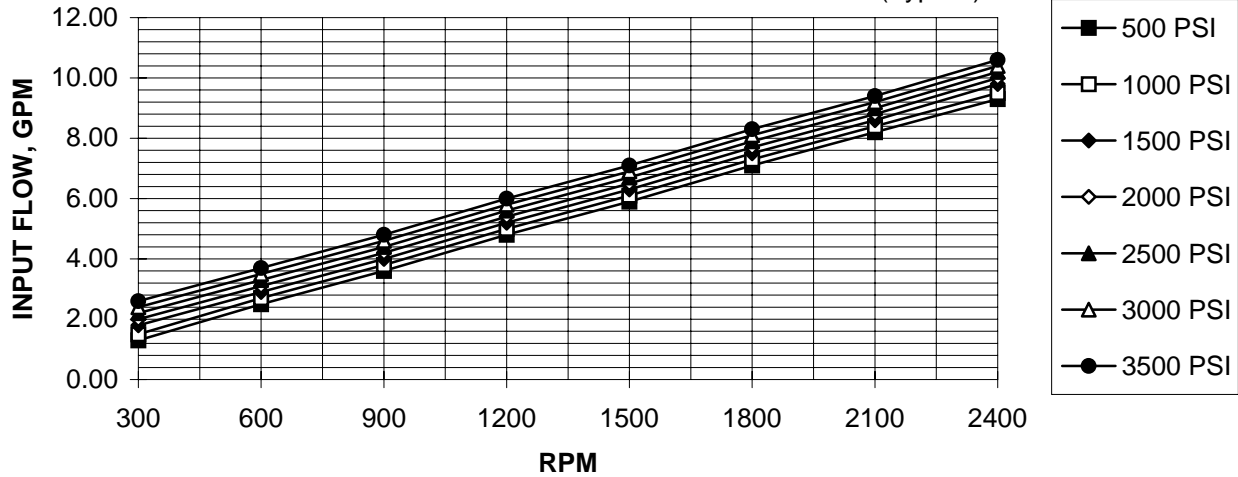
OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

* THE OPTIONAL HIGH PRESSURE SEAL MAY BE USED WHEN DRAIN LINES ARE NOT PRACTICAL.
FOR SYSTEMS TOLERATING A DRAIN LINE, ELIMINATE THE 'H' FROM THE MODEL CODE.

GEARTEK MC45 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

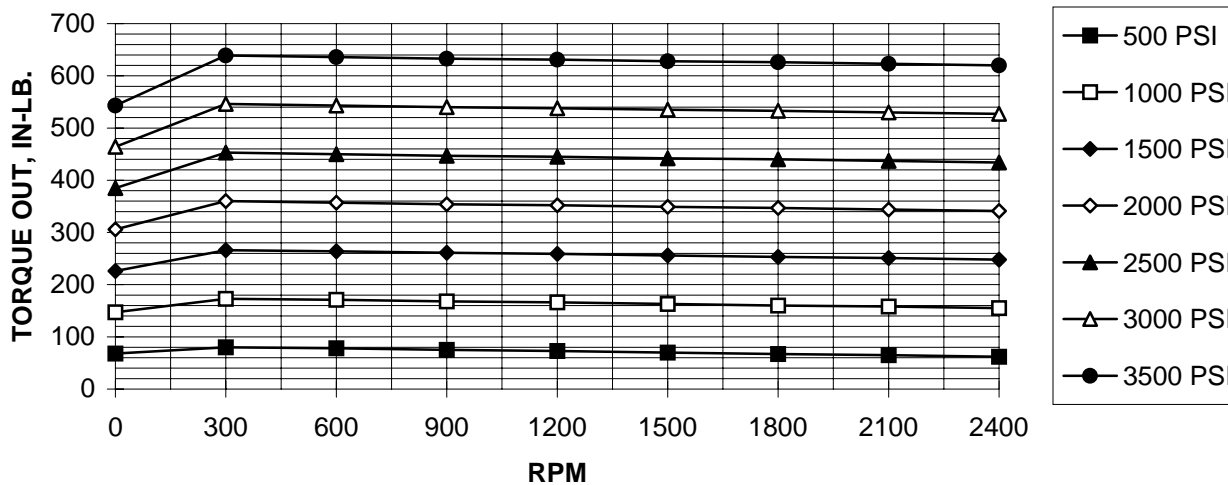
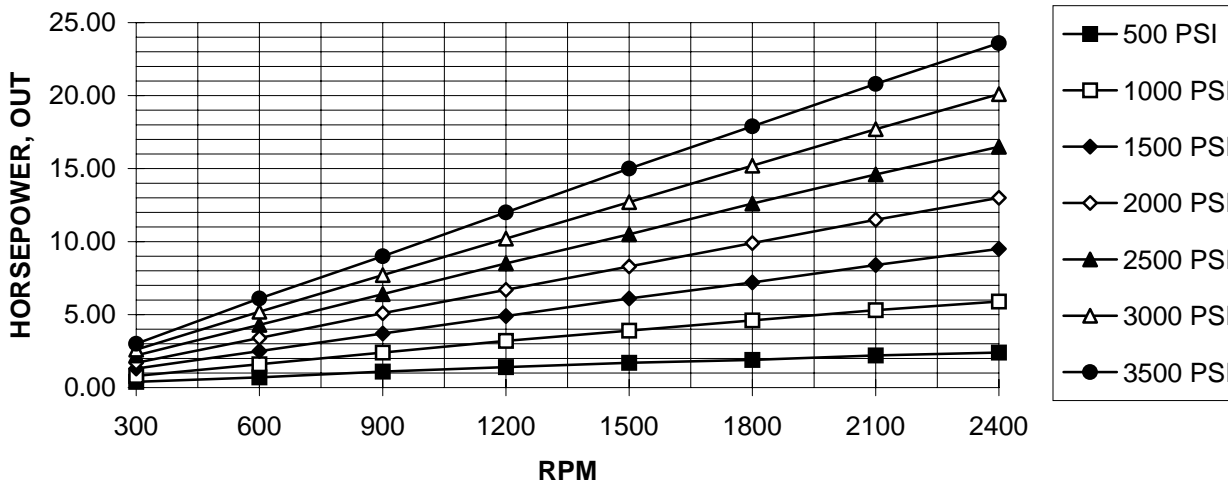
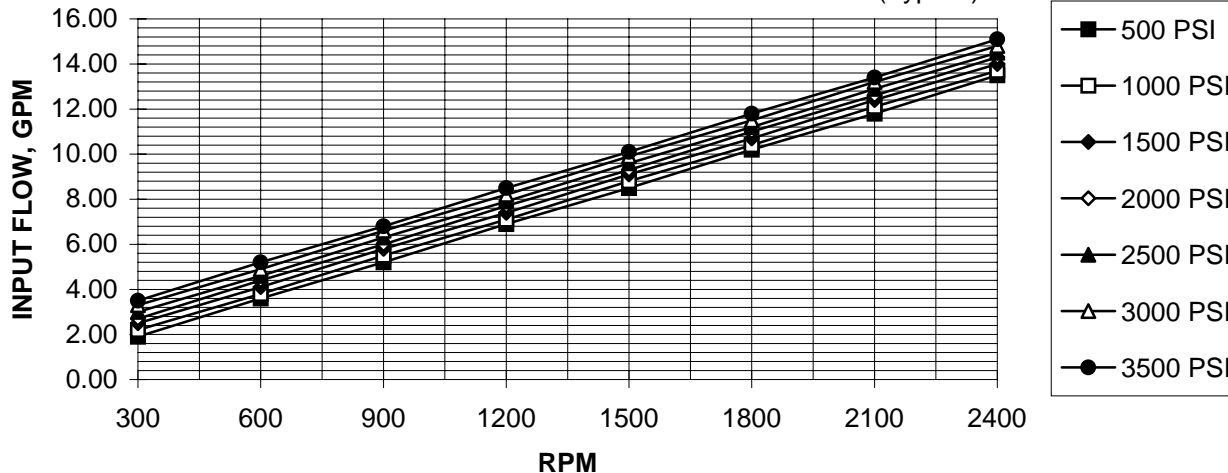
(Typical)



GEARTEK MC65 MOTOR PERFORMANCE

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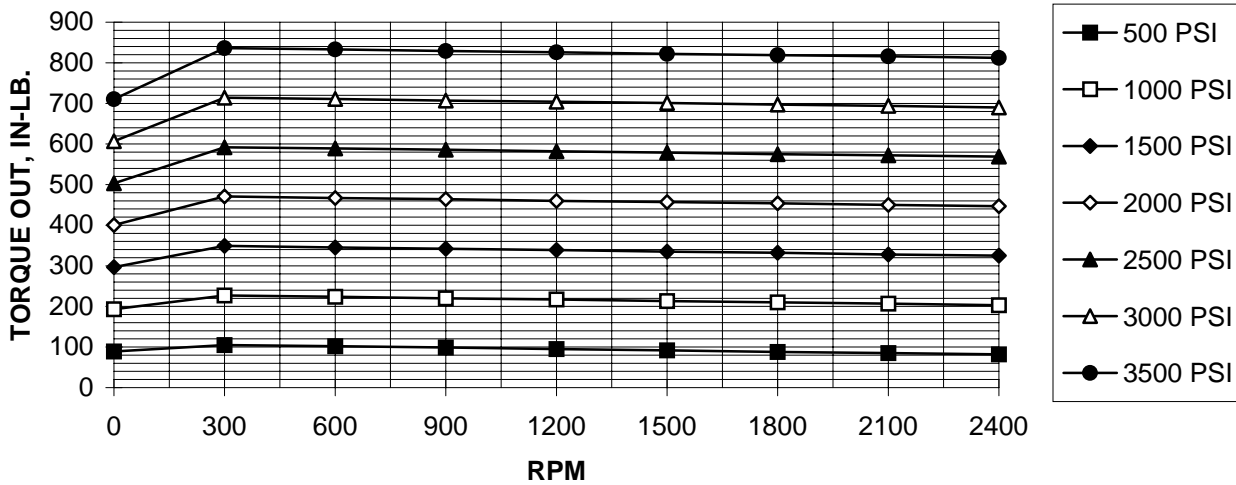
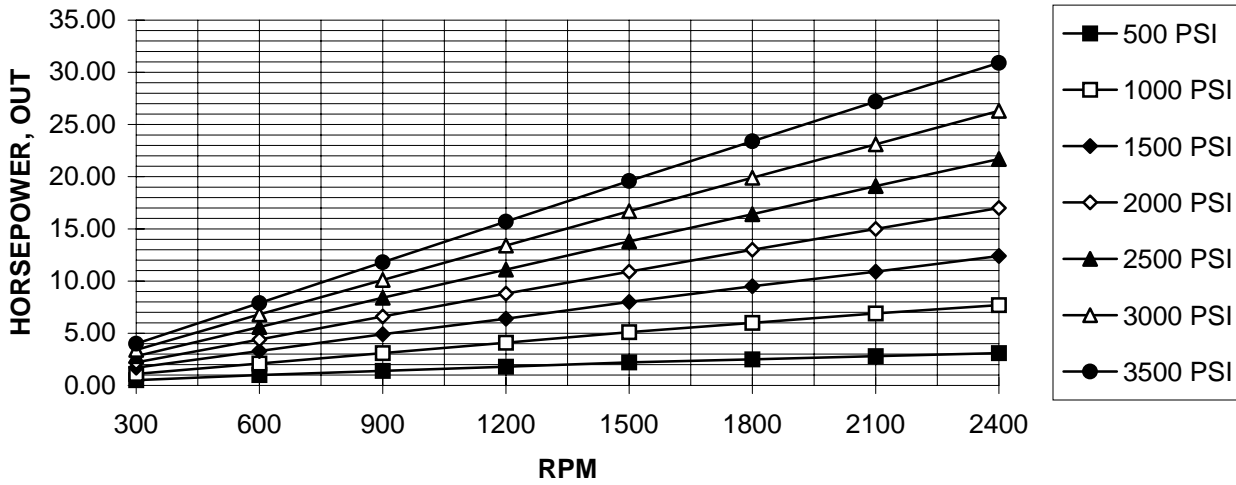
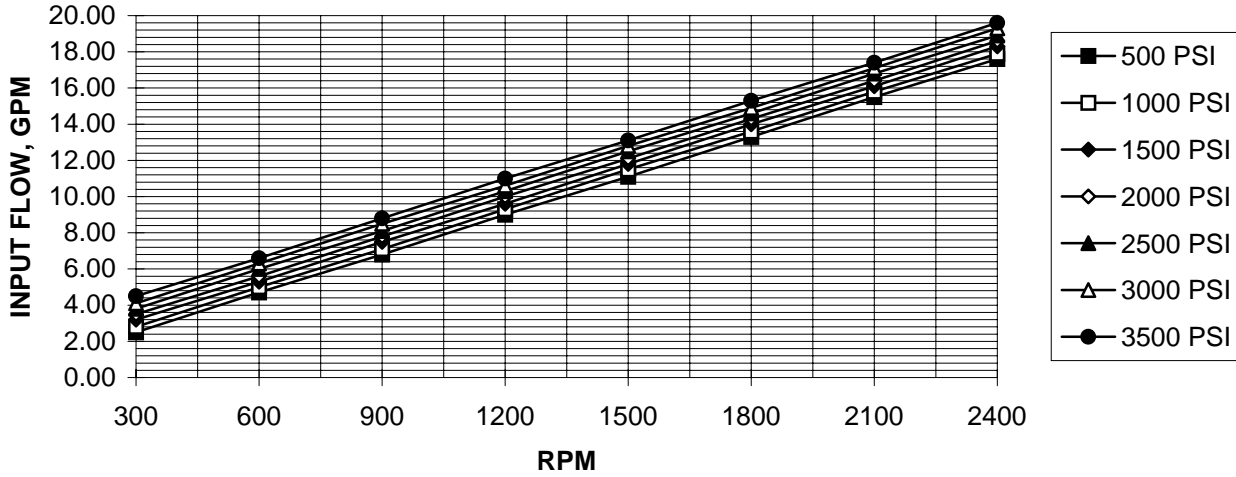
(Typical)



GEARTEK MC85 MOTOR PERFORMANCE

SAE 10W oil @ 150degrees F

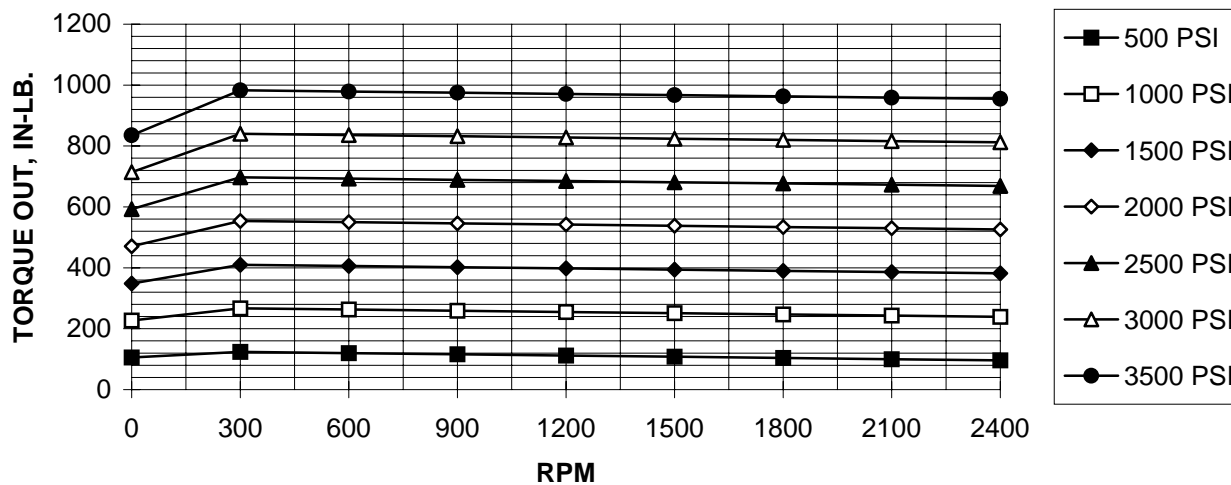
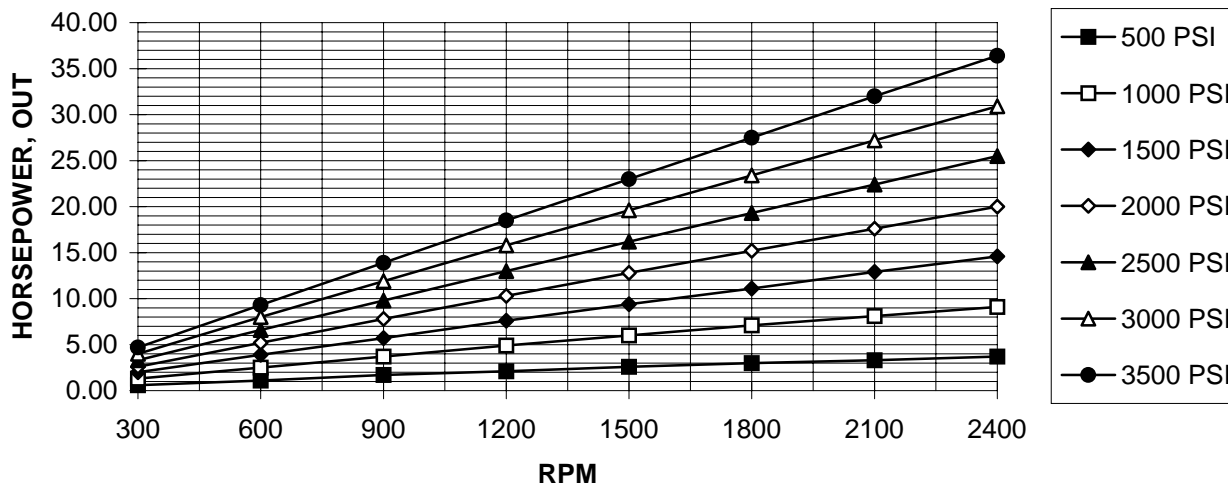
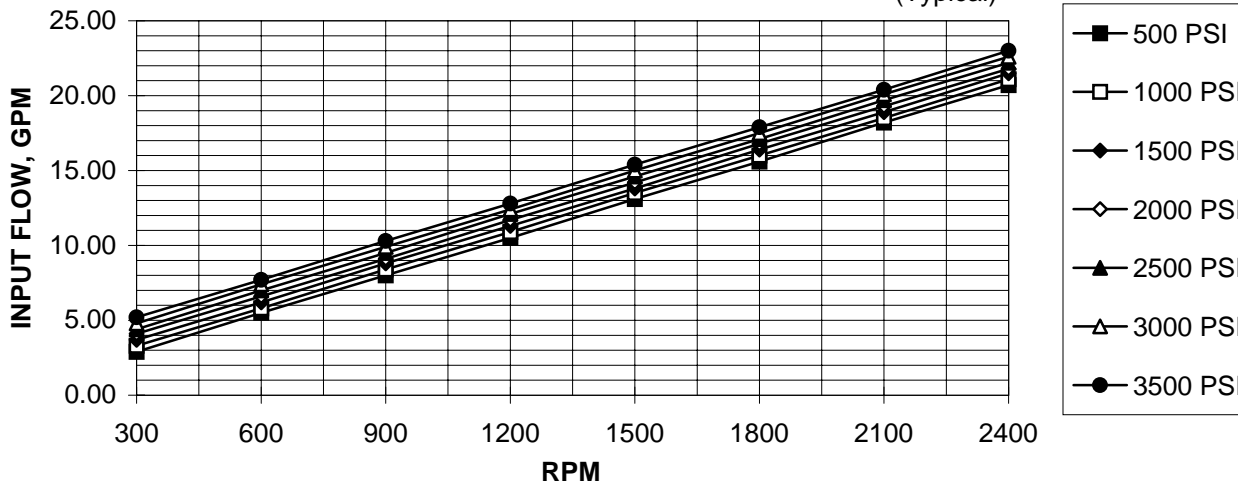
(Typical)



GEARTEK MC100 MOTOR PERFORMANCE

SAE 10W oil @ 150degrees F

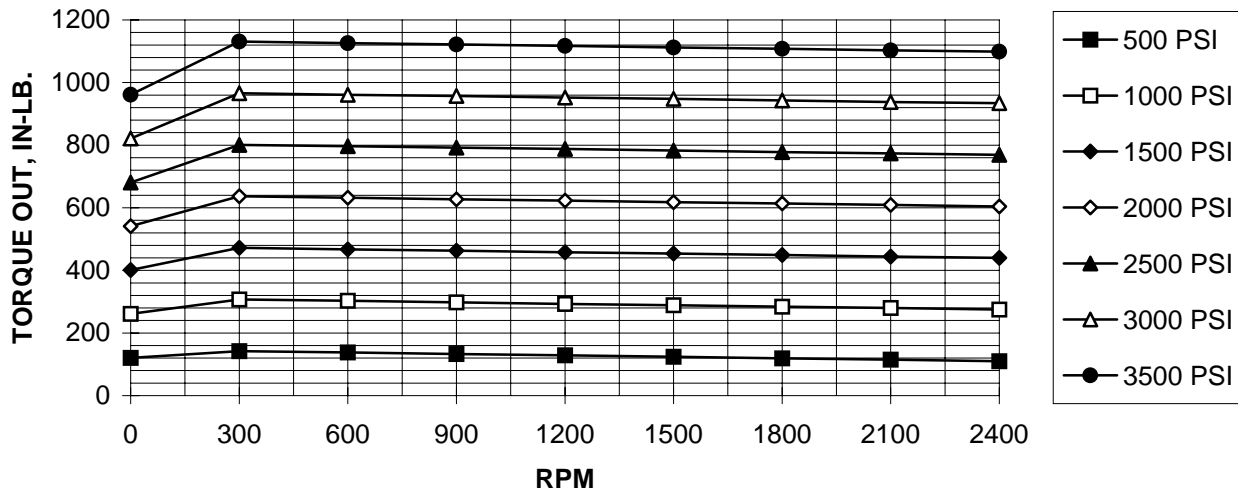
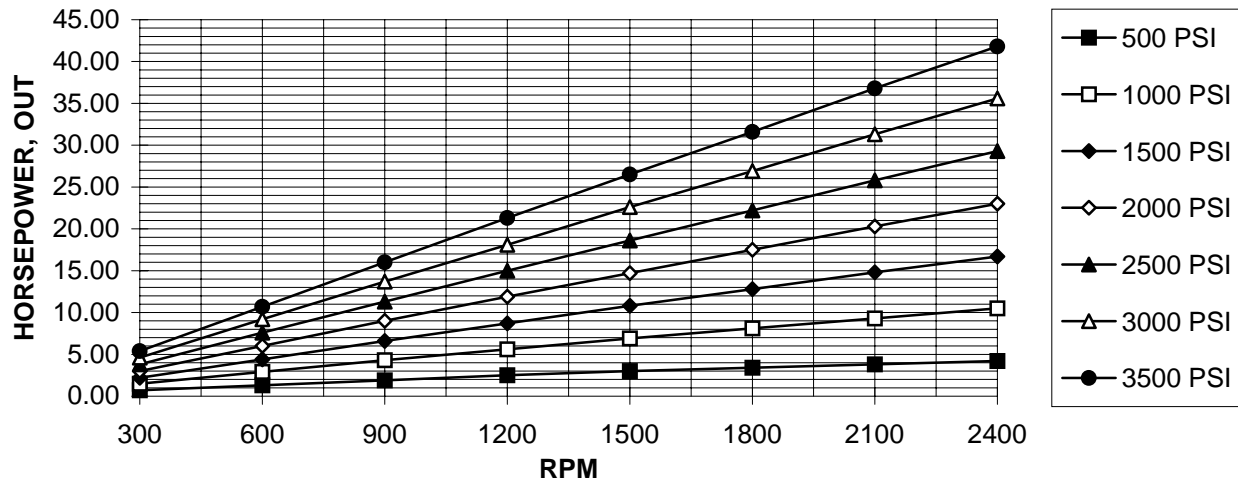
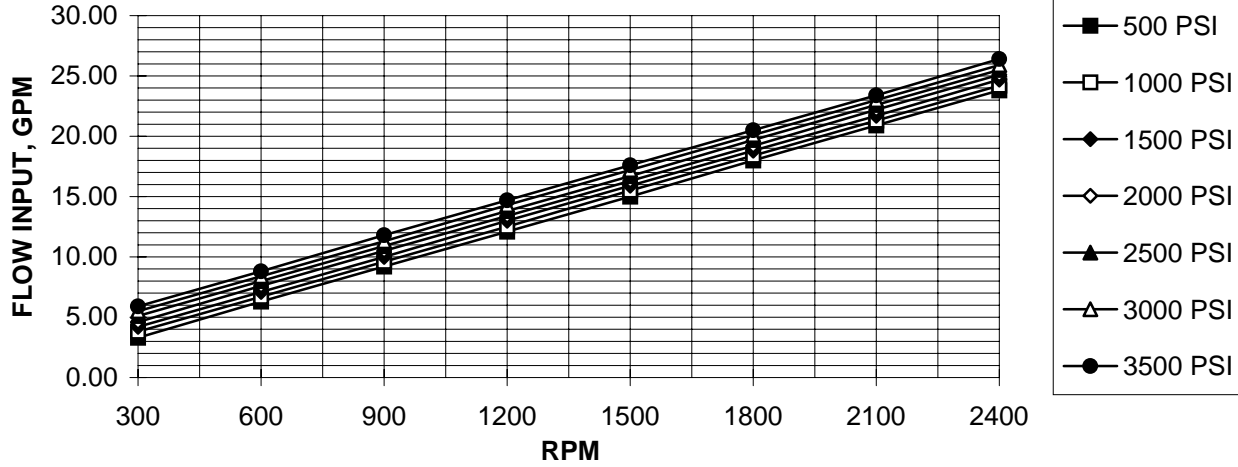
(Typical)



GEARTEK MC115 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

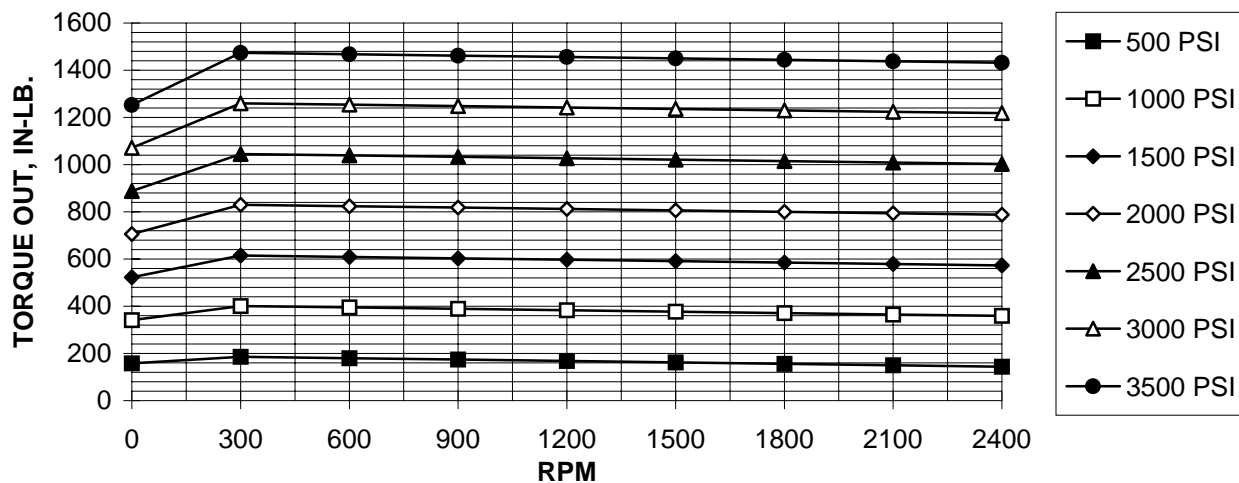
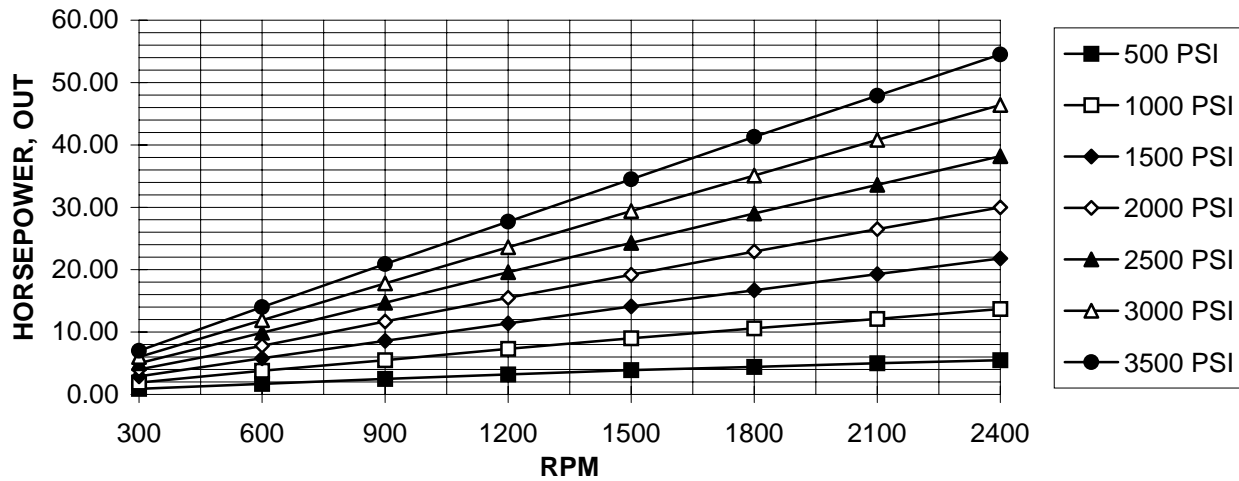
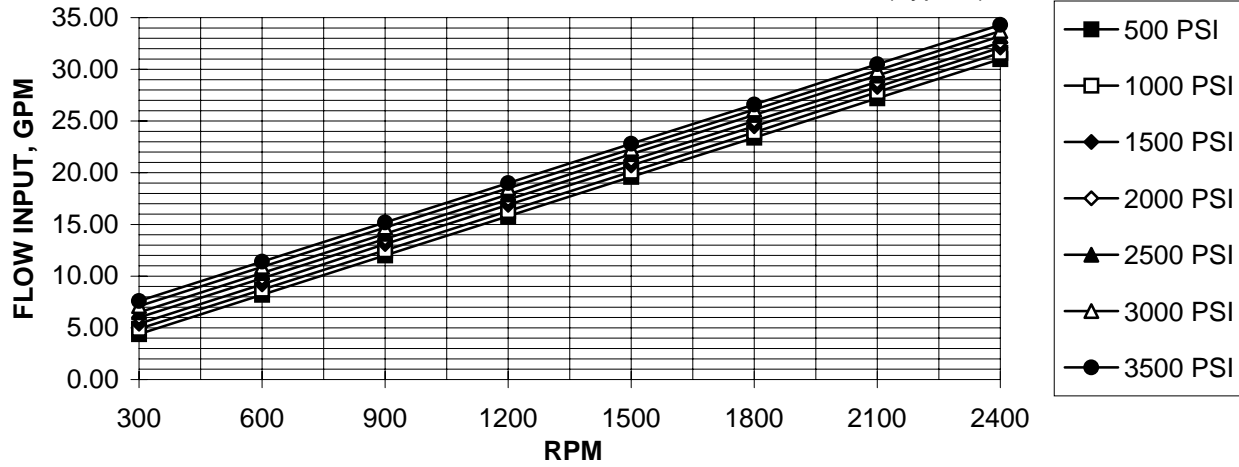
(Typical)



GEARTEK MC150 MOTOR PERFORMANCE

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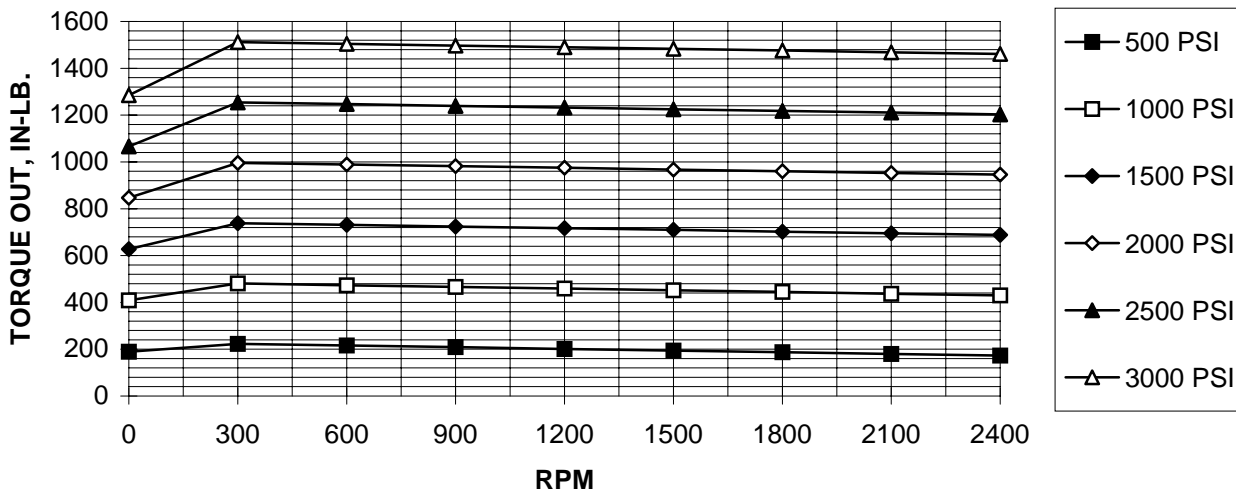
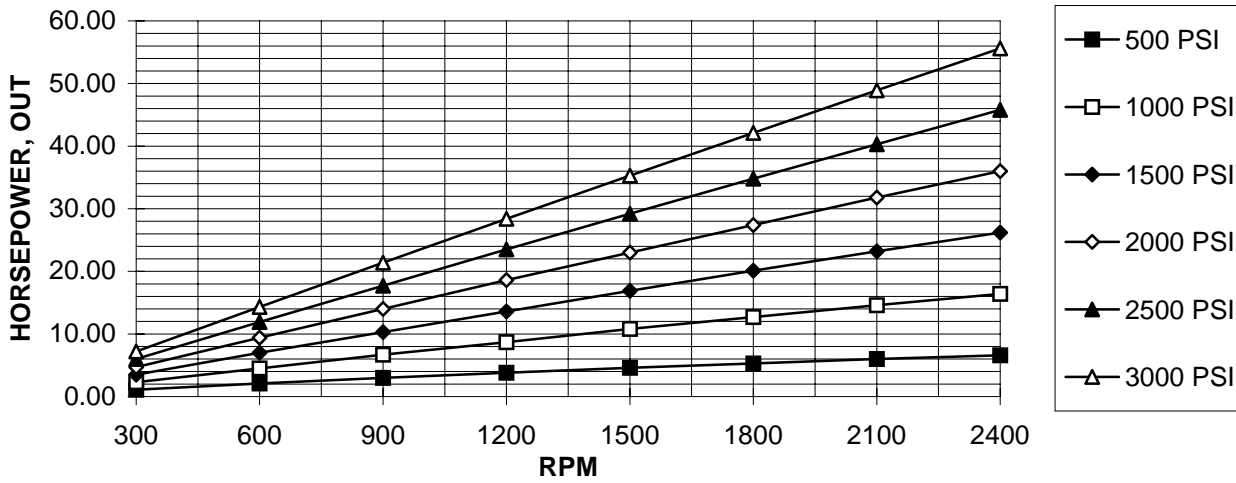
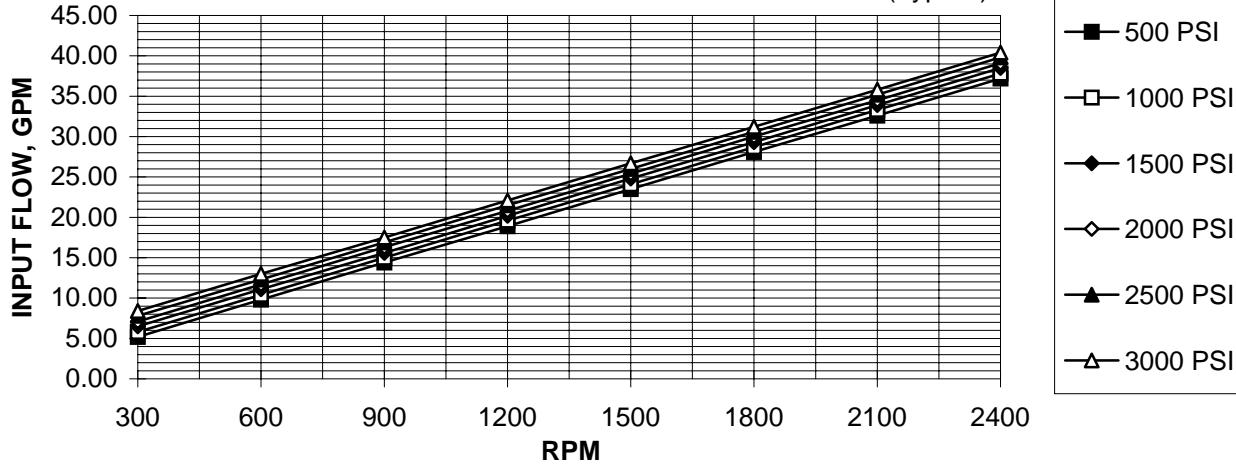
(Typical)



GEARTEK MC180 MOTOR PERFORMANCE

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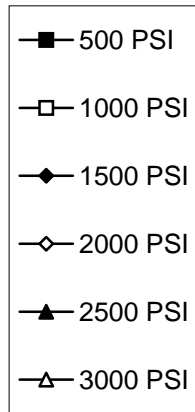
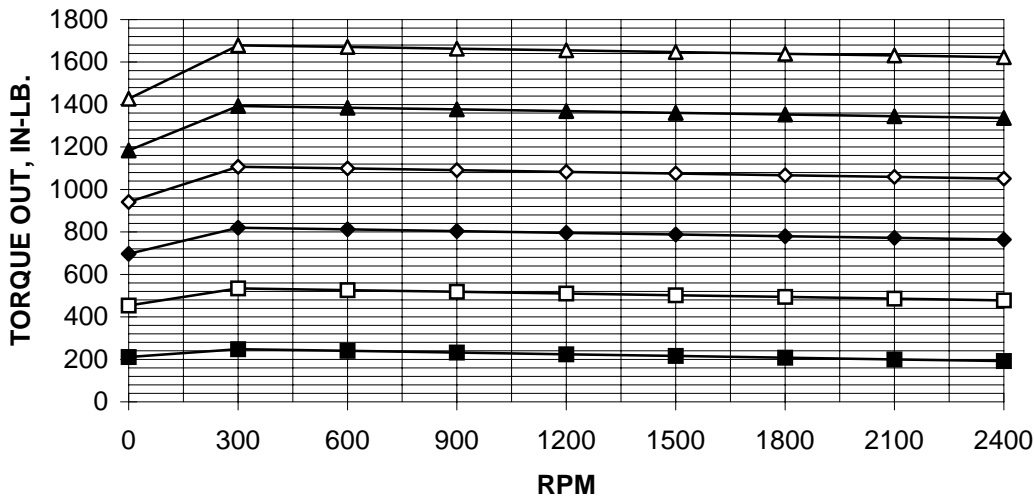
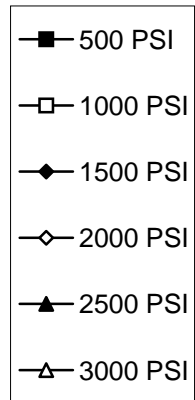
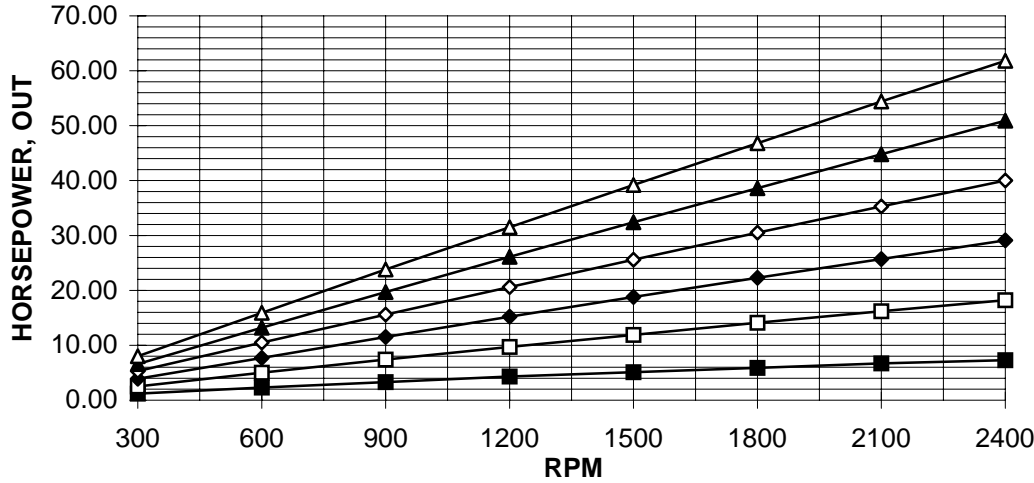
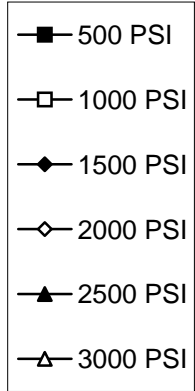
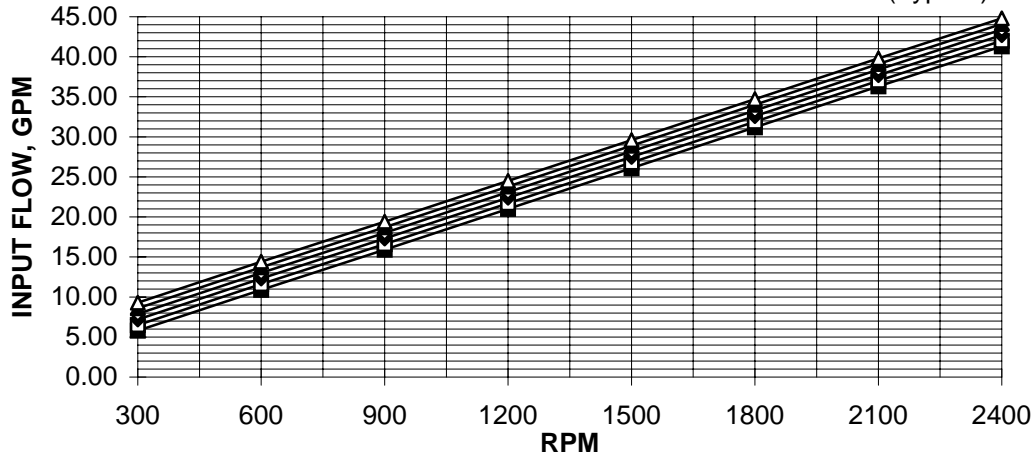
(Typical)



GEARTEK MC200 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

(Typical)

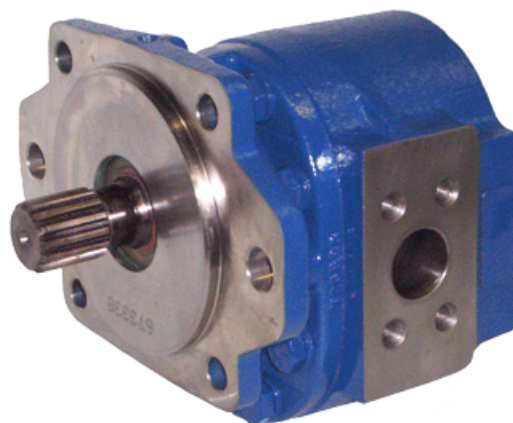




HYDRAULIC GEAR PUMPS AND MOTORS

'D' Series

SINGLE PUMP



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | PRESSURE RATINGS | | | | MAXIMUM SPEED (RPM) |
|------------|---------------------------------------|--------------|-------------|------------------|-----|-------------|-----|---------------------|
| | | | | NORMAL DUTY | | SEVERE DUTY | | |
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | PSI | BAR | PSI | BAR | |
| D15 | .0129 | 2.98 | 48.8 | 4000 | 276 | 3800 | 262 | 2500 |
| D20 | .0172 | 3.97 | 65.1 | 3800 | 262 | 3000 | 207 | 2500 |
| D25 | .0215 | 4.97 | 81.4 | 3000 | 207 | 2300 | 159 | 2500 |
| D30 | .0258 | 5.96 | 97.6 | 2500 | 172 | 2000 | 138 | 2500 |
| D35 | .0301 | 6.95 | 113.9 | 2500* | 172 | 2000* | 138 | 2500 |
| D40 | .0344 | 7.95 | 130.2 | 2500* | 172 | 2000* | 138 | 2500 |
| D45 | .0387 | 8.94 | 146.5 | 2500* | 172 | 2000* | 138 | 2500 |

* CONSULT FACTORY WITH TYPE APPLICATION PRESSURES MAY BE LIMITED TO SHAFT TYPE

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 97 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

P. O. BOX 2160, 1506 FULTON DR.
CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

| | | | | | | | | | |
|---|---|-----------------|----------------|----------------|--------------|--------------|------------|-------------|--|
| <p>1</p> <p>1 1/4"-14 TOOTH SPLINE</p> <p>TORQUE LIMIT 650 FT./LBS.</p> <p>SPLINE DATA</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>12/24</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>14</td></tr> <tr><td>MINOR DIA.</td><td>1.062-1.050</td></tr> </table> | DIAMETRAL PITCH | 12/24 | PRESSURE ANGLE | 30° | NO. OF TEETH | 14 | MINOR DIA. | 1.062-1.050 | <p>2</p> <p>1" STRAIGHT</p> <p>AVAILABLE ON 15 THRU 35 SIZES TORQUE LIMIT 341 FT./LBS.</p> |
| DIAMETRAL PITCH | 12/24 | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | |
| NO. OF TEETH | 14 | | | | | | | | |
| MINOR DIA. | 1.062-1.050 | | | | | | | | |
| <p>3</p> <p>1 1/4" STRAIGHT</p> <p>TORQUE LIMIT 650 FT./LBS.</p> | <p>4</p> <p>7/8"-13 TOOTH SPLINE</p> <p>AVAILABLE ON 15 THRU 35 SIZES TORQUE LIMIT 184 FT./LBS.</p> <p>SPLINE DATA</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>16/32</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>13</td></tr> <tr><td>MINOR DIA.</td><td>.733-.722</td></tr> </table> | DIAMETRAL PITCH | 16/32 | PRESSURE ANGLE | 30° | NO. OF TEETH | 13 | MINOR DIA. | .733-.722 |
| DIAMETRAL PITCH | 16/32 | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | |
| NO. OF TEETH | 13 | | | | | | | | |
| MINOR DIA. | .733-.722 | | | | | | | | |

STANDARD SAE 4-BOLT CONNECTOR PORTS

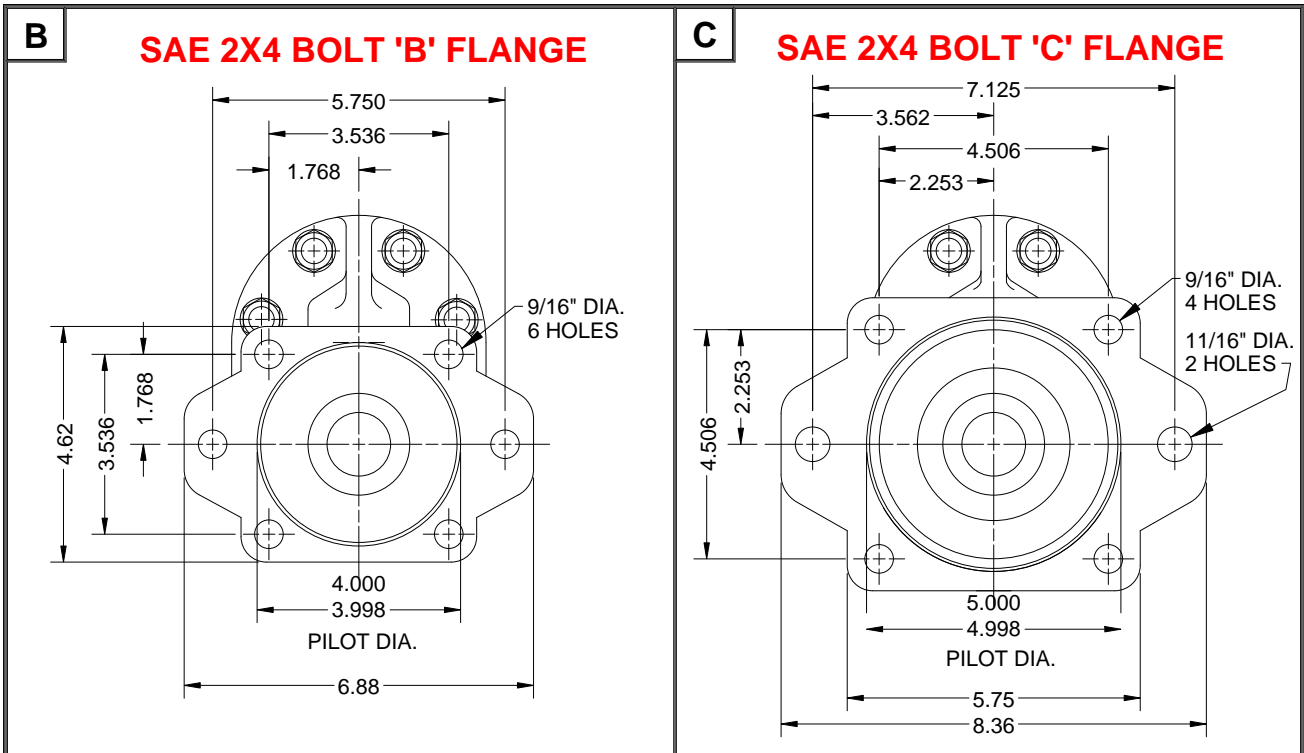
SAE 4-BOLT CONN. PORTS

| SIZE | INLET SIZE | OUTLET SIZE |
|------|------------|-------------|
| D15 | 1 1/4" | 1" |
| D20 | 1 1/4" | 1" |
| D25 | 1 1/2" | 1 1/4" |
| D30 | 1 1/2" | 1 1/4" |
| D35 | 1 1/2" | 1 1/4" |
| D40 | 2" | 1 1/4" |
| D45 | 2" | 1 1/4" |

