

## ACE PUMPS WITH 12 VOLT DC MAGNETIC CLUTCH

### Model FMC-MAG - Counter-Clockwise Rotation



- 12 volt magnetic clutch drive
- 0-100 PSI at max. 4600 RPM
- 60 GPM at open discharge
- At 4200 RPM delivers 35 GPM at 65 PSI
- Viton mechanical seal
- 5" diameter A-section pulley
- Ports 1½" x 1" FPT

No.	Mfg. No.
6765	FMC-MAG

### Model FMC-150-MAG - Counter-Clockwise Rotation



- A high performance pump
- 12 volt magnetic clutch drive
- 0-120 PSI at max. 5200 RPM
- 130 GPM at open discharge
- At 4400 RPM delivers 80 GPM at 80 PSI
- Viton mechanical seal
- 5" diameter A-section pulley
- Ports 1½" x 1¼" FPT

No.	Mfg. No.
6768	FMC-150-MAG

### Model FMC-CW-150-MAG - Clockwise Rotation



- 12 volt magnetic clutch drive.
- 0-80 PSI at max. 4200 RPM.
- 75 GPM at open discharge.
- At 3450 RPM delivers 20 GPM at 45 PSI.
- Viton mechanical seal.
- 5" diameter A-section pulley.
- Ports 1½" x 1¼" FPT

No.	Mfg. No.
6770	FMC-CW-150-MAG

### FMC & FMCL Repair Kits

No.	Mfg. No.	Description
AC052700	RK-FMC	Pump repair kit - all models except pumps with grease fitting
AC051900	RK-FMCL	Pump repair kit - all models with grease fittings

## ACE FRAME MOUNTED CENTRIFUGAL PUMPS

### Model FMC-150 - Counter-Clockwise Rotation



- A high performance pump.
- 0-120 PSI at max. 6000 RPM.
- 100 GPM at open discharge.
- At 4400 RPM will deliver 80 GPM at 80 PSI.
- Viton mechanical seal.
- Ports 1½" x 1¼" FPT.
- Shaft 5/8" keyed.

No.	Mfg. No.
6758	FMC-150

### Model FMC-CW-150 - Clockwise Rotation



- 0-100 PSI at max. 5200 RPM.
- 75 GPM at open discharge.
- At 3450 RPM will deliver 20 GPM at 45 PSI.
- Viton mechanical seal.
- Ports 1½" x 1¼" FPT.
- Shaft 5/8" keyed.

No.	Mfg. No.
6756	FMC-CW-150



### ACE MAGNETIC CLUTCH REPLACEMENT PARTS

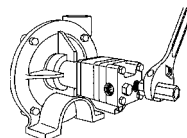
Note: Parts are not interchangeable with Hypro Magnetic Clutch

Ill. No.	No.	Description
1	AC41477	Spacer
2	AC41476	Coil ring, 12 volt, DC activated
3	AC41479	5¼" Pulley w/bearing & clutch drive
4	AC41475	Magnetic clutch assembly complete with pulley, clutch driver, coil ring & spacer

### FLOW LIMITER VALVE



- Installs in Ace Hydraulic Motor Inlet Port
- Shuts off all hydraulic flow through valve when the motor's capacity is exceeded
- Protects Motor from overspeeding
- Automatically Resets when hydraulic pressure is released
- Sizes available for all Ace models recommended for use on this hydraulic system



No.	Mfg. No.	Pump Model
AC41409	LS204	FMC-HYD-204
AC41411	LS210	FMC-HYD-210
AC41408	LS206	FMC-150-HYD-206
AC41413	LS304	FMC-HYD-304



## 150 SERIES HIGH PERFORMANCE

- 100 PSI - 40 GPM at 600 or 1000 RPM
- Allows applicator to save fuel by operating at lower engine speeds and still maintain adequate spraying pressure.
- Stainless steel wear ring and shaft

- Viton Seals
- Fully Guarded
- 10 Groove Pulley • Ports 1 1/2" x 1 1/4"
- Cast Iron
- Ready for use with Roundup

No.	Model Number	Max GPM	Max PSI	Max RPM	Description
6729	PTOC-150-600-B	100	100	540	1" Stub shaft & integral mounting base, use with 540 RPM tumblerod shaft
6730	PTOC-150-1000-21SP	100	100	1000	Direct mounting on 21 spline, 1 3/8" 1000 RPM shaft w/ locking collar
6731	PTOC-150-1000-B	100	100	1000	1" Stub shaft & integral mounting base, use with 1000 RPM tumblerod shaft

