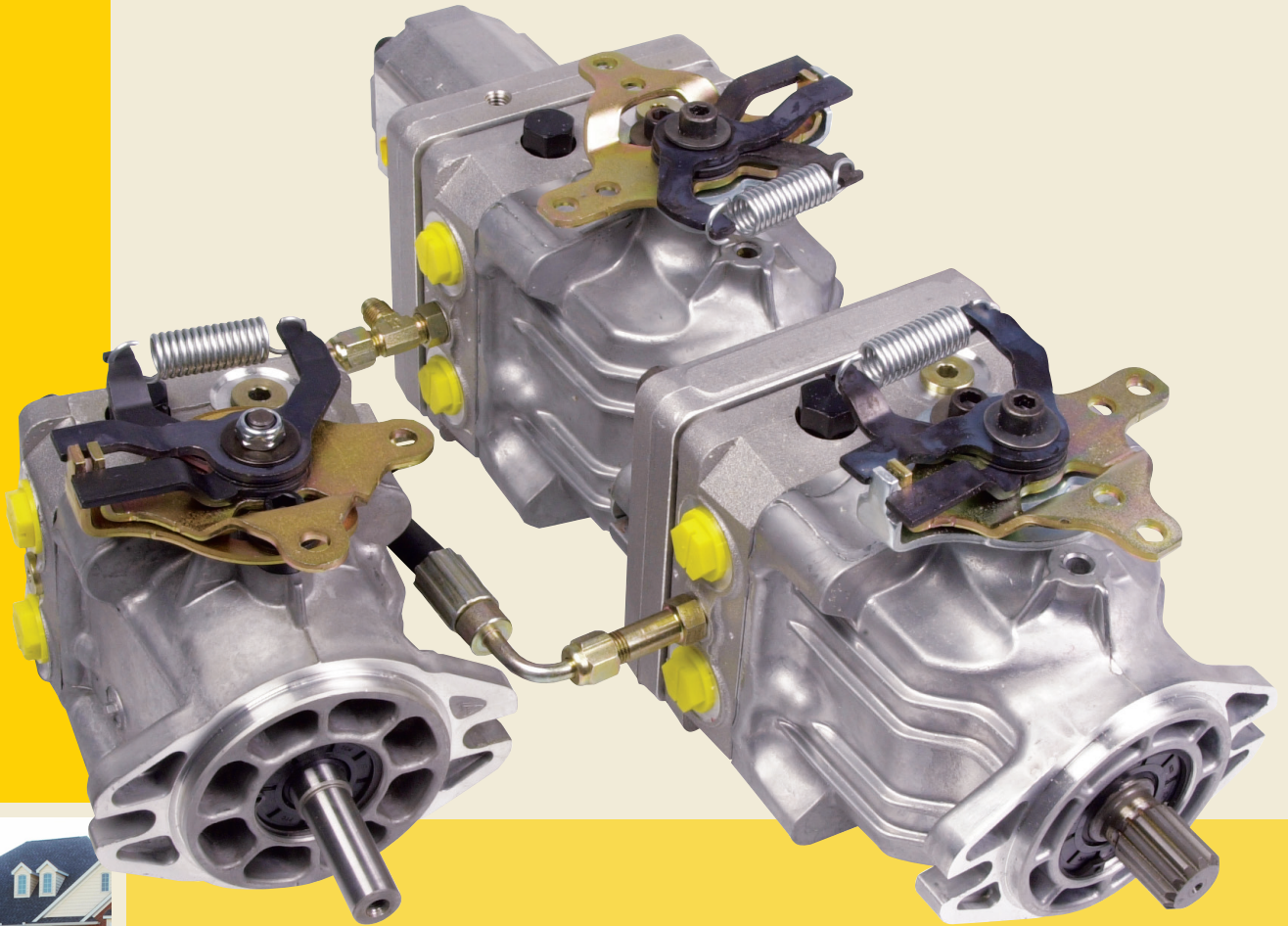
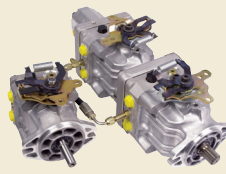


PUMPS



FORWARD MOTION THROUGH FORWARD THINKING®

HYDRO-GEAR®
COMMERCIAL



Hydro-Gear Commercial™
engineered pumps

Axial piston design

Infinitely variable pump
displacement

Bidirectional flow capability

Optional auxiliary pump
available

Tandem configurations
available

Return to Neutral control
and standard control
options

Shock valve options

Pump through-shaft option

Configuration flexibility



Input shaft options

Pump fan shroud option

Industry leading warranty
and service support

Dual case drain available
(PY)