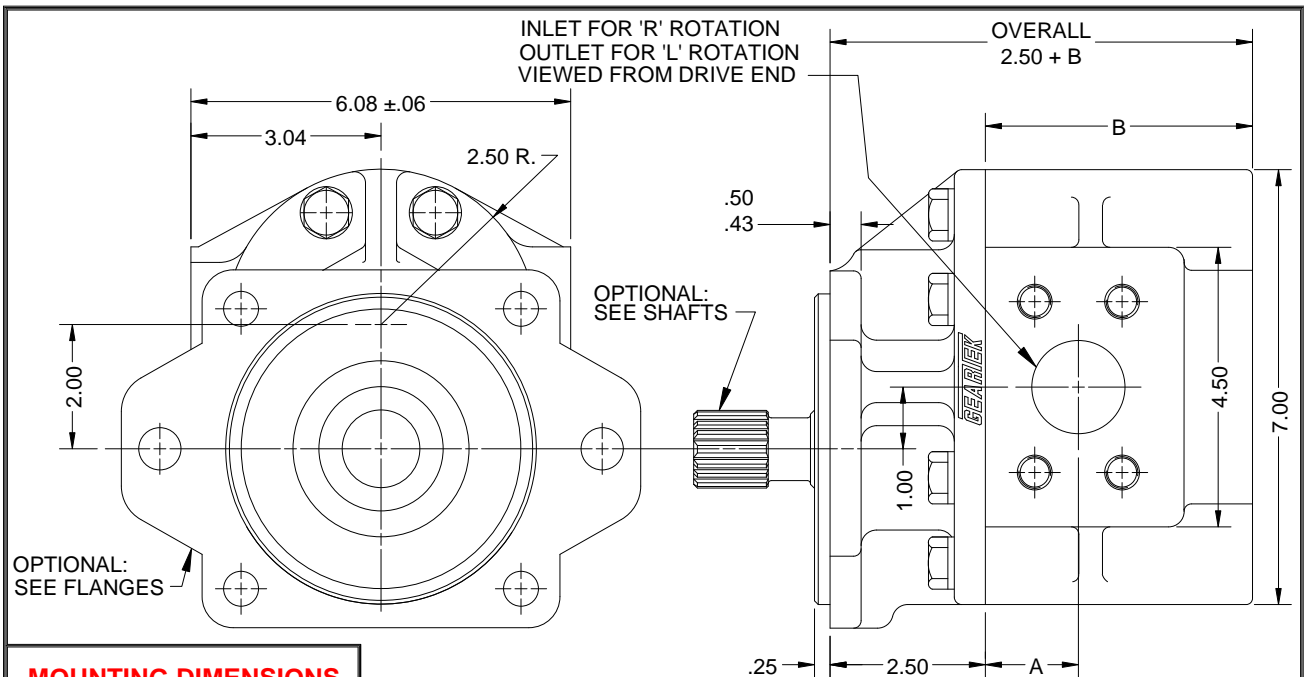
4-BOLT CONNECTOR CHART

| SIZE | C | D | E | F | G |
|--------|-----|-------|------|-------|-----------|
| 1" | .51 | 1.031 | 1.03 | 2.062 | 3/8-16NC |
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |

FLANGES AVAILABLE



DIMENSIONAL DATA



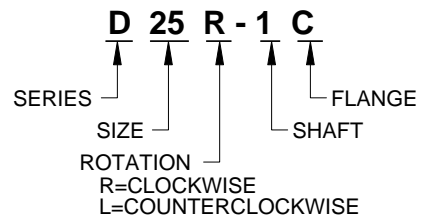
MOUNTING DIMENSIONS

| SIZE | A | B |
|------|------|------|
| D15 | 1.25 | 3.62 |
| D20 | 1.36 | 3.89 |
| D25 | 1.50 | 4.18 |
| D30 | 1.64 | 4.45 |
| D35 | 1.85 | 4.75 |
| D40 | 1.85 | 5.04 |
| D45 | 2.16 | 5.32 |

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

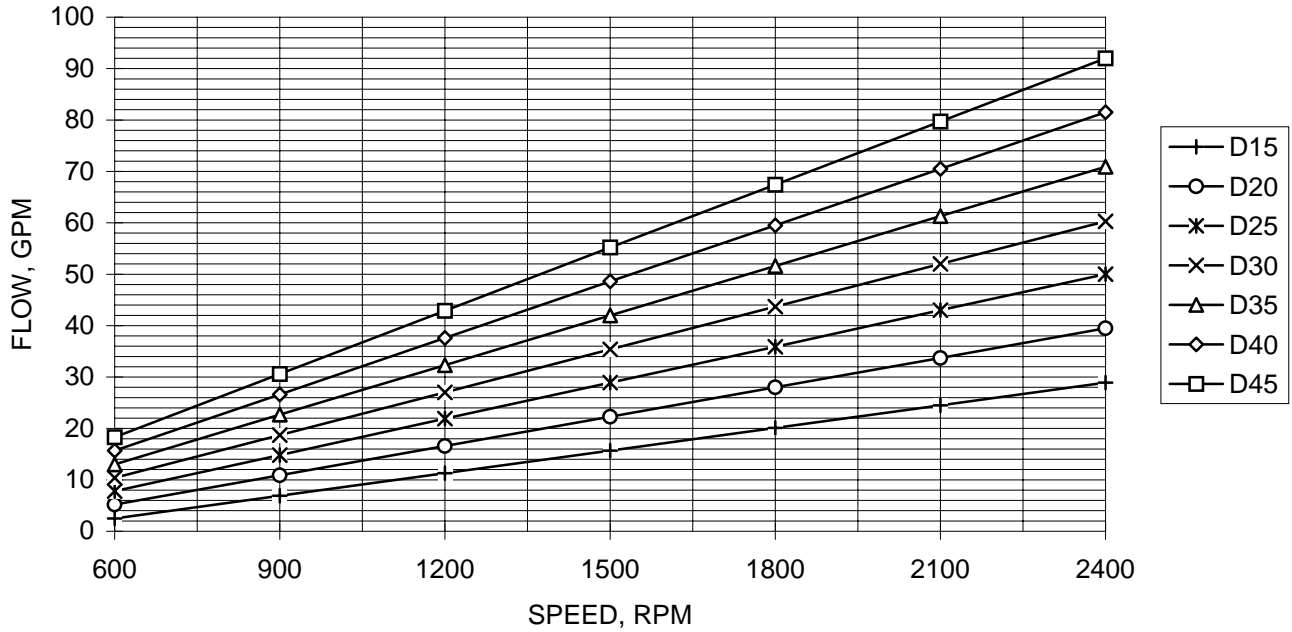
OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

MODEL EXAMPLE

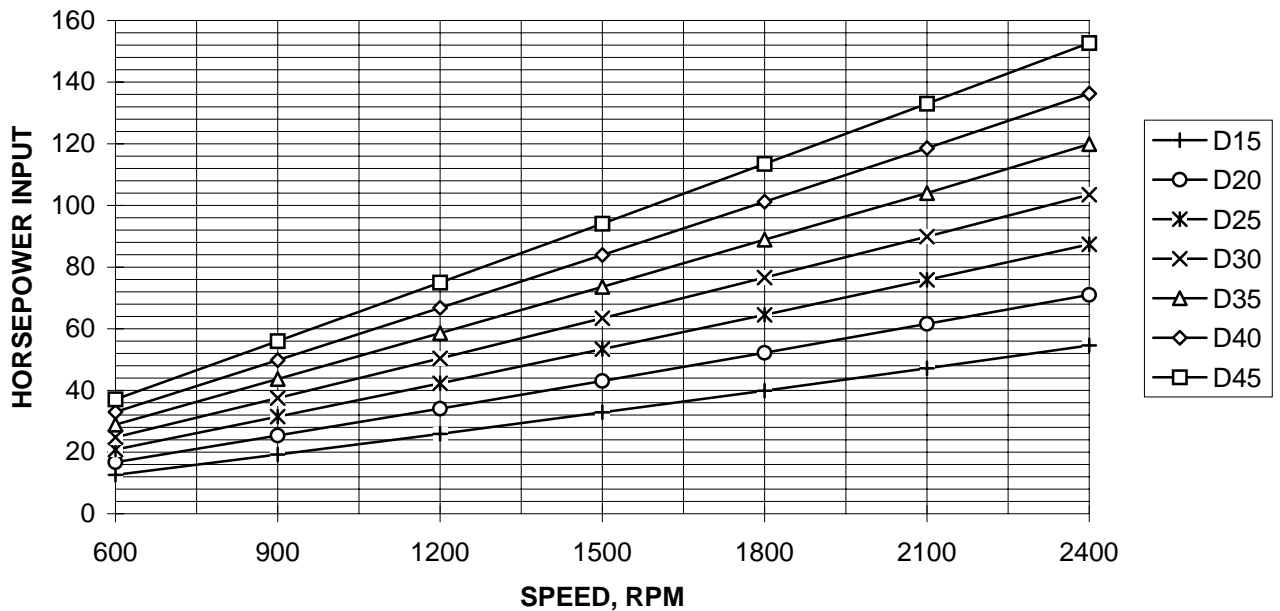


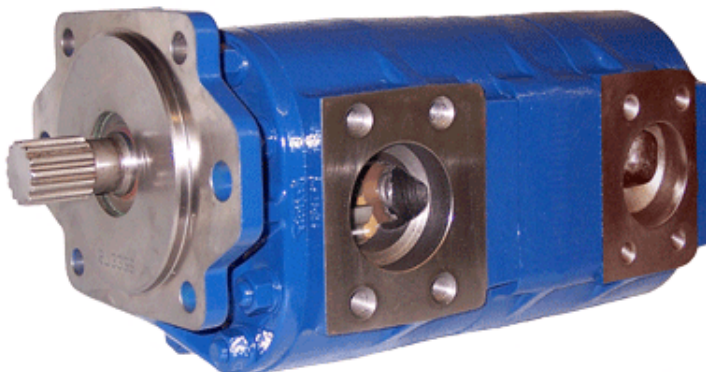
TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

**'D' SERIES PUMP FLOW OUTPUT @ 2500 PSI - SAE 10W OIL
 @ 150 DEGREES FAHRENHEIT**



'D' SERIES PUMP HORSEPOWER IN @ 2500 PSI





**Performance
Data**

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | PRESSURE RATINGS | | | | MAXIMUM SPEED (RPM) |
|---------------|--|--------------|-------------|------------------|-----|-------------|-----|---------------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | NORMAL DUTY | | SEVERE DUTY | | |
| | | | | PSI | BAR | PSI | BAR | |
| D15 | .0129 | 2.98 | 48.8 | 4000 | 276 | 3800 | 262 | 2500 |
| D20 | .0172 | 3.97 | 65.1 | 3800 | 262 | 3000 | 207 | 2500 |
| D25 | .0215 | 4.97 | 81.4 | 3000 | 207 | 2300 | 159 | 2500 |
| D30 | .0258 | 5.96 | 97.6 | 2500 | 172 | 2000 | 138 | 2500 |
| D35 | .0301 | 6.95 | 113.9 | 2500* | 172 | 2000* | 138 | 2500 |
| D40 | .0344 | 7.95 | 130.2 | 2500* | 172 | 2000* | 138 | 2500 |
| D45 | .0387 | 8.94 | 146.5 | 2500* | 172 | 2000* | 138 | 2500 |

* CONSULT FACTORY WITH TYPE APPLICATION
PRESSURES MAY BE LIMITED TO SHAFT TYPE

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 97 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

P. O. BOX 2160, 1506 FULTON DR.
CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

1

1 1/4"-14 TOOTH SPLINE

TORQUE LIMIT 650 FT.-LBS.

SPLINE DATA

| | |
|-------------------|-------------|
| DIAMETRICAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.062-1.050 |

1.229 DIA.
1.223
1.30
1.04 DIA.
2.19
FLG. MTG. SURFACE

3

1 1/4" STRAIGHT

TORQUE LIMIT 650 FT.-LBS.

5/16"x5/16"x1 1/2" KEY

1.250 DIA.
1.248
2.19
FLG. MTG. SURFACE

4

7/8"-13 TOOTH SPLINE

AVAILABLE ON 15 THRU 35 SIZES
TORQUE LIMIT 184 FT.-LBS.

SPLINE DATA

| | |
|-------------------|-----------|
| DIAMETRICAL PITCH | 16/32 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 13 |
| MINOR DIA. | .733-.722 |

.8585 DIA.
.8535
1.05 FULL SPLINE
1.62
FLG. MTG. SURFACE

4

7/8"-13 TOOTH SPLINE

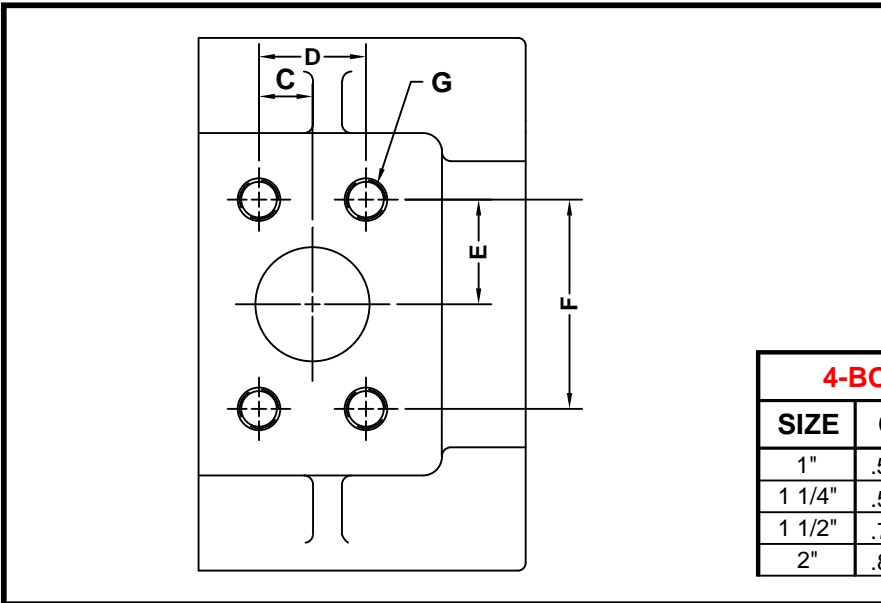
AVAILABLE ON 15 THRU 35 SIZES
TORQUE LIMIT 184 FT.-LBS.

SPLINE DATA

| | |
|-------------------|-----------|
| DIAMETRICAL PITCH | 16/32 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 13 |
| MINOR DIA. | .733-.722 |

.8585 DIA.
.8535
1.05 FULL SPLINE
1.62
FLG. MTG. SURFACE

STANDARD SAE 4-BOLT CONNECTOR PORTS

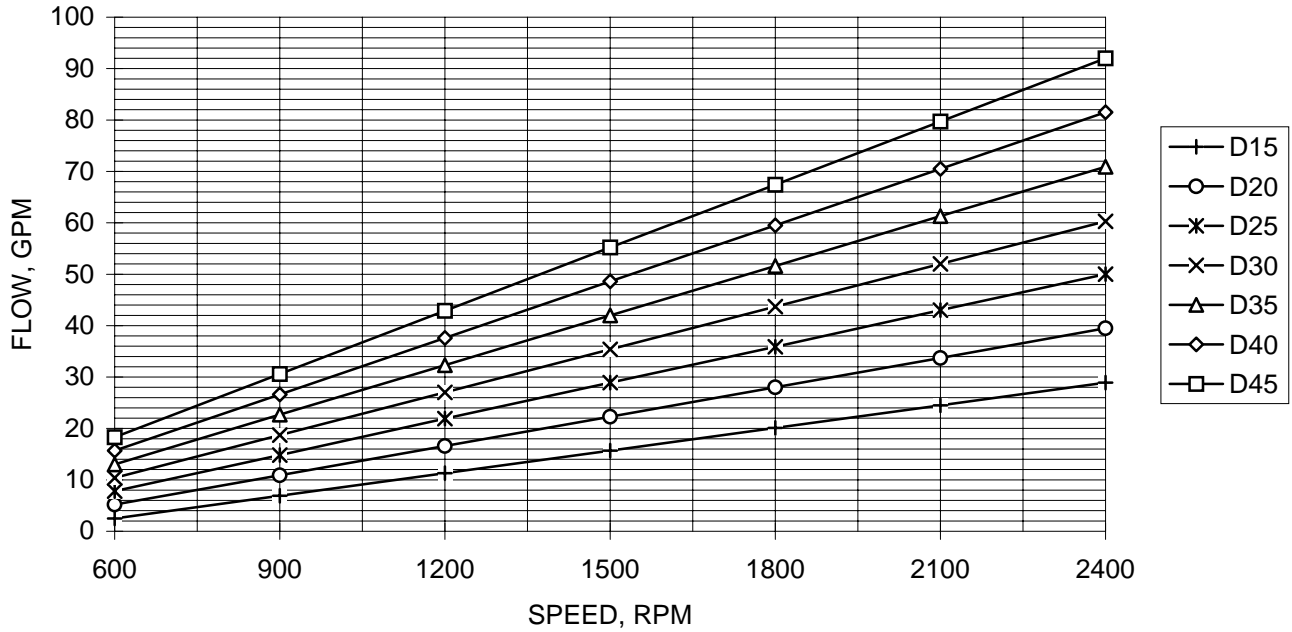


| SAE 4-BOLT CONN. PORTS | | |
|------------------------|------------|-------------|
| SIZE | INLET SIZE | OUTLET SIZE |
| D15 | 1 1/4" | 1" |
| D20 | 1 1/4" | 1" |
| D25 | 1 1/2" | 1 1/4" |
| D30 | 1 1/2" | 1 1/4" |
| D35 | 1 1/2" | 1 1/4" |
| D40 | 2" | 1 1/4" |
| D45 | 2" | 1 1/4" |

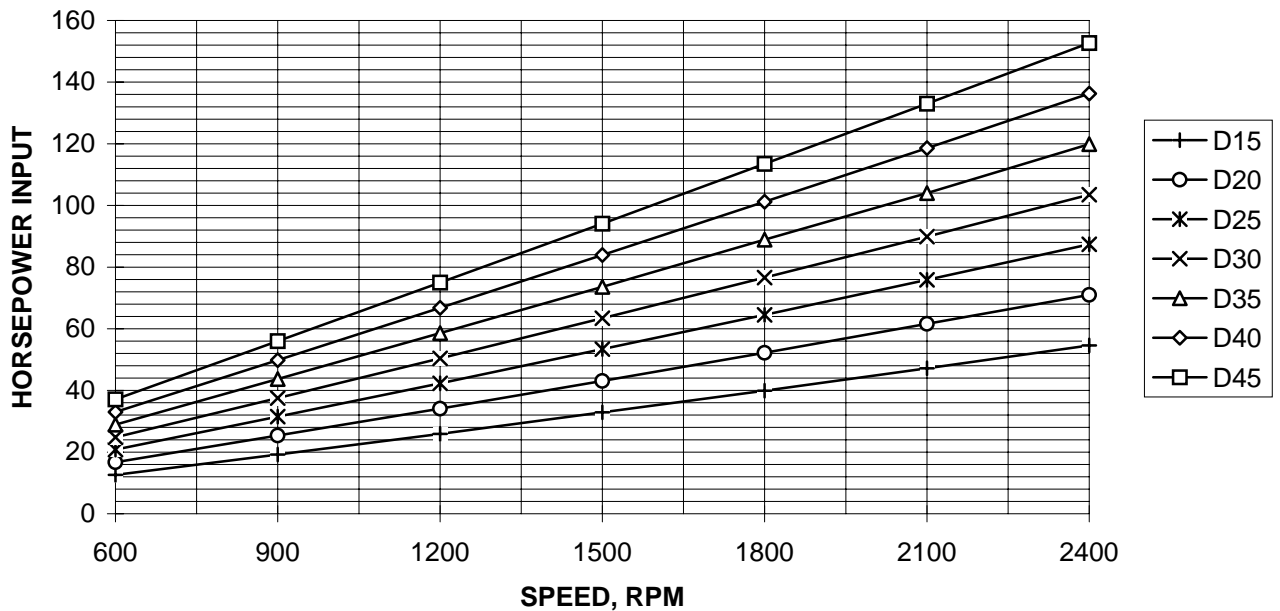
| 4-BOLT CONNECTOR CHART | | | | | |
|------------------------|-----|-------|------|-------|-----------|
| SIZE | C | D | E | F | G |
| 1" | .51 | 1.031 | 1.03 | 2.062 | 3/8-16NC |
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |

TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

**'D' SERIES PUMP FLOW OUTPUT @ 2500 PSI - SAE 10W OIL
 @ 150 DEGREES FAHRENHEIT**



'D' SERIES PUMP HORSEPOWER IN @ 2500 PSI





**Performance
Data**

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | PRESSURE RATINGS | | | | MAXIMUM SPEED (RPM) |
|---------------|--|--------------|-------------|------------------|-----|-------------|-----|---------------------------|
| | | | | NORMAL DUTY | | SEVERE DUTY | | |
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | PSI | BAR | PSI | BAR | |
| D15 | .0129 | 2.98 | 48.8 | 4000 | 276 | 3800 | 262 | 2500 |
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| D35 | .0301 | 6.95 | 113.9 | 2500* | 172 | 2000* | 138 | 2500 |
| D40 | .0344 | 7.95 | 130.2 | 2500* | 172 | 2000* | 138 | 2500 |
| D45 | .0387 | 8.94 | 146.5 | 2500* | 172 | 2000* | 138 | 2500 |

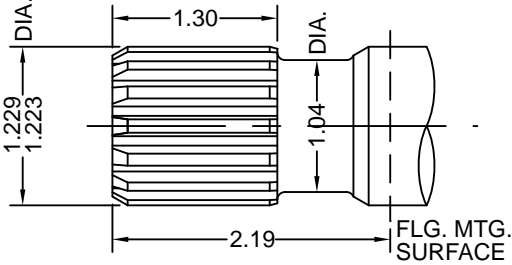
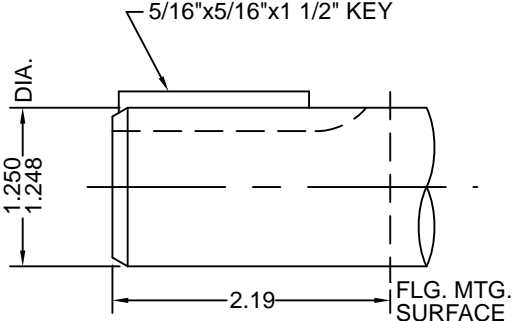
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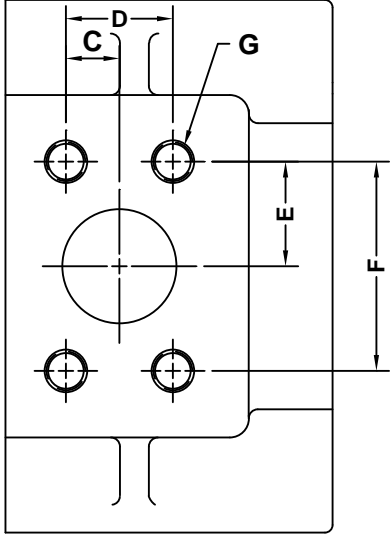
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Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

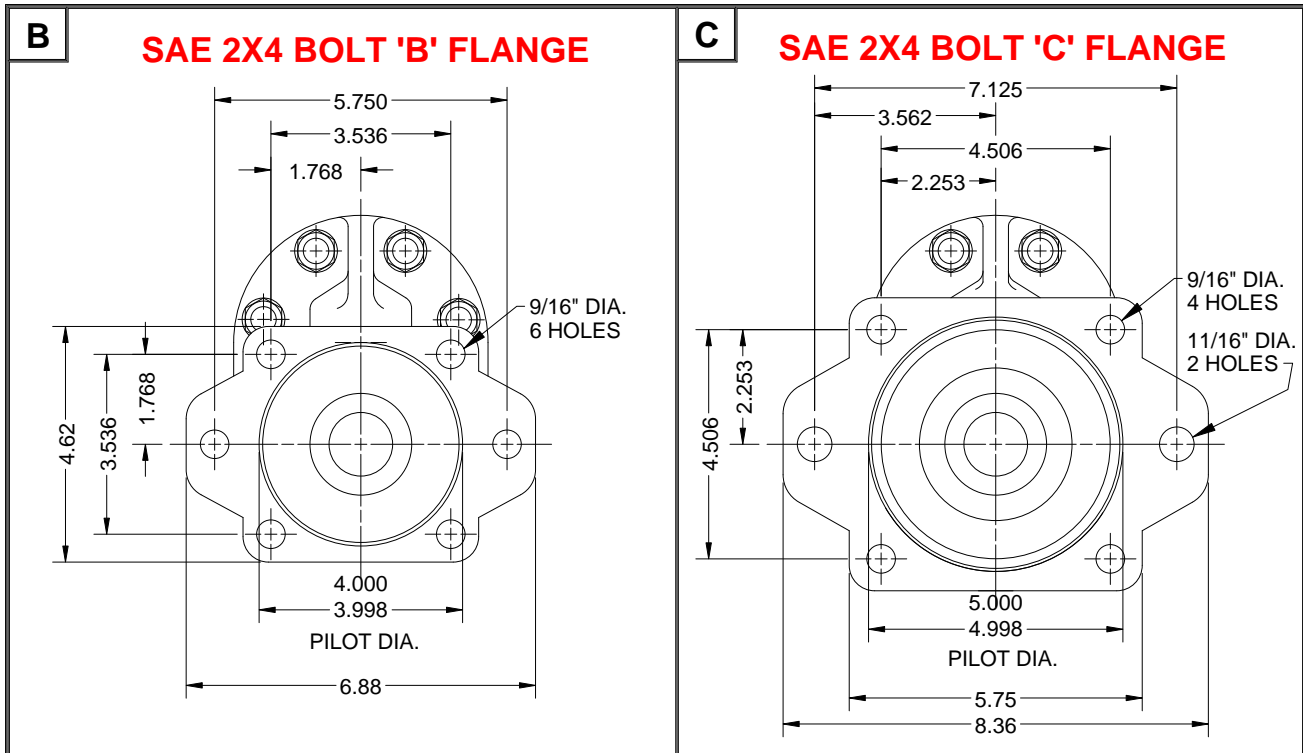
SHAFTS AVAILABLE

| | | | | | | | | | | |
|-----------------|---|-----------------|-------|----------------|-----|--------------|----|------------|-------------|--|
| 1 | <p style="color: red; font-weight: bold; font-size: 1.2em;">1 1/4"-14 TOOTH SPLINE</p> <p>TORQUE LIMIT 650 FT/LBS</p> <p style="text-align: center;">SPLINE DATA</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="border-bottom: 1px solid black;">DIAMETRAL PITCH</td><td style="border-bottom: 1px solid black;">12/24</td></tr> <tr><td style="border-bottom: 1px solid black;">PRESSURE ANGLE</td><td style="border-bottom: 1px solid black;">30°</td></tr> <tr><td style="border-bottom: 1px solid black;">NO. OF TEETH</td><td style="border-bottom: 1px solid black;">14</td></tr> <tr><td style="border-bottom: 1px solid black;">MINOR DIA.</td><td style="border-bottom: 1px solid black;">1.062-1.050</td></tr> </table>  | DIAMETRAL PITCH | 12/24 | PRESSURE ANGLE | 30° | NO. OF TEETH | 14 | MINOR DIA. | 1.062-1.050 | |
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| PRESSURE ANGLE | 30° | | | | | | | | | |
| NO. OF TEETH | 14 | | | | | | | | | |
| MINOR DIA. | 1.062-1.050 | | | | | | | | | |
| 3 | <p style="color: red; font-weight: bold; font-size: 1.2em;">1 1/4" STRAIGHT</p> <p>TORQUE LIMIT 650 FT/LBS</p>  | | | | | | | | | |

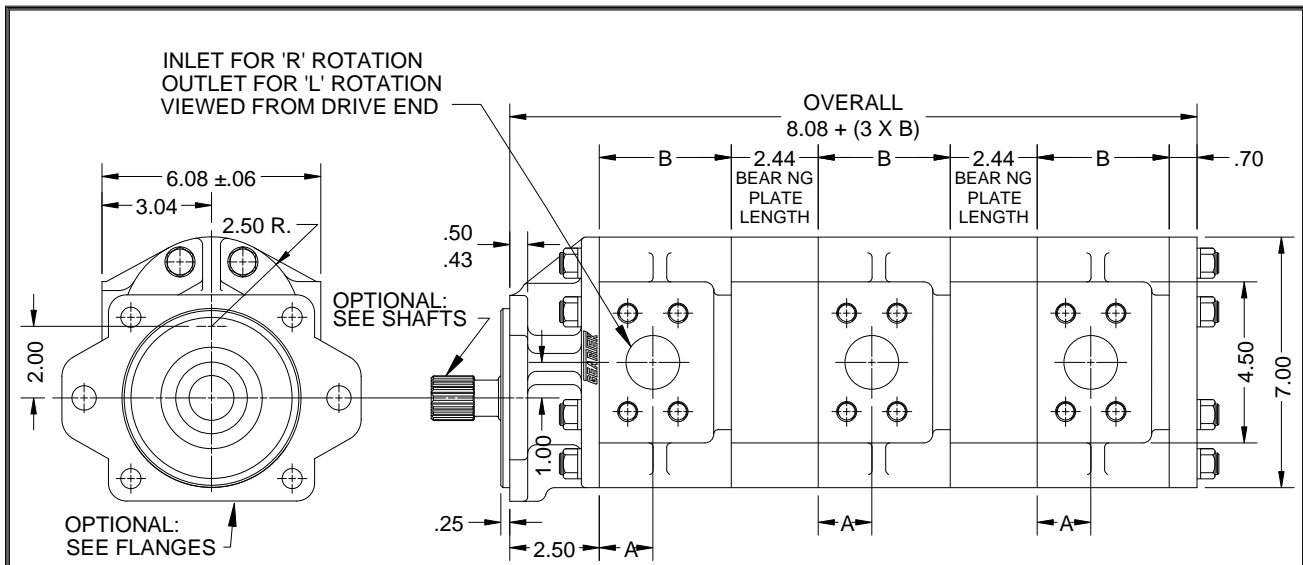
STANDARD SAE 4-BOLT CONNECTOR PORTS

|  | <p style="color: red; font-weight: bold; text-align: center;">SAE 4-BOLT CONN. PORTS</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="font-weight: bold;">SIZE</th> <th style="font-weight: bold;">INLET SIZE</th> <th style="font-weight: bold;">OUTLET SIZE</th> </tr> </thead> <tbody> <tr><td>D15</td><td>1 1/4"</td><td>1"</td></tr> <tr><td>D20</td><td>1 1/4"</td><td>1"</td></tr> <tr><td>D25</td><td>1 1/2"</td><td>1 1/4"</td></tr> <tr><td>D30</td><td>1 1/2"</td><td>1 1/4"</td></tr> <tr><td>D35</td><td>1 1/2"</td><td>1 1/4"</td></tr> <tr><td>D40</td><td>2"</td><td>1 1/4"</td></tr> <tr><td>D45</td><td>2"</td><td>1 1/4"</td></tr> </tbody> </table> | SIZE | INLET SIZE | OUTLET SIZE | D15 | 1 1/4" | 1" | D20 | 1 1/4" | 1" | D25 | 1 1/2" | 1 1/4" | D30 | 1 1/2" | 1 1/4" | D35 | 1 1/2" | 1 1/4" | D40 | 2" | 1 1/4" | D45 | 2" | 1 1/4" | | | | | | |
|---|---|-------------|------------|-------------|-----------|--------|----|-----|--------|-------|------|--------|----------|--------|--------|--------|------|--------|-----------|--------|-----|--------|------|-------|----------|----|-----|-------|------|-------|----------|
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| D40 | 2" | 1 1/4" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D45 | 2" | 1 1/4" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p style="color: red; font-weight: bold; text-align: center;">4-BOLT CONNECTOR CHART</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="font-weight: bold;">SIZE</th> <th style="font-weight: bold;">C</th> <th style="font-weight: bold;">D</th> <th style="font-weight: bold;">E</th> <th style="font-weight: bold;">F</th> <th style="font-weight: bold;">G</th> </tr> </thead> <tbody> <tr><td>1"</td><td>.51</td><td>1.031</td><td>1.03</td><td>2.062</td><td>3/8-16NC</td></tr> <tr><td>1 1/4"</td><td>.59</td><td>1.188</td><td>1.15</td><td>2.313</td><td>7/16-14NC</td></tr> <tr><td>1 1/2"</td><td>.70</td><td>1.406</td><td>1.37</td><td>2.750</td><td>1/2-13NC</td></tr> <tr><td>2"</td><td>.84</td><td>1.688</td><td>1.53</td><td>3.062</td><td>1/2-13NC</td></tr> </tbody> </table> | SIZE | C | D | E | F | G | 1" | .51 | 1.031 | 1.03 | 2.062 | 3/8-16NC | 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC | 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC | 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |
| SIZE | C | D | E | F | G | | | | | | | | | | | | | | | | | | | | | | | | | | |
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FLANGES AVAILABLE



DIMENSIONAL DATA



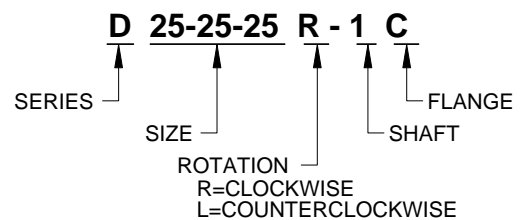
MOUNTING DIMENSIONS

| SIZE | A | B |
|------|------|------|
| D15 | 1.25 | 3.02 |
| D20 | 1.36 | 3.31 |
| D25 | 1.50 | 3.59 |
| D30 | 1.64 | 3.87 |
| D35 | 1.85 | 4.16 |
| D40 | 1.85 | 4.44 |
| D45 | 2.16 | 4.73 |

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

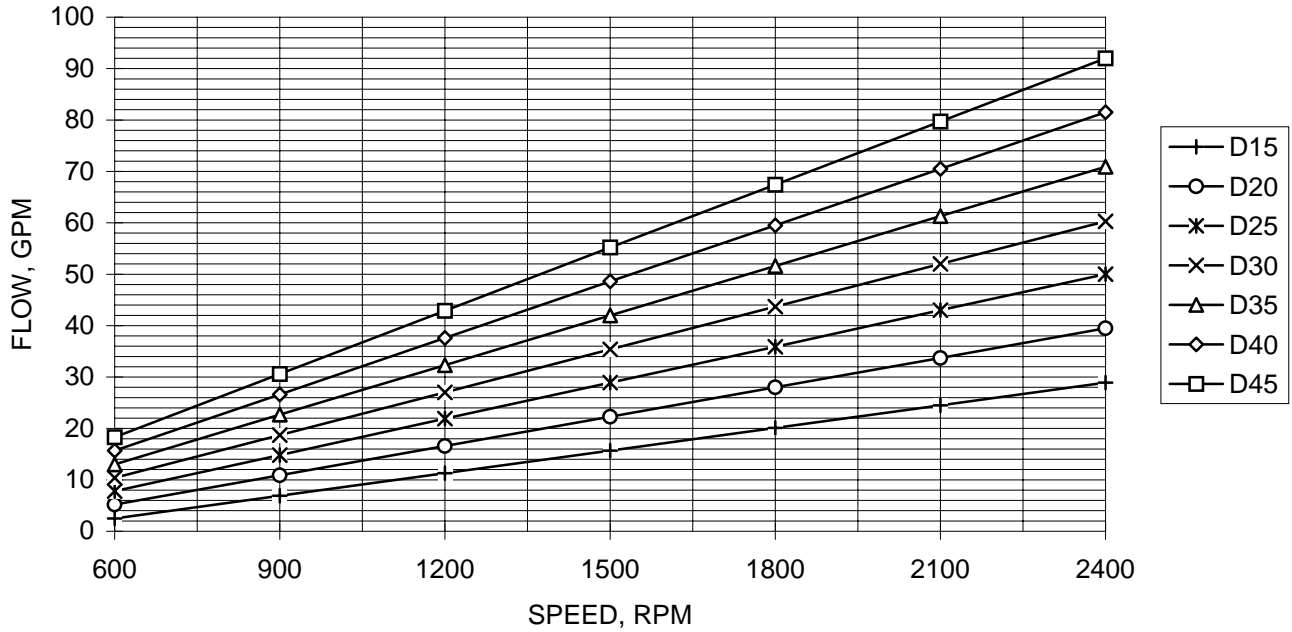
OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

MODEL EXAMPLE

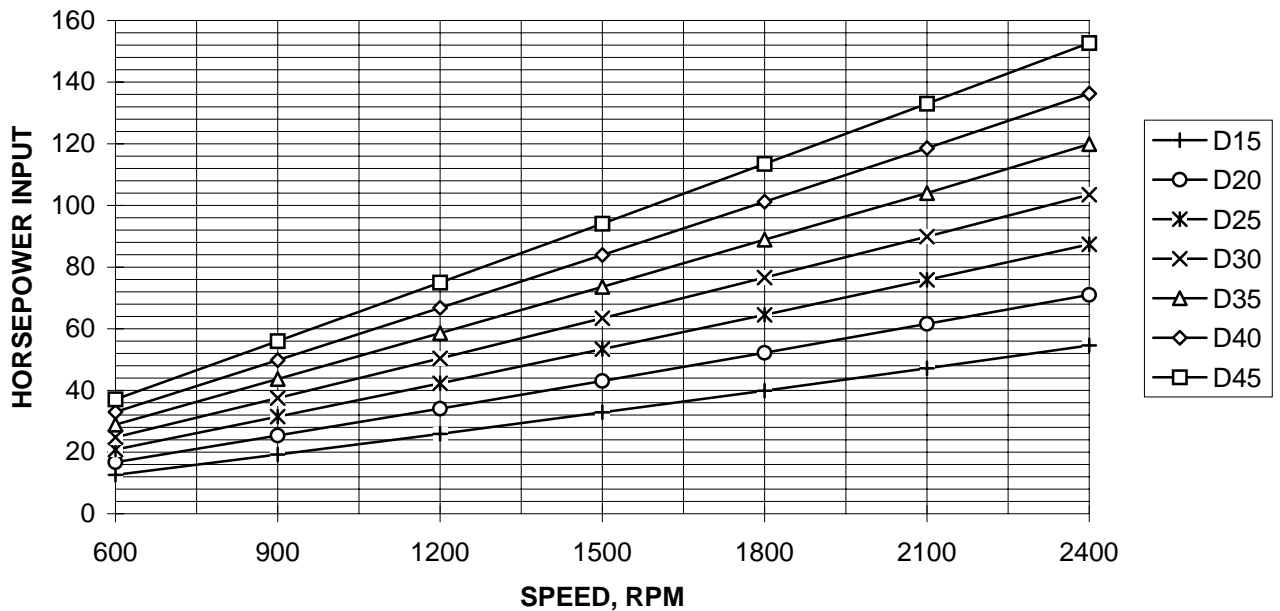


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'D' SERIES PUMP HORSEPOWER IN @ 2500 PSI





**Performance
Data**

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| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | NORMAL DUTY | | SEVERE DUTY | | |
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SHAFTS AVAILABLE

| | | | | | | | | | |
|--|-----------------|-------|----------------|-----|--------------|----|------------|-------------|--|
| <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; color: red; font-weight: bold;">1</p> <p style="text-align: center; color: red; font-weight: bold;">1 1/4"-14 TOOTH SPLINE</p> <p style="text-align: center;">TORQUE LIMIT 650 FT/LBS</p> <p style="text-align: center; font-weight: bold;">SPLINE DATA</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="border-right: 1px solid black;">DIAMETRAL PITCH</td><td style="text-align: right;">12/24</td></tr> <tr><td style="border-right: 1px solid black;">PRESSURE ANGLE</td><td style="text-align: right;">30°</td></tr> <tr><td style="border-right: 1px solid black;">NO. OF TEETH</td><td style="text-align: right;">14</td></tr> <tr><td style="border-right: 1px solid black;">MINOR DIA.</td><td style="text-align: right;">1.062-1.050</td></tr> </table> </div> | DIAMETRAL PITCH | 12/24 | PRESSURE ANGLE | 30° | NO. OF TEETH | 14 | MINOR DIA. | 1.062-1.050 | <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; color: red; font-weight: bold;">3</p> <p style="text-align: center; color: red; font-weight: bold;">1 1/4" STRAIGHT</p> <p style="text-align: center;">TORQUE LIMIT 650 FT/LBS</p> <p style="text-align: center;">5/16"x5/16"x1 1/2" KEY</p> </div> |
| DIAMETRAL PITCH | 12/24 | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | |
| NO. OF TEETH | 14 | | | | | | | | |
| MINOR DIA. | 1.062-1.050 | | | | | | | | |

REAR COUPLINGS AVAILABLE

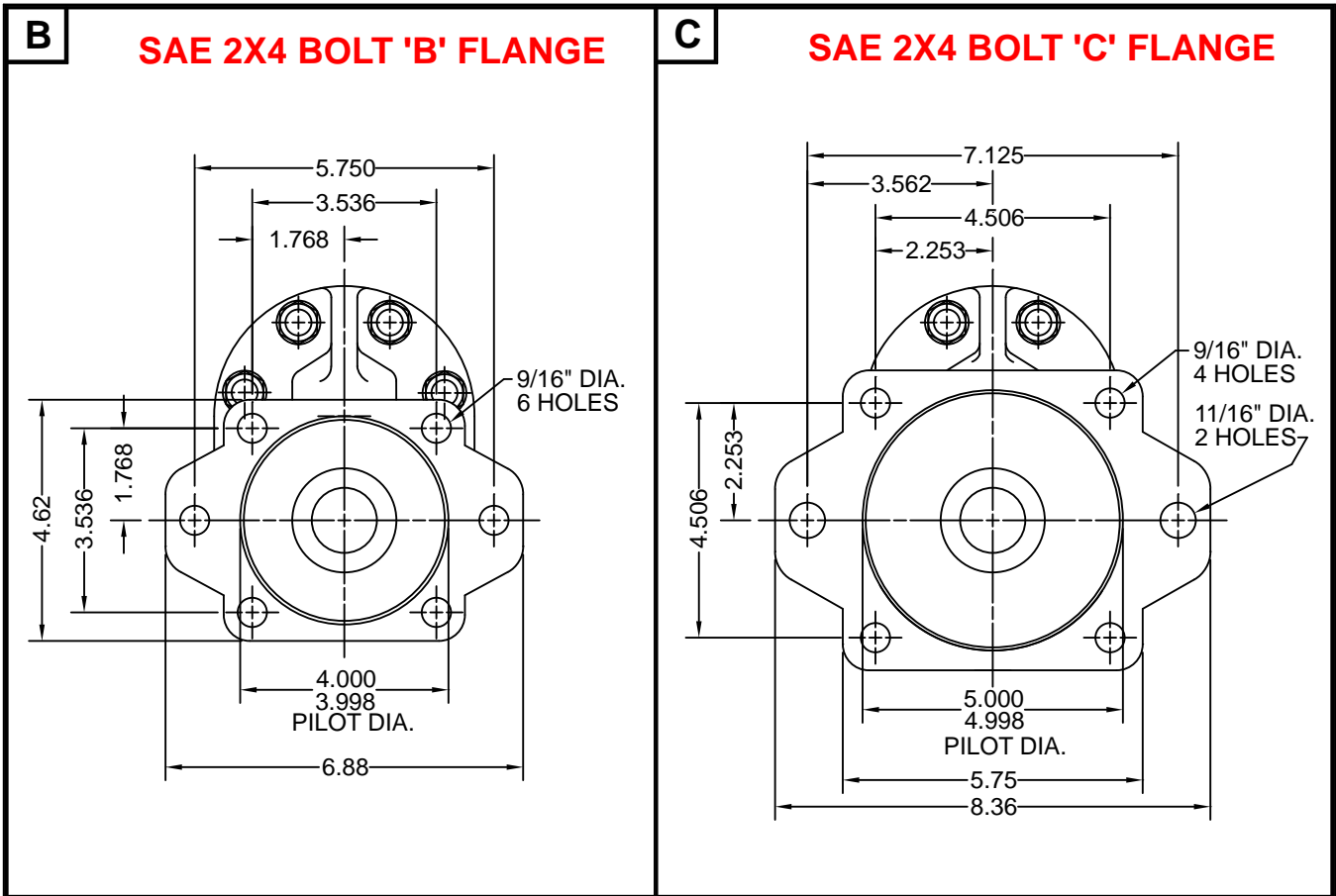
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------|--|-----------------|-------|----------------|-----|--------------|----|------------|-----------|------------|-----------|-------------|-------------|--|----------------------|--|-----------------|-------|----------------|-----|--------------|---|------------|-----------|------------|-----------|-------------|-------------|
| <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; color: red; font-weight: bold;">78</p> <p style="text-align: center; color: red; font-weight: bold;">7/8"-13 TOOTH INTERNAL SPLINE</p> <p style="text-align: center;">SEE INSTRUCTION SHEET 110102 WHEN MOUNTING GEARTEK 'D/HD' ON REAR</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center; font-weight: bold;">INTERNAL SPLINE DATA</td></tr> <tr><td style="border-right: 1px solid black;">DIAMETRAL PITCH</td><td style="text-align: right;">16/32</td></tr> <tr><td style="border-right: 1px solid black;">PRESSURE ANGLE</td><td style="text-align: right;">30°</td></tr> <tr><td style="border-right: 1px solid black;">NO. OF TEETH</td><td style="text-align: right;">13</td></tr> <tr><td style="border-right: 1px solid black;">MAJOR DIA.</td><td style="text-align: right;">.901-.906</td></tr> <tr><td style="border-right: 1px solid black;">MINOR DIA.</td><td style="text-align: right;">.754-.759</td></tr> <tr><td style="border-right: 1px solid black;">SPACE WIDTH</td><td style="text-align: right;">.1008-.1035</td></tr> </table> </div> | INTERNAL SPLINE DATA | | DIAMETRAL PITCH | 16/32 | PRESSURE ANGLE | 30° | NO. OF TEETH | 13 | MAJOR DIA. | .901-.906 | MINOR DIA. | .754-.759 | SPACE WIDTH | .1008-.1035 | <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; color: red; font-weight: bold;">58</p> <p style="text-align: center; color: red; font-weight: bold;">5/8"-9 TOOTH INTERNAL SPLINE</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center; font-weight: bold;">INTERNAL SPLINE DATA</td></tr> <tr><td style="border-right: 1px solid black;">DIAMETRAL PITCH</td><td style="text-align: right;">16/32</td></tr> <tr><td style="border-right: 1px solid black;">PRESSURE ANGLE</td><td style="text-align: right;">30°</td></tr> <tr><td style="border-right: 1px solid black;">NO. OF TEETH</td><td style="text-align: right;">9</td></tr> <tr><td style="border-right: 1px solid black;">MAJOR DIA.</td><td style="text-align: right;">.680-.690</td></tr> <tr><td style="border-right: 1px solid black;">MINOR DIA.</td><td style="text-align: right;">.500-.510</td></tr> <tr><td style="border-right: 1px solid black;">SPACE WIDTH</td><td style="text-align: right;">.1008-.1035</td></tr> </table> </div> | INTERNAL SPLINE DATA | | DIAMETRAL PITCH | 16/32 | PRESSURE ANGLE | 30° | NO. OF TEETH | 9 | MAJOR DIA. | .680-.690 | MINOR DIA. | .500-.510 | SPACE WIDTH | .1008-.1035 |
| INTERNAL SPLINE DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIAMETRAL PITCH | 16/32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAJOR DIA. | .901-.906 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINOR DIA. | .754-.759 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPACE WIDTH | .1008-.1035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTERNAL SPLINE DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIAMETRAL PITCH | 16/32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAJOR DIA. | .680-.690 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINOR DIA. | .500-.510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPACE WIDTH | .1008-.1035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