## ACE PTO PUMPS REPLACEMENT PARTS / KITS

### ACE PTOC-150-600/1000 PUMP REPAIR PARTS

No.	Mfg. No.	Description	Belt Size
AC051155	RK-PTOC-150-600	Repair Kit	44 1/2" ID
AC051255	RK-PTOC-150-1000	Repair Kit	36 3/4" ID
AC40611	BAC-28-10-150	Belt Only	44 1/2" ID
AC40621	BAC-28-10M-150	Belt Only	36 3/4" ID
<b>Ace PTOC-610/1000 Pump Repair Kits</b>			
AC051150	RK-PTOC-600*	Repair Kit	40" ID
AC051250	RK-PTOC-1000*	Repair Kit	31" ID
AC40610	BAC-28-10	Belt	40" ID
AC40620	BAC-28-10-M	Belt	31" ID

### ACE PTOCH-600-1000 PUMP REPAIR PARTS

No.	Mfg. No.	Description	Belt Size
AC051400	RK-PTOCH-600†	Repair Kit	41" ID
AC051500	RK-PTOCH-1000†	Repair Kit	32" ID
AC40650	BACH-28-10	Belt	41" ID
AC40660	BACH-28-10-M	Belt	32" ID

\*Includes belt, Viton seal, O Ring & Gasket.

†Includes belt, leather seals & Gasket.

- For other repair parts please see Just Parts catalogue

## ACE PUMPS REPLACEMENT PARTS / KITS

### REPLACEMENT PUMPS FOR PTO BELT DRIVEN CENTRIFUGAL PUMPS

- Has 5/8" shaft for belt pulley • Casting is machined to accept idler arm



No.	Description
6775 (FMC-MIA) (047008)	Replacement pump for the following PTO Belt driven units: PTOC-150-600/1000



### REPLACEMENT MOTORS

- Coupling and cap screws not included

No.	Description
AC41375 (BAC-75-HYD-210)	210 Hydraulic motor for the following pumps: FMC-HYD-210 FMCL-HYD-210 FMC-200-HYD-210 FMCL-200-HYD-210
AC41372 (BAC-75-HYD-206)	206 Hydraulic motor for the following pumps: FMC-150-HYD-206
AC41378 (BAC-75-HYD-310)	310 Hydraulic motor for the following pumps: FMC-HYD-310 FMCL-HYD-310 FMC-200-HYD-310 FMCL-200-HYD-310



### REPLACEMENT PUMPS FOR HYDRAULIC DRIVEN UNITS

- Pump does not include coupler and cap screws

No.	Description
6773 (049921)	Pump only for No. 6750 (FMC-150-HYD-206) hydraulic driven pumps units. Ports: 1 1/2" FPT suction x 1 1/4" FPT discharge
6769 (048942)	Pump only for No. 6743 (FMC-200-HYD-210) and No. 6742 (FMCL-200-HYD-210) hydraulic driven pump units.

### MOTOR SEAL KITS

No.	Mfg. No.	Motor No.
AC41371	RK-BAC-75-HYD	202, 203, 204, 206, 210
AC41361	RK-BAC-75-HYD-304	304
AC41379	RK-BAC-75-HYD-310	310

### Restrictor Orifice for Closed Center Systems 3/8" NPT

No.	Mfg. No.	Motor No.	Req.
AC41395	BAC-79-210-3/8 NPT	For 210 motors	1

High Volume • Self Priming • Available in Light Weight Poly or Heavy Duty Cast Iron  
Maximum engine protection - Pump end is separated from engine



### 2" CAST IRON PUMP W/ BRIGGS & STRATON PULL START ENGINE

No.	Mfg. No.	Ports	H.P.	Lbs.
9966	200PI-5	2" FPT	5	83

Limited quantities available

### 1½" & 2" POLY PUMP & BEARING PEDESTAL



- Precision molded-glass filled polypropylene construction
- Corrosion resistant
- Mounted on metal base
- 3/4" Straight shaft w/ key
- Easily adaptable to electric power
- Flexible shaft between motor & pump
- Max 3450 RPM

No.	Mfg. No.	Ports	Max PSI	Max GPM
9940	150PB	1½"	40	125
9963	200PB	2"	40	140

### CAST IRON CLOSE COUPLED PUMPS

For attaching directly to Briggs or Honda Engine  
All parts for installation are in kit



No.	Mfg. No.	FPT Ports	Shaft Size Required	H.P. Required	Lbs.
9975	200POI	2"	3/4"	3, 5, 5.5	47

### BANJO PUMP ONLY (UNASSEMBLED)



- Fits Briggs & Stratton and Honda engines w/ 3/4" keyed shaft

No.	Mfg. No.	Housing	Ports
9964	200PO	Poly	2"
9939	300PO	Poly	3"

### BANJO BEARING PEDESTAL ASSEMBLY



- 3/4" Stainless steel shaft
- For 1½", 2" & 3" Pumps

No.	Mfg. No.	Description
6486	12882	Pedestal
6487	12883	Shaft & Bearings

### UNIVERSAL BASE PLATE ASSEMBLY



- Complete w/ Shaft guard for gas or electric motors.