SPECIFICATIONS		PC	PE	PG	PK	PR	PW	PY
Displacement	<i>in³/rev</i> <i>[cc/rev]</i>	0.37 [6.1]	0.62 [10.2]	0.62 [10.2]	0.73 [12]	0.97 [16]	1.33 [21.8]	1.33 [21.8]
Input Speed								
<i>Maximum Hi-Idle [No Load]</i>	<i>rpm</i>	3600	3600	3600	3600	3600	3600	3600
<i>Minimum [Loaded]</i>	<i>rpm</i>	1800	1800	1800	1800	1800	1800	1800
System Operating Pressure								
<i>Continuous</i>	<i>psi</i> <i>[bar]</i>	750 [51]	1000 [70]	1000 [70]	1000 [70]	1250 [86]	1250 [86]	1500 [103]
<i>Intermittent</i>	<i>psi</i> <i>[bar]</i>	1750 [120]	2100 [145]	2100 [145]	2100 [145]	2500 [172]	2500 [172]	2750 [190]
<i>Peak</i>	<i>psi</i> <i>[bar]</i>	2500 [172]	3500 [240]	3500 [240]	3500 [240]	3750 [260]	3750 [260]	3750 [260]
Pump Performance								
<i>@2400 rpm/1000 psi</i>	<i>gpm [l/min]</i>	3.6 [13.6]	6.1 [23.1]	6.1 [23.1]	7.1 [26.8]	9.6 [36.3]	13.1 [49.6]	13.1 [49.6]
<i>@3000 rpm/1000 psi</i>	<i>gpm [l/min]</i>	4.5 [17.0]	7.6 [28.8]	7.6 [28.8]	8.9 [33.6]	12.0 [45.4]	16.4 [62.1]	16.4 [62.1]
<i>@3600 rpm/1000 psi</i>	<i>gpm [l/min]</i>	5.4 [20.4]	9.2 [34.8]	9.2 [34.8]	10.8 [40.8]	14.4 [54.5]	19.6 [74.2]	19.6 [74.2]
Case Pressure								
<i>Maximum @ Cold Start</i>	<i>psi [bar]</i>	10 [0.7]	10 [0.7]	10 [0.7]	10 [0.7]	25 [1.7]	25 [1.7]	25 [1.7]
<i>Continuous - Max.</i>	<i>psi [bar]</i>	4 [0.3]	4 [0.3]	4 [0.3]	4 [0.3]	10 [0.7]	10 [0.7]	10 [0.7]
Inlet Vacuum								
<i>Max. Continuous Inches Mercury</i>		4	4	4	4	4	4	4
Charge Pump Displacement(s)	<i>in³/rev</i> <i>[cc/rev]</i>	0.13 [2.1]	0.11/0.13 [1.9/2.1]	0.11/0.13 [1.9/2.1]	0.19 [3.2]	0.13/0.19 [2.1/3.2]	0.13/0.19 [2.1/3.2]	0.25 [4.1]
Auxiliary Pump Displacement	<i>in³/rev</i> <i>[cc/rev]</i>	0.19 [3.2]	0.19 [3.2]	0.19 [3.2]	0.19 [3.2]	0.19 [3.2]	0.19 [3.2]	0.19 [3.2]
Auxiliary Pump Relief Setting	<i>psi [bar]</i>	650 [45]	650 [45]	650 [45]	650 [45]	650 [45]	650 [45]	650 [45]
Auxiliary Pump Performance								
<i>@3200 rpm, 500 psi, 70 SUS</i> <i>[13 Cst] oil & 180°F</i>	<i>gpm</i> <i>[l/min]</i>	1.8 - 2.0 [6.8 - 7.6]	1.8 - 2.0 [6.8 - 7.6]	1.8 - 2.0 [6.8 - 7.6]	1.8 - 2.0 [6.8 - 7.6]	1.8 - 2.0 [6.8 - 7.6]	1.8 - 2.0 [6.8 - 7.6]	1.8 - 2.0 [6.8 - 7.6]
Control Torque Req'd to Stroke Pump*								
<i>[Approx. - 20° External Stroke Angle]</i>								
<i>lb-in/1000 psi [Nm/70 bar]</i>		75 [8.5]	85 [9.6]	85 [9.6]	85 [9.6]	95 [10.7]	135 [15.3]	170 [19.2]
<i>lb-in/500 psi [Nm/35 bar]</i>		55 [6.2]	60 [6.8]	60 [6.8]	60 [6.8]	75 [8.5]	85 [9.6]	125 [14.1]
* Tested with 20w50 engine oil API rating SM/SL								
Pump Oil Temperature								
<i>Max. Intermittent (hottest pt.)</i>	<i>°F [°C]</i>	230 [110]	230 [110]	230 [110]	230 [110]	230 [110]	230 [110]	230 [110]
<i>Normal Operating Range</i>	<i>° F</i> <i>[°C]</i>	-10 to 200 [-23 to 93]	-10 to 200 [-23 to 93]	-10 to 200 [-23 to 93]	-10 to 200 [-23 to 93]	-10 to 200 [-23 to 93]	-10 to 200 [-23 to 93]	-10 to 200 [-23 to 93]
Fluid Viscosity Limits @ 230°F [110°C]								
<i>Optimum</i>	<i>SUS [Cst]</i>	70 [13]	70 [13]	70 [13]	70 [13]	70 [13]	70 [13]	70 [13]
<i>Minimum</i>	<i>SUS [Cst]</i>	55 [9]	55 [9]	55 [9]	55 [9]	55 [9]	55 [9]	55 [9]
Weight of Unit	<i>lbs [kg]</i>	7 [3.2]	8 [3.6]	8 [3.6]	9.4 [4.3]	12 [5.4]	14 [6.3]	14 [6.3]
Inlet Filtration Requirement								
<i>Nominal</i>	<i>micron</i>	25	25	25	25	25	25	25