STANDARD SAE 4-BOLT CONNECTOR PORTS

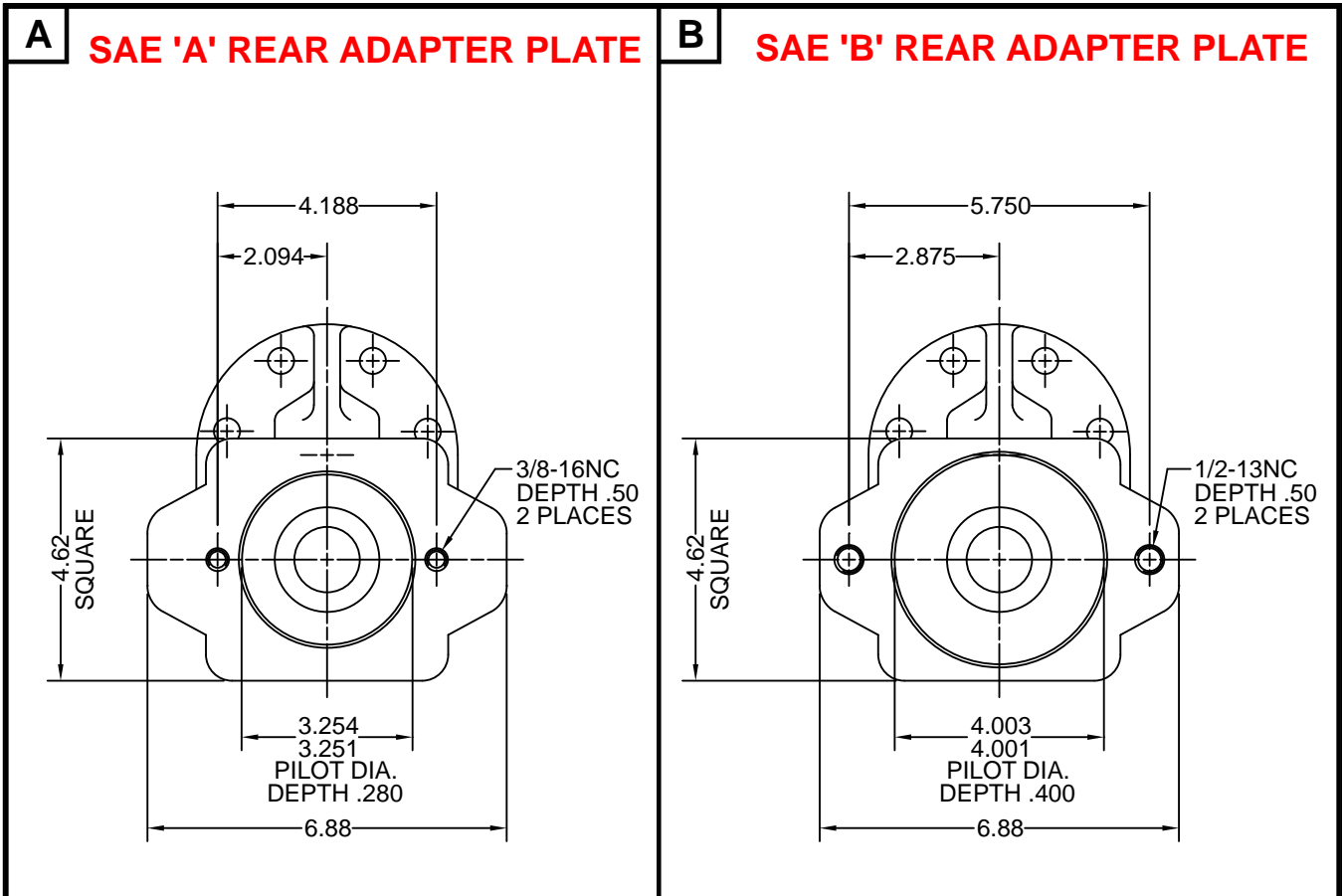
| SAE 4-BOLT CONN. PORTS | | |
|------------------------|------------|-------------|
| SIZE | INLET SIZE | OUTLET SIZE |
| DB15 | 1 1/4" | 1" |
| DB20 | 1 1/4" | 1" |
| DB25 | 1 1/2" | 1 1/4" |
| DB30 | 1 1/2" | 1 1/4" |
| DB35 | 1 1/2" | 1 1/4" |
| DB40 | 2" | 1 1/4" |
| DB45 | 2" | 1 1/4" |

| 4-BOLT CONNECTOR CHART | | | | | |
|------------------------|-----|-------|------|-------|-----------|
| SIZE | C | D | E | F | G |
| 1" | .51 | 1.031 | 1.03 | 2.062 | 3/8-16NC |
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |

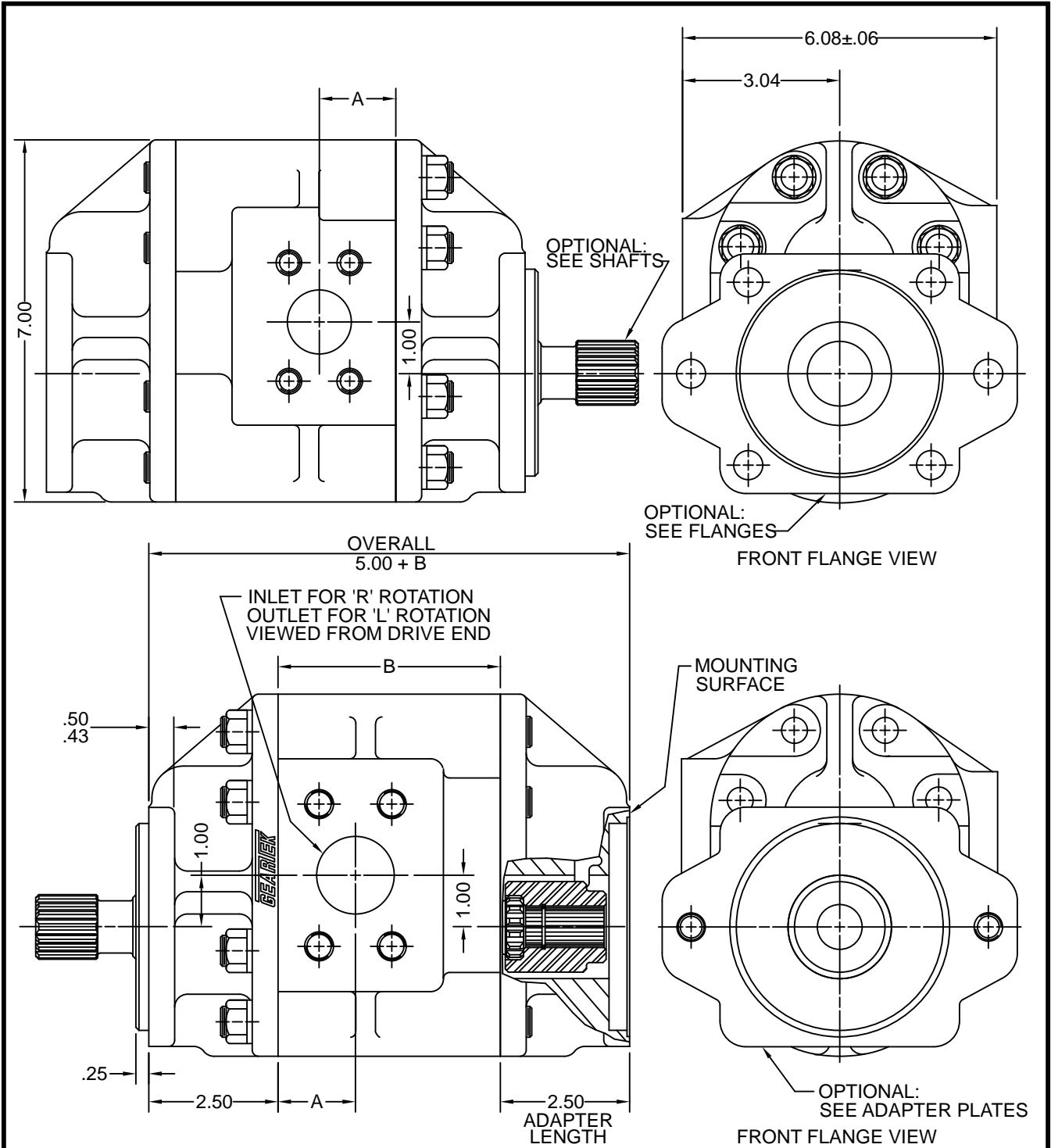
FLANGES AVAILABLE



REAR ADAPTERS AVAILABLE



DIMENSIONAL DATA



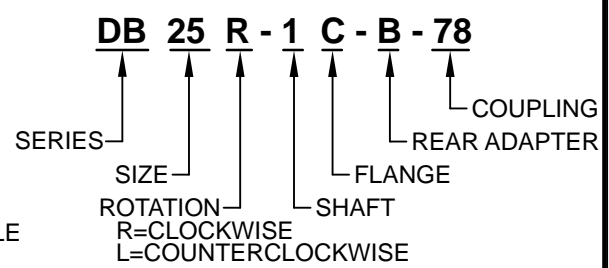
MOUNTING DIMENSIONS

| SIZE | A | B |
|------|------|------|
| DB15 | 1.25 | 3.02 |
| DB20 | 1.36 | 3.31 |
| DB25 | 1.50 | 3.59 |
| DB30 | 1.64 | 3.87 |
| DB35 | 1.85 | 4.16 |
| DB40 | 1.85 | 4.44 |
| DB45 | 2.16 | 4.73 |

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

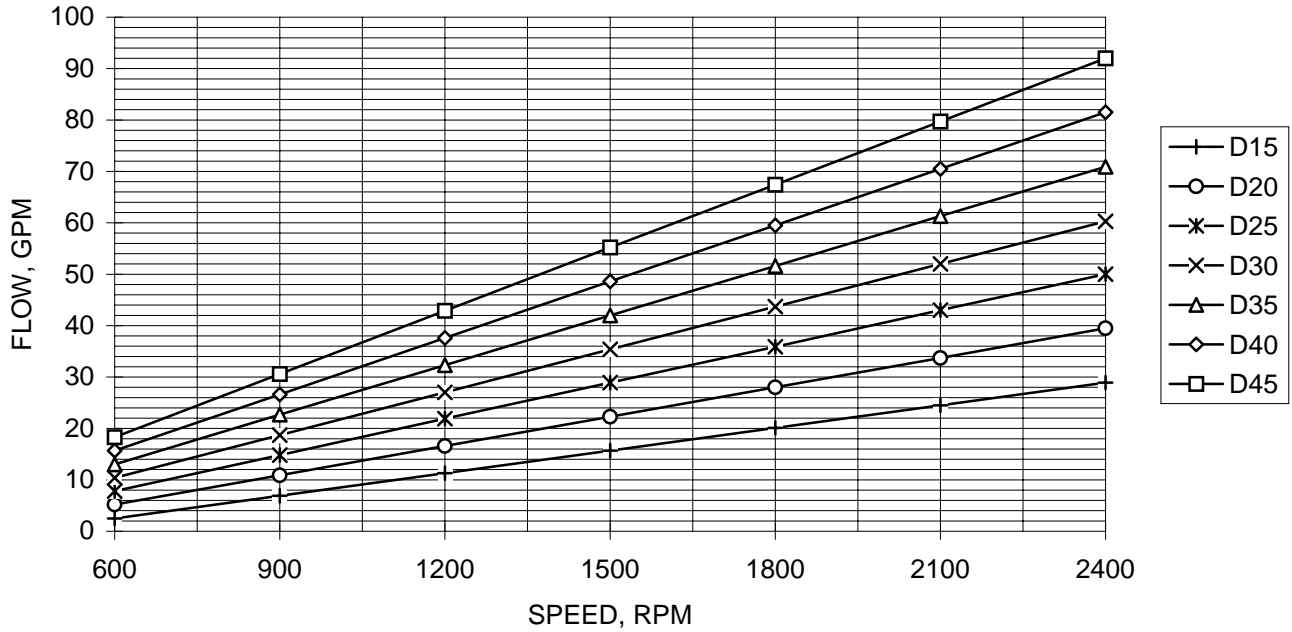
OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

MODEL EXAMPLE

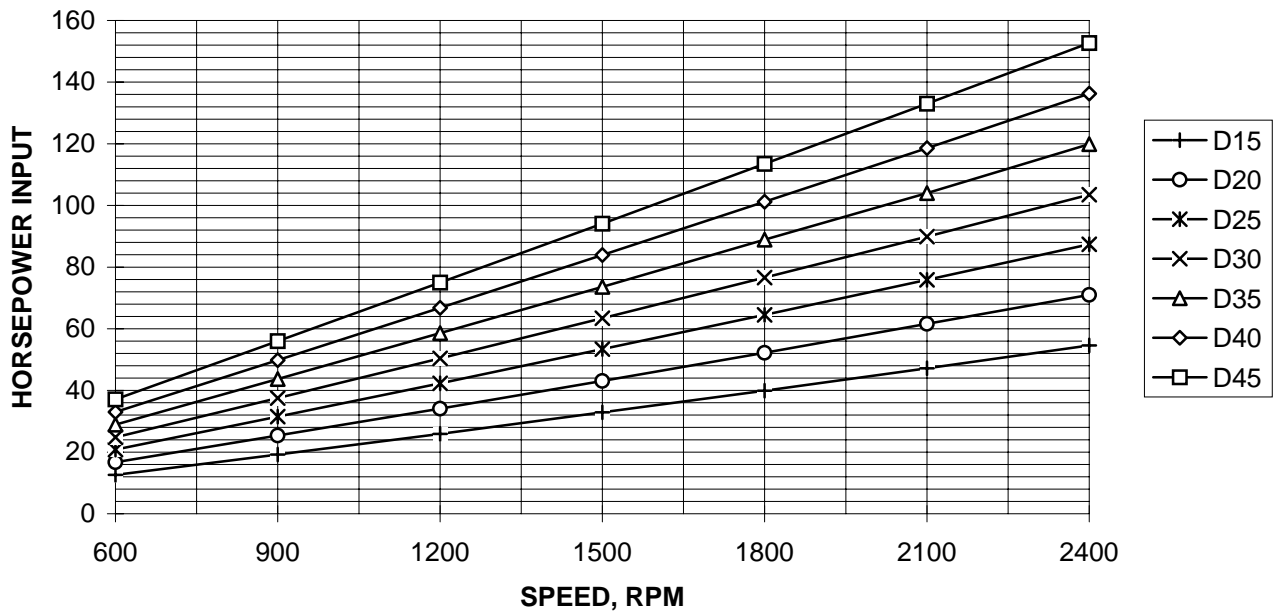


TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

**'D' SERIES PUMP FLOW OUTPUT @ 2500 PSI - SAE 10W OIL
 @ 150 DEGREES FAHRENHEIT**



'D' SERIES PUMP HORSEPOWER IN @ 2500 PSI

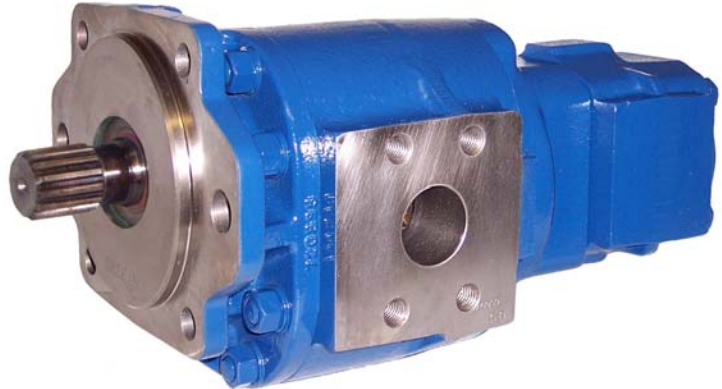




HYDRAULIC GEAR PUMPS AND MOTORS

'DTC' Series

TANDEM PUMP



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MAXIMUM NORMAL PRESSURE RATINGS | | MAXIMUM SPEED (RPM) |
|------------|---------------------------------------|--------------|-------------|---------------------------------|-----|---------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | PSI | BAR | |
| D15 | .0129 | 2.98 | 48.8 | 4000 | 276 | 2500 |
| D20 | .0172 | 3.97 | 65.1 | 3800 | 262 | 2500 |
| D25 | .0215 | 4.97 | 81.4 | 3000 | 207 | 2500 |
| D30 | .0258 | 5.96 | 97.6 | 2500 | 172 | 2500 |
| D35 | .0301 | 6.95 | 113.9 | 2500* | 172 | 2500 |
| D40 | .0344 | 7.95 | 130.2 | 2500* | 172 | 2500 |
| D45 | .0387 | 8.94 | 146.5 | 2500* | 172 | 2500 |
| C45 | .0038 | 0.88 | 14.4 | 3500 | 241 | 2500 |
| C65 | .0055 | 1.27 | 20.8 | 3500 | 241 | 2500 |
| C85 | .0072 | 1.66 | 27.2 | 3500 | 241 | 2500 |
| C100 | .0085 | 1.96 | 32.1 | 3500 | 241 | 2500 |
| C115 | .0097 | 2.24 | 36.7 | 3000 | 207 | 2500 |
| C150 | .0127 | 2.93 | 48.1 | 2500 | 172 | 2500 |
| C180 | .0152 | 3.51 | 57.5 | 2500* | 172 | 2500 |
| C200 | .0169 | 3.90 | 63.9 | 2500* | 172 | 2200 ** |

* CONSULT FACTORY WITH TYPE APPLICATION

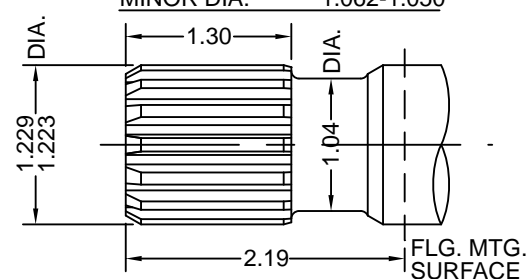
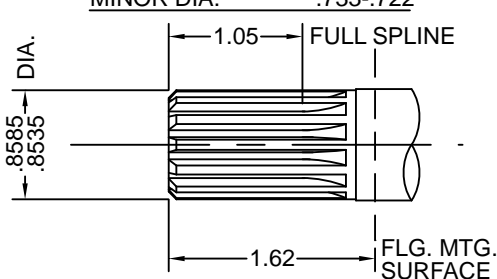
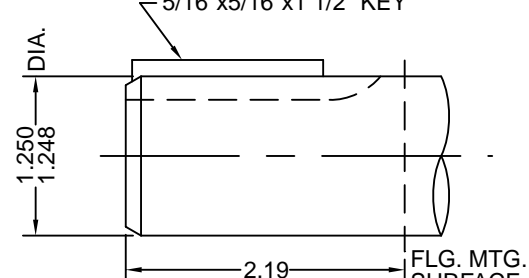
** WHEN USING C200 ON REAR - MAXIMUM SPEED FOR UNIT IS LIMITED TO 2200 RPM

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 97 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

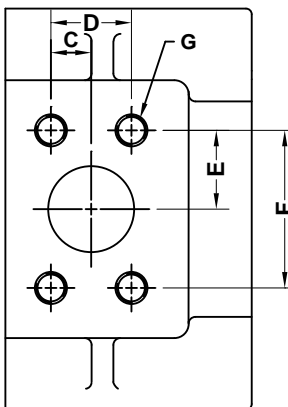
P. O. BOX 2160, 1506 FULTON DR.
CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

| | | | | | | | | | | | | | | | | | |
|--|-----------------|-------|----------------|-----|--------------|----|------------|-------------|---|-----------------|-------|----------------|-----|--------------|----|------------|-----------|
| <p>1</p> <p style="text-align: center;">1 1/4"-14 TOOTH SPLINE</p> <p style="text-align: center;">TORQUE LIMIT 650 FT./LBS.</p> <p style="text-align: center;">SPLINE DATA</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 70%;">DIAMETRAL PITCH</td><td>12/24</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>14</td></tr> <tr><td>MINOR DIA.</td><td>1.062-1.050</td></tr> </table>  | DIAMETRAL PITCH | 12/24 | PRESSURE ANGLE | 30° | NO. OF TEETH | 14 | MINOR DIA. | 1.062-1.050 | <p>4</p> <p style="text-align: center;">7/8"-13 TOOTH SPLINE</p> <p style="text-align: center;">AVAILABLE ON 15 THRU 35 SIZES TORQUE LIMIT 184 FT./LBS.</p> <p style="text-align: center;">SPLINE DATA</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 70%;">DIAMETRAL PITCH</td><td>16/32</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>13</td></tr> <tr><td>MINOR DIA.</td><td>.733-.722</td></tr> </table>  | DIAMETRAL PITCH | 16/32 | PRESSURE ANGLE | 30° | NO. OF TEETH | 13 | MINOR DIA. | .733-.722 |
| DIAMETRAL PITCH | 12/24 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 14 | | | | | | | | | | | | | | | | |
| MINOR DIA. | 1.062-1.050 | | | | | | | | | | | | | | | | |
| DIAMETRAL PITCH | 16/32 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 13 | | | | | | | | | | | | | | | | |
| MINOR DIA. | .733-.722 | | | | | | | | | | | | | | | | |
| <p>3</p> <p style="text-align: center;">1 1/4" STRAIGHT</p> <p style="text-align: center;">TORQUE LIMIT 650 FT./LBS.</p> <p style="text-align: center;">5/16"x5/16"x1 1/2" KEY</p>  | | | | | | | | | | | | | | | | | |

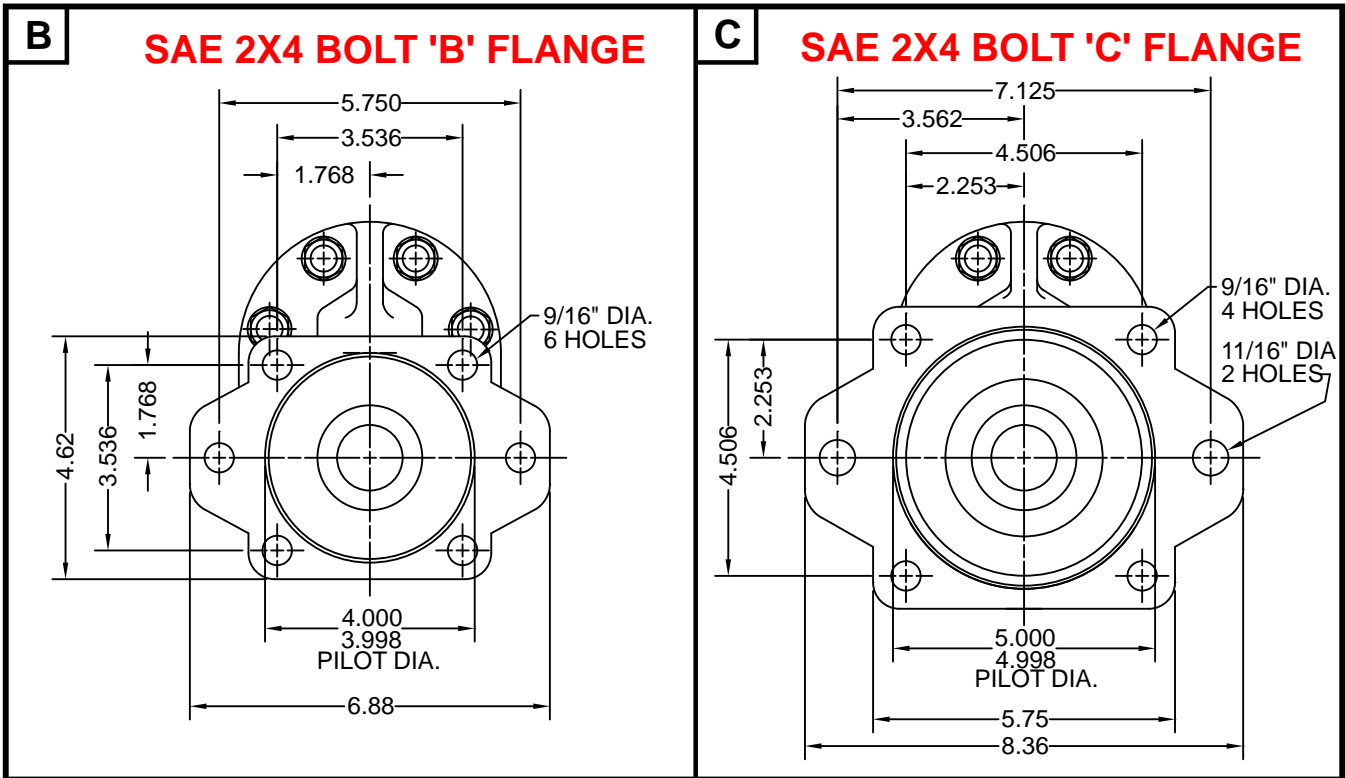
STANDARD SAE 4-BOLT CONNECTOR PORTS



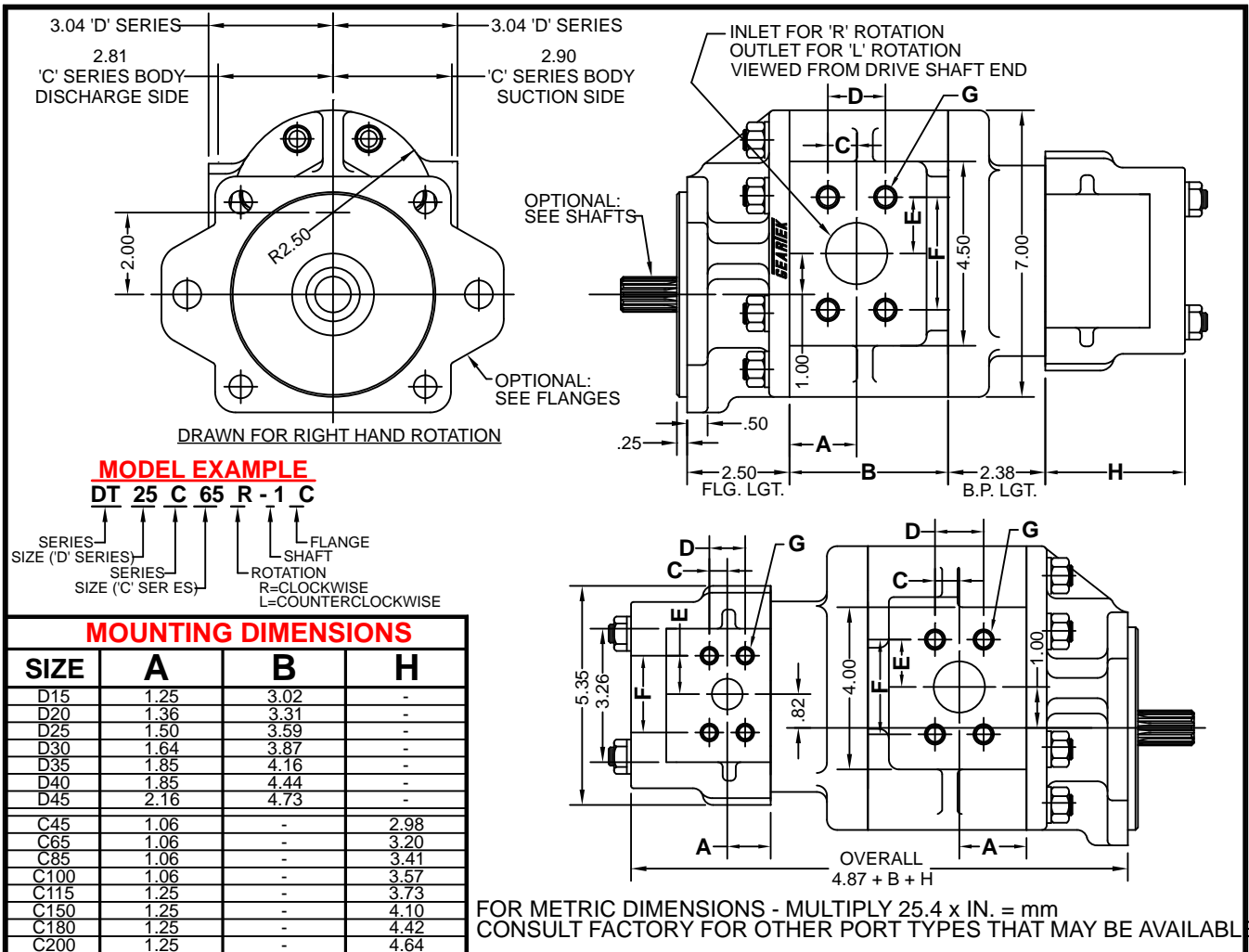
| SAE 4-BOLT CONN. PORTS | | |
|------------------------|------------|-------------|
| SIZE | INLET SIZE | OUTLET SIZE |
| D15 | 1 1/2" | 1" |
| D20 | 1 1/2" | 1" |
| D25 | 2" | 1 1/4" |
| D30 | 2" | 1 1/4" |
| D35 | 2" | 1 1/4" |
| D40 | 2 1/2" | 1 1/4" |
| D45 | 2 1/2" | 1 1/4" |
| C45 | - | 3/4" |
| C65 | - | 3/4" |
| C85 | - | 3/4" |
| C100 | - | 3/4" |
| C115 | - | 3/4" |
| C150 | - | 3/4" |
| C180 | - | 3/4" |
| C200 | - | 3/4" |

| 4-BOLT CONNECTOR CHART | | | | | |
|------------------------|------|-------|------|-------|-----------|
| SIZE | C | D | E | F | G |
| 3/4" | .43 | .875 | .93 | 1.875 | 3/8-16NC |
| 1" | .51 | 1.031 | 1.03 | 2.062 | 3/8-16NC |
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |
| 2 1/2" | 1.00 | 2.000 | 1.75 | 3.500 | 1/2-13NC |

FLANGES AVAILABLE



DIMENSIONAL DATA



MOUNTING DIMENSIONS

| SIZE | A | B | H |
|------|------|------|------|
| D15 | 1.25 | 3.02 | - |
| D20 | 1.36 | 3.31 | - |
| D25 | 1.50 | 3.59 | - |
| D30 | 1.64 | 3.87 | - |
| D35 | 1.85 | 4.16 | - |
| D40 | 1.85 | 4.44 | - |
| D45 | 2.16 | 4.73 | - |
| C45 | 1.06 | - | 2.98 |
| C65 | 1.06 | - | 3.20 |
| C85 | 1.06 | - | 3.41 |
| C100 | 1.06 | - | 3.57 |
| C115 | 1.25 | - | 3.73 |
| C150 | 1.25 | - | 4.10 |
| C180 | 1.25 | - | 4.42 |
| C200 | 1.25 | - | 4.64 |

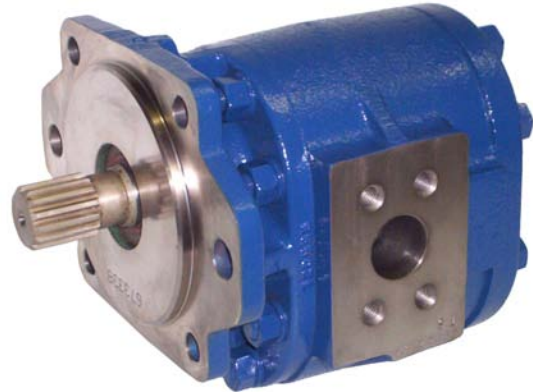
FOR METRIC DIMENSIONS - MULTIPLY 25.4 x IN. = mm
CONSULT FACTORY FOR OTHER PORT TYPES THAT MAY BE AVAILABLE

UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONS ARE IN INCHES.

**FOR TYPICAL PERFORMANCE DATA
FOR FRONT SECTION OF "DTC" SERIES
USE THE 'D' SERIES STANDARD CURVES**

**FOR TYPICAL PERFORMANCE DATA
FOR REAR SECTION OF "DTC" SERIES
USE THE 'C' SERIES STANDARD CURVES**

GEARTEK[®] FLUID POWER PUMPS AND MOTORS
DIVISION OF HYDRAULIC ANALYSIS, INC.



**Performance
Data**

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | PRESSURE RATINGS | | | | MAXIMUM SPEED (RPM) |
|---------------|--|--------------|-------------|------------------|-----|-------------|-----|---------------------------|
| | | | | NORMAL DUTY | | SEVERE DUTY | | |
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | PSI | BAR | PSI | BAR | |
| HD15 | .0129 | 2.98 | 48.8 | 4000 | 276 | 3800 | 262 | 2500 |
| HD20 | .0172 | 3.97 | 65.1 | 4000 | 276 | 3800 | 262 | 2500 |
| HD25 | .0215 | 4.97 | 81.4 | 4000 | 276 | 3100 | 214 | 2500 |
| HD30 | .0258 | 5.96 | 97.6 | 3300 | 228 | 2600 | 179 | 2500 |
| HD35 | .0301 | 6.95 | 113.9 | 2900 | 200 | 2300 | 159 | 2500 |
| HD40 | .0344 | 7.95 | 130.2 | 2500* | 172 | 2000 | 138 | 2500 |
| HD45 | .0387 | 8.94 | 146.5 | 2500* | 172 | 2000* | 138 | 2500 |

* CONSULT FACTORY WITH TYPE APPLICATION
PRESSURES MAY BE LIMITED TO SHAFT TYPE

CAST IRON THROUGHOUT
PRESSURES TO 4000 PSI
FLOWS TO 97 GPM
HEAVY DUTY SLEEVE TYPE BEARINGS
DOUBLE VITON[®] SHAFT SEALS STANDARD
PRESSURE COMPENSATED THRUST PLATES
DESIGNED FOR HEAVY DUTY APPLICATIONS
SINGLE AND MULTI-STAGE CONFIGURATIONS

VARIOUS SHAFT, FLANGE AND PORT OPTIONS
PRECISION GEARS MACHINED FROM SOLID BAR STOCK
COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
CONTAMINANT RESISTANT
COMPUTER DESIGNED AND MANUFACTURED
QUALITY CERTIFIED
FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
SERVICE SUPPORTED BY DEDICATION AND INVENTORY

P. O. BOX 2160, 1506 FULTON DR.
CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

1

1 1/4"-14 TOOTH SPLINE
TORQUE LIMIT 650 FT./LBS.

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.062-1.050 |

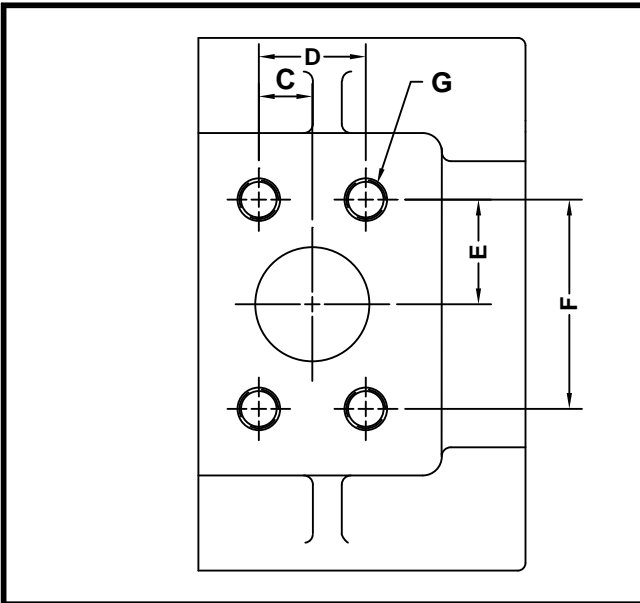
2

1" STRAIGHT
AVAILABLE ON 15 THRU 35 SIZES
TORQUE LIMIT 341 FT./LBS.

3

1 1/4" STRAIGHT
TORQUE LIMIT 650 FT./LBS.

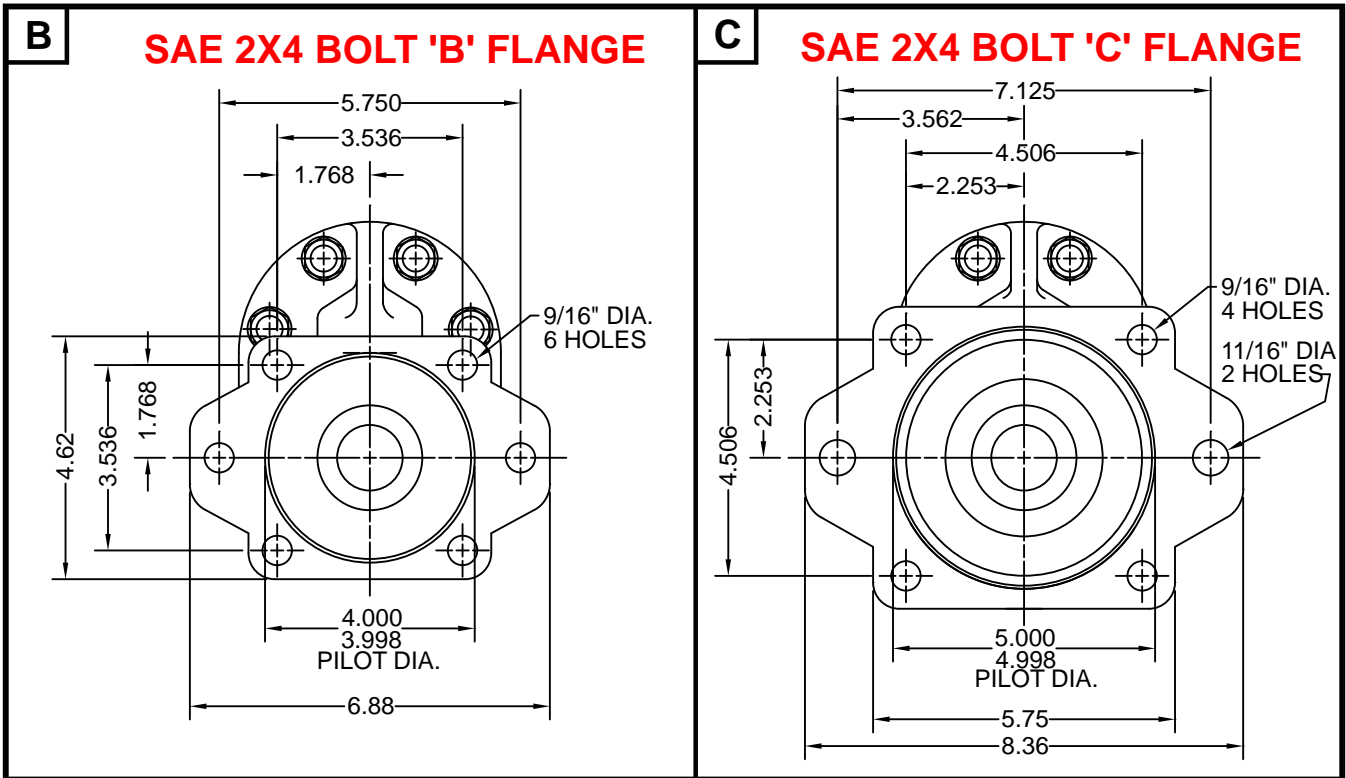
STANDARD SAE 4-BOLT CONNECTOR PORTS



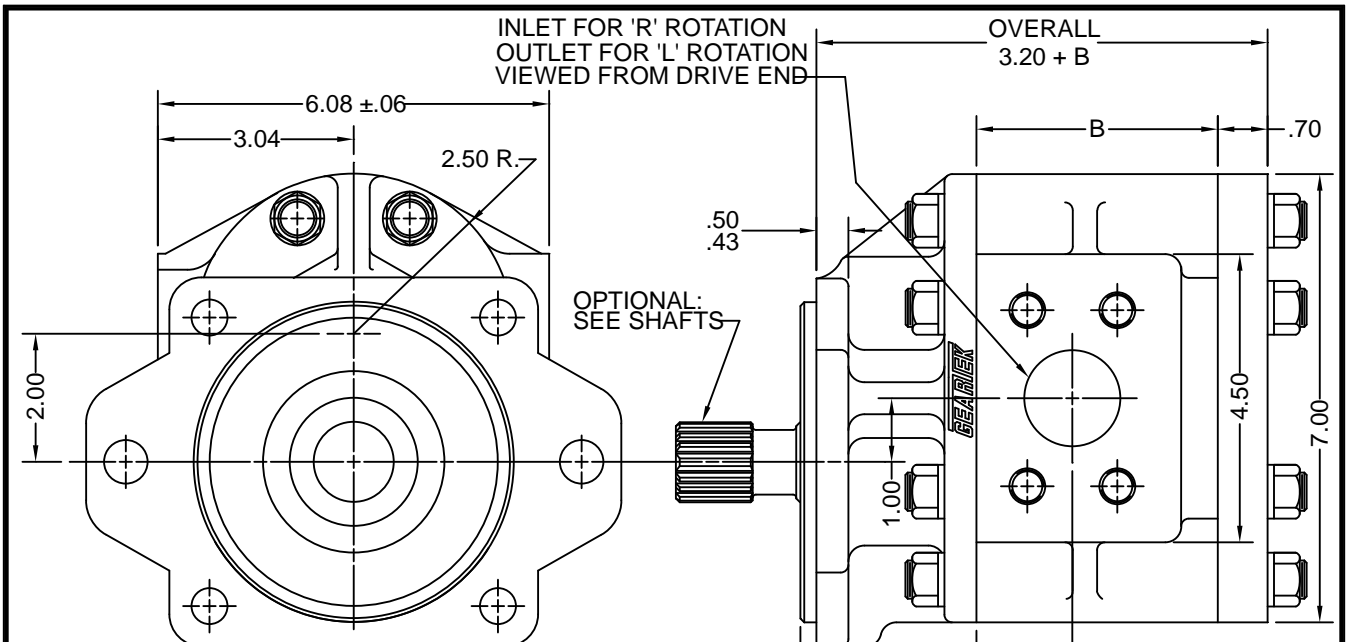
| SAE 4-BOLT CONN. PORTS | | |
|------------------------|------------|-------------|
| SIZE | INLET SIZE | OUTLET SIZE |
| HD15 | 1 1/4" | 1" |
| HD20 | 1 1/4" | 1" |
| HD25 | 1 1/2" | 1 1/4" |
| HD30 | 1 1/2" | 1 1/4" |
| HD35 | 1 1/2" | 1 1/4" |
| HD40 | 2" | 1 1/4" |
| HD45 | 2" | 1 1/4" |

| 4-BOLT CONNECTOR CHART | | | | | |
|------------------------|-----|-------|------|-------|-----------|
| SIZE | C | D | E | F | G |
| 1" | .51 | 1.031 | 1.03 | 2.062 | 3/8-16NC |
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |

FLANGES AVAILABLE



DIMENSIONAL DATA



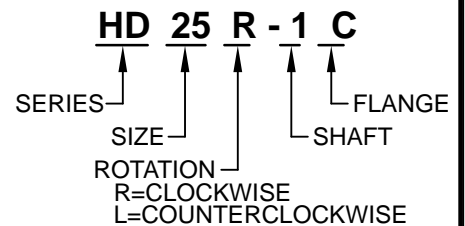
MOUNTING DIMENSIONS

| SIZE | A | B |
|------|------|------|
| HD15 | 1.25 | 3.02 |
| HD20 | 1.36 | 3.81 |
| HD25 | 1.50 | 4.09 |
| HD30 | 1.64 | 4.38 |
| HD35 | 1.85 | 4.66 |
| HD40 | 1.85 | 4.95 |
| HD45 | 2.16 | 5.23 |

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

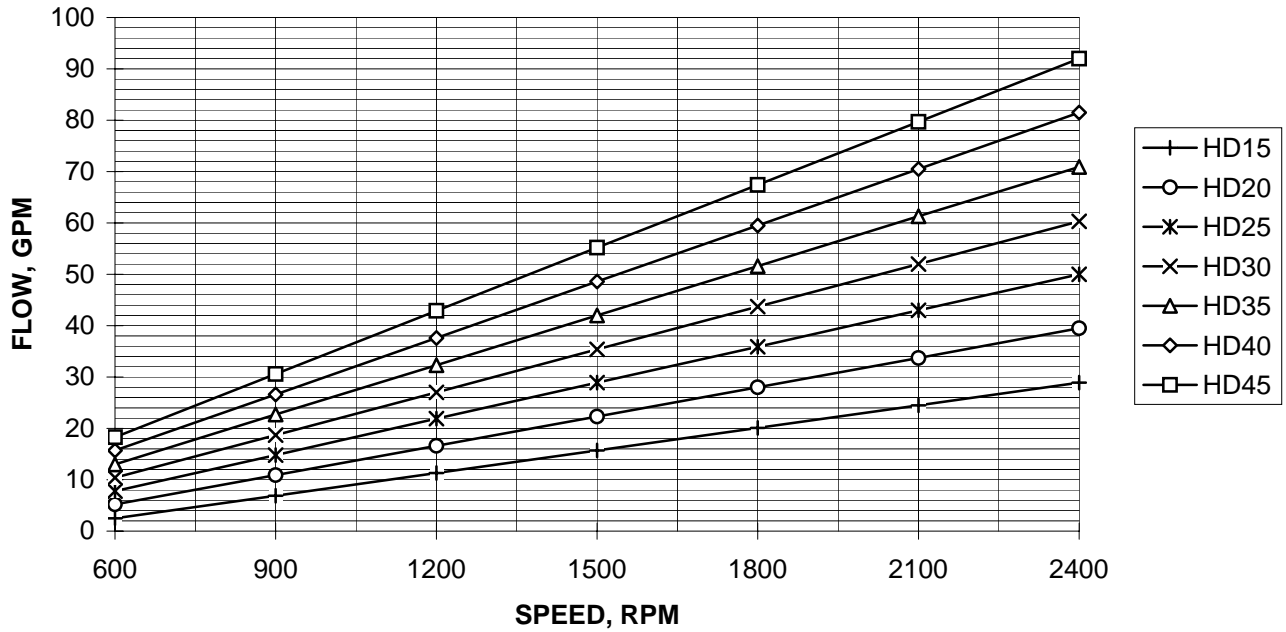
OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

MODEL EXAMPLE

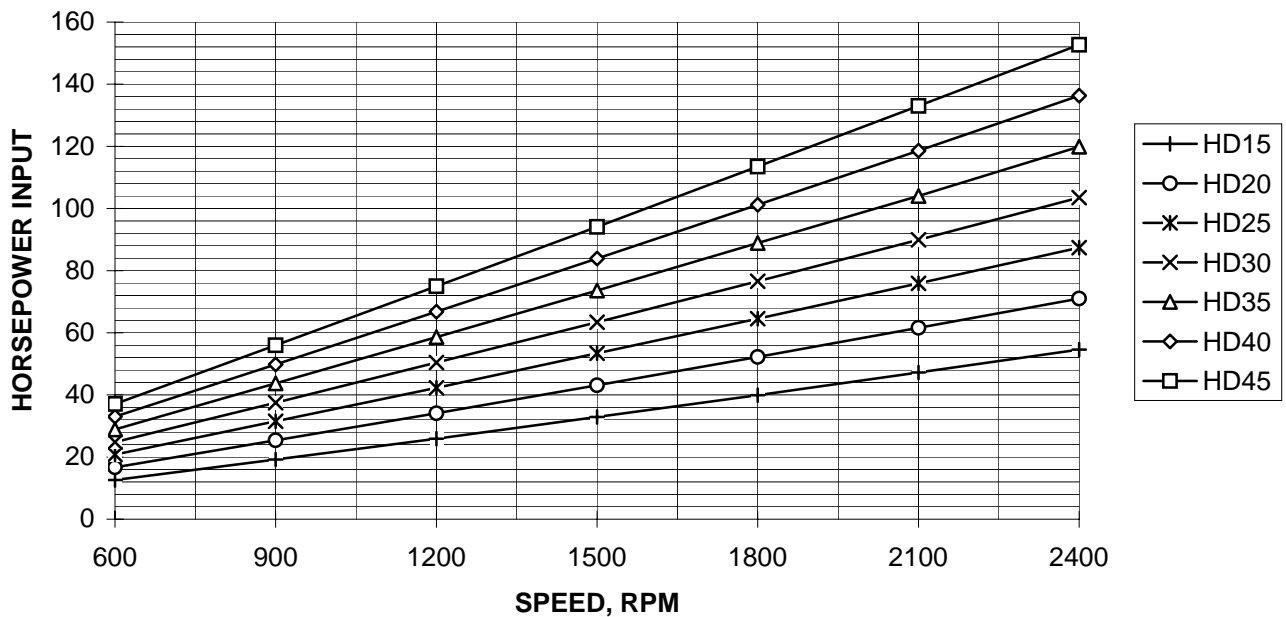


TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

HD SERIES PUMP FLOW OUTPUT @ 2500 PSI - SAE 10W OIL
@ 150 DEGREES FAHRENHEIT



'HD' SERIES PUMP HORSEPOWER IN @ 2500 PSI

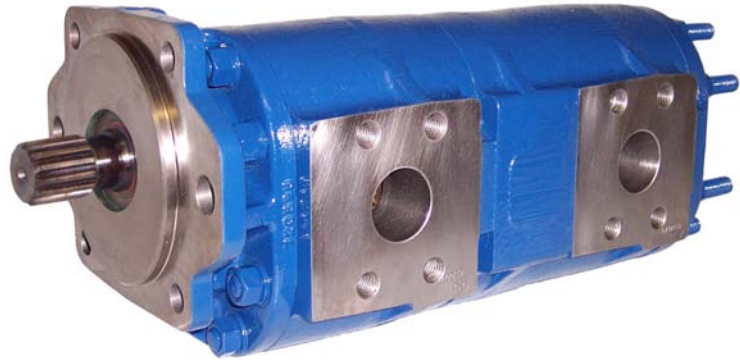




HYDRAULIC GEAR PUMPS AND MOTORS

'HD' Series

2 SECTION PUMP



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | PRESSURE RATINGS | | | | | | | | MAXIMUM SPEED (RPM) |
|---------------|--|--------------|-------------|------------------|-----|-------------|-----|--------------|-----|-------------|-----|---------------------------|
| | | | | FRONT SECTION | | | | REAR SECTION | | | | |
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | NORMAL DUTY | | SEVERE DUTY | | NORMAL DUTY | | SEVERE DUTY | | |
| | | | | PSI | BAR | PSI | BAR | PSI | BAR | PSI | BAR | |
| HD15 | .0129 | 2.98 | 48.8 | 4000 | 276 | 3800 | 262 | 4000 | 276 | 3800 | 262 | 2500 |
| HD20 | .0172 | 3.97 | 65.1 | 4000 | 276 | 3800 | 262 | 4000 | 276 | 3300 | 228 | 2500 |
| HD25 | .0215 | 4.97 | 81.4 | 4000 | 276 | 3100 | 214 | 3300 | 228 | 2600 | 179 | 2500 |
| HD30 | .0258 | 5.96 | 97.6 | 3300 | 228 | 2600 | 179 | 2900 | 200 | 2200 | 152 | 2500 |
| HD35 | .0301 | 6.95 | 113.9 | 2900 | 200 | 2300 | 159 | 2500* | 172 | 2000* | 138 | 2500 |
| HD40 | .0344 | 7.95 | 130.2 | 2500* | 172 | 2000 | 138 | 2500* | 172 | 2000* | 138 | 2500 |
| HD45 | .0387 | 8.94 | 146.5 | 2500* | 172 | 2000* | 138 | 2500* | 172 | 2000* | 138 | 2500 |

* CONSULT FACTORY WITH TYPE APPLICATION
PRESSURES MAY BE LIMITED TO SHAFT TYPE

CAST IRON THROUGHOUT
PRESSURES TO 4000 PSI
FLOWS TO 97 GPM
HEAVY DUTY SLEEVE TYPE BEARINGS
DOUBLE VITON® SHAFT SEALS STANDARD
PRESSURE COMPENSATED THRUST PLATES
DESIGNED FOR HEAVY DUTY APPLICATIONS
SINGLE AND MULTI-STAGE CONFIGURATIONS

VARIOUS SHAFT, FLANGE AND PORT OPTIONS
PRECISION GEARS MACHINED FROM SOLID BAR STOCK
COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
CONTAMINANT RESISTANT
COMPUTER DESIGNED AND MANUFACTURED
QUALITY CERTIFIED
FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
SERVICE SUPPORTED BY DEDICATION AND INVENTORY

P. O. BOX 2160, 1506 FULTON DR.
CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

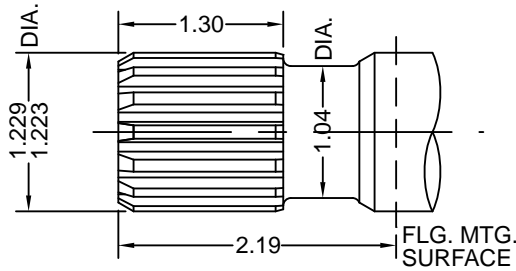
SHAFTS AVAILABLE

1

1 1/4"-14 TOOTH SPLINE TORQUE LIMIT 650 FT./LBS.