No.	Mfg. No.	Description
9937	18700	Base Plate Kit

# HYPRO 5200 SERIES PISTON PUMPS

## Choice of Cup Type



- Used with Pressure washers & high pressure spraying for agricultural use
- NI-Resist Sleeves
- Max 400 PSI
- Max 140° F.
- Max 800 RPM (5206)
- Max 600 RPM (5210)
- Ports 3/4" FPT

**Leather** - for pumping aromatic solvents and other chemicals damaging to rubber.

**Fabric** - for pumping most insecticides, herbicides and fertilizers

**Buna-N Rubber** - for pumping soap and detergent solutions and some fertilizers.

### PISTON STACK PARTS KIT Series 5206C and 5210C

No.	Mfg. No.	Description
HYK-51	3430-0037	Leather (standard)
HYK-52	3430-0039	Fabric
HYK-53	3430-0189	Rubber

### SERIES 5206C

No.	Model No.	Cup Material	Shaft Type
6808	5206C	Leather	1" Solid
6808F	5206CF	Fabric	1" Solid
6808R	5206CR	Buna-N	1" Solid
6809	5206C-H	Leather	1 1/8" Hollow
6809F	5206C-HF	Fabric	1 1/8" Hollow

### SERIES 5210C

No.	Model No.	Cup Material	Shaft Type
6810	5210C	Leather	1" Solid
6810F	5210CF	Fabric	1" Solid
6810R	5210CR	Buna-N	1" Solid
6812	5210C-H	Leather	1 1/8" Hollow
6812F	5210C-HF	Fabric	1 1/8" Hollow
6812R	5210C-HR	Buna-N	1 1/8" Hollow

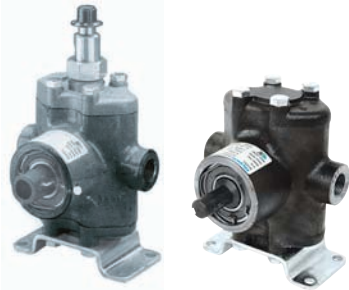


## SHAFT FLEXIBLE COUPLINGS

	No.	Bore
<b>2 HP Max</b>	3495	1/2"
	3496	5/8"
	3497	3/4"
	3498	7/8"
	3499	Center Disk
<b>5 HP Max</b>	3501	5/8"
	3502	3/4"
	3504	15/16"
	3505	1"
	3506	1 1/4"
	3507	Center Disk

	No.	Bore
<b>10.5 HP Max</b>	3509	3/4"
	3510	15/16"
	3511	1"
	3512	1 1/8"
	3513	1 1/4"
	3514	1 3/8"
	3515	22 mm
	3516	Center Disk
<b>18 HP Max</b>	3518	3/4"
	3521	1"
	3522	1 1/8"
	3525	Center Disk

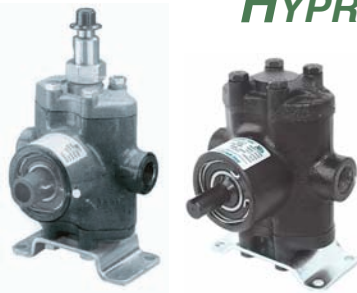
# HYPRO 5300 SERIES PISTON PUMPS



- Maximum pressure: 500 PSI
- Flow rates: 1.5, 2.0, 2.5 and 3.0 GPM
- Rated speed: 1800 RPM
- Shaft sizes: 5/8" solid shaft or 5/8" hollow shaft
- Port sizes: 1/2" inlet; 1/2" outlet
- Maximum fluid temperature: 140° F
- Weight: 10 lbs.
- Cast Iron body
- Buna-N rubber cups for pressure wash and hydrostatic testing applications
- Leather cups for pest control and chemical spraying applications
- Teflon and Viton cups available for special applications
- Injector head available