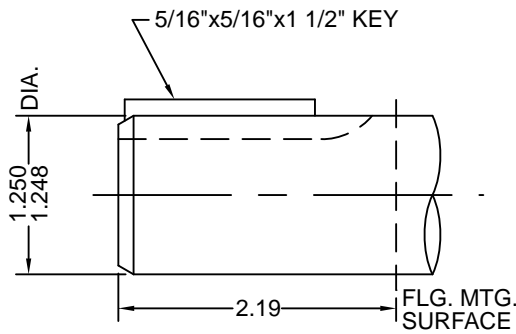
SPLINE DATA

| | |
|-------------------|-------------|
| DIAMETRICAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.062-1.050 |

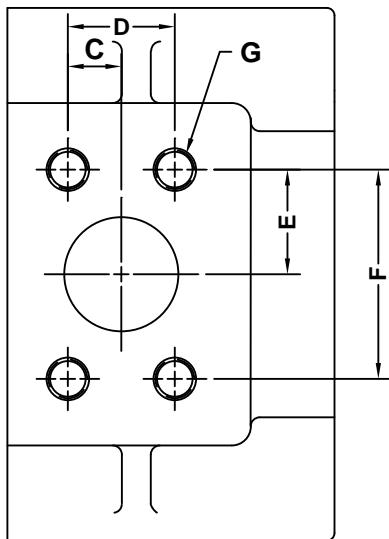


3

1 1/4" STRAIGHT TORQUE LIMIT 650 FT./LBS.



STANDARD SAE 4-BOLT CONNECTOR PORTS



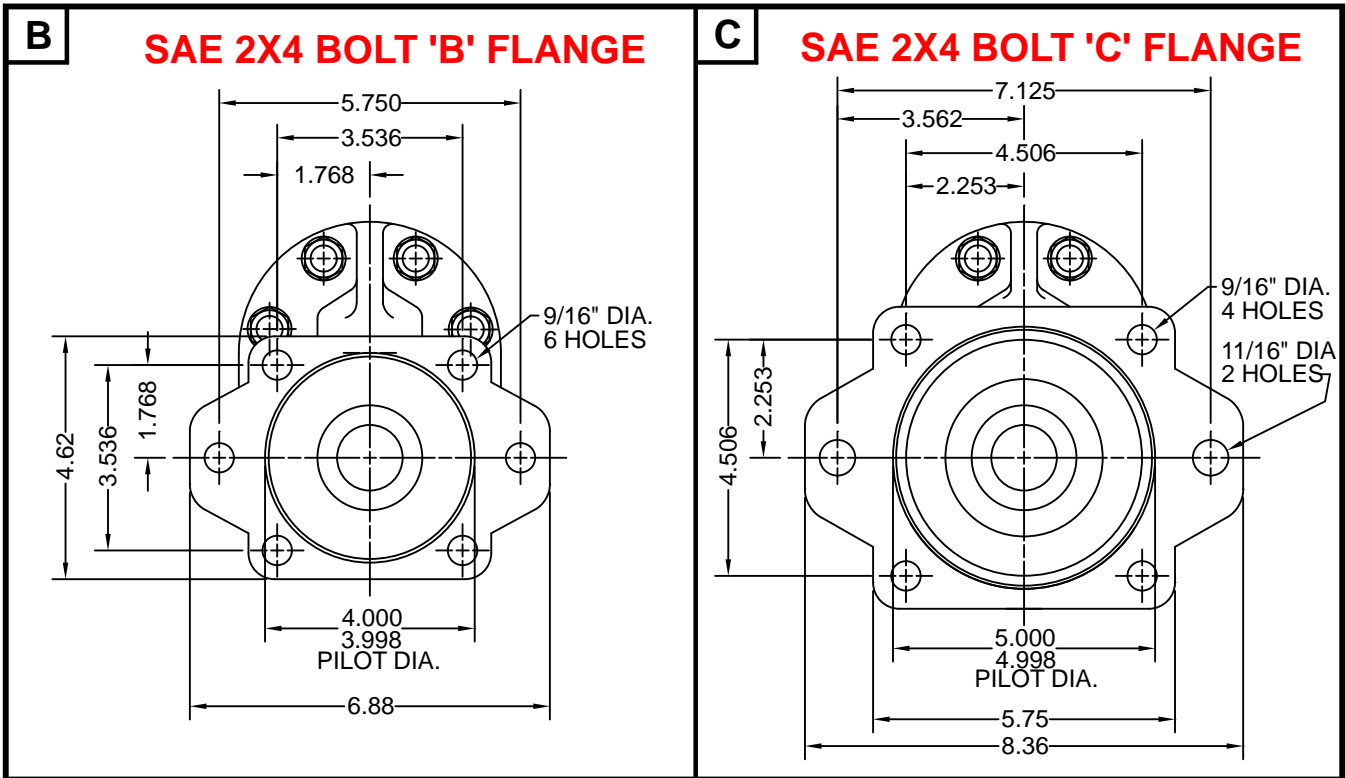
SAE 4-BOLT CONN. PORTS

| SIZE | INLET SIZE | OUTLET SIZE |
|------|------------|-------------|
| HD15 | 1 1/4" | 1" |
| HD20 | 1 1/4" | 1" |
| HD25 | 1 1/2" | 1 1/4" |
| HD30 | 1 1/2" | 1 1/4" |
| HD35 | 1 1/2" | 1 1/4" |
| HD40 | 2" | 1 1/4" |
| HD45 | 2" | 1 1/4" |

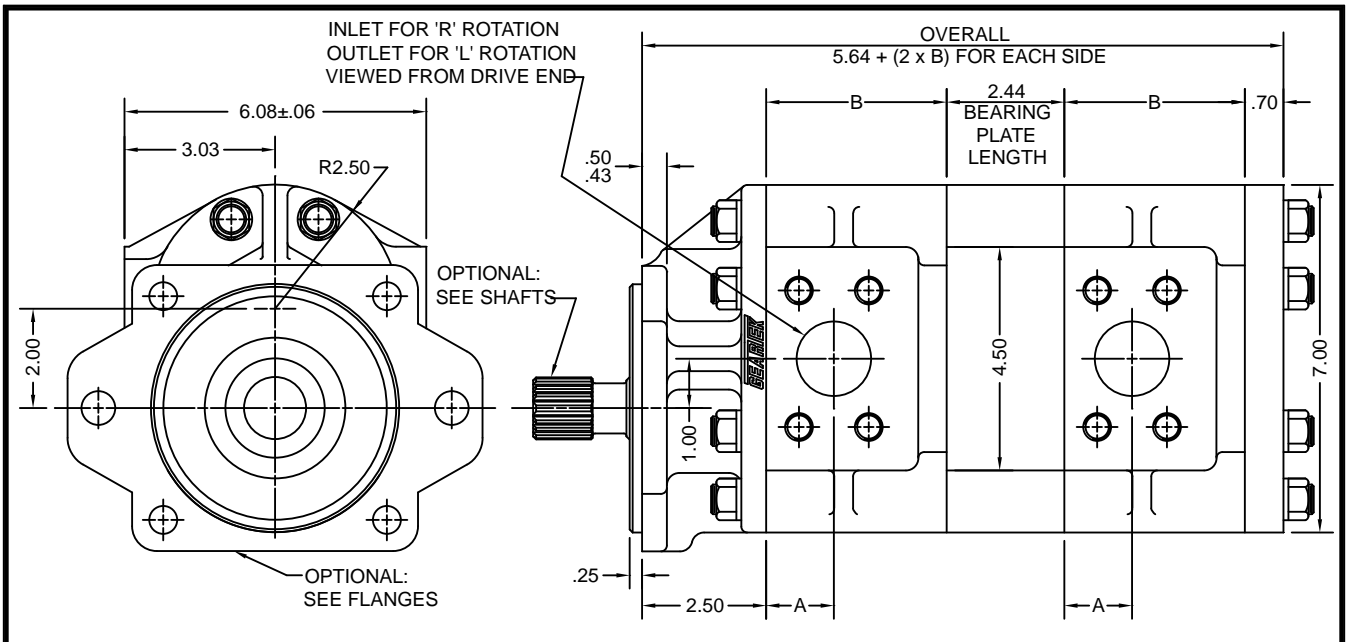
4-BOLT CONNECTOR CHART

| SIZE | C | D | E | F | G |
|--------|-----|-------|------|-------|-----------|
| 1" | .51 | 1.031 | 1.03 | 2.062 | 3/8-16NC |
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |

FLANGES AVAILABLE



DIMENSIONAL DATA



MOUNTING DIMENSIONS

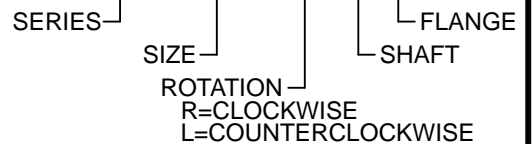
| SIZE | A | B |
|------|------|------|
| HD15 | 1.25 | 3.02 |
| HD20 | 1.36 | 3.81 |
| HD25 | 1.50 | 4.09 |
| HD30 | 1.64 | 4.38 |
| HD35 | 1.85 | 4.66 |
| HD40 | 1.85 | 4.95 |
| HD45 | 2.16 | 5.23 |

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

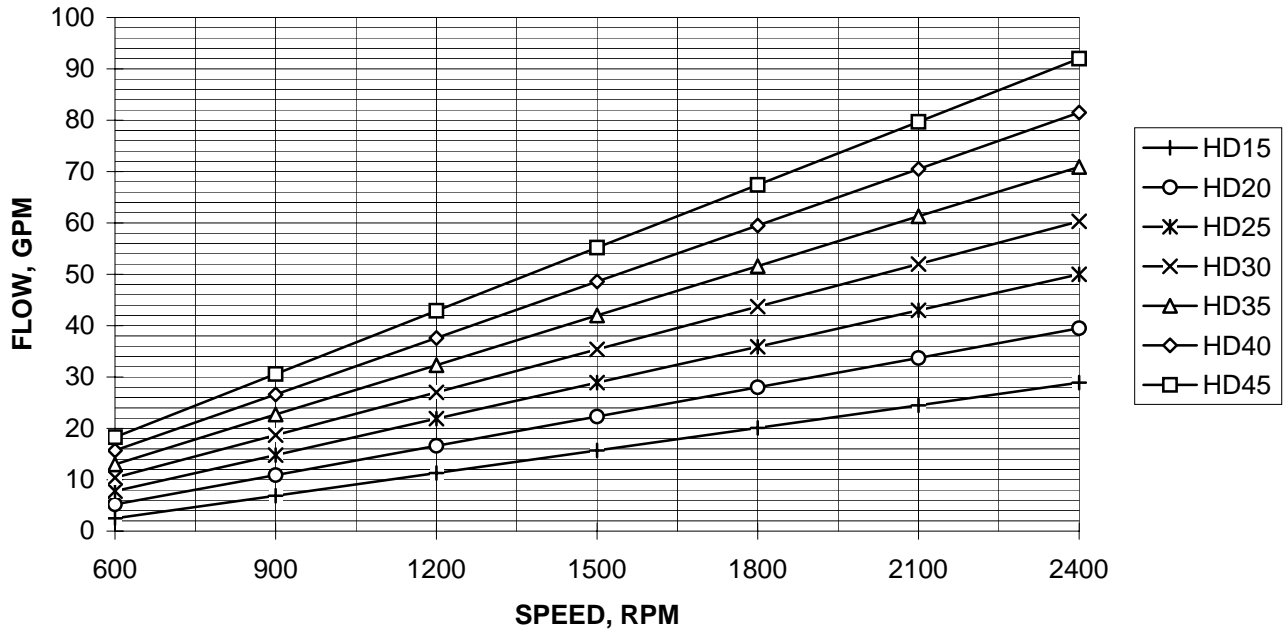
MODEL EXAMPLE

HD 25 - 25 R - 1 C

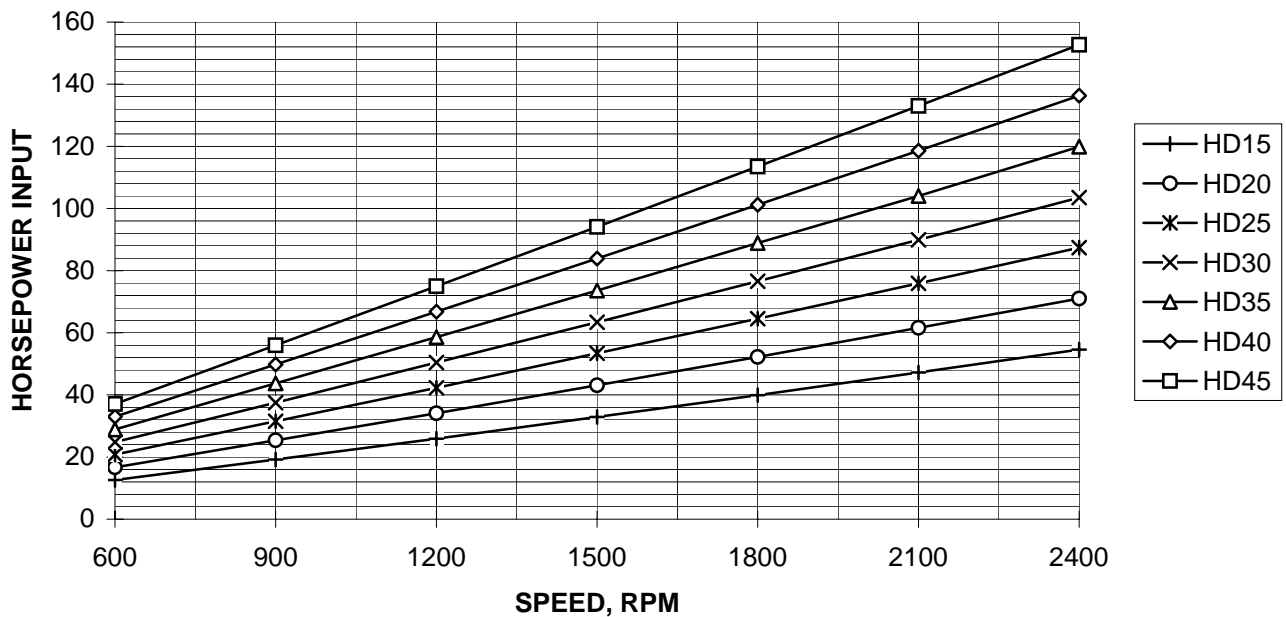


TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

**HD SERIES PUMP FLOW OUTPUT @ 2500 PSI - SAE 10W OIL
 @ 150 DEGREES FAHRENHEIT**



'HD' SERIES PUMP HORSEPOWER IN @ 2500 PSI





HYDRAULIC GEAR PUMPS AND MOTORS

'HDB' Series

PIGGY-BACK



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | PRESSURE RATINGS | | | | MAXIMUM SPEED (RPM) |
|------------|---------------------------------------|--------------|-------------|------------------|-----|-------------|-----|---------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | NORMAL DUTY | | SEVERE DUTY | | |
| | | | | PSI | BAR | PSI | BAR | |
| HDB15 | .0129 | 2.98 | 48.8 | 4000 | 276 | 3800 | 262 | 2500 |
| HDB20 | .0172 | 3.97 | 65.1 | 4000 | 276 | 3800 | 262 | 2500 |
| HDB25 | .0215 | 4.97 | 81.4 | 4000 | 276 | 3100 | 214 | 2500 |
| HDB30 | .0258 | 5.96 | 97.6 | 3300 | 228 | 2600 | 179 | 2500 |
| HDB35 | .0301 | 6.95 | 113.9 | 2900 | 200 | 2300 | 160 | 2500 |
| HDB40 | .0344 | 7.95 | 130.2 | 2500* | 172 | 2000 | 138 | 2500 |
| HDB45 | .0387 | 8.94 | 146.5 | 2500* | 172 | 2000* | 138 | 2500 |

* CONSULT FACTORY WITH TYPE APPLICATION PRESSURES MAY BE LIMITED TO SHAFT TYPE

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 97 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

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CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

| | |
|---|---|
| <p>1 1 1/4"-14 TOOTH SPLINE TORQUE LIMIT 650 FT/LBS SPLINE DATA DIAMETRAL PITCH 12/24 PRESSURE ANGLE 30° NO. OF TEETH 14 MINOR DIA. 1.062-1.050</p> | <p>3 1 1/4" STRAIGHT TORQUE LIMIT 650 FT/LBS</p> |
|---|---|

REAR COUPLINGS AVAILABLE

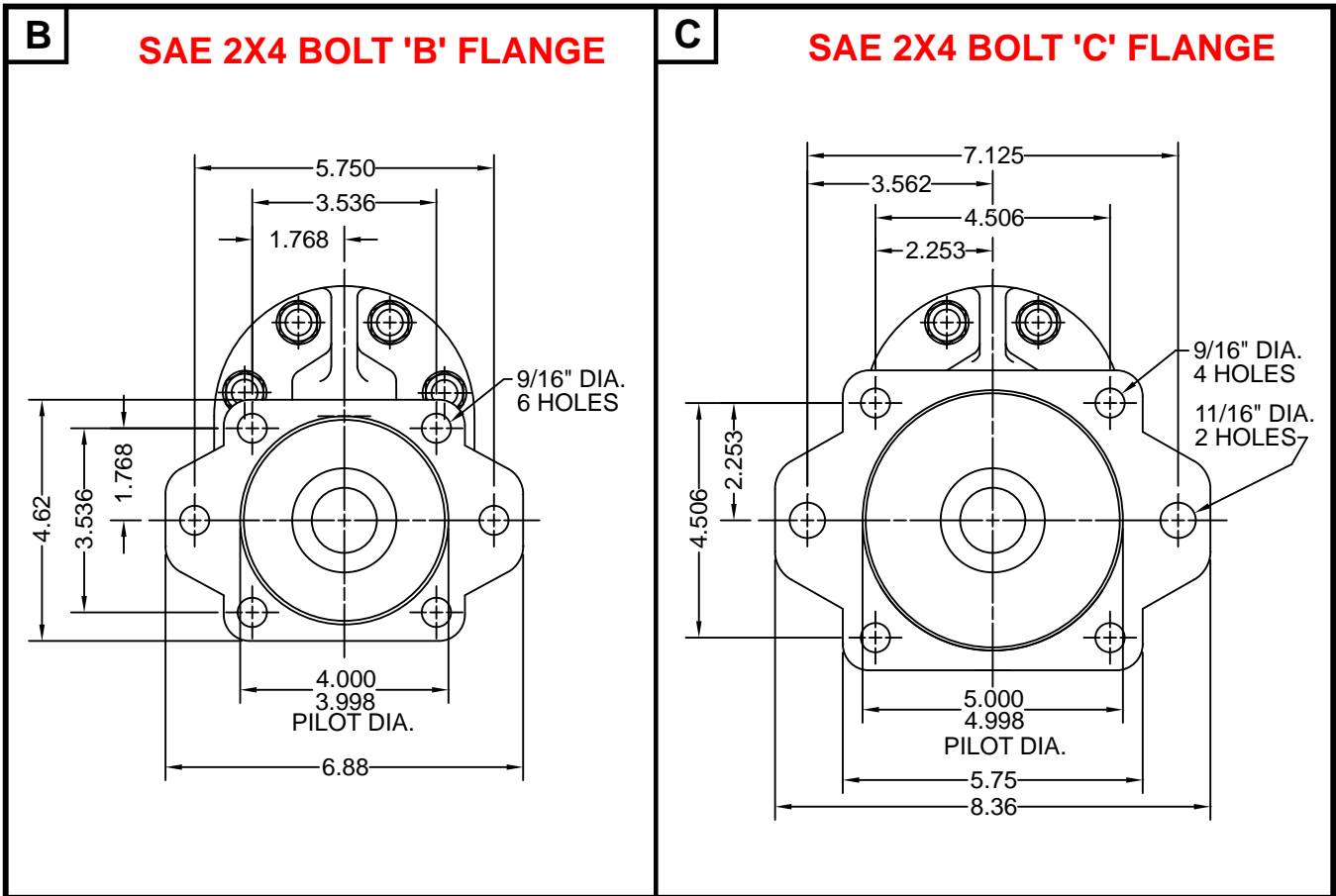
| | |
|---|---|
| <p>78 7/8"-13 TOOTH INTERNAL SPLINE SEE INSTRUCTION SHEET 110102 WHEN MOUNTING GEARTEK 'D/HD' ON REAR</p> <p>INTERNAL SPLINE DATE DIAMETRAL PITCH 16/32 PRESSURE ANGLE 30° NO. OF TEETH 13 MAJOR DIA. .901-.906 MINOR DIA. .754-.759 SPACE WIDTH .1008-.1035</p> | <p>58 5/8"-9 TOOTH INTERNAL SPLINE</p> <p>INTERNAL SPLINE DATE DIAMETRAL PITCH 16/32 PRESSURE ANGLE 30° NO. OF TEETH 9 MAJOR DIA. .680-.690 MINOR DIA. .500-.510 SPACE WIDTH .1008-.1035</p> |
|---|---|

STANDARD SAE 4-BOLT CONNECTOR PORTS

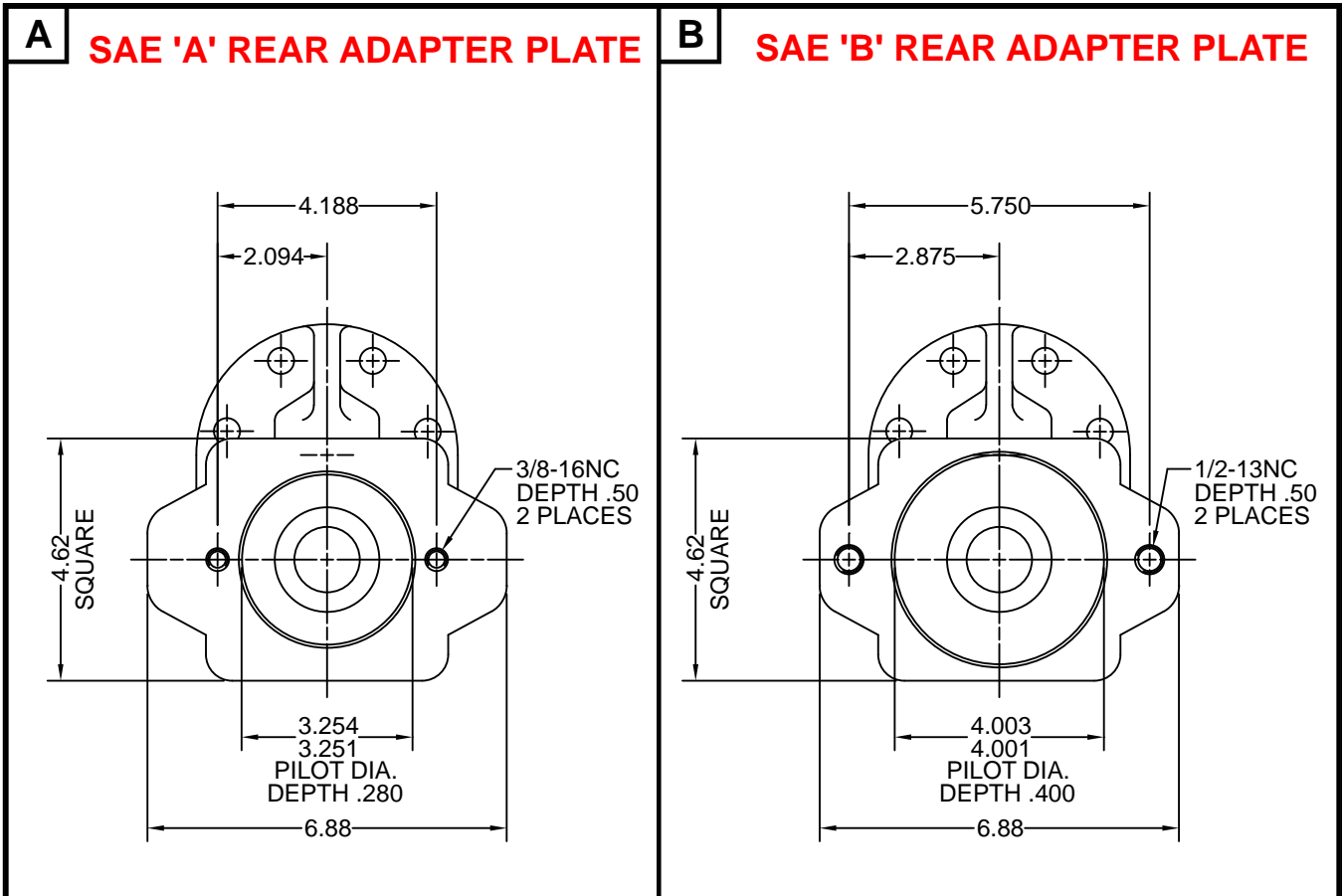
| SAE 4-BOLT CONN. PORTS | | |
|------------------------|------------|-------------|
| SIZE | INLET SIZE | OUTLET SIZE |
| DB15 | 1 1/4" | 1" |
| DB20 | 1 1/4" | 1" |
| DB25 | 1 1/2" | 1 1/4" |
| DB30 | 1 1/2" | 1 1/4" |
| DB35 | 1 1/2" | 1 1/4" |
| DB40 | 2" | 1 1/4" |
| DB45 | 2" | 1 1/4" |

| 4-BOLT CONNECTOR CHART | | | | | |
|------------------------|-----|-------|------|-------|-----------|
| SIZE | C | D | E | F | G |
| 1" | .51 | 1.031 | 1.03 | 2.062 | 3/8-16NC |
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |

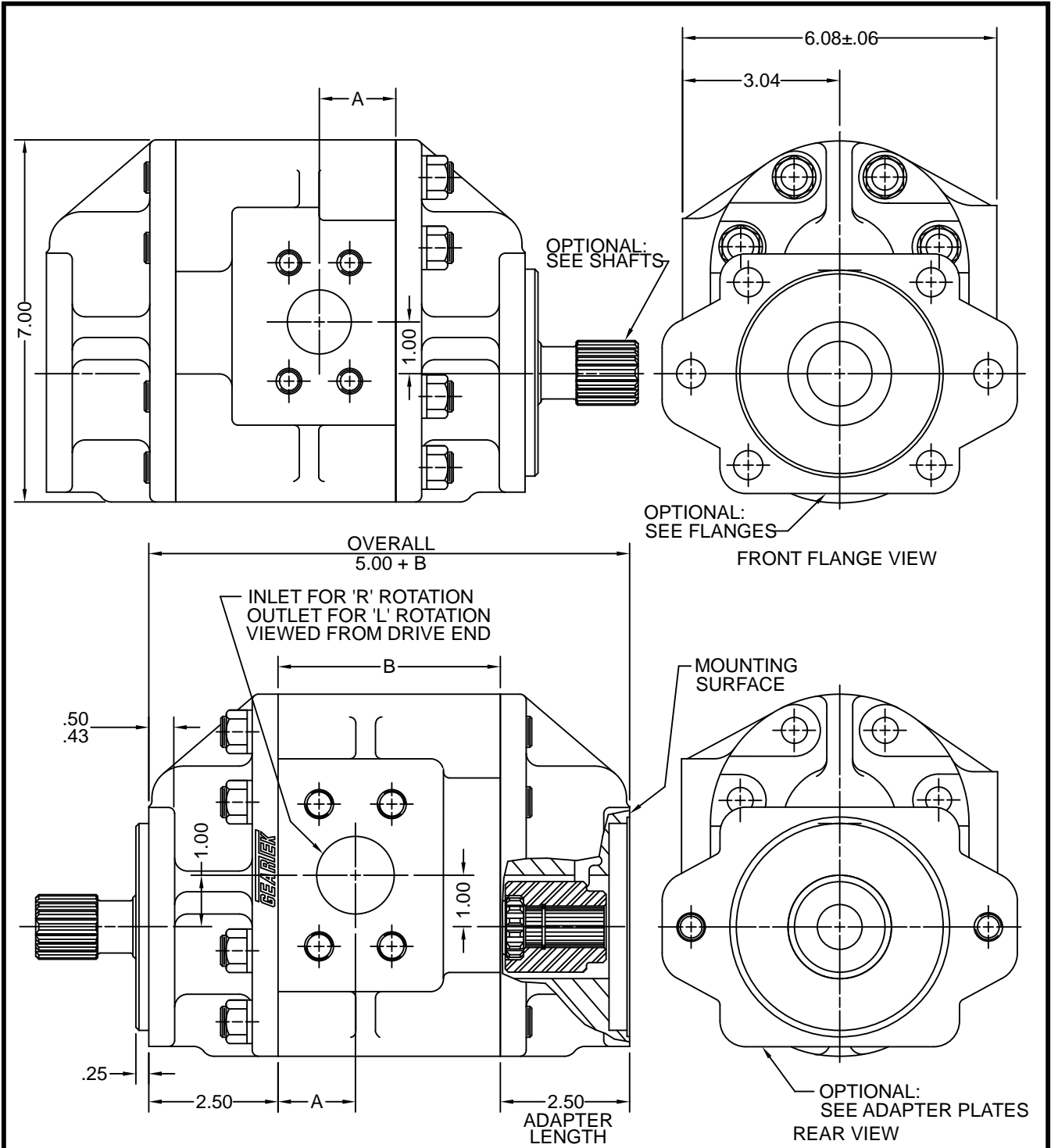
FLANGES AVAILABLE



REAR ADAPTERS AVAILABLE



DIMENSIONAL DATA



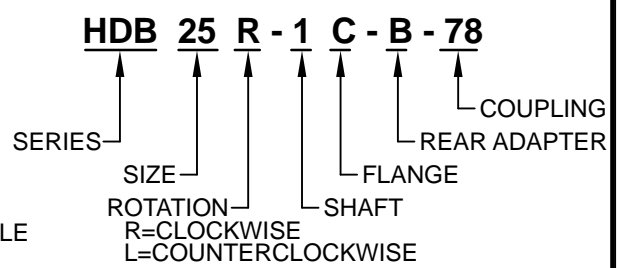
MOUNTING DIMENSIONS

| SIZE | A | B |
|-------|------|------|
| HDB15 | 1.25 | 3.02 |
| HDB20 | 1.36 | 3.81 |
| HDB25 | 1.50 | 4.09 |
| HDB30 | 1.64 | 4.38 |
| HDB35 | 1.85 | 4.66 |
| HDB40 | 1.85 | 4.95 |
| HDB45 | 2.16 | 5.23 |

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

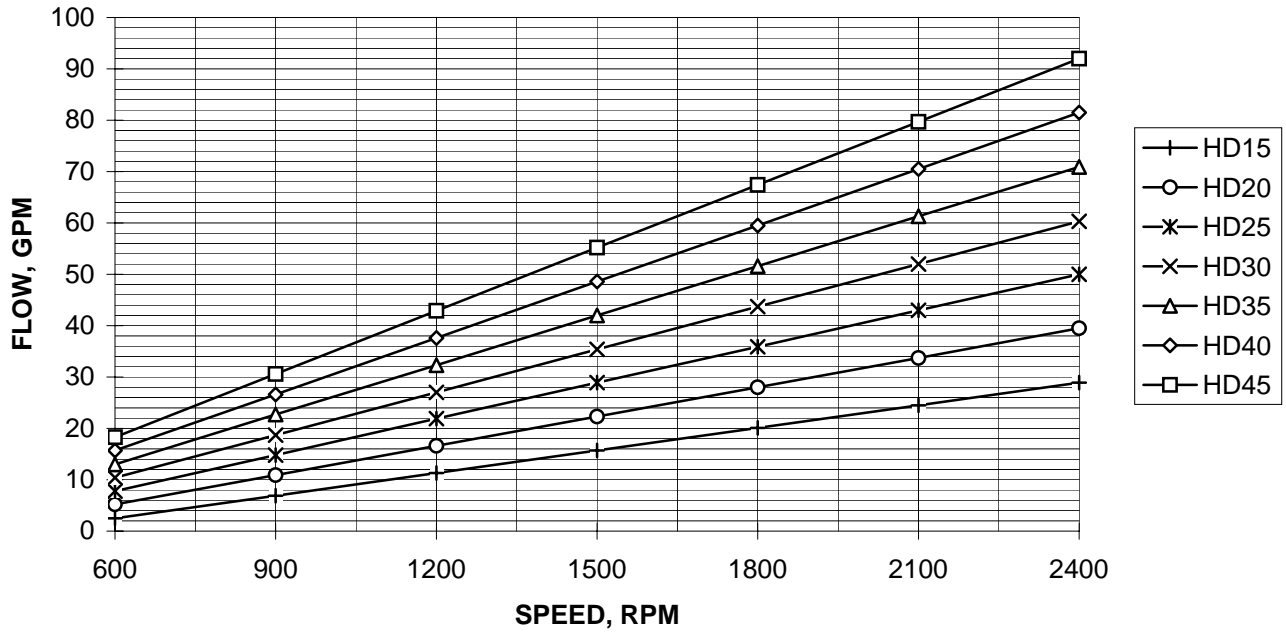
OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

MODEL EXAMPLE

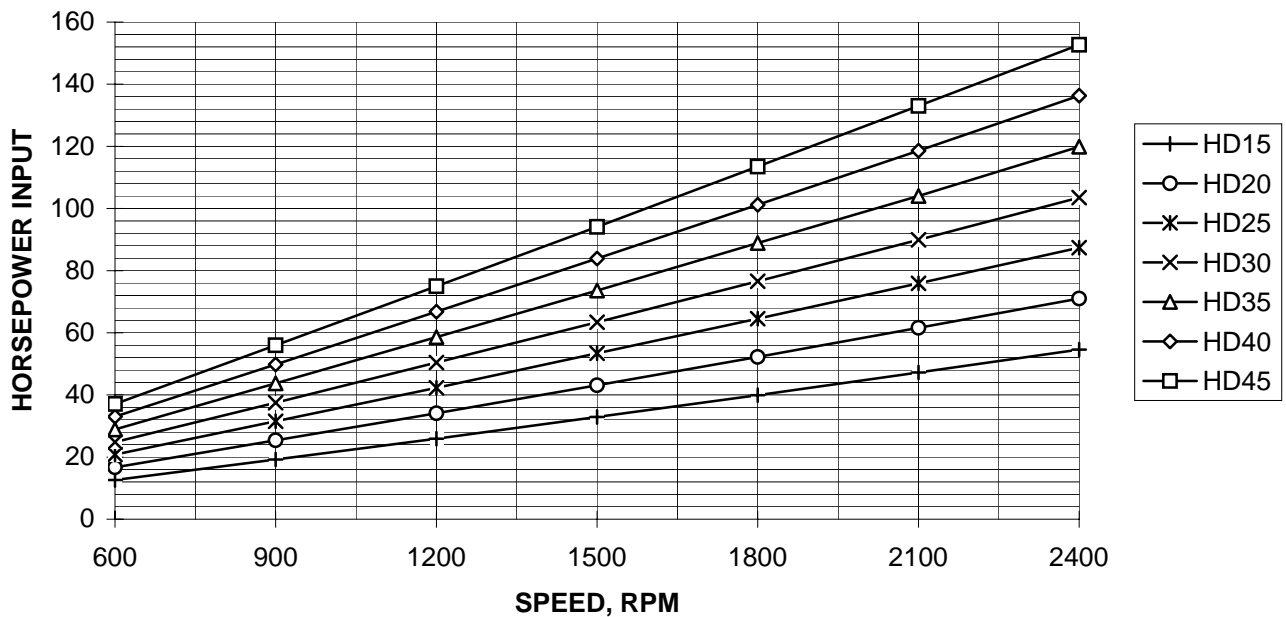


TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

**HD SERIES PUMP FLOW OUTPUT @ 2500 PSI - SAE 10W OIL
 @ 150 DEGREES FAHRENHEIT**



'HD' SERIES PUMP HORSEPOWER IN @ 2500 PSI



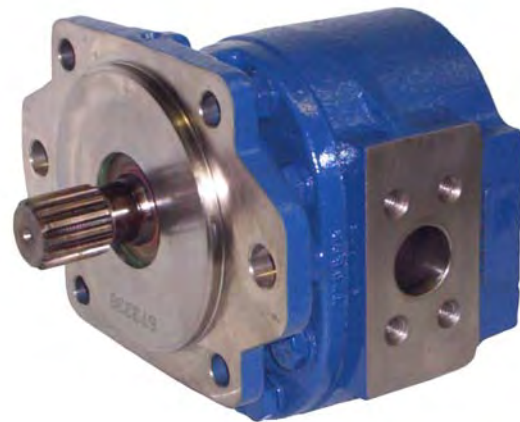


HYDRAULIC GEAR PUMPS AND MOTORS

'MD/RD' Series

SINGLE MOTOR

SINGLE REVERSIBLE PUMP



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | | PUMPS | MOTORS | | | |
|------------|---------------------------------------|--------------|-------------|----------|-------|---------------|-------------------------|-----|---------------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | MAX. RPM | | MAX. PRESSURE | IN-LB TORQUE @ 2500 PSI | | HP @ 2500 RPM 2500 PSI |
| | | | | | PSI | START | RUN | PSI | |
| 15 | .0129 | 2.98 | 48.8 | 2500 | 2500 | 680 | 1050 | 38 | 2500 |
| 20 | .0172 | 3.97 | 65.1 | 2500 | 2500 | 960 | 1430 | 50 | 2500 |
| 25 | .0215 | 4.97 | 81.4 | 2500 | 2500 | 1240 | 1810 | 64 | 2500 |
| 30 | .0258 | 5.96 | 97.6 | 2500 | 2500 | 1520 | 2181 | 74 | 2500 |
| 35 | .0301 | 6.95 | 113.9 | 2500 | 2500 | 1800 | 2561 | 90 | 2500 |
| 40 | .0344 | 7.95 | 130.2 | 2500 | 2500 | 2050 | 2940 | 105 | 2500 |
| 45 | .0387 | 8.94 | 146.5 | 2500 | 2500 | 2350 | 3320 | 124 | 2500 |

* CONSULT FACTORY WITH TYPE APPLICATION
PRESSURES MAY BE LIMITED TO SHAFT TYPE

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 97 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
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CORINTH, MISSISSIPPI 38835

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SHAFTS AVAILABLE

1

1 1/4"-14 TOOTH SPLINE
TORQUE LIMIT 650 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.062-1.050 |

1.229 DIA.
1.223
1.30
1.04 DIA.
2.19
FLG. MTG. SURFACE

2

1" STRAIGHT
AVAILABLE ON 15 THRU 35 SIZES
TORQUE LIMIT 341 FT/LBS

1/4"x1/4"x1 1/2" KEY
2.25
.999 DIA.
.998
2.56
FLG. MTG. SURFACE

3

1 1/4" STRAIGHT
TORQUE LIMIT 650 FT/LBS

5/16"x5/16"x1 1/2" KEY
1.250 DIA.
1.248
2.19
FLG. MTG. SURFACE

4

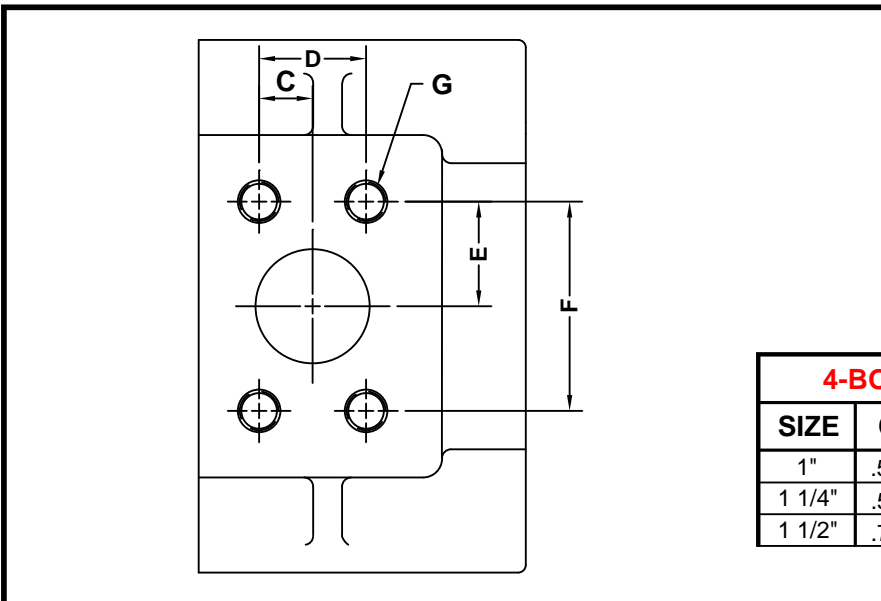
7/8"-13 TOOTH SPLINE
AVAILABLE ON 15 THRU 35 SIZES
TORQUE LIMIT 184 FT/LBS

SPLINE DATA

| | |
|-----------------|-----------|
| DIAMETRAL PITCH | 16/32 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 13 |
| MINOR DIA. | .733-.722 |

.8585 DIA.
.8535
1.05 FULL SPLINE
1.62
FLG. MTG. SURFACE

STANDARD SAE 4-BOLT CONNECTOR PORTS



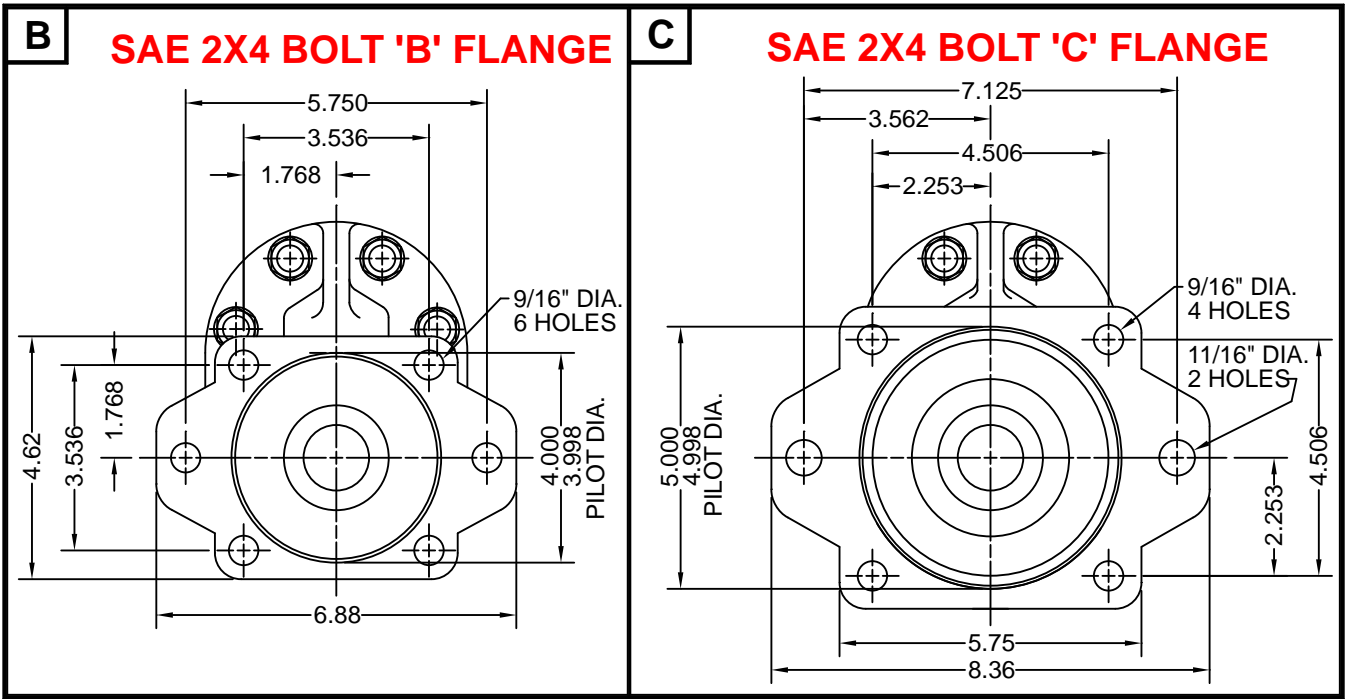
SAE 4-BOLT CONN. PORTS

| SIZE | INLET SIZE | OUTLET SIZE |
|------|------------|-------------|
| 15 | 1" | 1" |
| 20 | 1" | 1" |
| 25 | 1 1/4" | 1 1/4" |
| 30 | 1 1/4" | 1 1/4" |
| 35 | 1 1/2" | 1 1/2" |
| 40 | 1 1/2" | 1 1/2" |
| 45 | 1 1/2" | 1 1/2" |

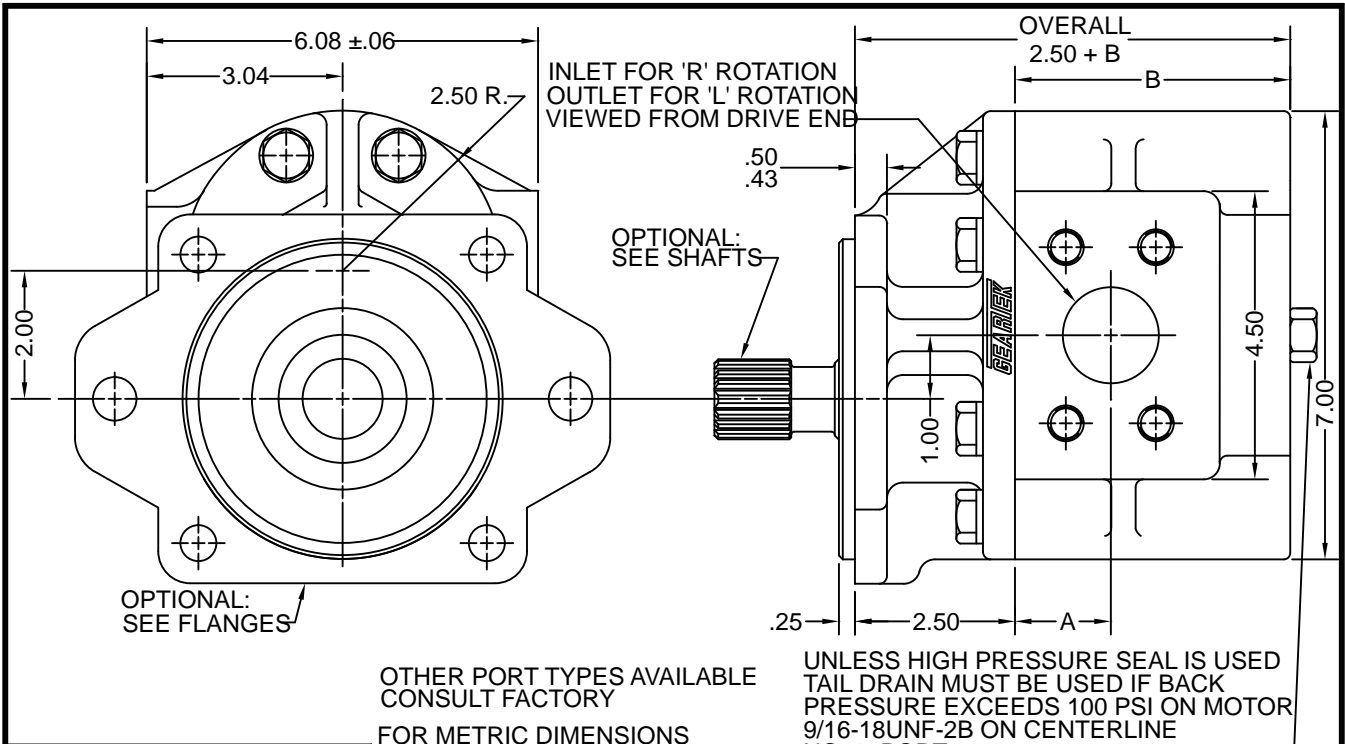
4-BOLT CONNECTOR CHART

| SIZE | C | D | E | F | G |
|--------|-----|-------|------|-------|-----------|
| 1" | .51 | 1.031 | 1.03 | 2.062 | 3/8-16NC |
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |

FLANGES AVAILABLE



DIMENSIONAL DATA



MOUNTING DIMENSIONS

| SIZE | A | B |
|------|------|------|
| 15 | 1.25 | 3.62 |
| 20 | 1.36 | 3.89 |
| 25 | 1.50 | 4.18 |
| 30 | 1.64 | 4.45 |
| 35 | 1.85 | 4.75 |
| 40 | 1.85 | 5.04 |
| 45 | 2.16 | 5.32 |

OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

PUMP MODEL EXAMPLE **MOTOR MODEL EXAMPLE**

RD 25 - 1 C **MD X 25 - 1 C**

REVERSIBLE PUMP BI-DIRECTIONAL MOTOR

SIZE FLANGE FLANGE

SHAFT SHAFT

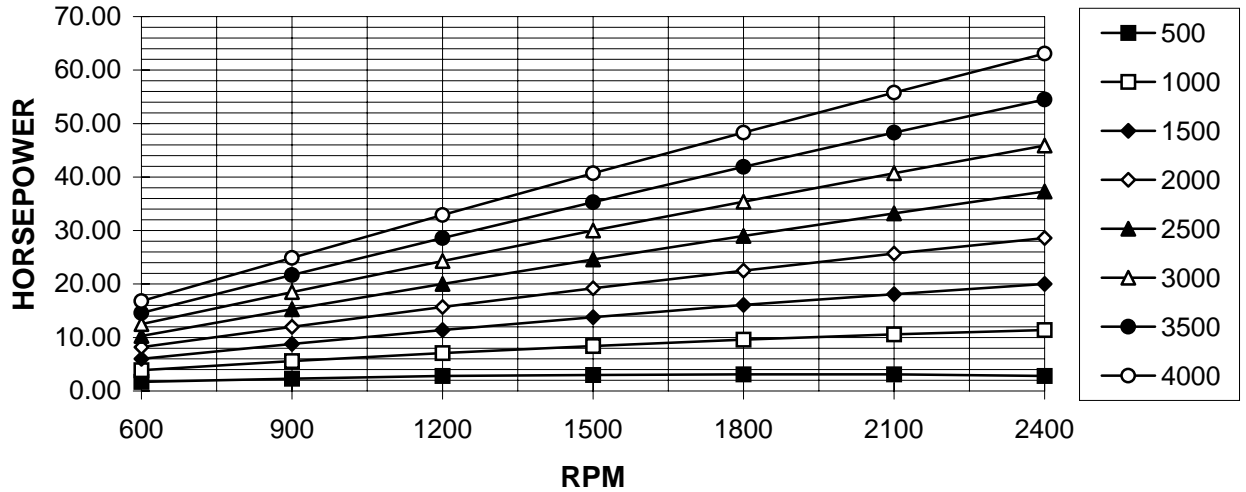
OPTIONAL: SPECIFY CODE 'H' THIS AREA FOR HIGH PRESSURE SEAL OTHERWISE: LEAVE BLANK

* THE OPTIONAL HIGH PRESSURE SEAL MAY BE USED WHEN DRAIN LINES ARE NOT PRACTICAL. FOR SYSTEMS TOLERATING A DRAIN LINE, ELIMINATE THE 'H' FROM THE MODEL CODE.

GEARTEK MD15 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

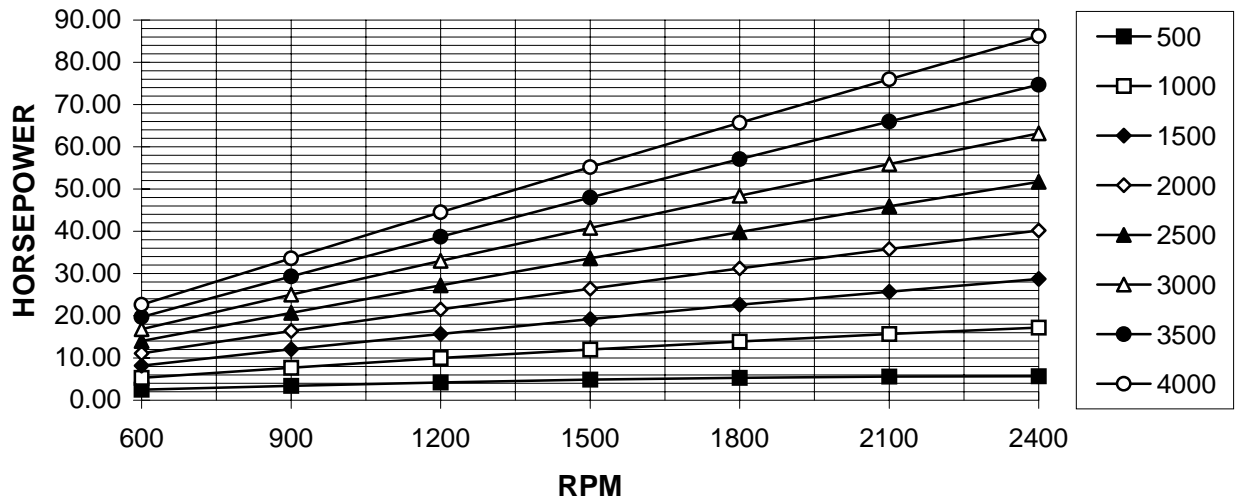
(Typical)



GEARTEK MD20 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

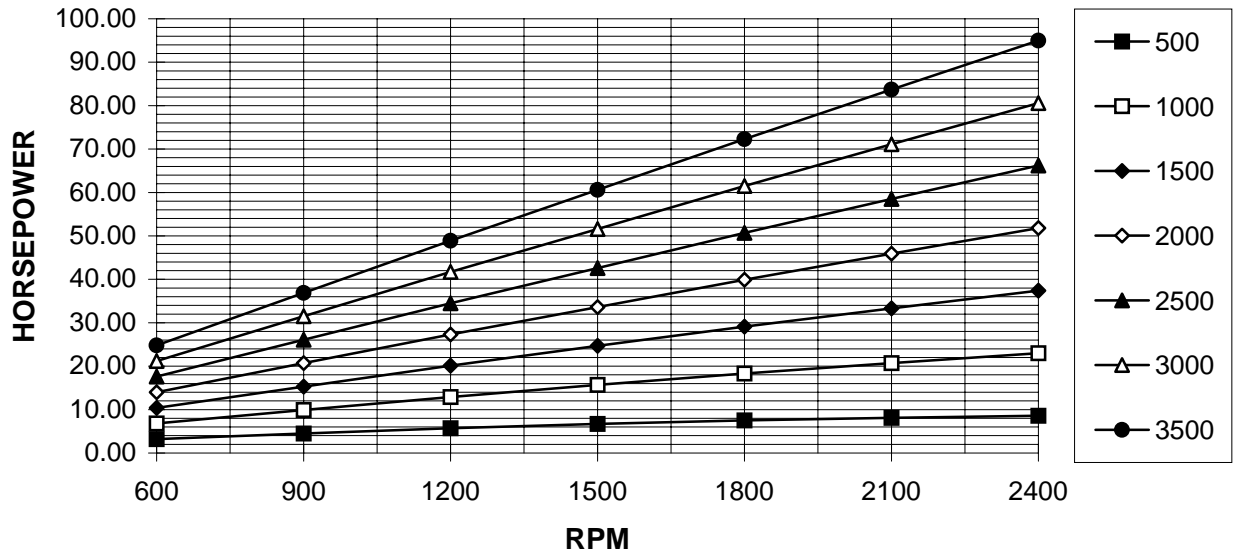
(Typical)



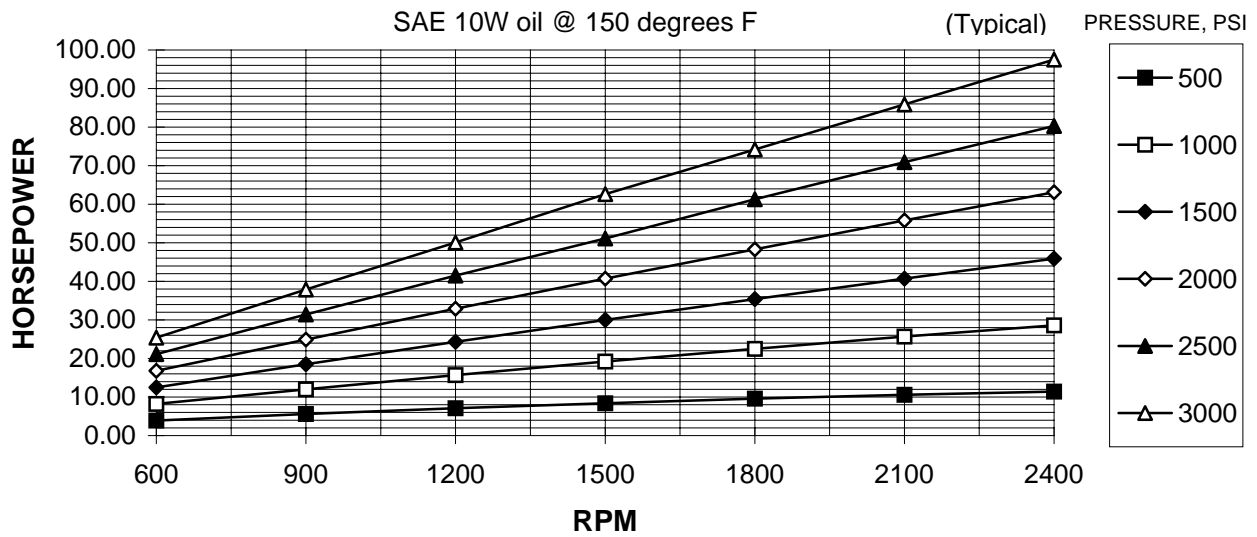
GEARTEK MD25 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

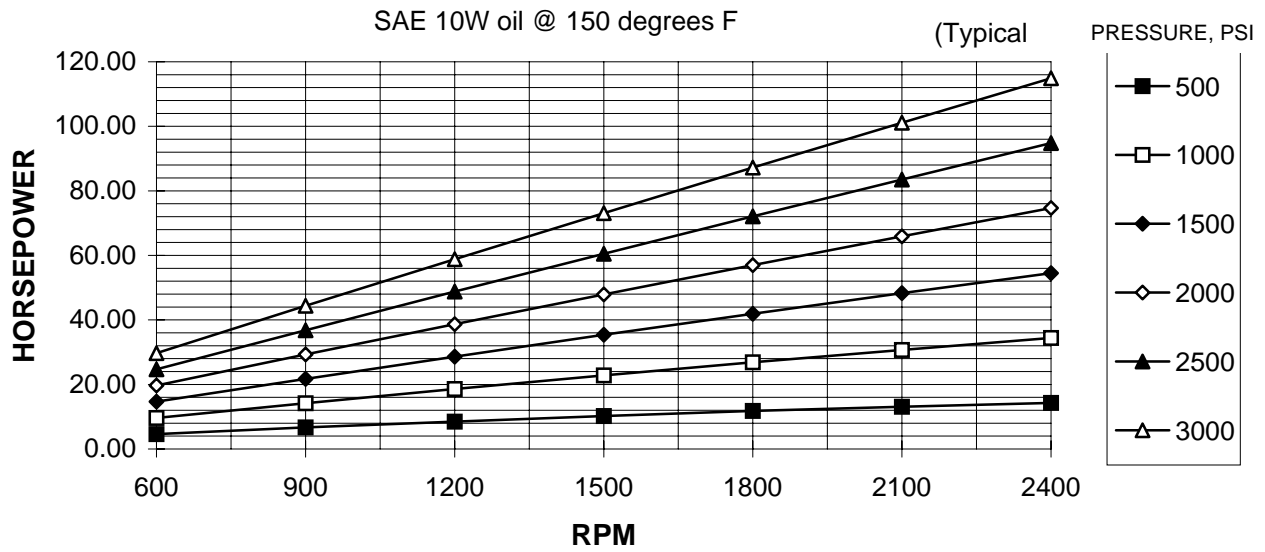
(Typical)



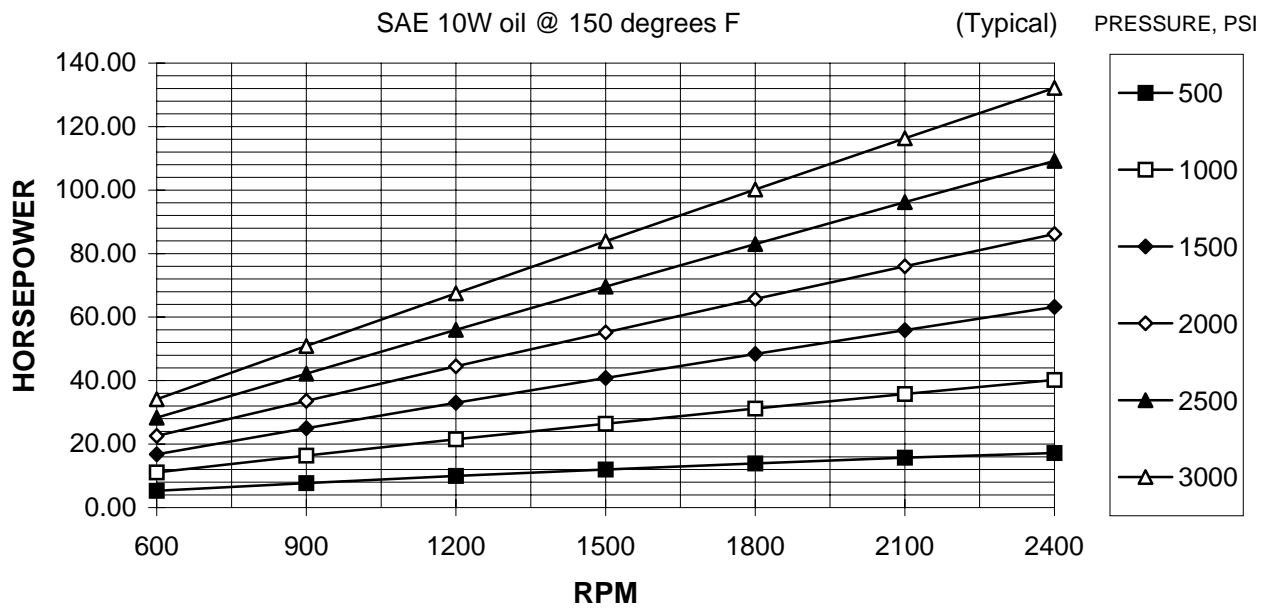
GEARTEK MD30 MOTOR PERFORMANCE



GEARTEK MD35 MOTOR PERFORMANCE



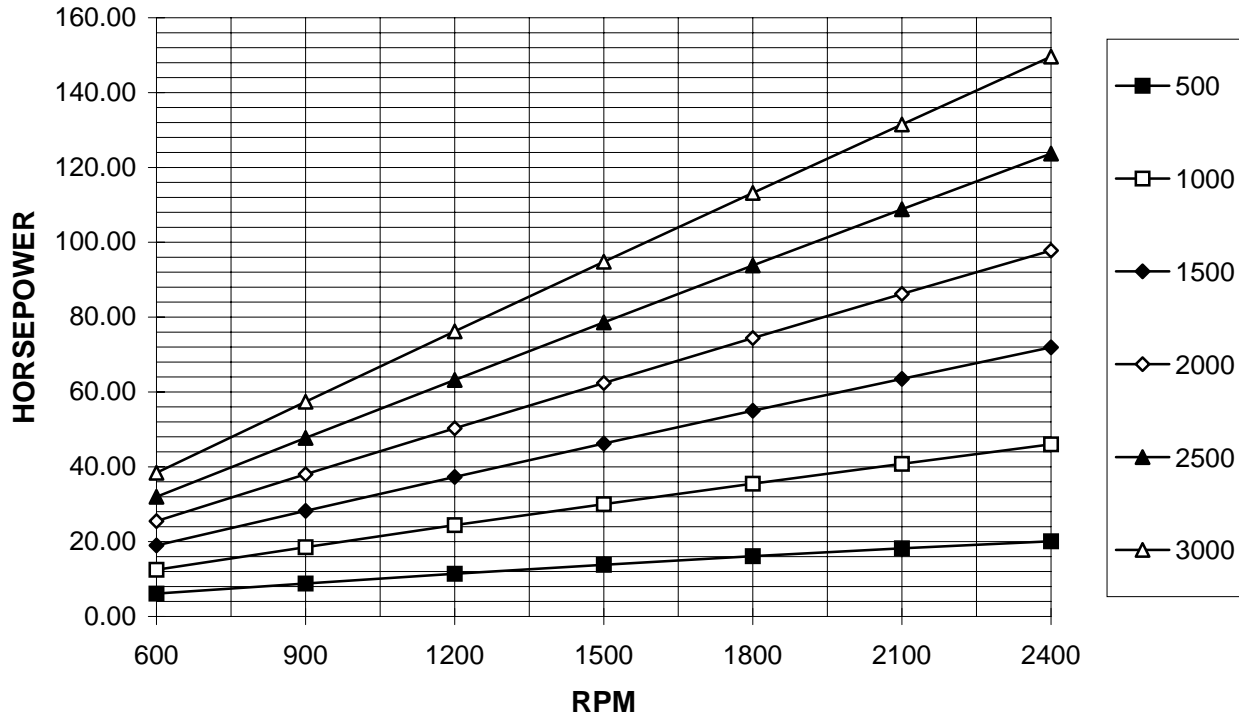
GEARTEK MD40 MOTOR PERFORMANCE



GEARTEK MD45 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

(Typical) PRESSURE, PSI



GEARTEK® FLUID POWER PUMPS AND MOTORS
DIVISION OF HYDRAULIC ANALYSIS, INC.



'SMD' Series

GEARTEK 'SMD' TWO SPEED MOTOR

Geartek two-speed motors consist of two hydraulic gear motor units with built in shift valving. Either, high speed or high torque can be obtained, thereby improving the efficiency of winch drives, track drives, hydrostatic transmissions and other drive applications.

The internal valving controls input flow through both gear sets for low speed-high torque mode, or controls the input flow through the front section only to provide high speed-low torque mode. Displacements of each section can be mixed relative to one another to give ideal application speed and torques between high and low modes.

Advantages of these units are:

Optional automatic kick-down valve, adjustable 400-3000 psi. Unit stays in high-speed mode until preset pressure is reached. After shifting into low-speed mode, the unit shifts automatically back to high-speed mode when input flow is stopped.

Optional extreme high pressure seal, which eliminates required case drain line. (Model becomes SMDH)

Compact envelope size, designed for limited space requirements

Standard shift by remote hydraulic pilot line to tank pressure. No external pressure required. Merely opening or closing pilot port to tank shifts motor.

TWO SPEED MOTOR

COMPACT SIZE

AUTOMATIC DOWNSHIFT OPTION

HYDRAULIC SHIFT ON THE GO



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | | MOTORS | | | |
|------------|---------------------------------------|--------------|-------------|------------|-------------------------|------|------------------------|-------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | MAX. * RPM | IN-LB TORQUE @ 2500 PSI | | HP @ 2500 RPM 2500 PSI | MAX. PRESSURE PSI |
| | | | | | START | RUN | | |
| SMD15 | .0129 | 2.98 | 48.8 | 2500 | 680 | 1050 | 38 | 3300 |
| SMD20 | .0172 | 3.97 | 65.1 | 2500 | 960 | 1430 | 50 | 3300 |
| SMD25 | .0215 | 4.97 | 81.4 | 2500 | 1240 | 1810 | 64 | 3300 |
| SMD30 | .0258 | 5.96 | 97.6 | 2500 | 1520 | 2181 | 74 | 3100 |
| SMD35 | .0301 | 6.95 | 113.9 | 2500 | 1800 | 2561 | 90 | 3000 |
| SMD40 | .0344 | 7.95 | 130.2 | 2500 | 2050 | 2940 | 105 | 3000 |
| SMD45 | .0387 | 8.94 | 146.5 | 2500 | 2350 | 3320 | 124 | 2700 |

* CONSULT FACTORY WITH TYPE APPLICATION

- CAST IRON
- PRESSURES TO 3300 PSI
- FLOWS TO 97 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- HIGH PRESSURE VITON® SHAFT SEALS
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

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CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

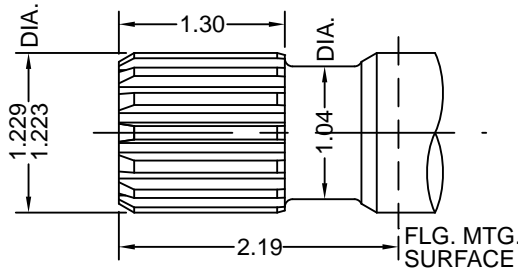
1

1 1/4"-14 TOOTH SPLINE

TORQUE LIMIT 650 FT/LBS

SPLINE DATA

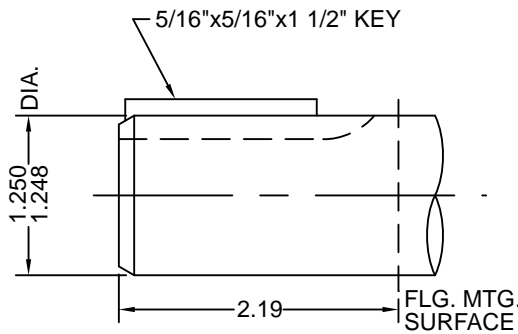
| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.062-1.050 |



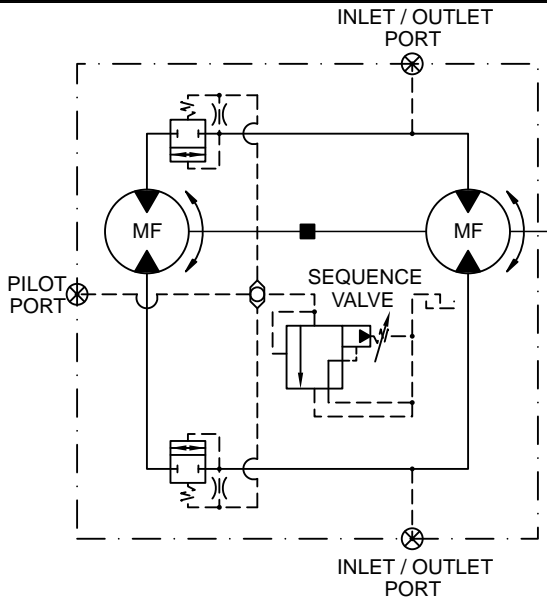
3

1 1/4" STRAIGHT

TORQUE LIMIT 650 FT/LBS

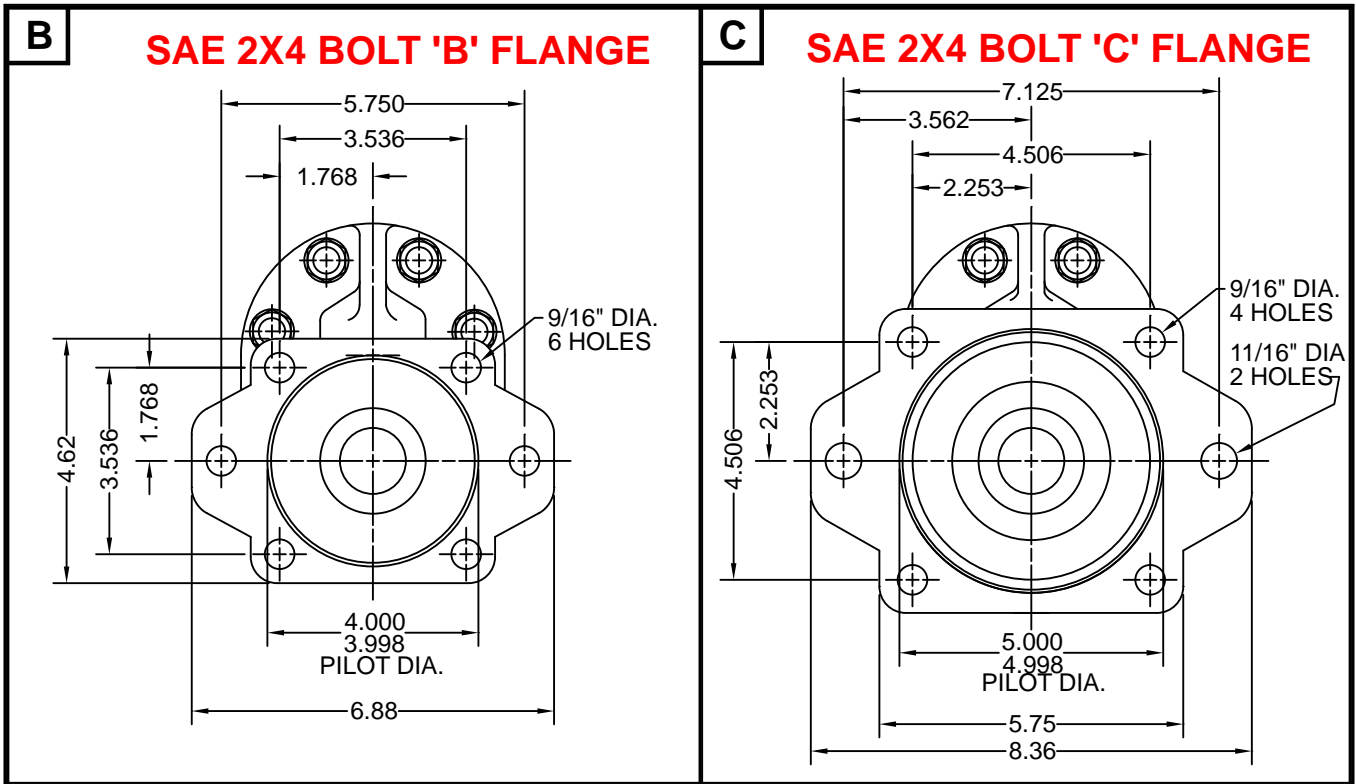


SCHEMATIC

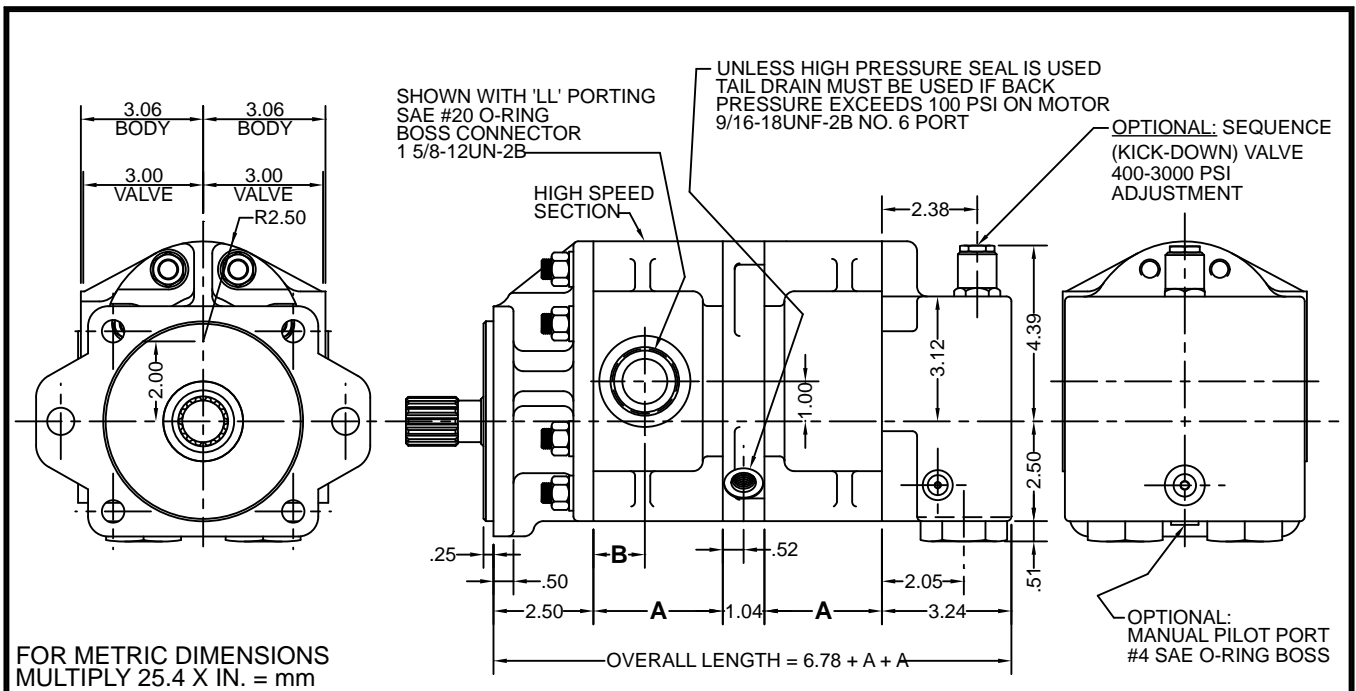


SCHEMATIC SHOWN WITH
SEQUENCE VALVE

FLANGES AVAILABLE



DIMENSIONAL DATA



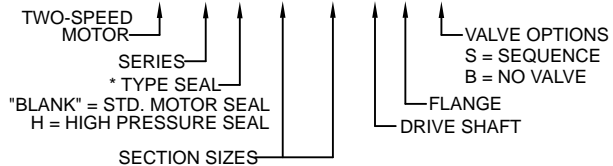
FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

| MOUNTING DIMENSIONS | | |
|---------------------|------|------|
| SIZE | A | B |
| SMD15 | 3.02 | 1.25 |
| SMD20 | 3.31 | 1.36 |
| SMD25 | 3.59 | 1.50 |
| SMD30 | 3.87 | 1.64 |
| SMD35 | 4.16 | 1.85 |
| SMD40 | 4.49 | 1.85 |
| SMD45 | 4.73 | 2.16 |

BI-ROTATIONAL
OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

MODEL EXAMPLE

SM D H 25-25-1 C-S-TT

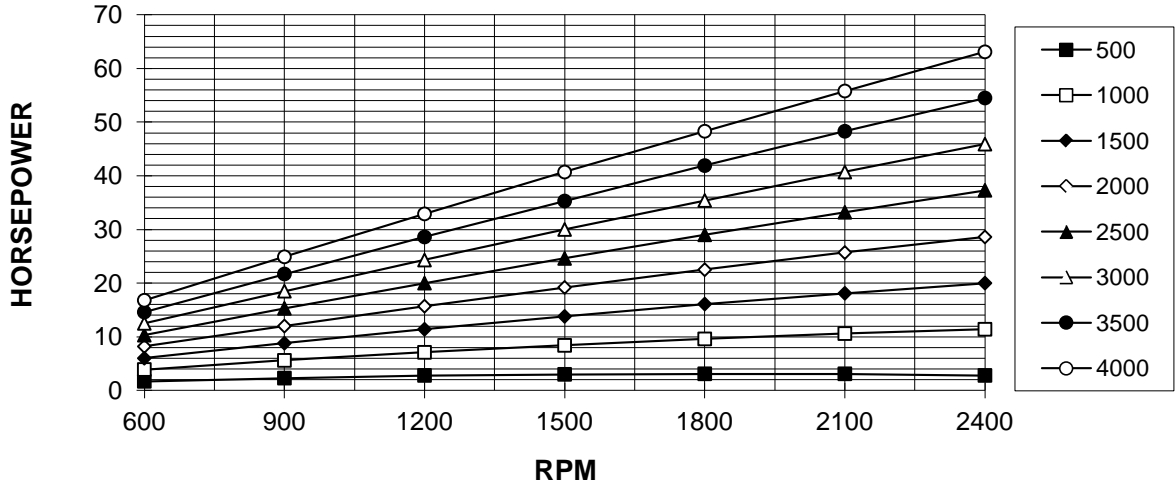


* THE OPTIONAL HIGH PRESSURE SEAL MAY BE USED WHEN DRAIN LINES ARE NOT PRACTICAL.
FOR SYSTEMS TOLERATING A DRAIN LINE, ELIMINATE THE 'H' FROM THE MODEL CODE.

GEARTEK SMD15 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

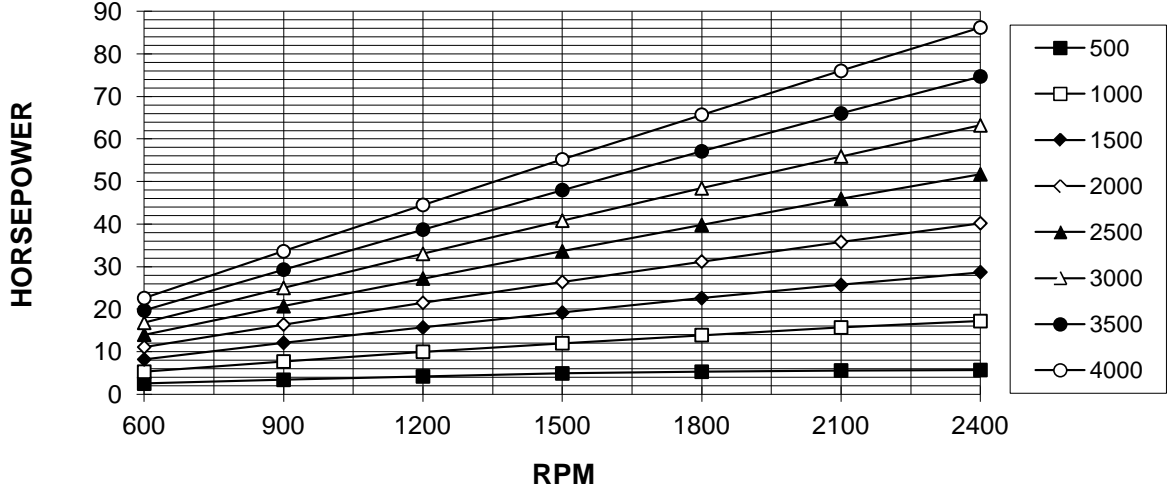
(Typical)



GEARTEK SMD20 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

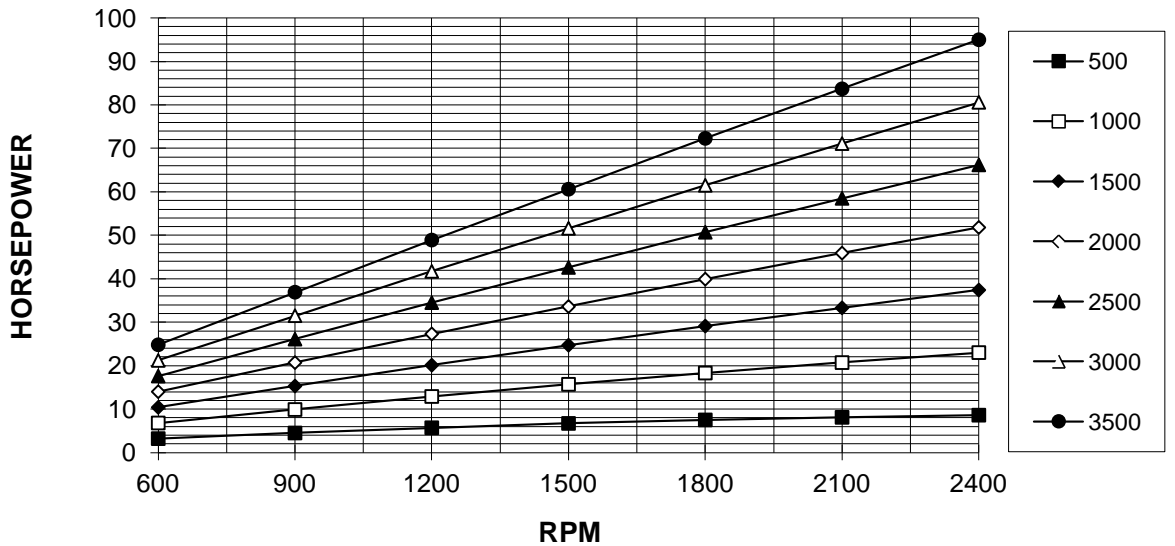
(Typical)



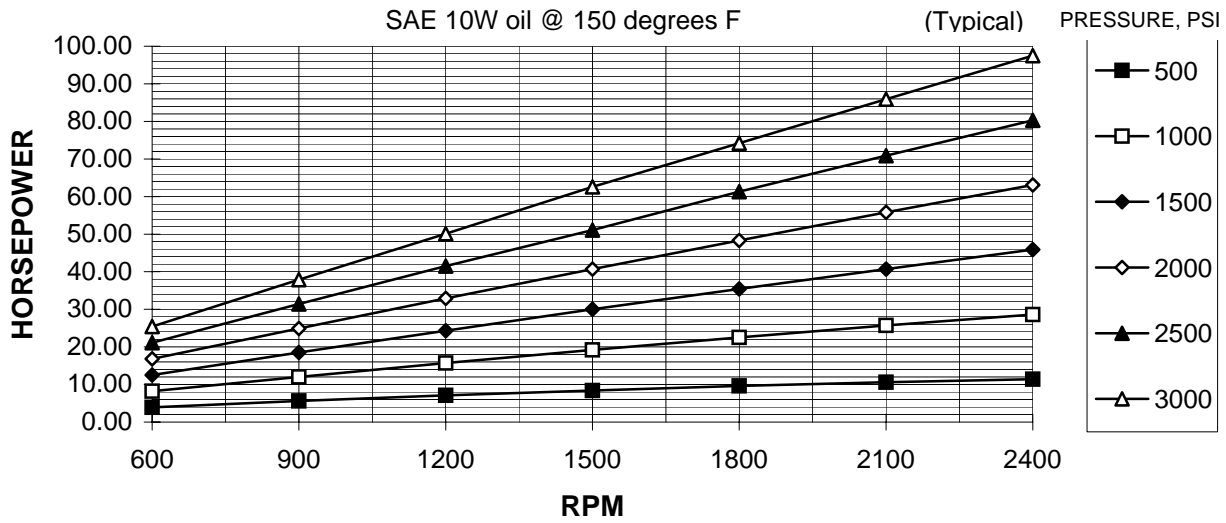
GEARTEK SMD25 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

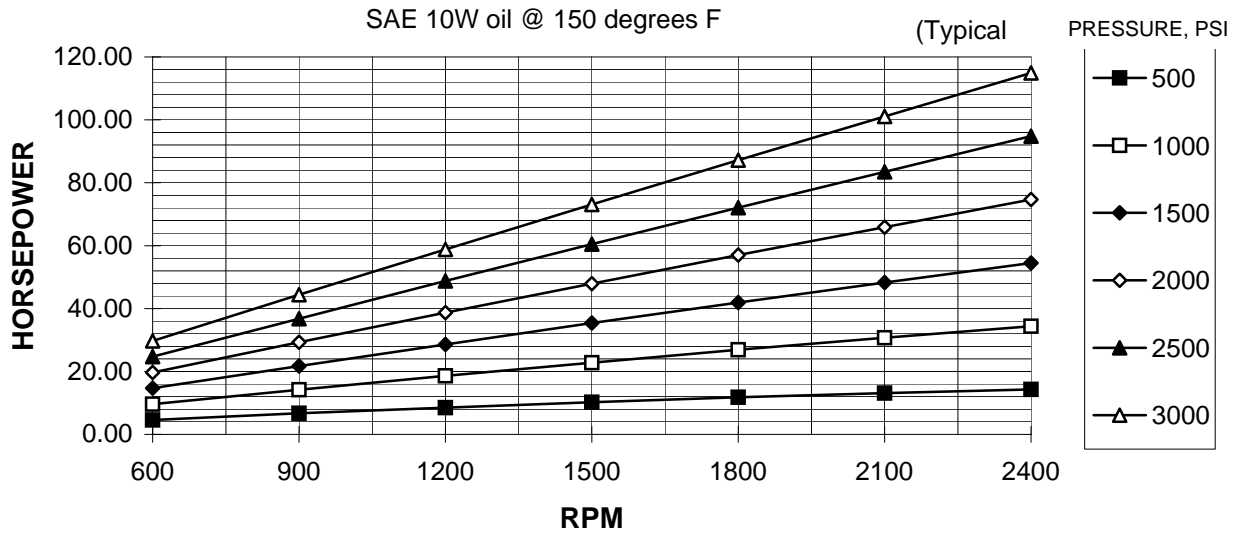
(Typical)



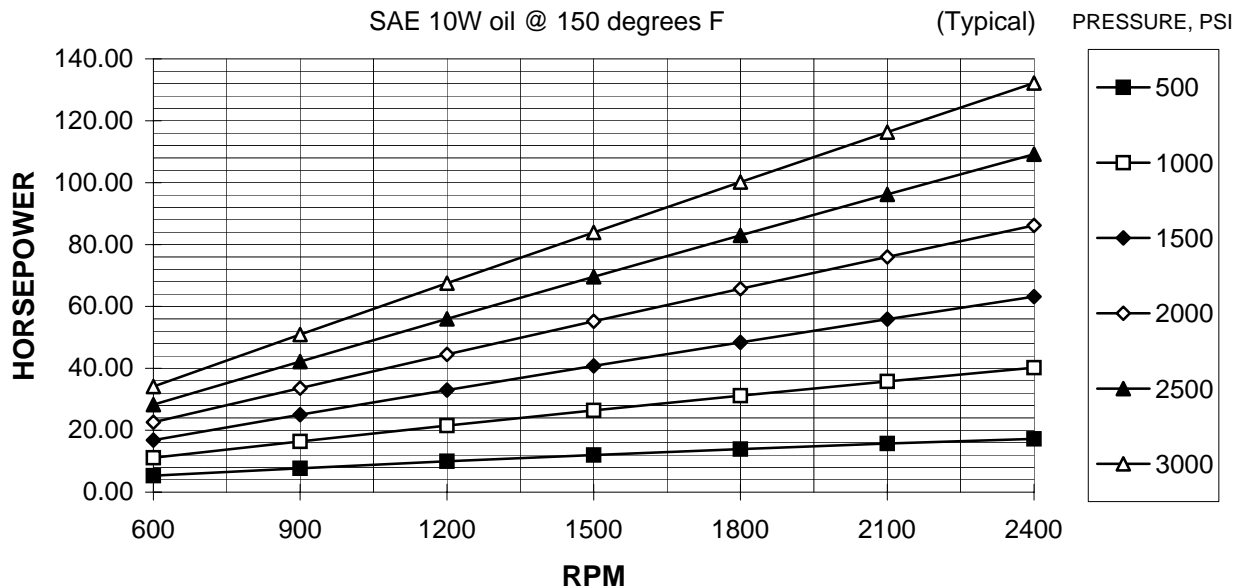
GEARTEK SMD30 MOTOR PERFORMANCE



GEARTEK SMD35 MOTOR PERFORMANCE



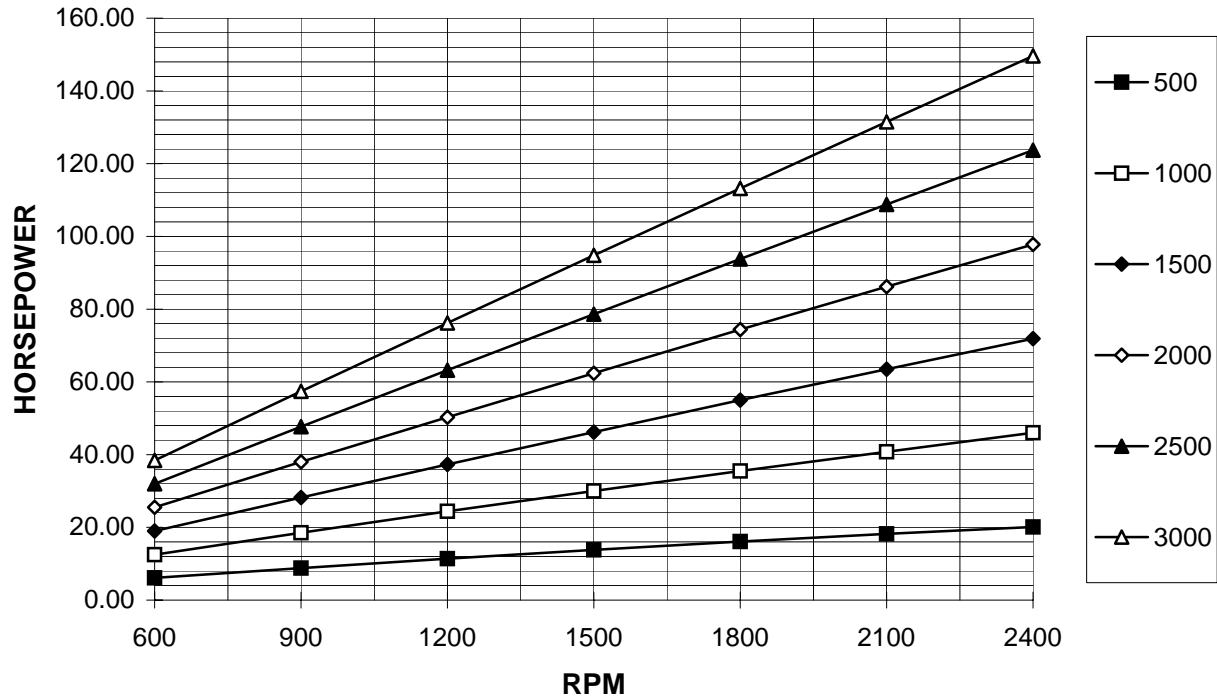
GEARTEK SMD40 MOTOR PERFORMANCE



GEARTEK SMD45 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

(Typical) PRESSURE, PSI



GEARTEK® FLUID POWER PUMPS AND MOTORS
DIVISION OF HYDRAULIC ANALYSIS, INC.



HYDRAULIC GEAR PUMPS AND MOTORS

'SLD' & 'SED' Series

UNLOADING VALVES

The 'SLD' & 'SED' Series limits the hydraulic horsepower which in turn limits the horsepower required from the prime mover.

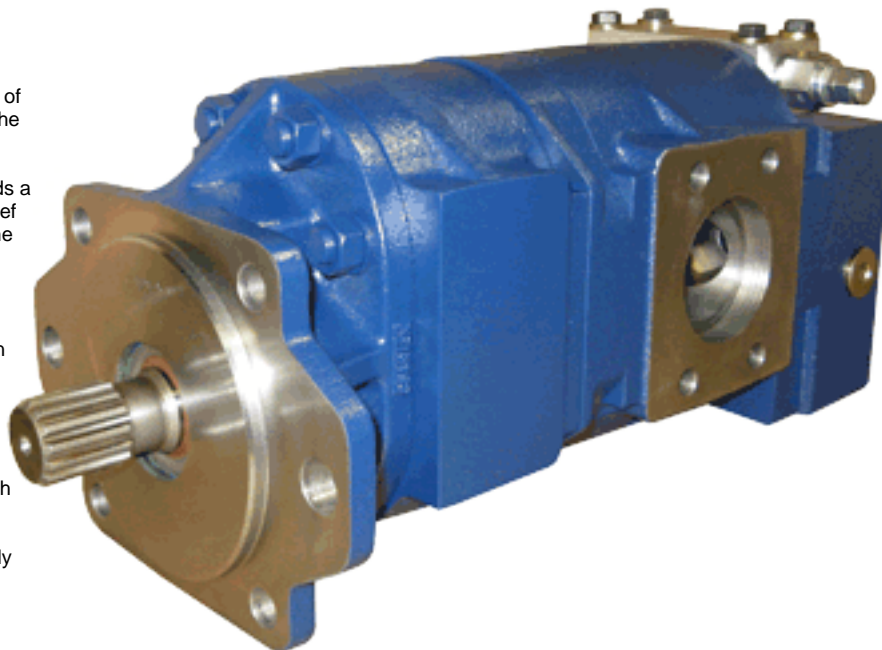
Both units can supply flow from either both sections of the tandem pump, or from only the front section of the unit.

With the 'SLD', when the operating pressure exceeds a predetermined setting, an integral pilot operated relief valve opens which moves the spool and redirects the rear section flow from the common discharge to the common suction.

Once the system pressure is reduced to the same predetermined setting, the flow from the rear section reverts back to the common discharge.

The 'SED' model allows flow through both sections until an external 12V or 24V DC electrical signal actuates a solenoid valve to divert flow in the rear section similar to the 'SLD'. The pump resets to both sections when the electrical signal is turned off.

Both models can be manually unloaded independently of the pilot valve or solenoid.



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | PRESSURE RATINGS | | | | MAXIMUM SPEED (RPM) |
|------------|---------------------------------------|--------------|-------------|------------------|-----|-------------|-----|---------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | NORMAL DUTY | | SEVERE DUTY | | |
| | | | | PSI | BAR | PSI | BAR | |
| D15 | .0129 | 2.98 | 48.8 | 4000 | 276 | 3800 | 262 | 2500 |
| D20 | .0172 | 3.97 | 65.1 | 3800 | 262 | 3000 | 207 | 2500 |
| D25 | .0215 | 4.97 | 81.4 | 3000 | 207 | 2300 | 159 | 2500 |
| D30 | .0258 | 5.96 | 97.6 | 2500 | 172 | 2000 | 138 | 2400 |
| D35 | .0301 | 6.95 | 113.9 | 2500* | 172 | 2000* | 138 | 2300 |
| D40 | .0344 | 7.95 | 130.2 | 2500* | 172 | 2000* | 138 | 2000 |
| D45 | .0387 | 8.94 | 146.5 | 2500* | 172 | 2000* | 138 | 1800 |

* CONSULT FACTORY WITH TYPE APPLICATION PRESSURES MAY BE LIMITED TO SHAFT TYPE

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 140 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- HIGH PRESSURE VITON® SHAFT SEALS
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

P. O. BOX 2160, 1506 FULTON DR.
CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

| | | | |
|----------|---|----------|---|
| 1 | 1 1/4"-14 TOOTH SPLINE TORQUE LIMIT 650 FT/LBS SPLINE DATA DIAMETRAL PITCH 12/24 PRESSURE ANGLE 30° NO. OF TEETH 14 MINOR DIA. 1.062-1.050 | 3 | 1 1/4" STRAIGHT TORQUE LIMIT 650 FT/LBS |
| | | | |

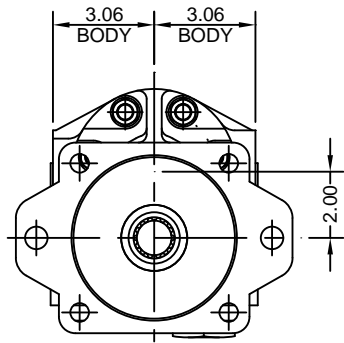
FLANGES AVAILABLE

| | | | |
|----------|--------------------------------|----------|--------------------------------|
| B | SAE 2X4 BOLT 'B' FLANGE | C | SAE 2X4 BOLT 'C' FLANGE |
| | | | |

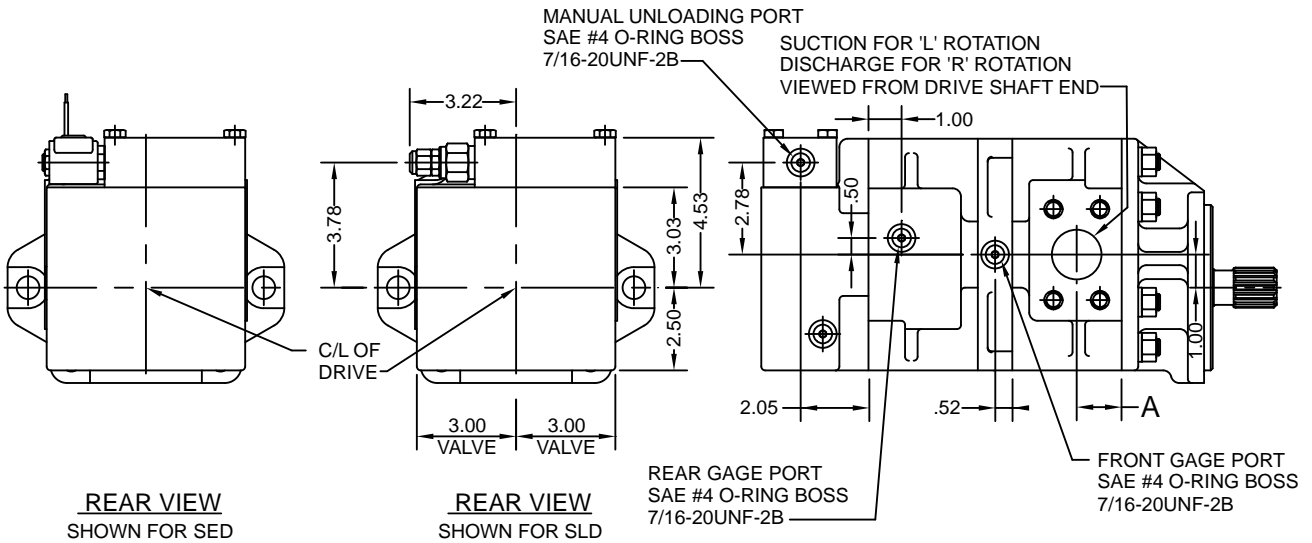
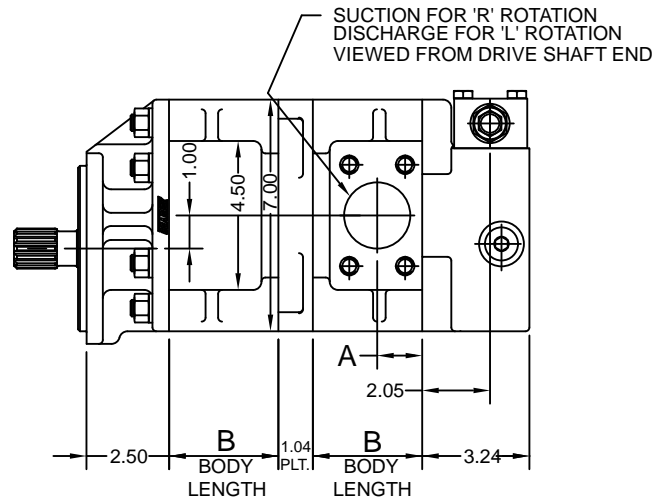
STANDARD SAE 4-BOLT CONNECTOR PORTS

| | | | | | |
|-------------------------------|-------------------------------|--|--|----------|-----------|
| | SAE 4-BOLT CONN. PORTS | | | | |
| | SIZE | INLET SIZE REAR SECTION | OUTLET SIZE FRONT SECTION | | |
| | D15 | 1 1/2" | 1 1/4" | | |
| | D20 | 2" | 1 1/2" | | |
| | D25 | 2" | 1 1/2" | | |
| | D30 | 2" | 1 1/2" | | |
| | D35 | 2 1/2" | 1 1/2" | | |
| | D40 | 2 1/2" | 1 1/2" | | |
| | D45 | 2 1/2" | 1 1/2" | | |
| 4-BOLT CONNECTOR CHART | | | | | |
| SIZE | C | D | E | F | G |
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |
| 2 1/2" | 1.00 | 2.000 | 1.75 | 3.500 | 1/2-13NC |

DIMENSIONAL DATA



DRAWN FOR 'R' ROTATION

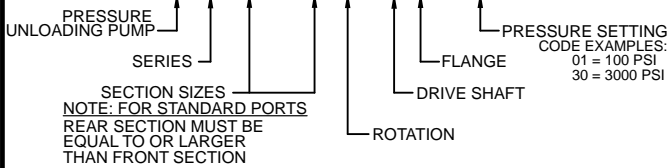


REAR VIEW SHOWN FOR SED

REAR VIEW SHOWN FOR SLD

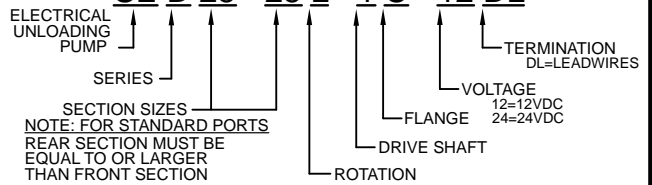
MODEL EXAMPLE

SL D 25 - 25 L - 1 C - 18



MODEL EXAMPLE

SE D 25 - 25 L - 1 C - 12 DL

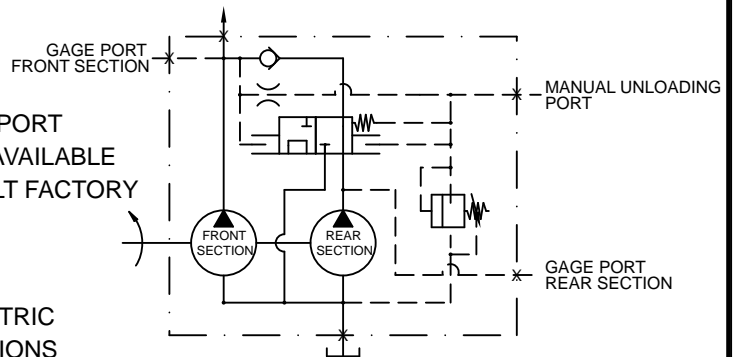


MOUNTING DIMENSIONS

| SIZE | A | B | - |
|------|------|------|---|
| D15 | 1.25 | 3.02 | - |
| D20 | 1.36 | 3.31 | - |
| D25 | 1.50 | 3.59 | - |
| D30 | 1.64 | 3.87 | - |
| D35 | 1.85 | 4.16 | - |
| D40 | 1.85 | 4.44 | - |
| D45 | 2.16 | 4.73 | - |

OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

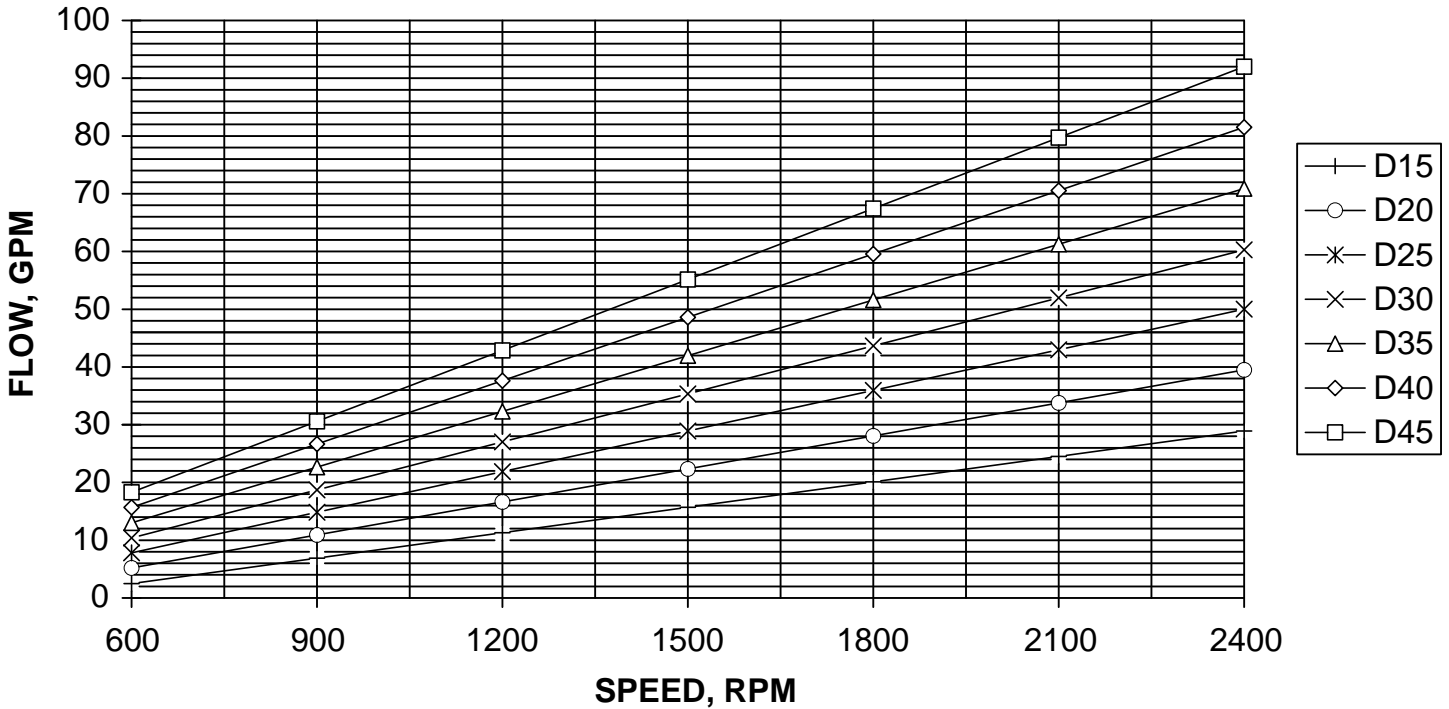
FOR METRIC DIMENSIONS MULTIPLY 25.4 x IN. = mm



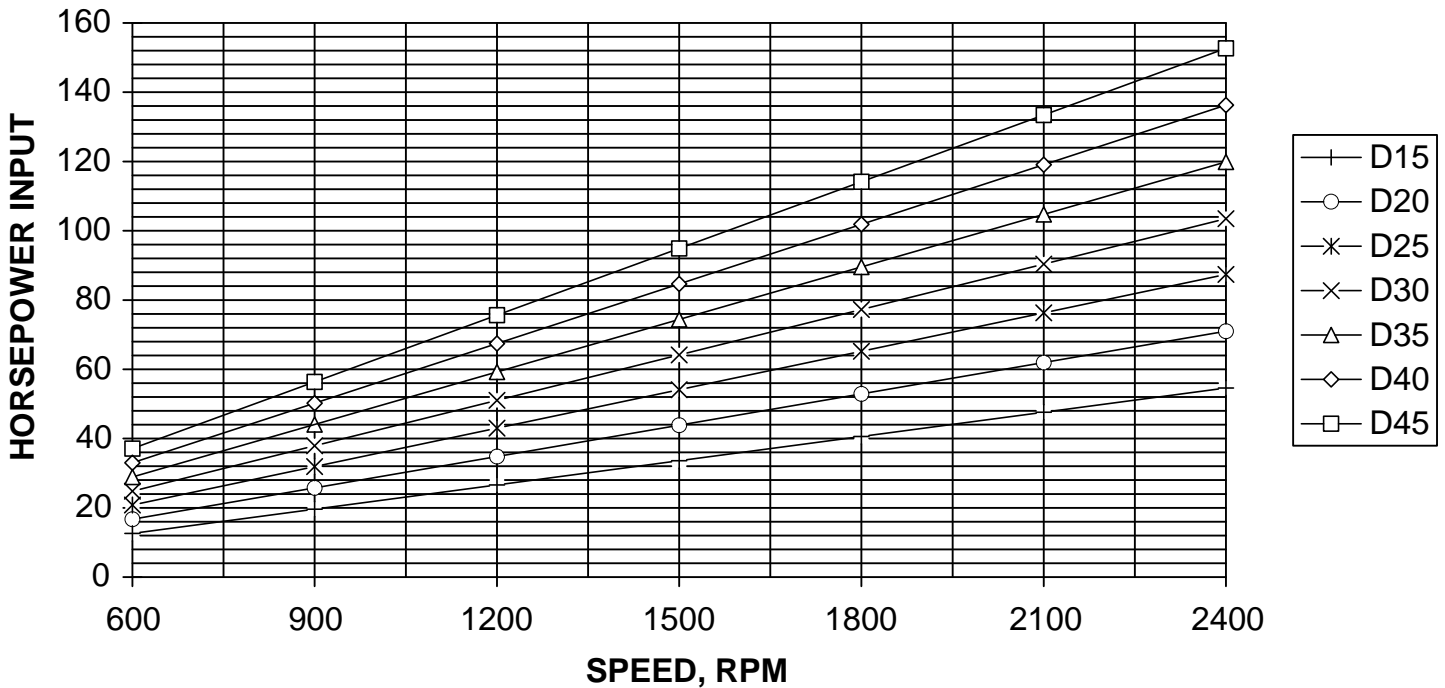
SLD SERIES SCHEMATIC

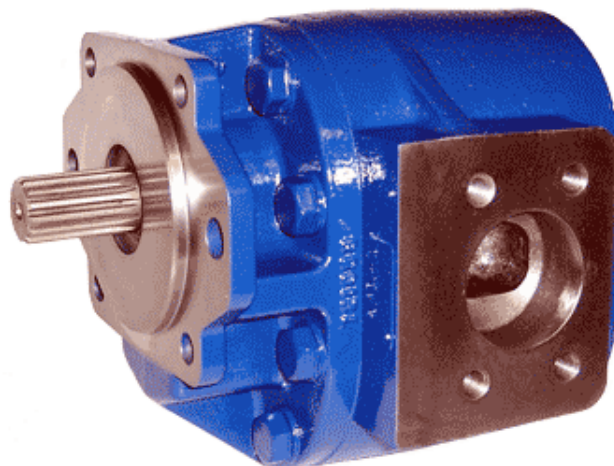
TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

**'SLD' / 'SED' SERIES PUMP FLOW PER SECTION @ 2500 PSI - SAE 10W OIL
 @ 150 DEGREES FAHRENHEIT**



'SLD' / 'SED' SERIES PUMP HORSEPOWER PER SECTION @ 2500 PSI





**Performance
Data**

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MAXIMUM PRESSURE | | MINIMUM RPM | MAXIMUM RPM |
|---------------|--|--------------|-------------|---------------------|-----|----------------|----------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | PSI | BAR | | |
| E30 | .0258 | 5.98 | 98.0 | 4000 | 276 | 600 | 2500 |
| E35 | .0300 | 6.93 | 113.5 | 4000 | 276 | 600 | 2500 |
| E40 | .0342 | 7.90 | 129.4 | 4000* | 276 | 600 | 2500 |
| E45 | .0386 | 8.92 | 146.2 | 4000* | 276 | 600 | 2500 |
| E50 | .0427 | 9.86 | 161.6 | 3800* | 262 | 600 | 2500 |
| E55 | .0470 | 10.86 | 178.0 | 3400* | 234 | 600 | 2500 |
| E66 | .0570 | 13.17 | 215.6 | 2900* | 200 | 600 | 2500 |
| E77 | .0658 | 15.20 | 249.2 | 2500* | 172 | 600 | 2500 |
| E85 | .0727 | 16.79 | 275.2 | 2250* | 155 | 600 | 2500 |
| E95 | .0818 | 18.91 | 309.8 | 2000* | 138 | 600 | 2500 |

* CONSULT FACTORY WITH TYPE APPLICATION

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 204 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

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SHAFTS AVAILABLE

| | | | | | | | | | |
|---|-----------------|-------|----------------|-----|--------------|----|------------|-------------|---|
| <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b style="font-size: 24px;">1 </div> <h3 style="color: red; text-align: center;">1 1/4"-14 TOOTH SPLINE</h3> <p style="text-align: center;">TORQUE LIMIT 650 FT/LBS</p> <p style="text-align: center;">SPLINE DATA</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 60%;">DIAMETRAL PITCH</td><td>12/24</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>14</td></tr> <tr><td>MINOR DIA.</td><td>1.062-1.050</td></tr> </table> | DIAMETRAL PITCH | 12/24 | PRESSURE ANGLE | 30° | NO. OF TEETH | 14 | MINOR DIA. | 1.062-1.050 | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b style="font-size: 24px;">2 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b style="font-size: 24px;">5 </div> <h3 style="color: red; text-align: center;">1 1/4" STRAIGHT</h3> <p style="text-align: center;">TORQUE LIMIT 650 FT/LBS</p> <p style="text-align: center;">E55, E66, E77 & E95 ONLY</p> |
| DIAMETRAL PITCH | 12/24 | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | |
| NO. OF TEETH | 14 | | | | | | | | |
| MINOR DIA. | 1.062-1.050 | | | | | | | | |

STANDARD SAE 4-BOLT CONNECTOR PORTS

SAE 4-BOLT CONN. PORTS

| SIZE | INLET SIZE | OUTLET SIZE |
|------|------------|-------------|
| E30 | 2 1/2" | 1 1/4" |
| E35 | 2 1/2" | 1 1/4" |
| E40 | 2 1/2" | 1 1/4" |
| E45 | 2 1/2" | 1 1/4" |
| E50 | 2 1/2" | 1 1/2" |
| E55 | 2 1/2" | 1 1/2" |
| E66 | 2 1/2" | 1 1/2" |
| E77 | 2 1/2" | 1 1/2" |
| E85 | 2 1/2" | 1 1/2" |
| E95 | 3" | 2" |

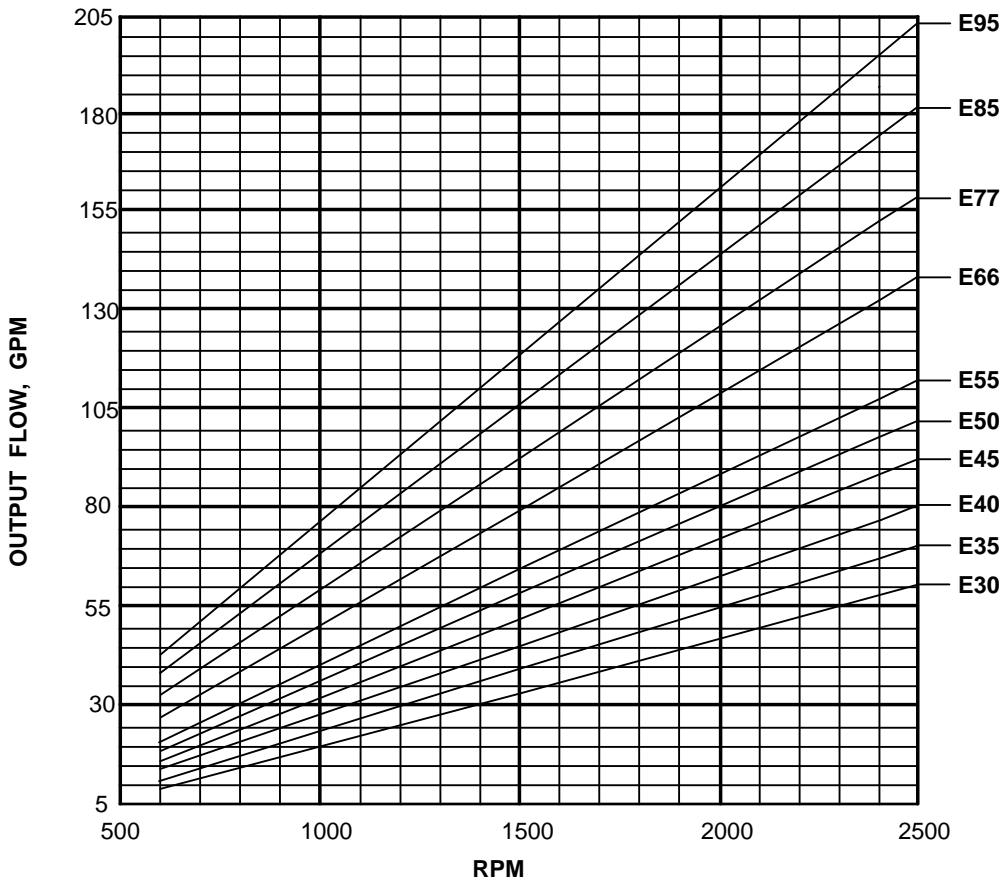
4-BOLT CONNECTOR CHART

| SIZE | C | D | E | F | G |
|--------|------|-------|------|-------|-----------|
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |
| 2 1/2" | 1.00 | 2.000 | 1.75 | 3.500 | 1/2-13NC |
| 3" | 1.21 | 2.438 | 2.09 | 4.188 | 5/8-11NC |

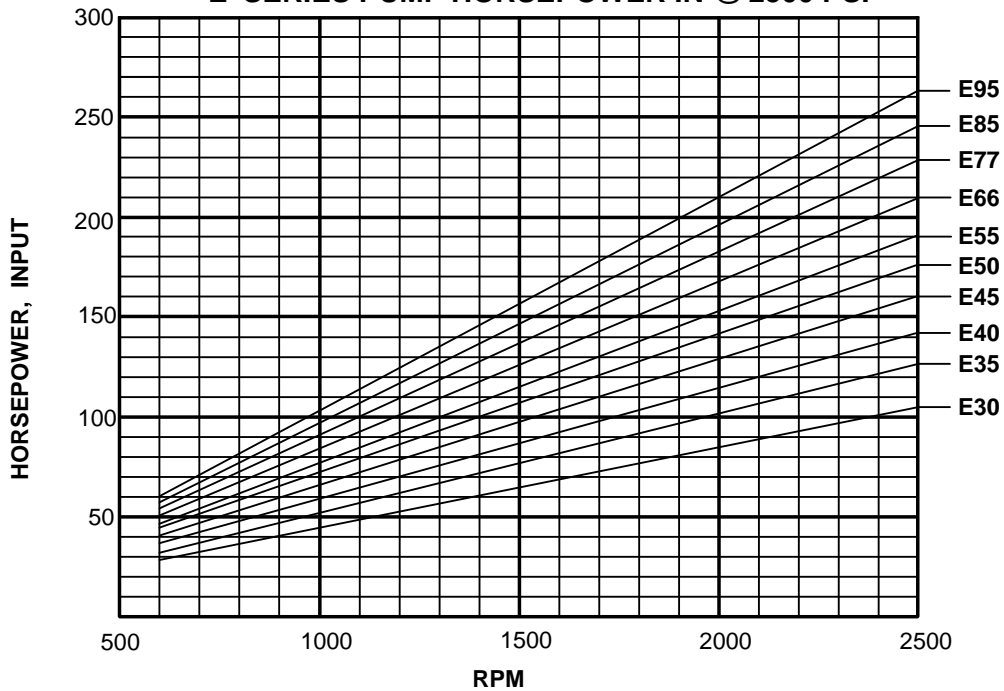
TYPICAL PERFORMANCE DATA

SAE 10W OIL @ 150° (150 SSU)

'E' SERIES TYPICAL PUMP FLOW @ 2500 PSI



'E' SERIES PUMP HORSEPOWER IN @ 2500 PSI





HYDRAULIC GEAR PUMPS AND MOTORS

'E' Series

TANDEM PUMP



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MAXIMUM PRESSURE | | MINIMUM RPM | MAXIMUM RPM |
|---------------|--|--------------|-------------|---------------------|-----|----------------|----------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | PSI | BAR | | |
| E30 | .0258 | 5.98 | 98.0 | 4000 | 276 | 600 | 2500 |
| E35 | .0300 | 6.93 | 113.5 | 4000 | 276 | 600 | 2500 |
| E40 | .0342 | 7.90 | 129.4 | 4000* | 276 | 600 | 2500 |
| E45 | .0386 | 8.92 | 146.2 | 4000* | 276 | 600 | 2500 |
| E50 | .0427 | 9.86 | 161.6 | 3800* | 262 | 600 | 2500 |
| E55 | .0470 | 10.86 | 178.0 | 3400* | 234 | 600 | 2500 |
| E66 | .0570 | 13.17 | 215.6 | 2900* | 200 | 600 | 2500 |
| E77 | .0658 | 15.20 | 249.2 | 2500* | 172 | 600 | 2500 |
| E95 | .0818 | 18.91 | 309.8 | 2000* | 138 | 600 | 2500 |

* CONSULT FACTORY WITH TYPE APPLICATION

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 204 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
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SHAFTS AVAILABLE

| | | | | | | | | | | | | | | | | | |
|---|-----------------|-------|----------------|-----|--------------|----|------------|-------------|---|-----------------|-------|----------------|-----|--------------|----|------------|-------------|
| <p>1</p> <p>1 1/4"-14 TOOTH SPLINE TORQUE LIMIT 650 FT/LBS</p> <p>SPLINE DATA</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>12/24</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>14</td></tr> <tr><td>MINOR DIA.</td><td>1.062-1.050</td></tr> </table> | DIAMETRAL PITCH | 12/24 | PRESSURE ANGLE | 30° | NO. OF TEETH | 14 | MINOR DIA. | 1.062-1.050 | <p>7</p> <p>1 1/2" STRAIGHT TORQUE LIMIT 1180 FT/LBS</p> <p>8</p> <p>E55 & E77 ONLY</p> | | | | | | | | |
| DIAMETRAL PITCH | 12/24 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 14 | | | | | | | | | | | | | | | | |
| MINOR DIA. | 1.062-1.050 | | | | | | | | | | | | | | | | |
| <p>6</p> <p>1 1/2"-17 TOOTH SPLINE TORQUE LIMIT 1180 FT/LBS</p> <p>SPLINE DATA</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>12/24</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>17</td></tr> <tr><td>MINOR DIA.</td><td>1.290-1.300</td></tr> </table> | DIAMETRAL PITCH | 12/24 | PRESSURE ANGLE | 30° | NO. OF TEETH | 17 | MINOR DIA. | 1.290-1.300 | <p>9</p> <p>1 1/2"-14 TOOTH SPLINE TORQUE LIMIT 1180 FT/LBS</p> <p>SPLINE DATA</p> <table border="1"> <tr><td>DIAMETRAL PITCH</td><td>10/20</td></tr> <tr><td>PRESSURE ANGLE</td><td>30°</td></tr> <tr><td>NO. OF TEETH</td><td>14</td></tr> <tr><td>MINOR DIA.</td><td>1.251-1.271</td></tr> </table> | DIAMETRAL PITCH | 10/20 | PRESSURE ANGLE | 30° | NO. OF TEETH | 14 | MINOR DIA. | 1.251-1.271 |
| DIAMETRAL PITCH | 12/24 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 17 | | | | | | | | | | | | | | | | |
| MINOR DIA. | 1.290-1.300 | | | | | | | | | | | | | | | | |
| DIAMETRAL PITCH | 10/20 | | | | | | | | | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | | | | | | | | | |
| NO. OF TEETH | 14 | | | | | | | | | | | | | | | | |
| MINOR DIA. | 1.251-1.271 | | | | | | | | | | | | | | | | |

STANDARD SAE 4-BOLT CONNECTOR PORTS

SAE 4-BOLT CONN. PORTS

| SIZE | INLET SIZE | OUTLET SIZE |
|------|------------|-------------|
| E30 | 2 1/2" | 1 1/4" |
| E35 | 2 1/2" | 1 1/4" |
| E40 | 2 1/2" | 1 1/4" |
| E45 | 2 1/2" | 1 1/4" |
| E50 | 2 1/2" | 1 1/2" |
| E55 | 2 1/2" | 1 1/2" |
| E66 | 2 1/2" | 1 1/2" |
| E77 | 2 1/2" | 1 1/2" |
| E95 | 3" | 2" |

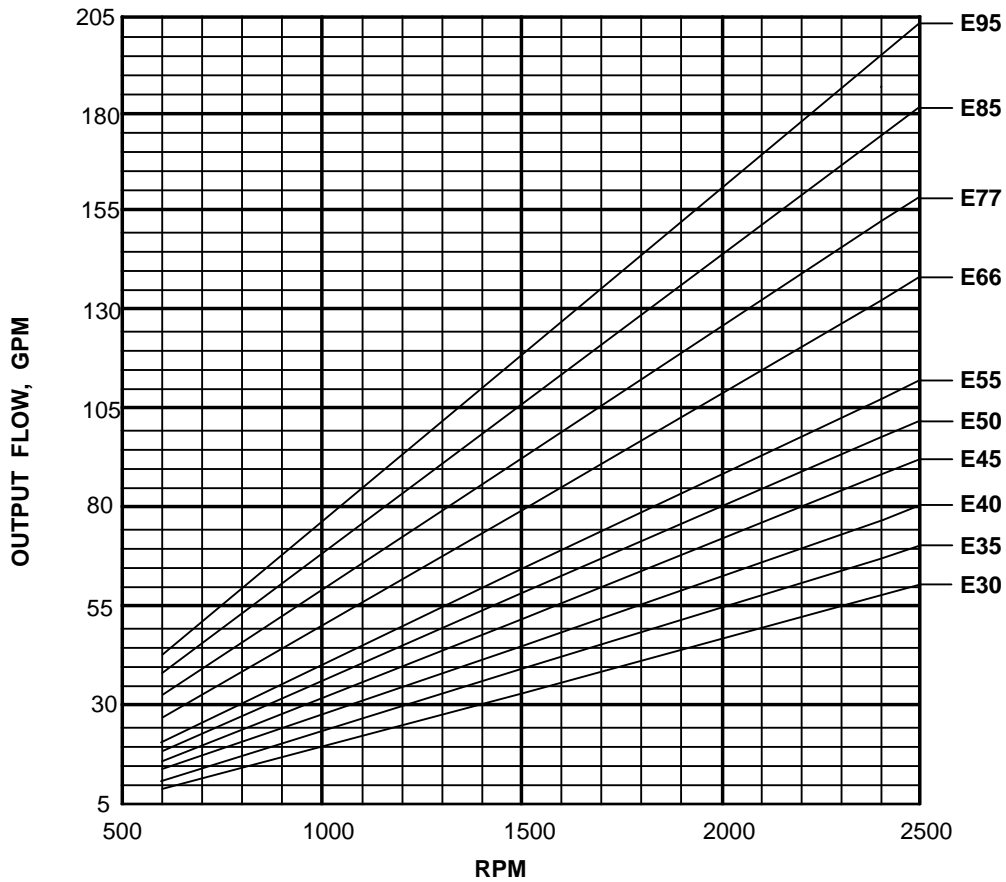
4-BOLT CONNECTOR CHART

| SIZE | C | D | E | F | G |
|--------|------|-------|------|-------|-----------|
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |
| 2 1/2" | 1.00 | 2.000 | 1.75 | 3.500 | 1/2-13NC |
| 3" | 1.21 | 2.438 | 2.09 | 4.188 | 5/8-11NC |

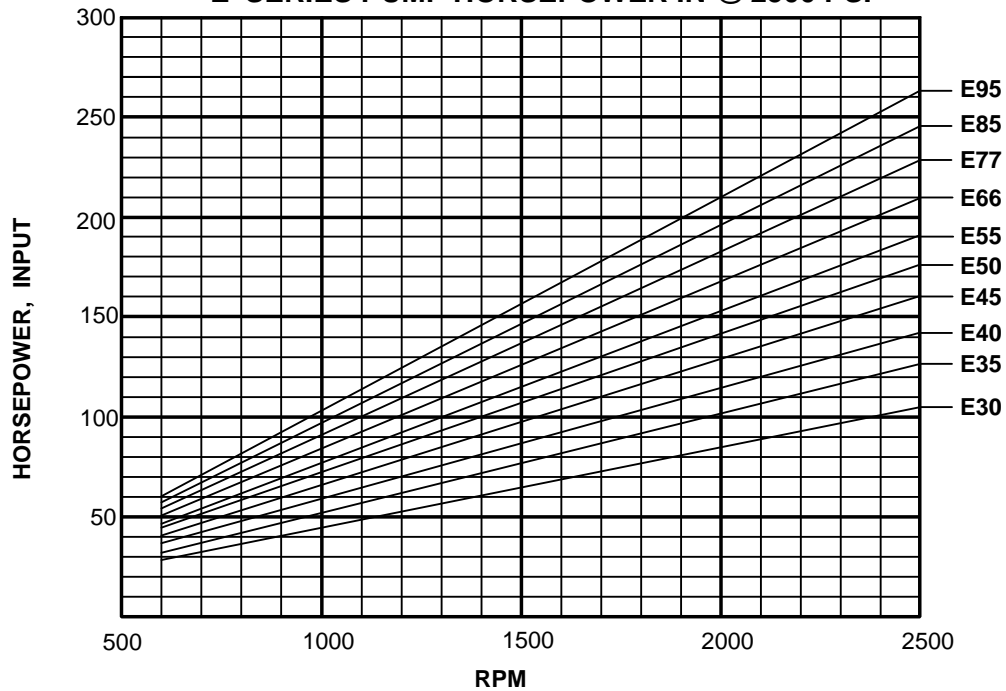
TYPICAL PERFORMANCE DATA

SAE 10W OIL @ 150° (150 SSU)

'E' SERIES TYPICAL PUMP FLOW @ 2500 PSI



'E' SERIES PUMP HORSEPOWER IN @ 2500 PSI





HYDRAULIC GEAR PUMPS AND MOTORS

'EB' Series

PIGGY-BACK



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MINIMUM RPM | MAXIMUM RPM | MAXIMUM PRESSURE | |
|---------------|--|--------------|-------------|----------------|----------------|------------------|-----|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | | | PSI | BAR |
| EB30 | .0258 | 5.98 | 98.0 | 600 | 2500 | 4000 | 276 |
| EB35 | .0300 | 6.93 | 113.5 | 600 | 2500 | 4000 | 276 |
| EB40 | .0342 | 7.90 | 129.4 | 600 | 2500 | 4000* | 276 |
| EB45 | .0386 | 8.92 | 146.2 | 600 | 2500 | 4000* | 276 |
| EB50 | .0427 | 9.86 | 161.6 | 600 | 2500 | 3800* | 262 |
| EB55 | .0470 | 10.86 | 178.0 | 600 | 2500 | 3400* | 234 |
| EB66 | .0570 | 13.17 | 215.9 | 600 | 2500 | 2900* | 200 |
| EB77 | .0658 | 15.20 | 249.2 | 600 | 2500 | 2500* | 172 |
| EB95 | .0818 | 18.91 | 309.8 | 600 | 2500 | 2000* | 138 |

* CONSULT FACTORY WITH TYPE APPLICATION

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 204 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS

- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

P. O. BOX 2160, 1506 FULTON DR.
CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

1

1 1/4"-14 TOOTH SPLINE
TORQUE LIMIT 650 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.062-1.050 |

1.229-1.223 DIA.

1.65 FULL SPLINE

2.19

FLG. MTG. SURFACE

7

1 1/2" STRAIGHT
TORQUE LIMIT 1180 FT/LBS

8

E55 & E77 ONLY

3/8"x3/8"x1 1/2" KEY

1.499-1.498 DIA.

2.94 - NO. 7
5.00 - NO. 8

FLG. MTG. SURFACE

6

1 1/2"-17 TOOTH SPLINE
TORQUE LIMIT 1180 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 17 |
| MINOR DIA. | 1.290-1.300 |

1.480-1.474 DIA.

1.93 FULL SPLINE

2.88

FLG. MTG. SURFACE

9

1 1/2"-14 TOOTH SPLINE
TORQUE LIMIT 1180 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 10/20 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.251-1.271 |

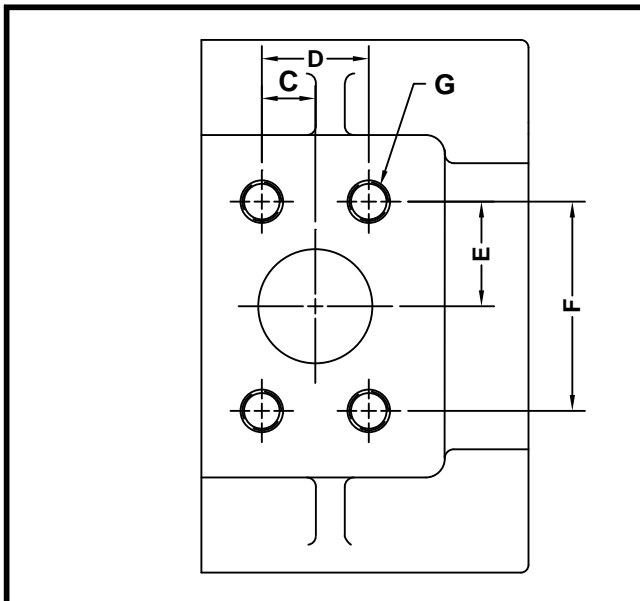
1.480-1.474 DIA.

1.93 FULL SPLINE

2.88

FLG. MTG. SURFACE

STANDARD SAE 4-BOLT CONNECTOR PORTS



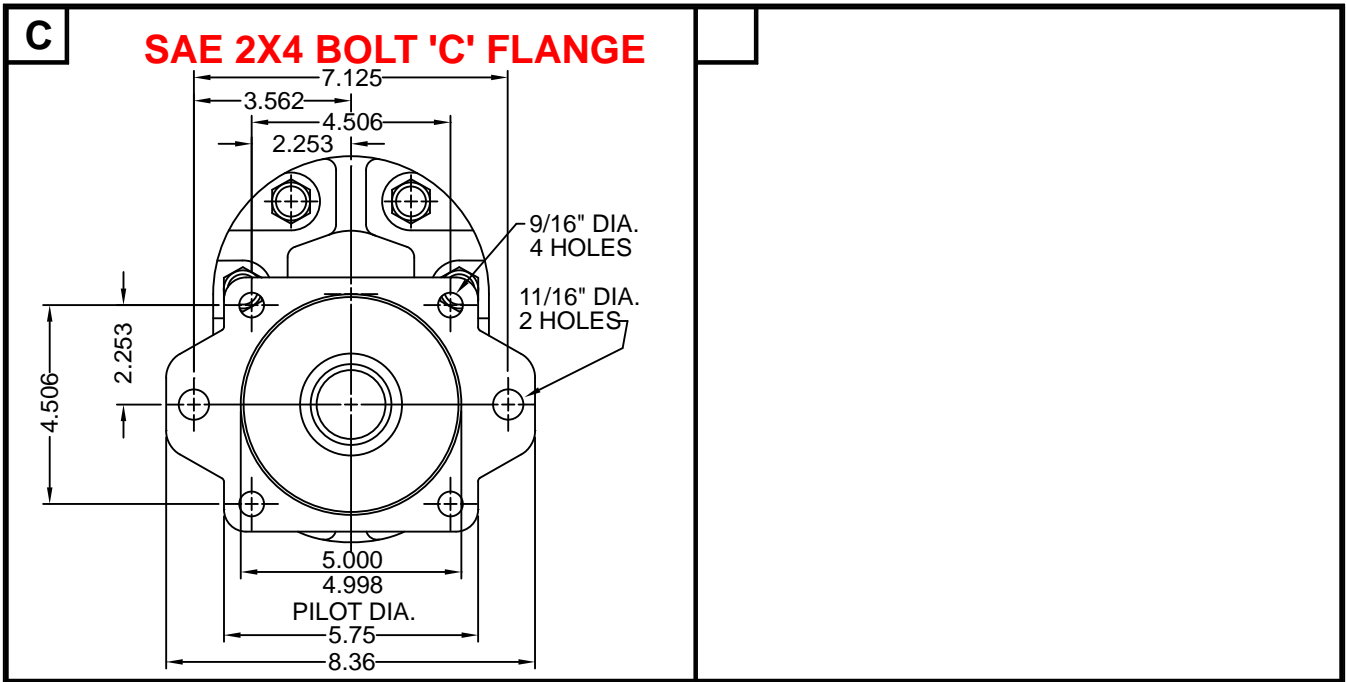
SAE 4-BOLT CONN. PORTS

| SIZE | INLET SIZE | OUTLET SIZE |
|------|------------|-------------|
| E30 | 2 1/2" | 1 1/4" |
| E35 | 2 1/2" | 1 1/4" |
| E40 | 2 1/2" | 1 1/4" |
| E45 | 2 1/2" | 1 1/4" |
| E50 | 2 1/2" | 1 1/2" |
| E55 | 2 1/2" | 1 1/2" |
| E66 | 2 1/2" | 1 1/2" |
| E77 | 2 1/2" | 1 1/2" |
| E95 | 3" | 2" |

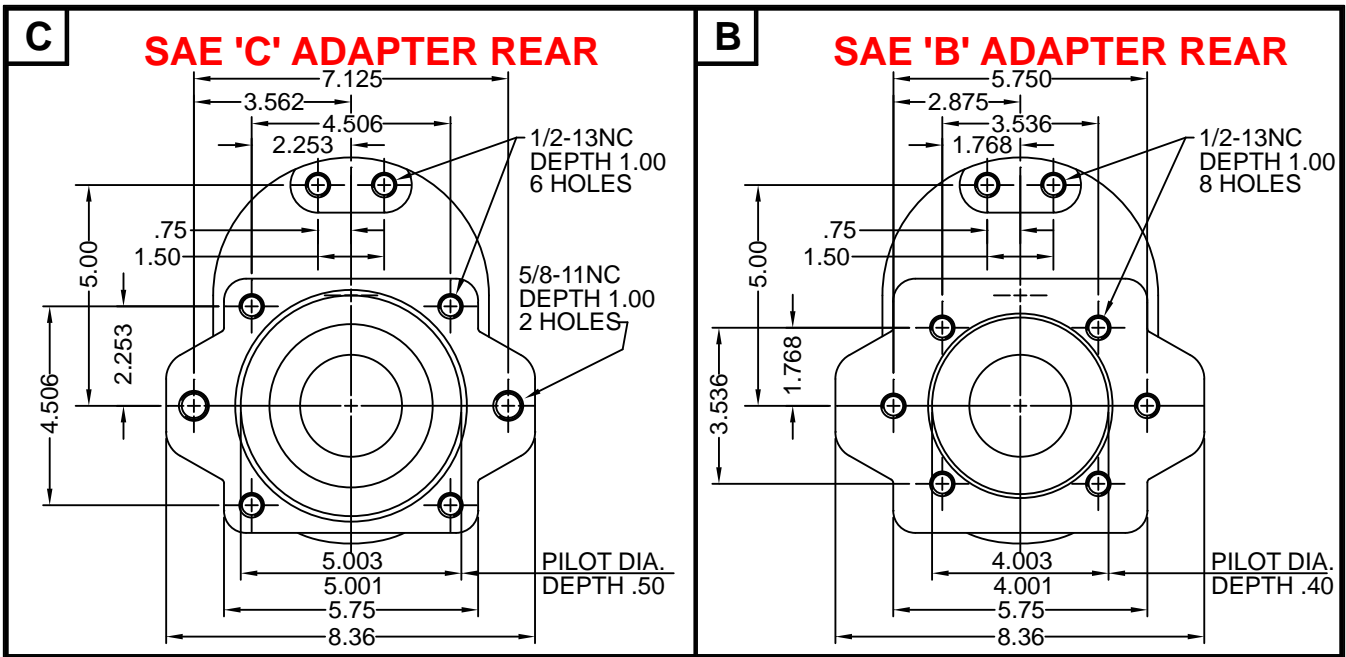
4-BOLT CONNECTOR CHART

| SIZE | C | D | E | F | G |
|--------|------|-------|------|-------|-----------|
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |
| 2 1/2" | 1.00 | 2.000 | 1.75 | 3.500 | 1/2-13NC |
| 3" | 1.21 | 2.438 | 2.09 | 4.188 | 5/8-11NC |

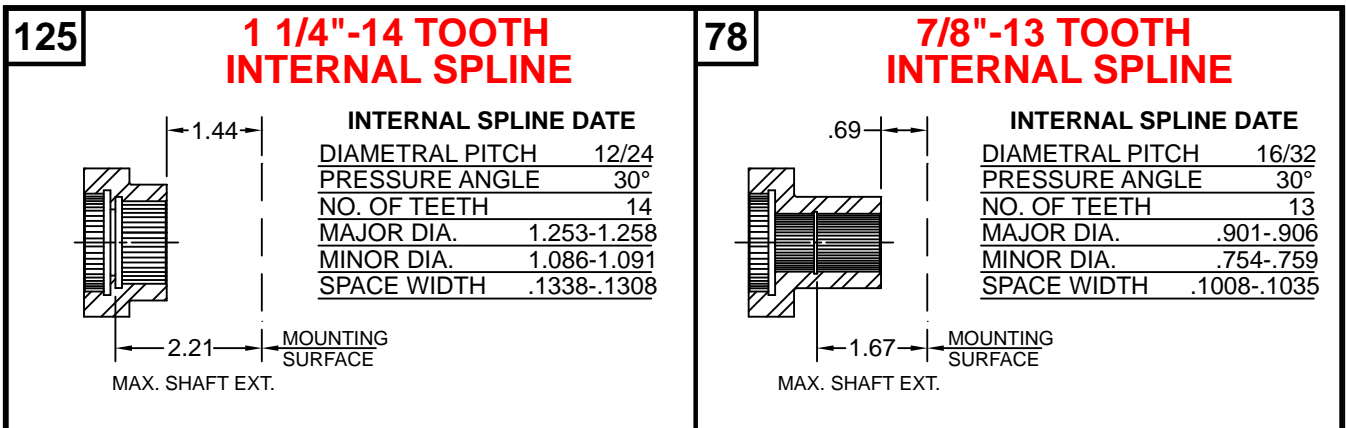
FLANGES AVAILABLE



REAR ADAPTERS AVAILABLE



REAR COUPLINGS AVAILABLE

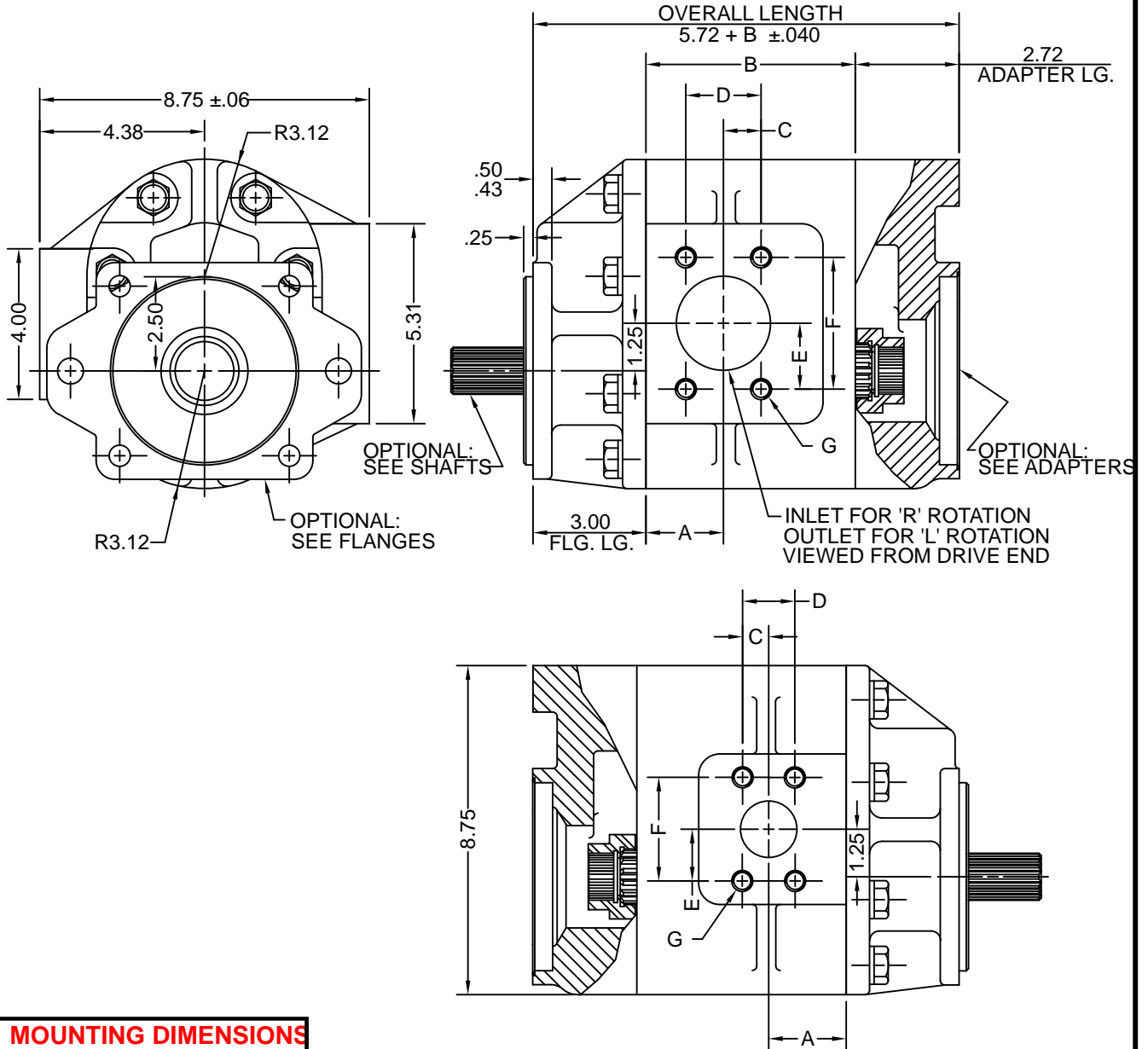


DIMENSIONAL DATA

MODEL EXAMPLE

EB 55 R - 1 C - C 125 -

SERIES — SIZE — ROTATION — COUPLING — ADAPTER REAR MOUNT — REAR PUMP AS REQUIRED
 R=CLOCKWISE — L=COUNTERCLOCKWISE — FLANGE — SHAFT



MOUNTING DIMENSIONS

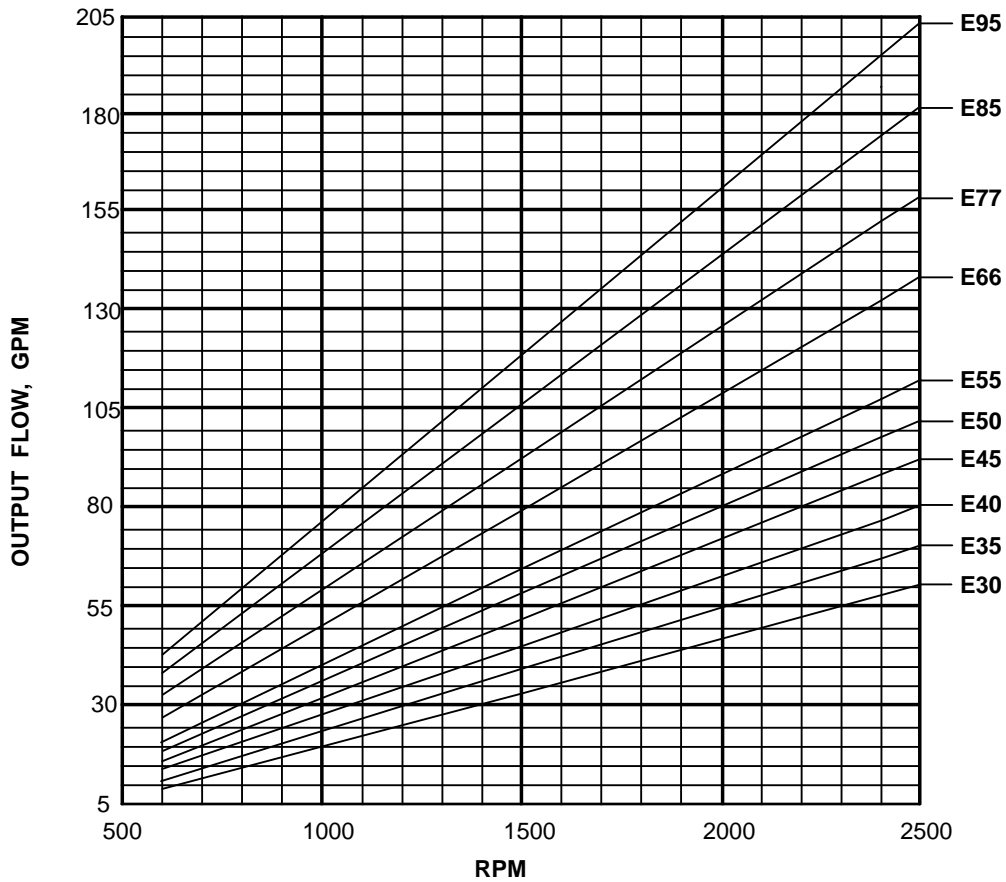
| SIZE | A | B |
|------|------|------|
| E30 | 1.75 | 4.33 |
| E35 | 1.92 | 4.51 |
| E40 | 2.09 | 4.68 |
| E45 | 2.28 | 4.87 |
| E50 | 2.45 | 5.04 |
| E55 | 2.63 | 5.22 |
| E66 | 3.05 | 5.64 |
| E77 | 3.42 | 6.01 |
| E95 | 3.00 | 6.68 |

FOR METRIC DIMENSIONS
 MULTIPLY 25.4 X IN. = mm

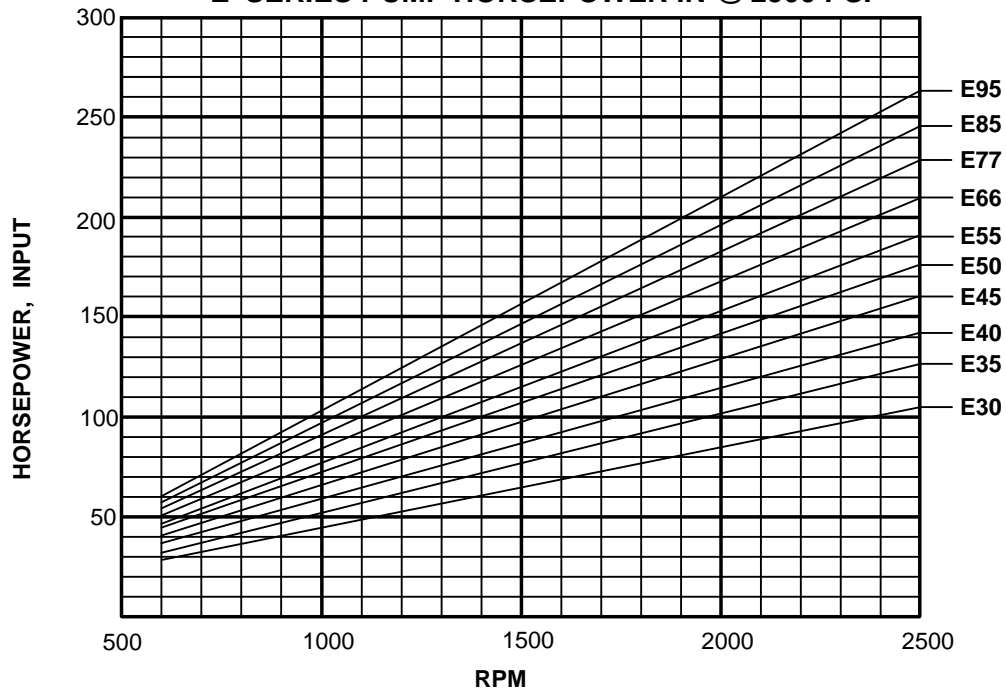
TYPICAL PERFORMANCE DATA

SAE 10W OIL @ 150° (150 SSU)

'E' SERIES TYPICAL PUMP FLOW @ 2500 PSI



'E' SERIES PUMP HORSEPOWER IN @ 2500 PSI





**Performance
Data**

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MINIMUM RPM | MAXIMUM RPM | MAXIMUM PRESSURE | |
|---------------|--|--------------|-------------|----------------|----------------|------------------|-----|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | | | PSI | BAR |
| E30 | .0258 | 5.98 | 98.0 | 600 | 2500 | 4000 | 276 |
| E35 | .0300 | 6.93 | 113.5 | 600 | 2500 | 4000 | 276 |
| E40 | .0342 | 7.90 | 129.4 | 600 | 2500 | 4000* | 276 |
| E45 | .0386 | 8.92 | 146.2 | 600 | 2500 | 4000* | 276 |
| E50 | .0427 | 9.86 | 161.6 | 600 | 2500 | 3800* | 262 |
| E55 | .0470 | 10.86 | 178.0 | 600 | 2500 | 3400* | 234 |
| E66 | .0570 | 13.17 | 215.9 | 600 | 2500 | 2900* | 200 |
| E77 | .0658 | 15.20 | 249.2 | 600 | 2500 | 2500* | 172 |
| D15 | .0129 | 2.98 | 48.8 | 600 | 2500 | 3500 | 241 |
| D20 | .0172 | 3.97 | 65.1 | 600 | 2500 | 3500 | 241 |
| D25 | .0215 | 4.97 | 81.4 | 600 | 2500 | 3000 | 207 |
| D30 | .0258 | 5.96 | 97.6 | 600 | 2500 | 2500 | 172 |
| D35 | .0301 | 6.95 | 113.9 | 600 | 2500 | 2500* | 172 |

* CONSULT FACTORY WITH TYPE APPLICATION

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 164 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

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CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

1

1 1/4"-14 TOOTH SPLINE
TORQUE LIMIT 650 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.062-1.050 |

1.229
1.223
DIA.
1.65
FULL SPLINE
2.19
FLG. MTG. SURFACE

7

1 1/2" STRAIGHT
TORQUE LIMIT 1180 FT/LBS

8

E55 & E77 ONLY

3/8"x3/8"x1/2" KEY
1.499
1.498
DIA.
2.94 - NO. 7
5.00 - NO. 8
FLG. MTG. SURFACE

6

1 1/2"-17 TOOTH SPLINE
TORQUE LIMIT 1180 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 17 |
| MINOR DIA. | 1.290-1.300 |

1.480-1.474
DIA.
1.93
FULL SPLINE
2.88
FLG. MTG. SURFACE

9

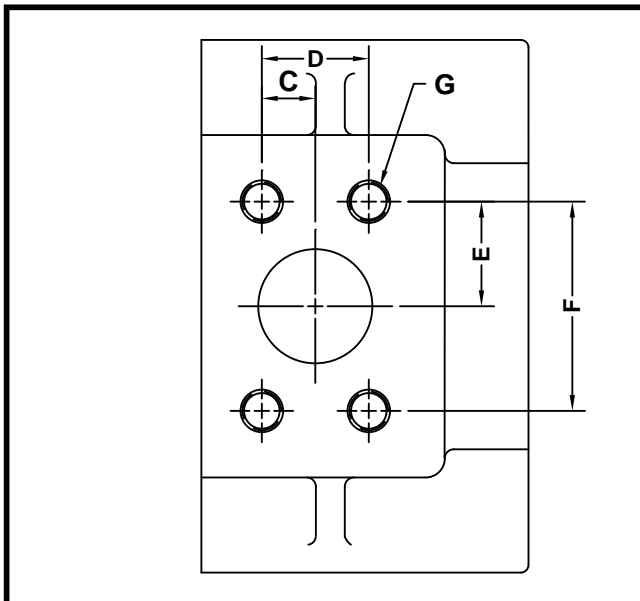
1 1/2"-14 TOOTH SPLINE
TORQUE LIMIT 1180 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 10/20 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.251-1.271 |

1.480-1.474
DIA.
1.93
FULL SPLINE
2.88
FLG. MTG. SURFACE

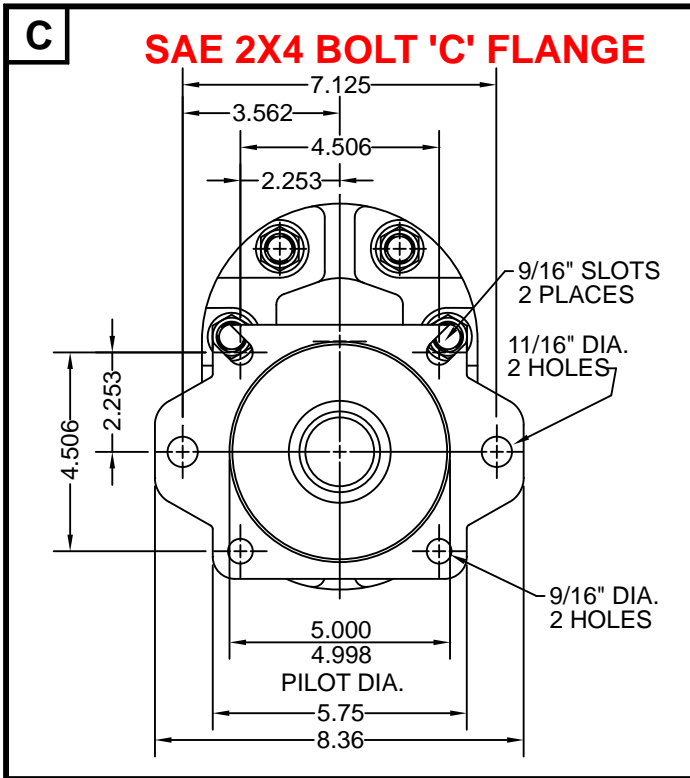
STANDARD SAE 4-BOLT CONNECTOR PORTS



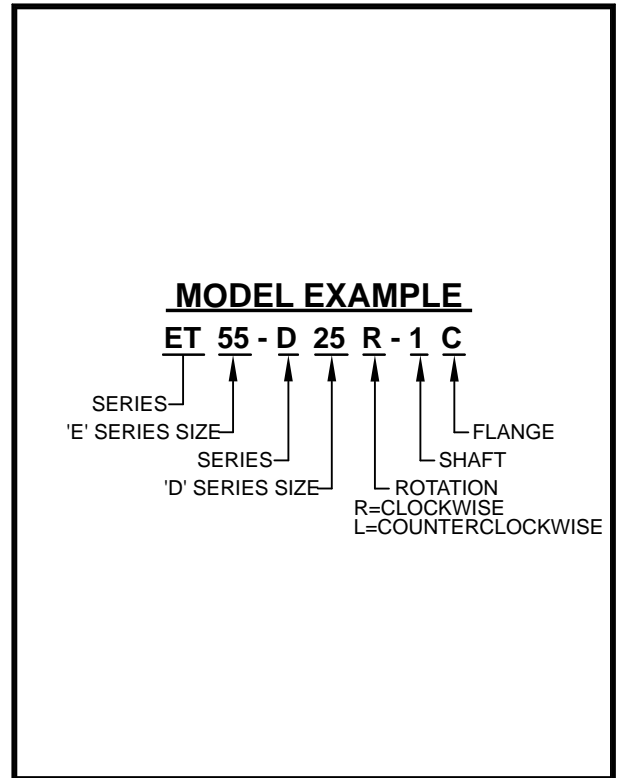
| SAE 4-BOLT CONN. PORTS | | |
|------------------------|------------|-------------|
| SIZE | INLET SIZE | OUTLET SIZE |
| E30 | 2 1/2" | 1 1/4" |
| E35 | 2 1/2" | 1 1/4" |
| E40 | 2 1/2" | 1 1/4" |
| E45 | 3" | 1 1/4" |
| E50 | 3" | 1 1/2" |
| E55 | 3" | 1 1/2" |
| E66 | 3" | 1 1/2" |
| E77 | 3" | 1 1/2" |
| D15 | - | 1" |
| D20 | - | 1" |
| D25 | - | 1 1/4" |
| D30 | - | 1 1/4" |
| D35 | - | 1 1/4" |

| 4-BOLT CONNECTOR CHART | | | | | |
|------------------------|------|-------|------|-------|-----------|
| SIZE | C | D | E | F | G |
| 1" | .51 | 1.031 | 1.03 | 2.062 | 3/8-16NC |
| 1 1/4" | .59 | 1.188 | 1.15 | 2.313 | 7/16-14NC |
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 2 1/2" | 1.00 | 2.000 | 1.75 | 3.500 | 1/2-13NC |
| 3" | 1.21 | 2.438 | 2.09 | 4.188 | 5/8-11NC |

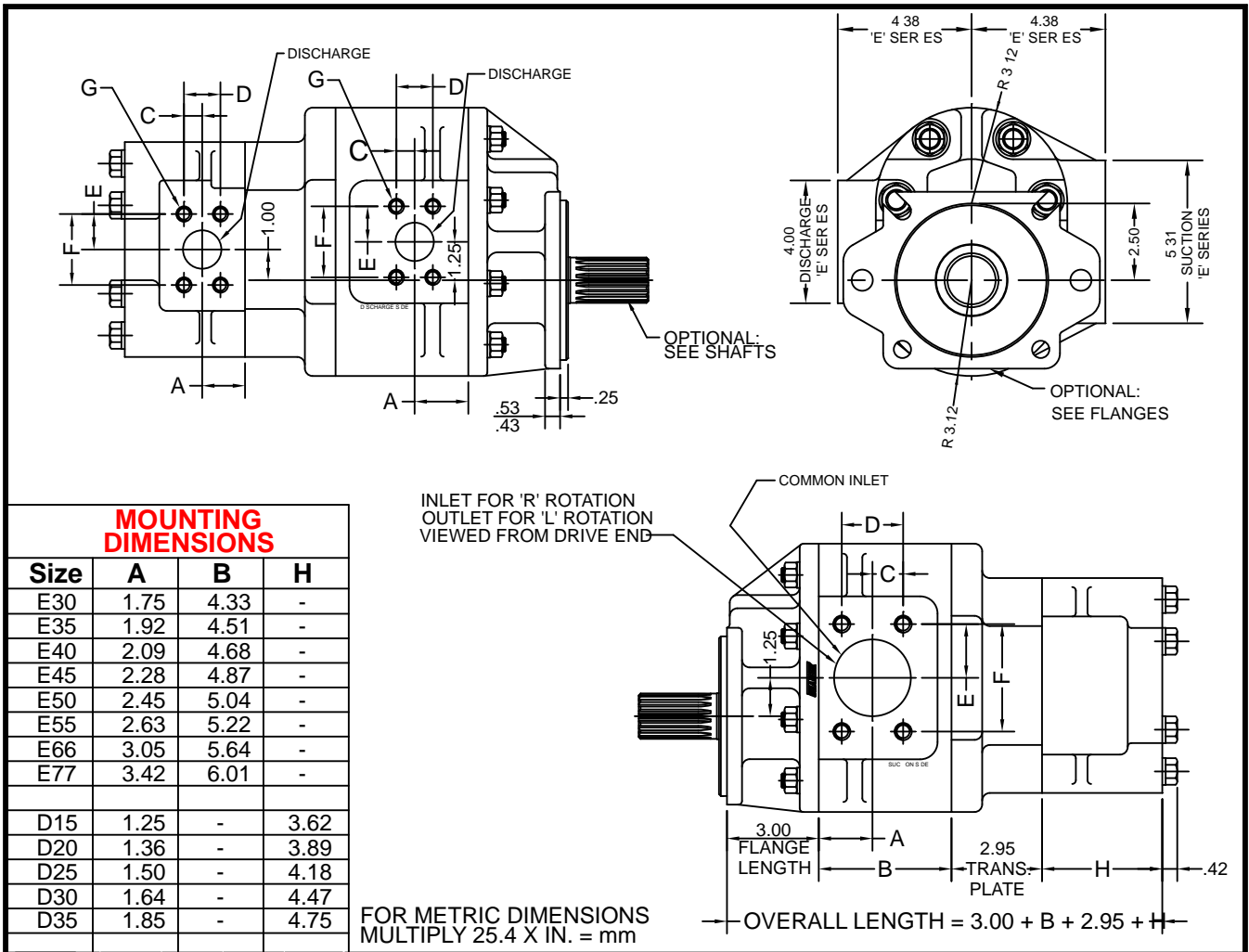
FLANGE AVAILABLE



MODEL EXAMPLE



DIMENSIONAL DATA



MOUNTING DIMENSIONS

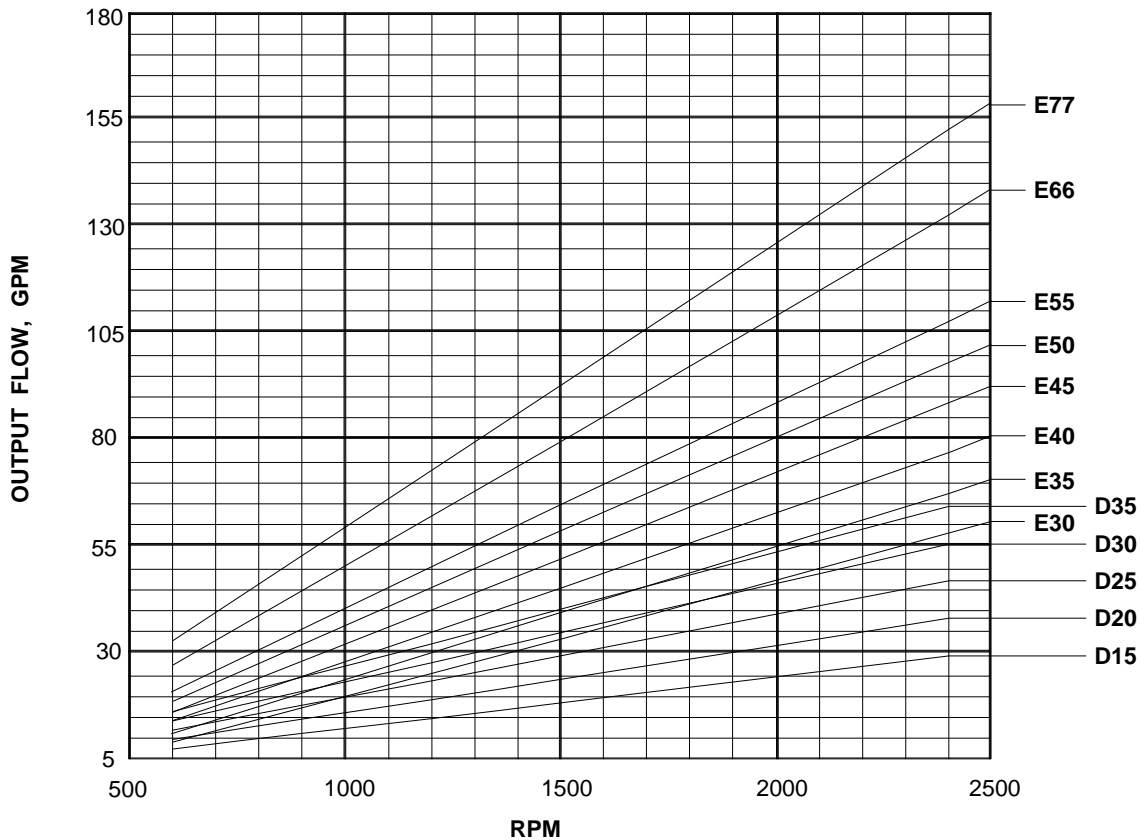
| Size | A | B | H |
|------|------|------|------|
| E30 | 1.75 | 4.33 | - |
| E35 | 1.92 | 4.51 | - |
| E40 | 2.09 | 4.68 | - |
| E45 | 2.28 | 4.87 | - |
| E50 | 2.45 | 5.04 | - |
| E55 | 2.63 | 5.22 | - |
| E66 | 3.05 | 5.64 | - |
| E77 | 3.42 | 6.01 | - |
| D15 | 1.25 | - | 3.62 |
| D20 | 1.36 | - | 3.89 |
| D25 | 1.50 | - | 4.18 |
| D30 | 1.64 | - | 4.47 |
| D35 | 1.85 | - | 4.75 |

FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

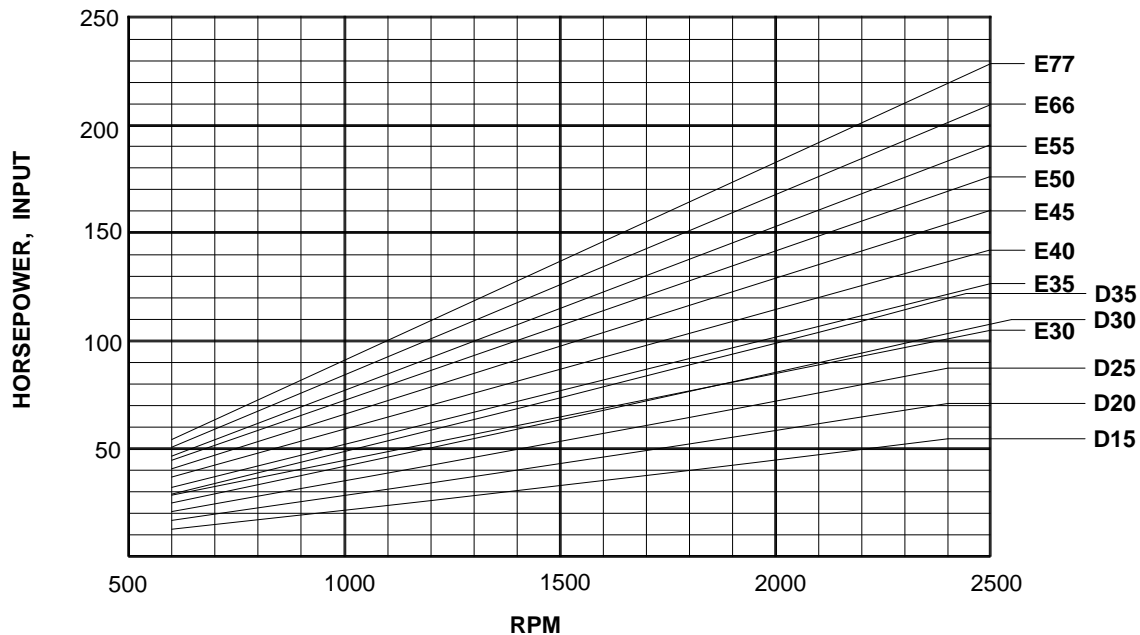
TYPICAL PERFORMANCE DATA

SAE 10W OIL @ 150° (150 SSU)

'ETD' SERIES TYPICAL PUMP FLOW @ 2500 PSI



'ETD' SERIES PUMP HORSEPOWER IN @ 2500 PSI



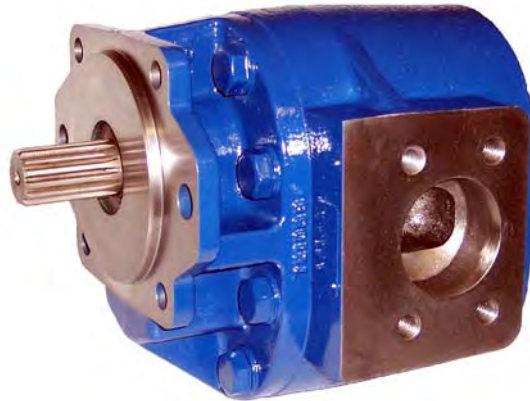


HYDRAULIC GEAR PUMPS AND MOTORS

'ME' Series

SINGLE MOTOR

BI-DIRECTIONAL



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MIN. RPM | MAX. RPM | MAXIMUM PRESSURE | | IN/LB. TORQUE @ 2500 PSI | | HP @ 2500 RPM 2500 PSI |
|------------|---------------------------------------|--------------|-------------|----------|----------|------------------|-----|--------------------------|------|------------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | | | PSI | BAR | START | RUN | |
| ME30 | .0258 | 5.98 | 98.0 | 600 | 2500 | 2500 | 172 | 1520 | 2181 | 74 |
| ME35 | .0300 | 6.93 | 113.5 | 600 | 2500 | 2500 | 172 | 1800 | 2561 | 90 |
| ME40 | .0342 | 7.90 | 129.4 | 600 | 2500 | 2500 | 172 | 2050 | 2940 | 105 |
| ME45 | .0386 | 8.92 | 146.2 | 600 | 2500 | 2500 | 172 | 2350 | 3320 | 124 |
| ME50 | .0427 | 9.86 | 161.6 | 600 | 2500 | 2500 | 172 | 2950 | 3600 | 132 |
| ME55 | .0470 | 10.86 | 178.0 | 600 | 2500 | 2500 | 172 | 3500 | 4000 | 150 |
| ME66 | .0570 | 13.17 | 215.9 | 600 | 2500 | 2500 | 172 | 4400 | 4900 | 170 |
| ME77 | .0658 | 15.20 | 249.2 | 600 | 2500 | 2500 | 172 | 4550 | 5500 | 200 |
| ME95 | .0819 | 18.91 | 309.9 | 600 | 2000 | 2000 | 138 | 4996 | 6019 | 203 |

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 204 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS

- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

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CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

| | | | | | | | | | |
|--|-----------------|-------|----------------|-----|--------------|----|------------|-------------|---|
| <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> 1 </div> <h2 style="text-align: center; color: red;">1 1/4"-14 TOOTH SPLINE</h2> <p style="text-align: center;">TORQUE LIMIT 650 FT/LBS</p> <p style="text-align: center;">SPLINE DATA</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="border-bottom: 1px solid black;">DIAMETRAL PITCH</td><td style="border-bottom: 1px solid black;">12/24</td></tr> <tr><td style="border-bottom: 1px solid black;">PRESSURE ANGLE</td><td style="border-bottom: 1px solid black;">30°</td></tr> <tr><td style="border-bottom: 1px solid black;">NO. OF TEETH</td><td style="border-bottom: 1px solid black;">14</td></tr> <tr><td style="border-bottom: 1px solid black;">MINOR DIA.</td><td style="border-bottom: 1px solid black;">1.062-1.050</td></tr> </table> | DIAMETRAL PITCH | 12/24 | PRESSURE ANGLE | 30° | NO. OF TEETH | 14 | MINOR DIA. | 1.062-1.050 | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> 2 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> 5 </div> <h2 style="text-align: center; color: red;">1 1/4" STRAIGHT</h2> <p style="text-align: center;">TORQUE LIMIT 650 FT/LBS</p> <p style="text-align: center;">E55, E66, E77 & E95 ONLY</p> |
| DIAMETRAL PITCH | 12/24 | | | | | | | | |
| PRESSURE ANGLE | 30° | | | | | | | | |
| NO. OF TEETH | 14 | | | | | | | | |
| MINOR DIA. | 1.062-1.050 | | | | | | | | |

STANDARD SAE 4-BOLT CONNECTOR PORTS

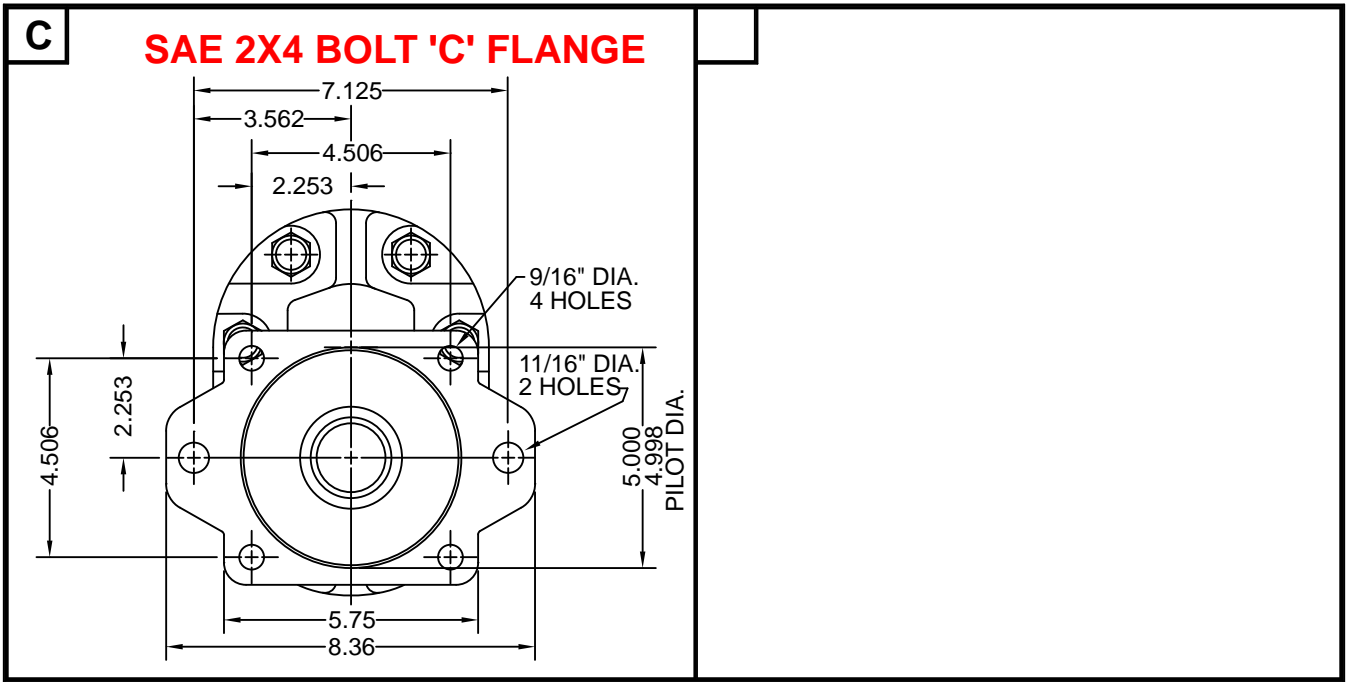
SAE 4-BOLT CONN. PORTS

| SIZE | INLET SIZE | OUTLET SIZE |
|------|------------|-------------|
| ME30 | 2" | 2" |
| ME35 | 2" | 2" |
| ME40 | 2" | 2" |
| ME45 | 2" | 2" |
| ME50 | 2" | 2" |
| ME55 | 2" | 2" |
| ME66 | 2" | 2" |
| ME77 | 2" | 2" |
| ME95 | 3" | 2" |

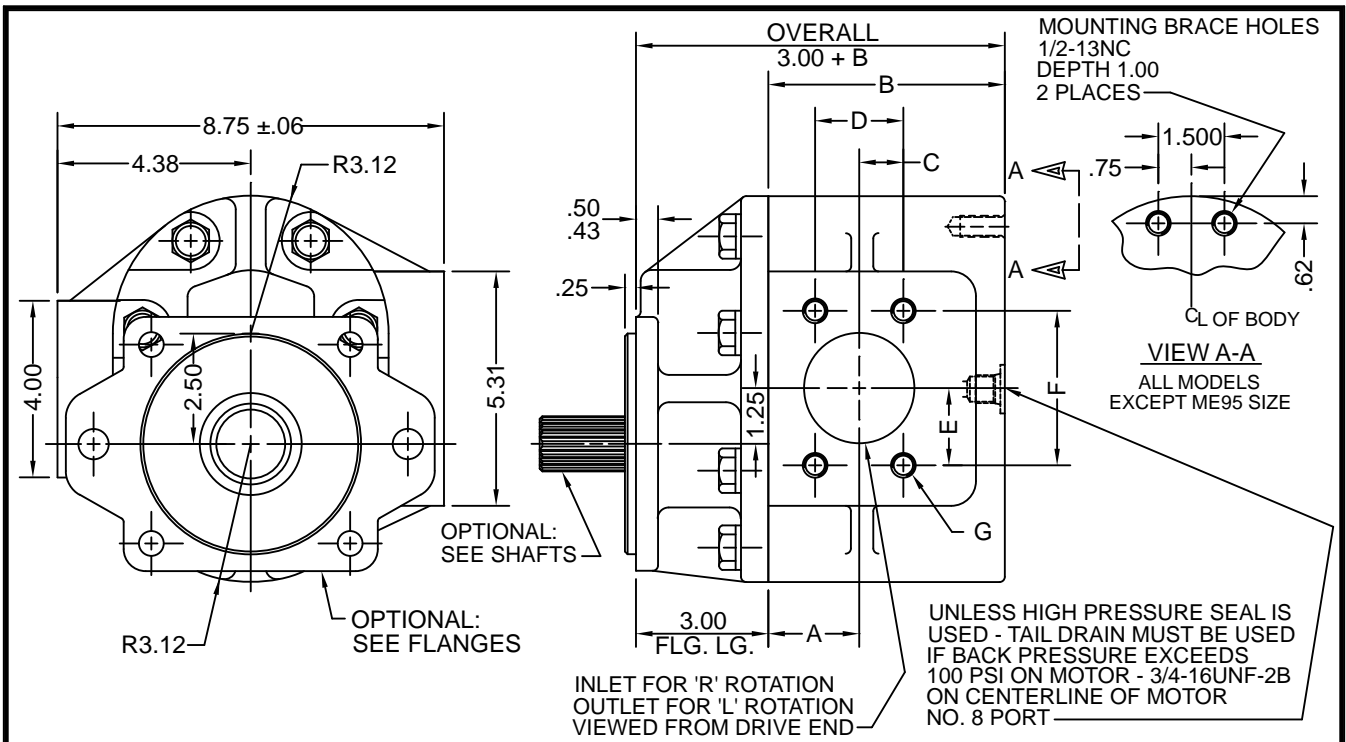
4-BOLT CONNECTOR CHART

| SIZE | C | D | E | F | G |
|------|------|-------|------|-------|----------|
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |
| 3" | 1.22 | 2.438 | 2.09 | 4.188 | 5/8-11NC |
| | | | | | |
| | | | | | |

FLANGES AVAILABLE



DIMENSIONAL DATA



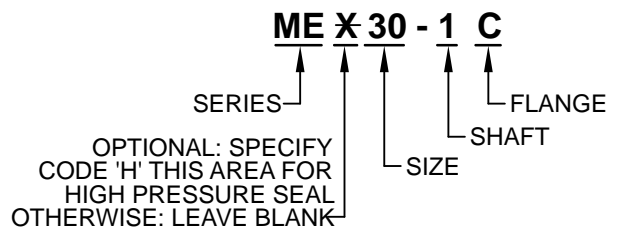
FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

MOUNTING DIMENSIONS

| SIZE | A | B |
|------|------|------|
| ME30 | 1.75 | 4.92 |
| ME35 | 1.92 | 5.10 |
| ME40 | 2.09 | 5.27 |
| ME45 | 2.28 | 5.46 |
| ME50 | 2.45 | 5.63 |
| ME55 | 2.63 | 5.81 |
| ME66 | 3.05 | 6.23 |
| ME77 | 3.42 | 6.60 |
| ME95 | 3.00 | 7.27 |

* THE OPTIONAL HIGH PRESSURE SEAL MAY BE USED WHEN DRAIN LINES ARE NOT PRACTICAL.
FOR SYSTEMS TOLERATING A DRAIN LINE, ELIMINATE THE 'H' FROM THE MODEL CODE.

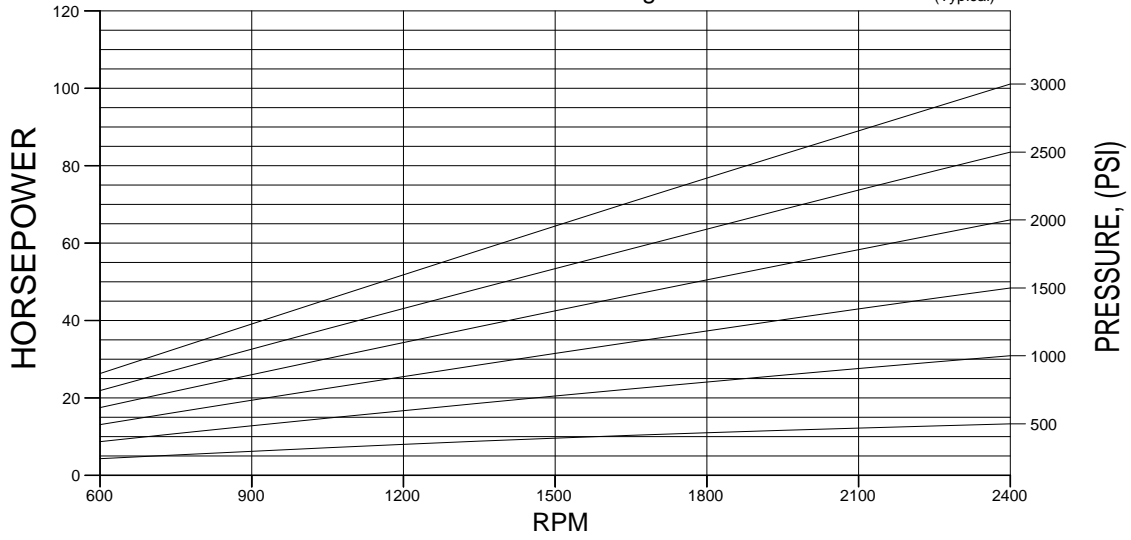
MODEL EXAMPLE



GEARTEK ME30 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

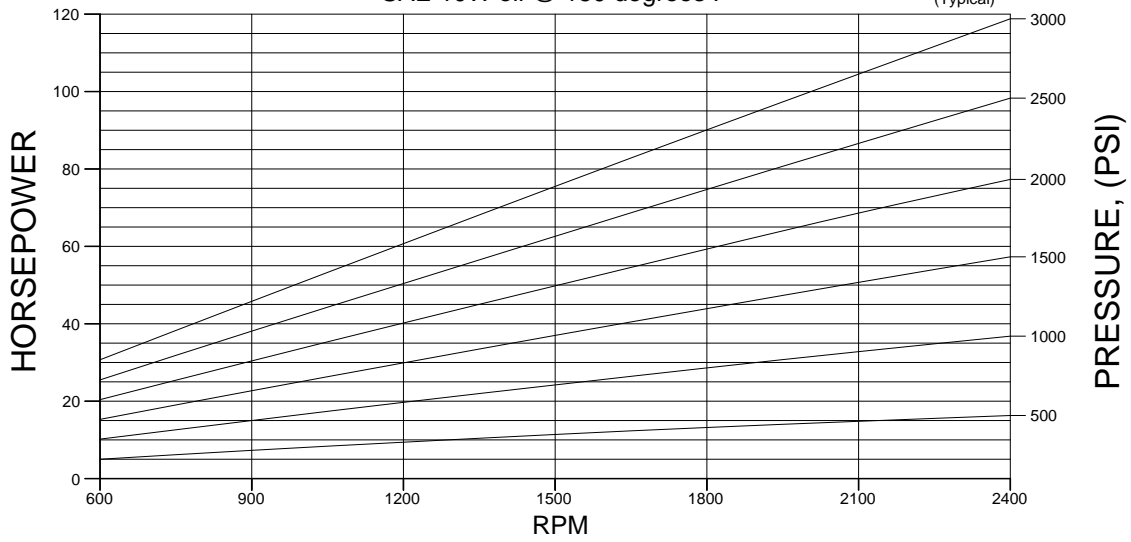
(Typical)



GEARTEK ME35 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

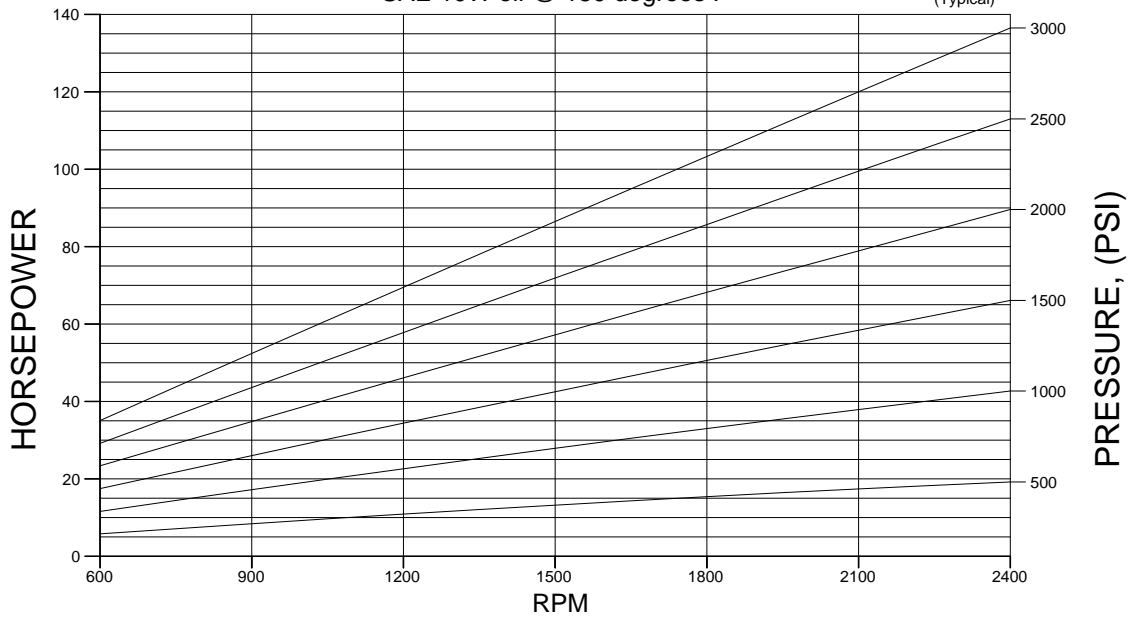
(Typical)



GEARTEK ME40 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

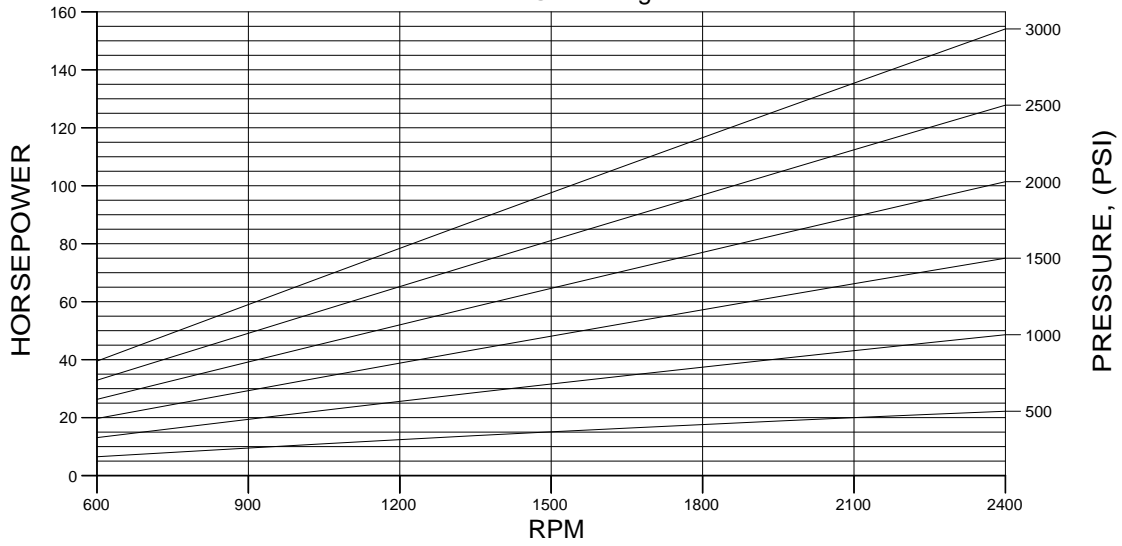
(Typical)



GEARTEK ME45 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

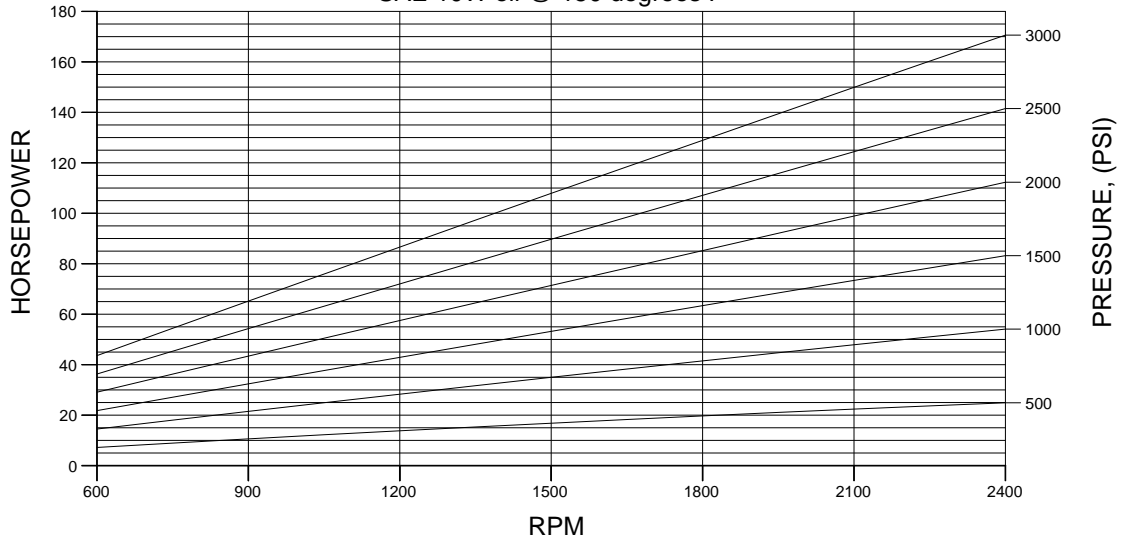
(Typical)



GEARTEK ME50 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

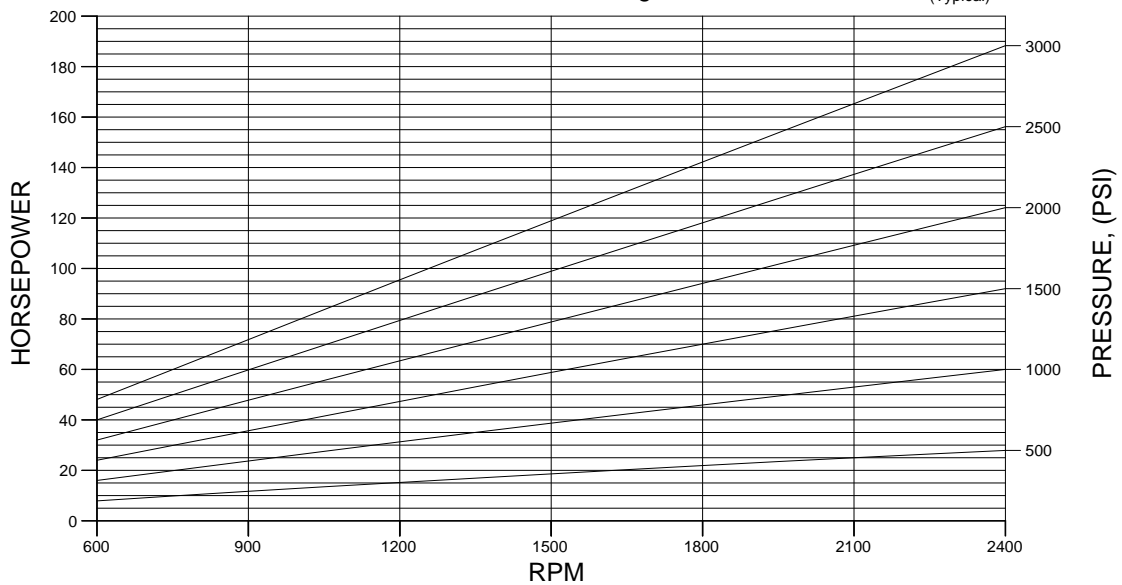
(Typical)



GEARTEK ME55 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

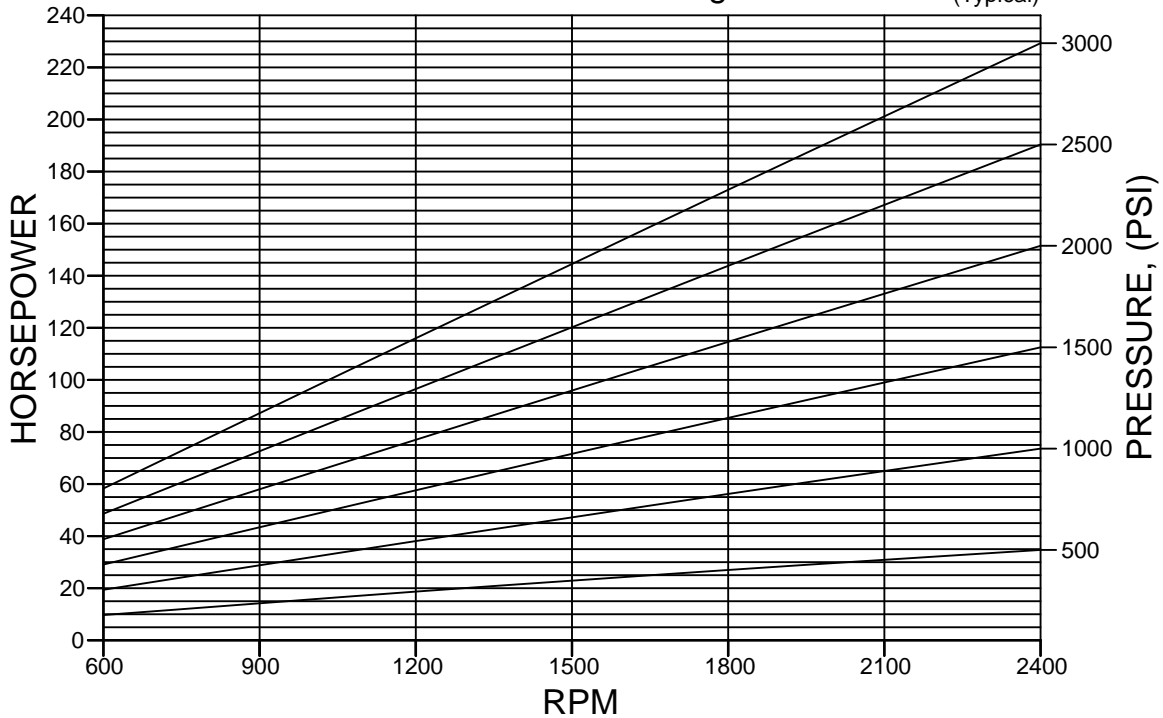
(Typical)



GEARTEK ME66 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

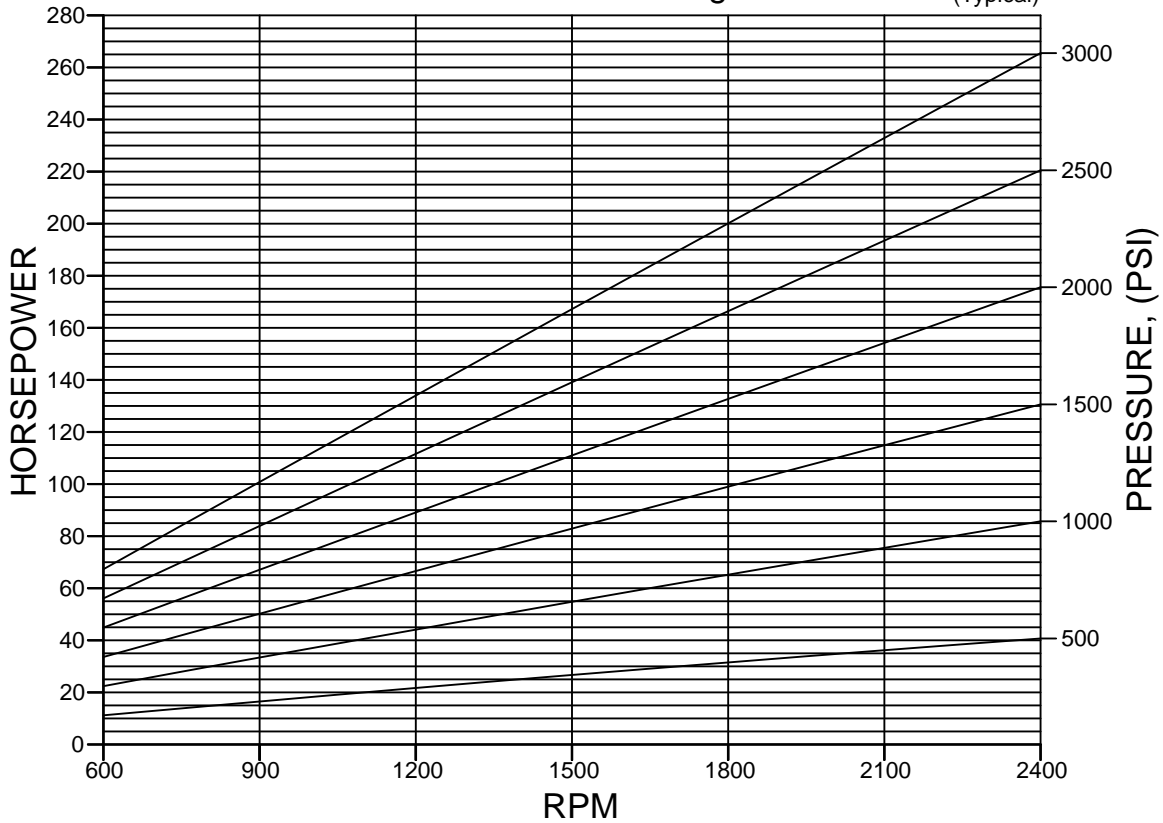
(Typical)



GEARTEK ME77 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

(Typical)





HYDRAULIC GEAR PUMPS AND MOTORS

'ME' Series

TANDEM MOTOR

BI-DIRECTIONAL



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MIN. RPM | MAX. RPM | MAXIMUM PRESSURE | | IN/LB. TORQUE @ 2500 PSI | | HP @ 2500 RPM 2500 PSI |
|------------|---------------------------------------|--------------|-------------|----------|----------|------------------|-----|--------------------------|------|------------------------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | | | PSI | BAR | START | RUN | |
| ME30 | .0258 | 5.98 | 98.0 | 600 | 2500 | 2500 | 172 | 1520 | 2181 | 74 |
| ME35 | .0300 | 6.93 | 113.5 | 600 | 2500 | 2500 | 172 | 1800 | 2561 | 90 |
| ME40 | .0342 | 7.90 | 129.4 | 600 | 2500 | 2500 | 172 | 2050 | 2940 | 105 |
| ME45 | .0386 | 8.92 | 146.2 | 600 | 2500 | 2500 | 172 | 2350 | 3320 | 124 |
| ME50 | .0427 | 9.86 | 161.6 | 600 | 2500 | 2500 | 172 | 2950 | 3600 | 132 |
| ME55 | .0470 | 10.86 | 178.0 | 600 | 2500 | 2500 | 172 | 3500 | 4000 | 150 |
| ME66 | .0570 | 13.17 | 215.9 | 600 | 2500 | 2500 | 172 | 4400 | 4900 | 170 |
| ME77 | .0658 | 15.20 | 249.2 | 600 | 2500 | 2500 | 172 | 4550 | 5500 | 200 |
| ME95 | .0819 | 18.91 | 309.9 | 600 | 2000 | 2000 | 138 | 4996 | 6019 | 203 |

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 204 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON® SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS

- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

P. O. BOX 2160, 1506 FULTON DR.
CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFTS AVAILABLE

1

1 1/4"-14 TOOTH SPLINE
TORQUE LIMIT 650 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.062-1.050 |

1.229
1.223
DIA.
1.65
FULL SPLINE
2.19
FLG. MTG. SURFACE

7

1 1/2" STRAIGHT
TORQUE LIMIT 1180 FT/LBS

8

E55 & E77 ONLY

3/8"x3/8"x1 1/2" KEY
1.499
DIA.
2.94 - NO. 7
5.00 - NO. 8
FLG. MTG. SURFACE

6

1 1/2"-17 TOOTH SPLINE
TORQUE LIMIT 1180 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 12/24 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 17 |
| MINOR DIA. | 1.290-1.300 |

1.480-1.474
DIA.
1.93
FULL SPLINE
2.88
FLG. MTG. SURFACE

9

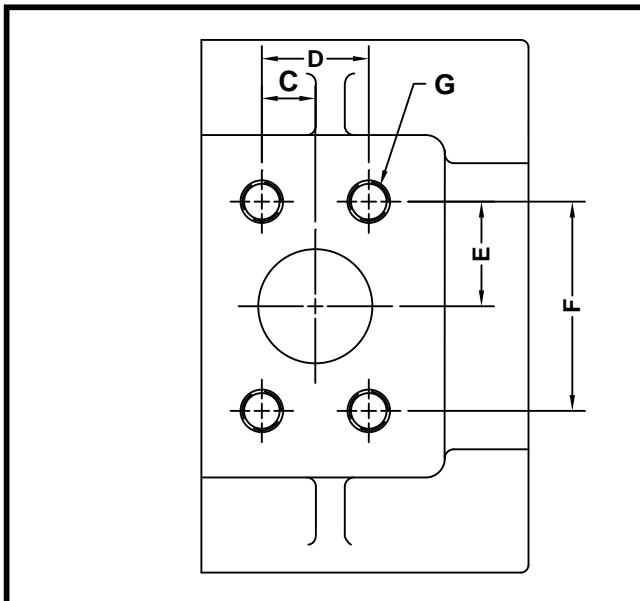
1 1/2"-14 TOOTH SPLINE
TORQUE LIMIT 1180 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 10/20 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 14 |
| MINOR DIA. | 1.251-1.271 |

1.480-1.474
DIA.
1.93
FULL SPLINE
2.88
FLG. MTG. SURFACE

STANDARD SAE 4-BOLT CONNECTOR PORTS



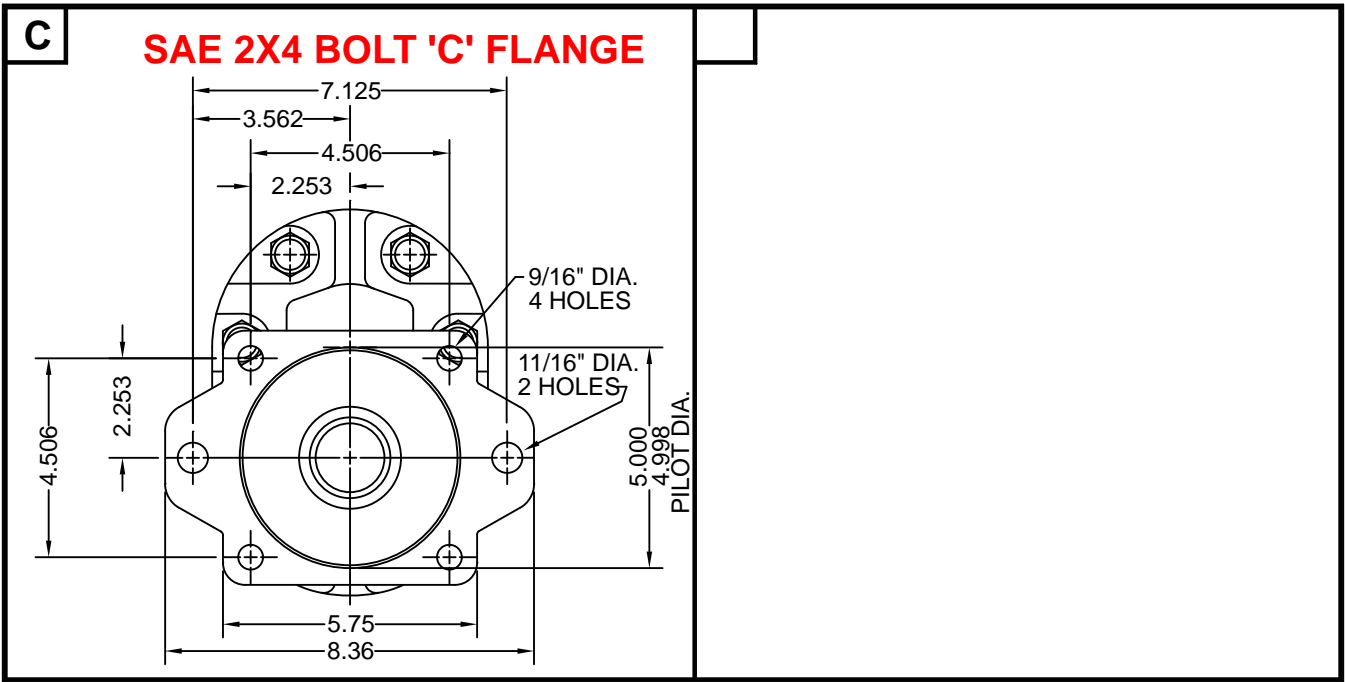
SAE 4-BOLT CONN. PORTS

| SIZE | INLET SIZE | OUTLET SIZE |
|------|------------|-------------|
| ME30 | 2" | 2" |
| ME35 | 2" | 2" |
| ME40 | 2" | 2" |
| ME45 | 2" | 2" |
| ME50 | 2" | 2" |
| ME55 | 2" | 2" |
| ME66 | 2" | 2" |
| ME77 | 2" | 2" |

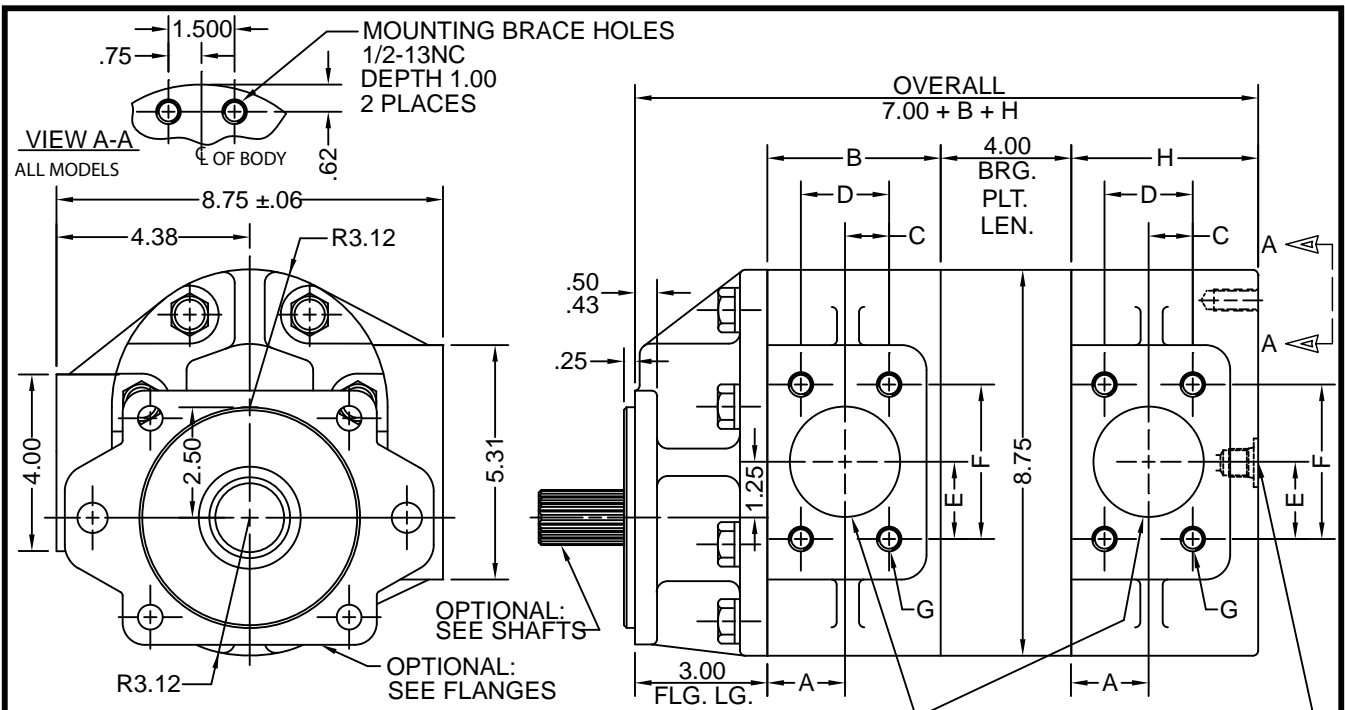
4-BOLT CONNECTOR CHART

| SIZE | C | D | E | F | G |
|------|-----|-------|------|-------|----------|
| 2" | .84 | 1.688 | 1.53 | 3.062 | 1/2-13NC |
| | | | | | |
| | | | | | |

FLANGES AVAILABLE



DIMENSIONAL DATA



FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

INLET FOR 'R' ROTATION
OUTLET FOR 'L' ROTATION
VIEWED FROM DRIVE END

UNLESS HIGH PRESSURE SEAL IS USED
TAIL DRAIN MUST BE USED IF BACK
PRESSURE EXCEEDS 100 PSI ON MOTOR
3/4-16UNF-2B ON MOTOR CENTERLINE
NO. 8 PORT

OTHER PORT TYPES AVAILABLE
CONSULT FACTORY

MOUNTING DIMENSIONS

| SIZE | A | B | H |
|------|------|------|------|
| ME30 | 1.75 | 4.33 | 4.92 |
| ME35 | 1.92 | 4.51 | 5.10 |
| ME40 | 2.09 | 4.68 | 5.27 |
| ME45 | 2.28 | 4.87 | 5.46 |
| ME50 | 2.45 | 5.04 | 5.63 |
| ME55 | 2.63 | 5.22 | 5.81 |
| ME66 | 3.05 | 5.64 | 6.23 |
| ME77 | 3.42 | 6.01 | 6.60 |
| - | - | - | - |

* THE OPTIONAL HIGH PRESSURE SEAL MAY BE USED WHEN DRAIN LINES ARE NOT PRACTICAL. FOR SYSTEMS TOLERATING A DRAIN LINE, ELIMINATE THE 'H' FROM THE MODEL CODE.

MODEL EXAMPLE

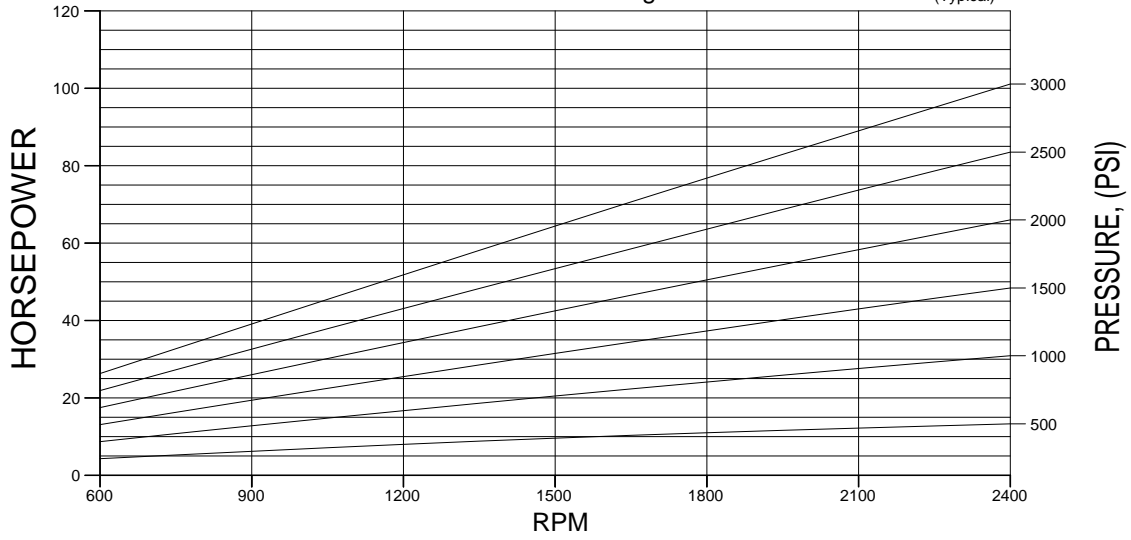
ME X 30-30 - 1 C

SERIES
OPTIONAL: SPECIFY CODE 'H' THIS AREA FOR HIGH PRESSURE SEAL OTHERWISE: LEAVE BLANK
SIZE
SHAFT
FLANGE

GEARTEK ME30 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

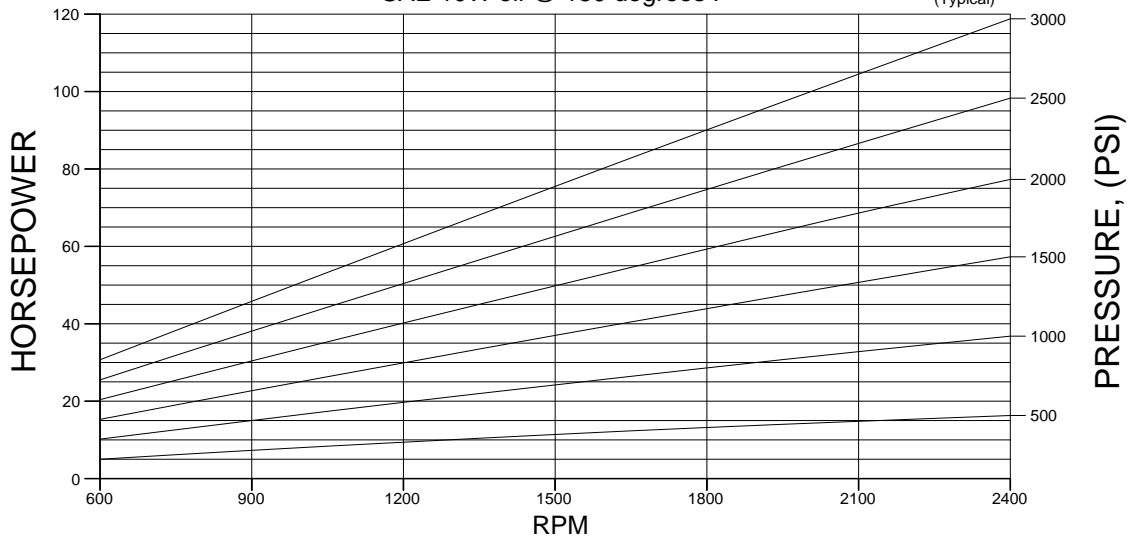
(Typical)



GEARTEK ME35 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

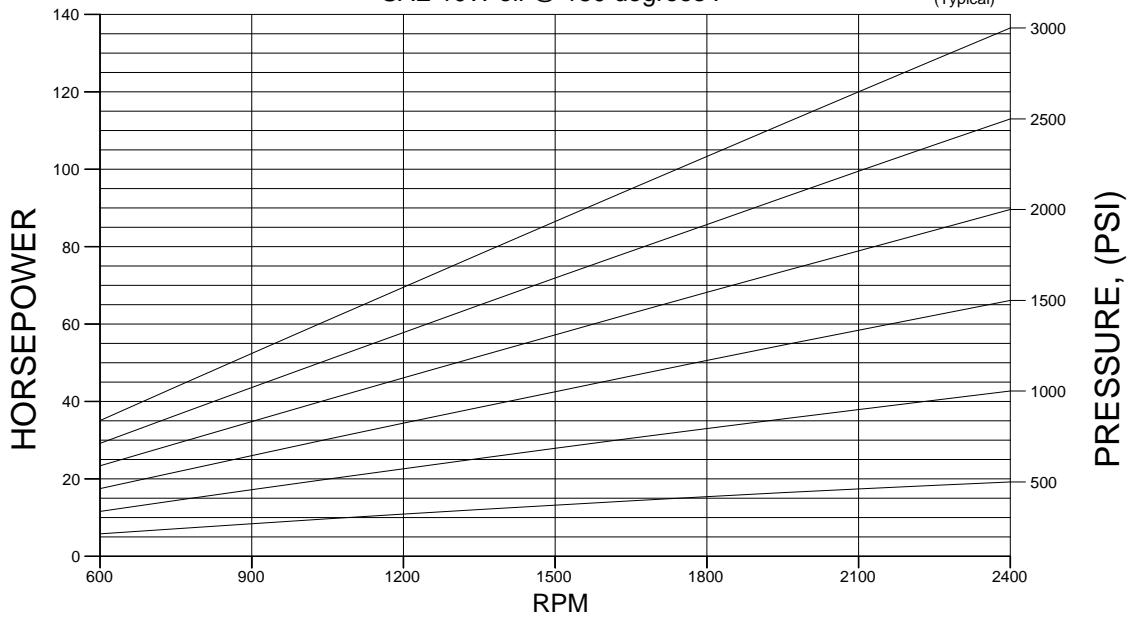
(Typical)



GEARTEK ME40 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

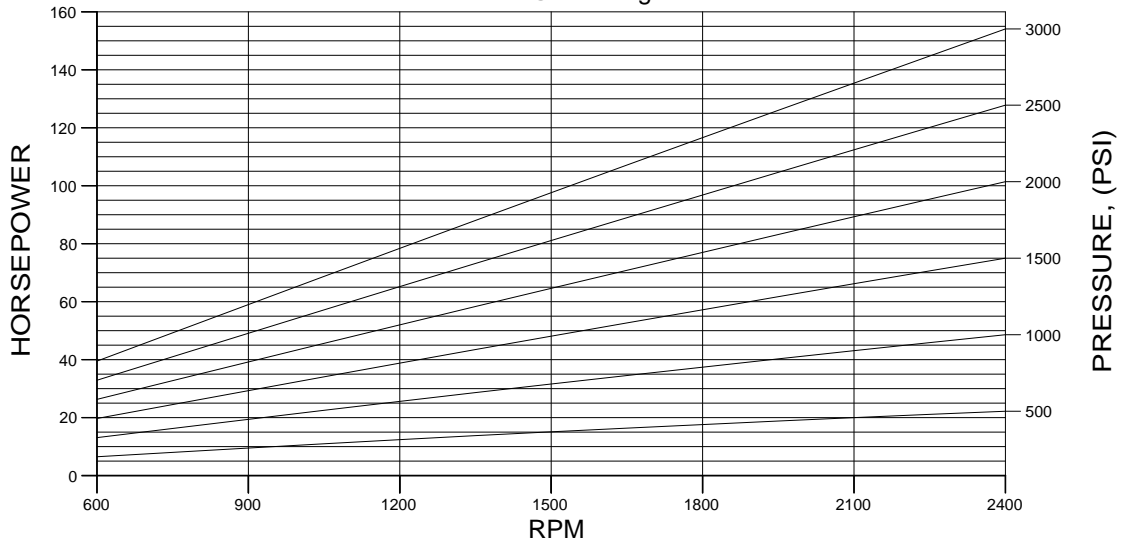
(Typical)



GEARTEK ME45 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

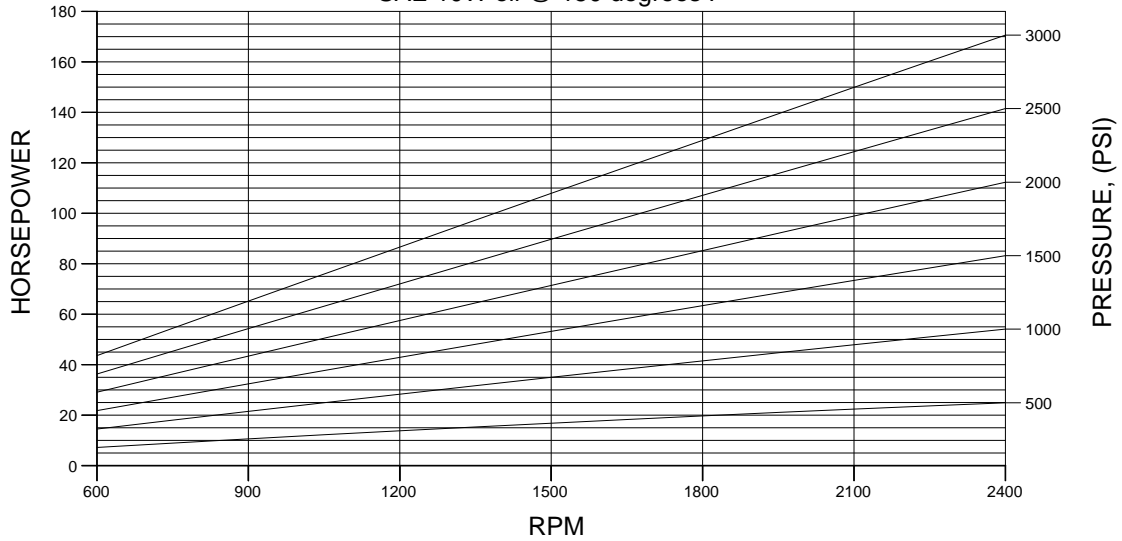
(Typical)



GEARTEK ME50 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

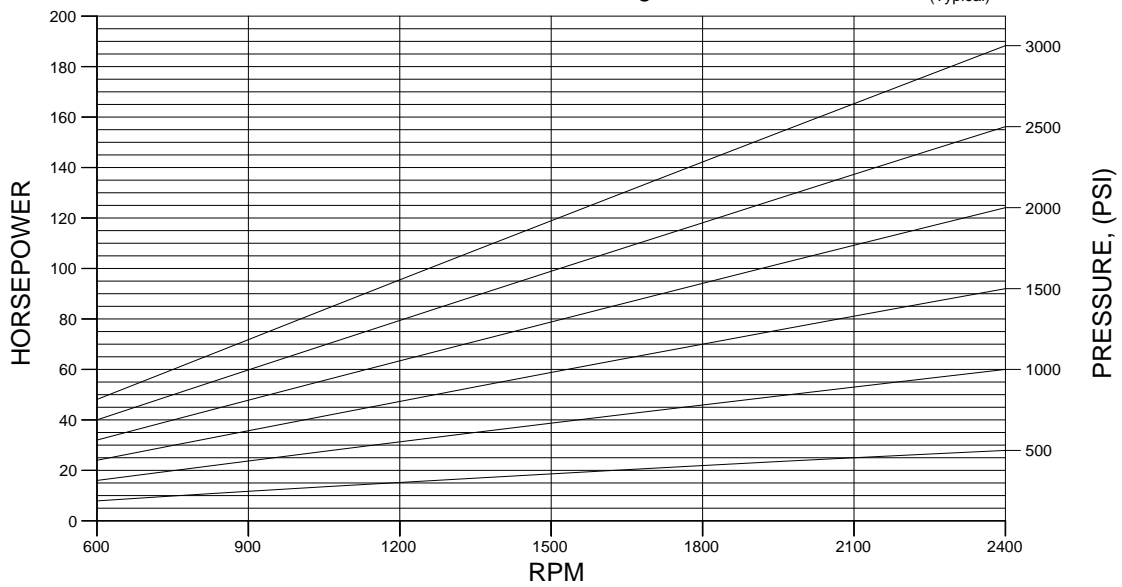
(Typical)



GEARTEK ME55 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

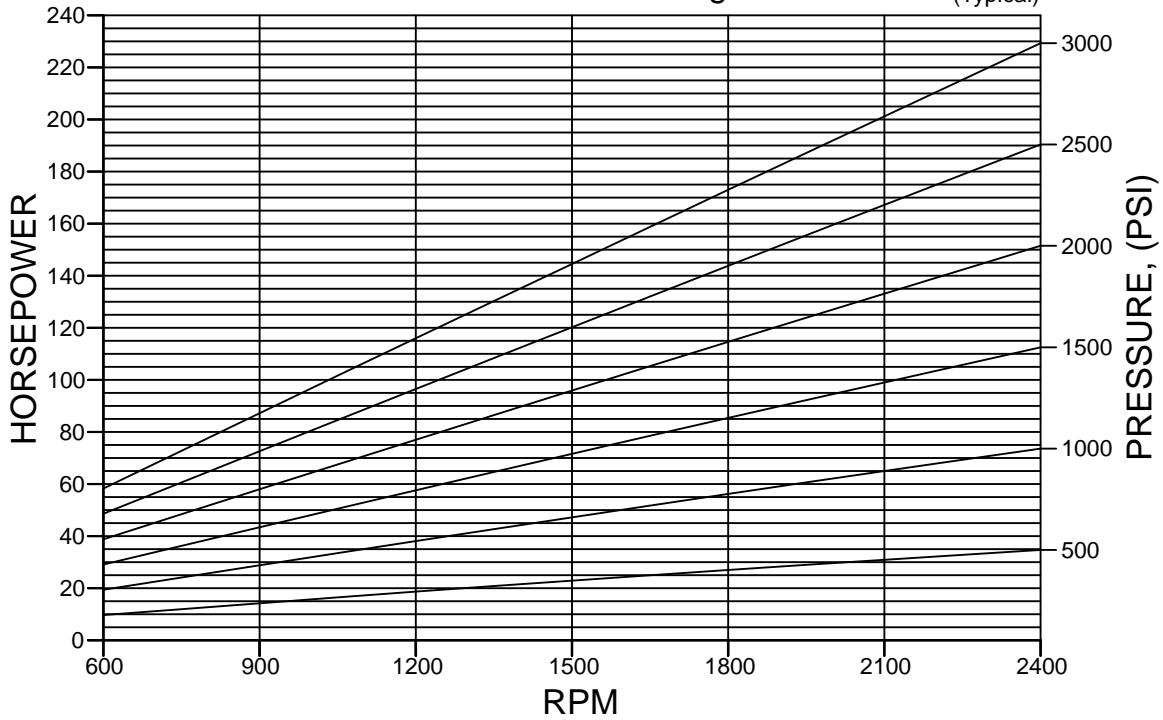
(Typical)



GEARTEK ME66 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

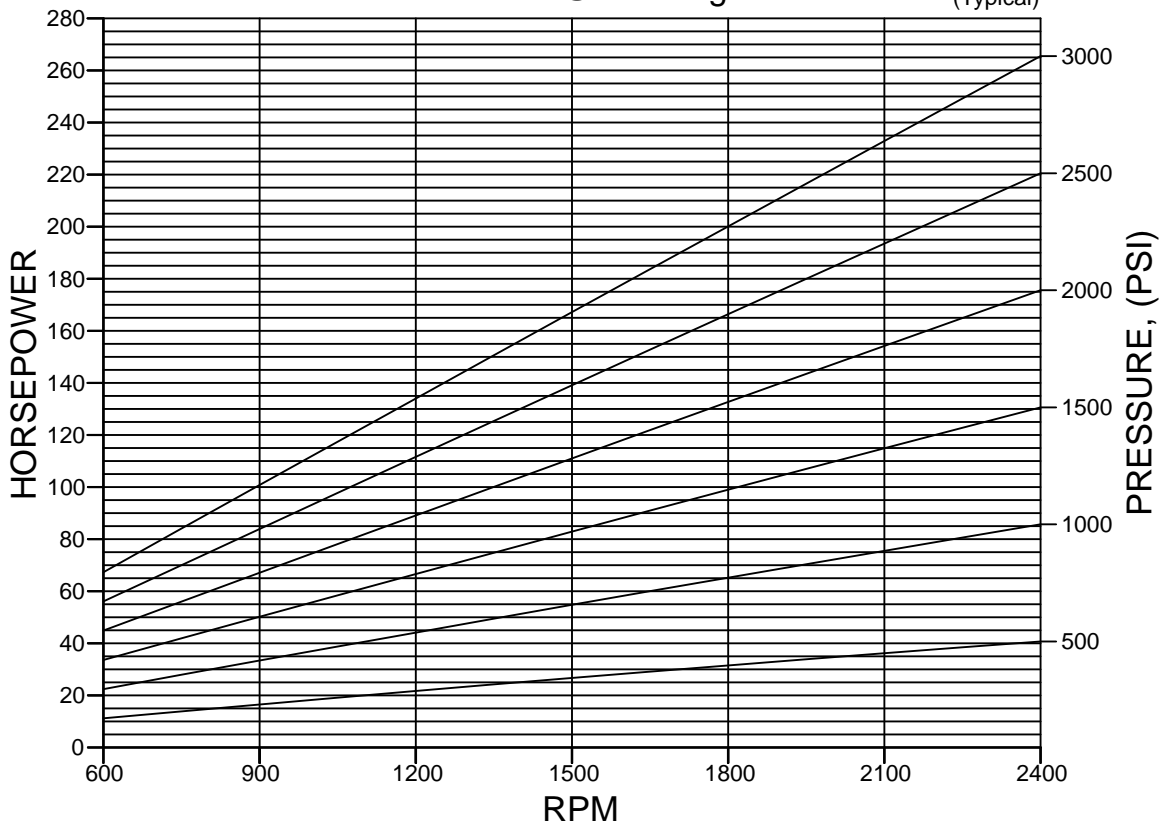
(Typical)



GEARTEK ME77 MOTOR PERFORMANCE

SAE 10W oil @ 150 degrees F

(Typical)





HYDRAULIC GEAR PUMPS AND MOTORS

'F' Series

SINGLE PUMP

TANDEM AND PIGGY BACK
AVAILABLE



Performance Data

| MODEL SIZE | DISPLACEMENT/REVOLUTION (THEORETICAL) | | | MIN. RPM | MAX. RPM | MAXIMUM PRESSURE | |
|---------------|--|--------------|-------------|-------------|-------------|------------------|-------|
| | U.S. GALLONS | CUBIC INCHES | CUBIC CENT. | | | PSI | BAR |
| | F45 | .0386 | 8.92 | 146.2 | 600 | 2500 | 4000* |
| F50 | .0427 | 9.86 | 161.6 | 600 | 2500 | 4000* | 262 |
| F55 | .0470 | 10.86 | 178.0 | 600 | 2500 | 3400* | 234 |
| F66 | .0570 | 13.17 | 215.9 | 600 | 2500 | 2900* | 200 |
| F77 | .0658 | 15.20 | 249.2 | 600 | 2500 | 2750* | 172 |
| F85 | .0727 | 16.79 | 275.2 | 600 | 2500 | 2250* | 155 |

* CONSULT FACTORY WITH TYPE APPLICATION

- CAST IRON THROUGHOUT
- PRESSURES TO 4000 PSI
- FLOWS TO 164 GPM
- HEAVY DUTY SLEEVE TYPE BEARINGS
- DOUBLE VITON @SHAFT SEALS STANDARD
- PRESSURE COMPENSATED THRUST PLATES
- DESIGNED FOR HEAVY DUTY APPLICATIONS
- SINGLE AND MULTI-STAGE CONFIGURATIONS
- VARIOUS SHAFT, FLANGE AND PORT OPTIONS
- PRECISION GEARS MACHINED FROM SOLID BAR STOCK
- COMPATIBLE WITH MOST FIRE RESISTANT FLUIDS
- CONTAMINANT RESISTANT
- COMPUTER DESIGNED AND MANUFACTURED
- QUALITY CERTIFIED
- FLEXIBLE DESIGN FOR NEW OR OEM REPLACEMENTS
- SERVICE SUPPORTED BY DEDICATION AND INVENTORY

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CORINTH, MISSISSIPPI 38835

Phone: 662/286-2252 Fax: 662/287-6580 E-mail: haisales@geartek.com Http: www.geartek.com

SHAFT AVAILABLE

2 **1 3/4"-13 TOOTH SPLINE**
 TORQUE LIMIT 1800 FT/LBS

SPLINE DATA

| | |
|-----------------|-------------|
| DIAMETRAL PITCH | 8/16 |
| PRESSURE ANGLE | 30° |
| NO. OF TEETH | 13 |
| MINOR DIA. | 1.471-1.453 |

PORT AVAILABLE

3 **SAE 4-BOLT CONNECTOR**
 3" SUCTION
 1 1/2" DISCHARGE
 OPTIONAL PORTS AVAILABLE

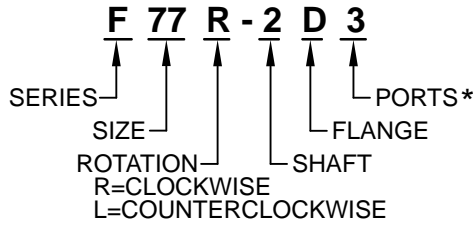
FLANGE AVAILABLE

D **SAE 'D' FLANGE**

DIMENSIONAL DATA

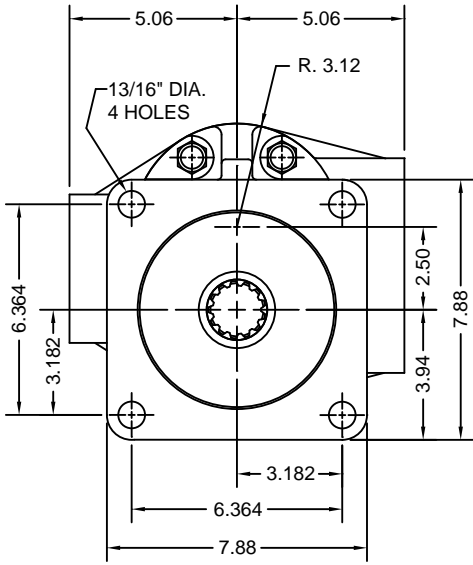
SPECIAL MODELS AVAILABLE
IN TANDEM AND PIGGY BACK
CONSULT FACTORY

MODEL EXAMPLE

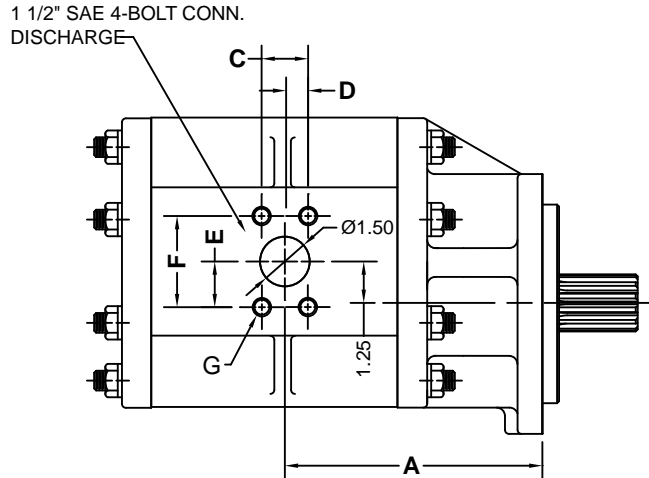
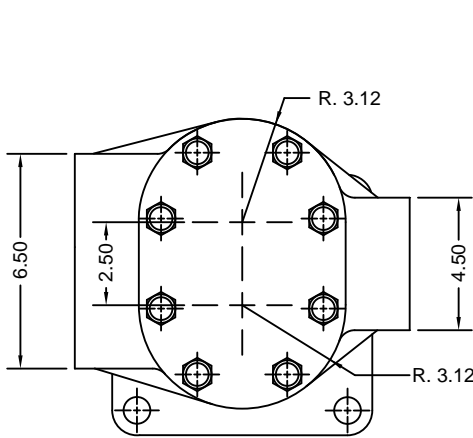
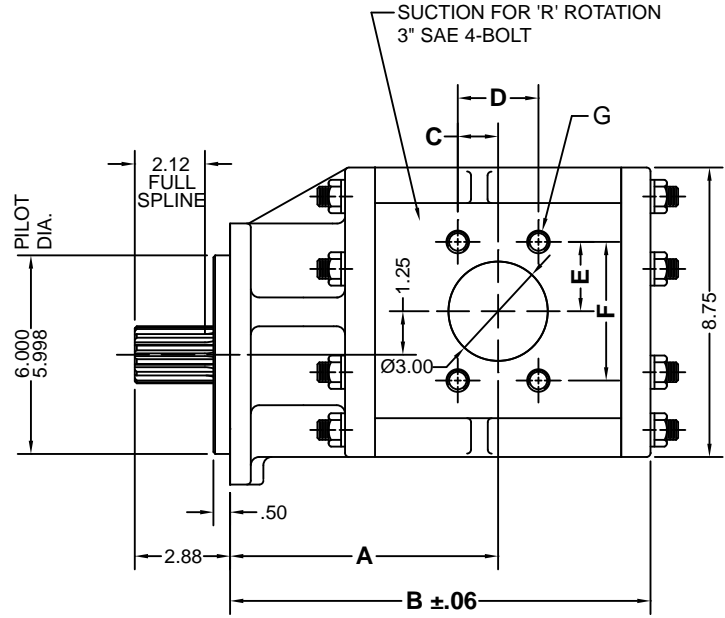


* F77 & F85 AVAILABLE WITH 4" SAE
4-BOLT SUCTION AND 2" SAE
4-BOLT DISCHARGE PORT - CODE 4

F77 & F85 WITH 3" AND 1 1/2" PORTS
WILL BE ROTATED 90° FROM
PICTURE BELOW



DRAWN FOR 'R' RIGHT HAND ROTATION



MOUNTING DIMENSIONS

| SIZE | A | B |
|-------|------|-------|
| F45 | 6.68 | 11.38 |
| F50 | 6.90 | 11.61 |
| F55 | 7.13 | 11.83 |
| F66 | 7.66 | 12.36 |
| * F77 | 8.13 | 12.82 |
| * F85 | 8.13 | 13.19 |

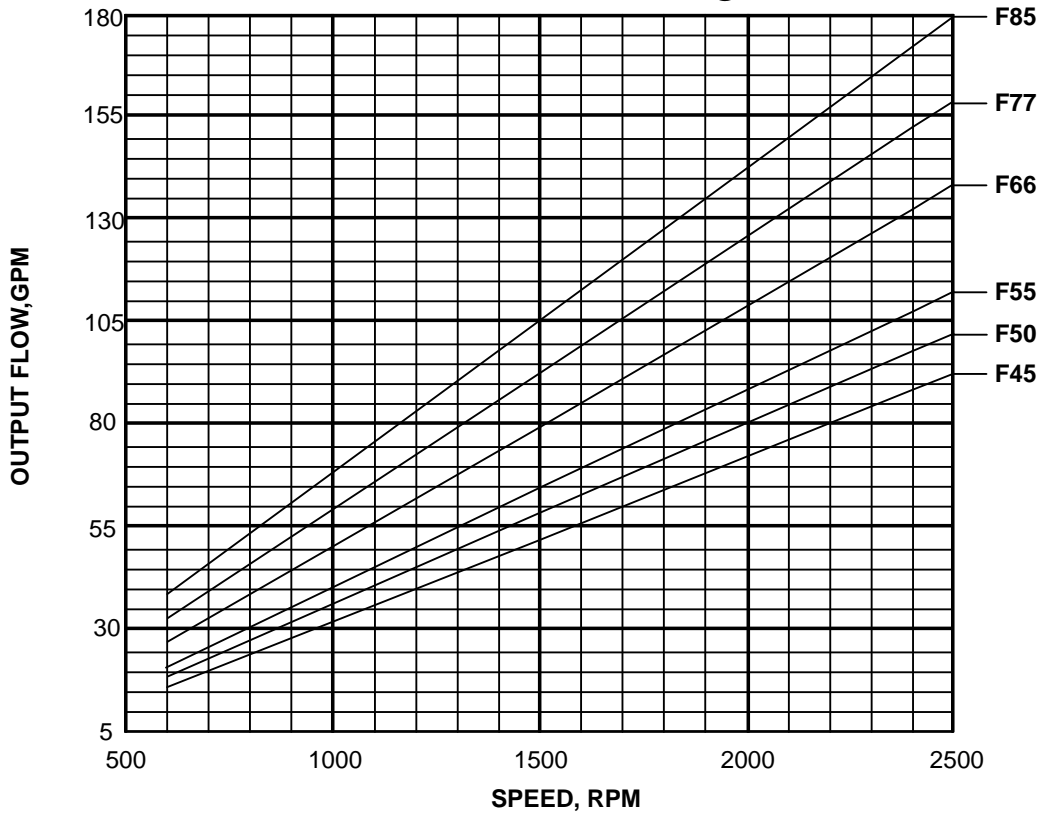
FOR METRIC DIMENSIONS
MULTIPLY 25.4 X IN. = mm

4-BOLT CONNECTOR CHART

| SIZE | C | D | E | F | G |
|--------|------|-------|------|-------|----------|
| 1 1/2" | .70 | 1.406 | 1.37 | 2.750 | 1/2-13NC |
| 3" | 1.21 | 2.438 | 2.09 | 4.188 | 5/8-11NC |

TYPICAL PERFORMANCE DATA
 SAE 10W oil @ 150 DEGREES FAHRENHEIT
 (150 SSU)

'F' SERIES TYPICAL PUMP FLOW @ 2500 PSI



'F' SERIES PUMP HORSEPOWER IN @ 2500 PSI