No.	Mfg. No.	Max GPM	Cup Type	Shaft Size	Shaft Type	Other Equipment	Models with Injector Heads	
							No.	Mfg. No.
6900	5320C-X	2	Leather	5/8"	Solid	Base	6900-D	5320C-XD
6901	5320C-RX	2	Buna-N	5/8"	Solid	Base	6901-D	5320C-RXD
6902	5320C-CX	2	Teflon	5/8"	Solid	Base	6902-D	5320C-CXD
6903	5320C-HX	2	Leather	5/8"	Hollow	Torque Arm	6903-D	5320C-HXD
6904	5320C-HRX	2	Buna-N	5/8"	Hollow	Torque Arm	6904-D	5320C-HRXD
6905	5320C-CHX	2	Teflon	5/8"	Hollow	Torque Arm	6905-D	5320C-CHXD
6906	5330C-X	3	Leather	5/8"	Solid	Base	6906-D	5330C-XD
6907	5330C-RX	3	Buna-N	5/8"	Solid	Base	6907-D	5330C-RXD
6908	5330C-CX	3	Teflon	5/8"	Solid	Base	6908-D	5330C-CXD
6909	5330C-HX	3	Leather	5/8"	Hollow	Torque Arm	6909-D	5330C-HXD
6910	5330C-HRX	3	Buna-N	5/8"	Hollow	Torque Arm	6910-D	5330C-HRXD
6911	5330C-CHX	3	Teflon	5/8"	Hollow	Torque Arm	6911-D	5330C-CHXD

## HYPRO 5324 SERIES SMALL TWIN PLUNGER PUMPS



- Maximum pressure: 800 PSI
- Flow rates: 2.9 GPM
- Rated speed: 1800 RPM
- Shaft sizes: 5/8" solid shaft or 5/8" hollow shaft
- Maximum fluid temperature: 140° F
- Plunger material: Stainless Steel
- Weight: 10.5 lbs. (solid shaft w/base) or 10 lbs. (hollow shaft w/torque arm)
- Shaft rotation: CW and CCW
- Seals: Buna-N rubber cups
- Injector head available

No.	Mfg. No.	Max GPM	Cup Type	Shaft Size	Shaft Type	Other Equipment	Models with Injector Heads	
							No.	Mfg. No.
6912	5324C	2.9	Buna-N	5/8"	Solid	Base	6912-D	5324CD
6913	5324C-H	2.9	Buna-N	5/8"	Hollow	Torque Arm	6913-D	5324C-HD

## HYPRO 5321/5322 SERIES TWIN PLUNGER PUMPS



- Maximum pressure: 1000 PSI
- Flow rates: 2.2 GPM
- Rated speed: 1800 RPM
- Shaft sizes: 5/8" solid shaft or 5/8" hollow shaft
- Port sizes: 1/2" inlet; 1/2" outlet
- Maximum fluid temperature: 180° F
- Weight: 10.5 lbs.
- Plungers: Stainless steel (Series 5321) or Ceramic (Series 5322)
- Seals: Buna-N pressure seals; Teflon Vacuum seals
- Injector head available

No.	Mfg. No.	Max GPM	Max RPM	Plunger Type	Shaft Size	Shaft Type	Other Equipment	Models with Injector Heads	
								No.	Mfg. No.
6840	5321C	2.2	1800	SS	5/8"	Solid	Base	6840-D	5321CD
6841	5321C-H	2.2	1800	SS	5/8"	Hollow	Torque Arm	6841-D	5321C-HD
6842	5322C	2.2	1800	Ceramic	5/8"	Solid	Base	6842-D	5322CD
6843	5322C-H	2.2	1800	Ceramic	5/8"	Hollow	Torque Arm	6843-D	5322C-HD
6844	53702	2.2	3450	Ceramic	5/8"	Hollow	Torque Arm	6844-D	53702D
6845*	53703	2.2	3100	Ceramic	5/8"	Hollow	For Gas Engine Mount	6845-D	53703D

# HYPRO 4000 SERIES PUMPS



- Used for bulkhead chemical transfer, fertilizer placement, herbicide banding, nitrogen side dressing, orchard and cattle spraying
- 1/2" Hollow shaft
- 3/4" Ports
- Continuous duty (See limitations)
- Super rollers standard (Teflon, Buna-N, Poly available)
- 12 VDC motor driven
- Viton seals standard (Buna-N and leather available)
- Ni-resist (N) or Silver cast (XL)
- Locking collar & torque arm

## SERIES 4001 PUMP WITH 12 VOLT MOTOR DRIVE

No.	Mfg. No.	Max GPM	Max PSI	Continuous Duty Max PSI	Continuous Duty GPM
6990	4001N-EH	10.4	30	25	8
6991	4001XL-EH	10.4	30	25	8
6992	4001N-E2H	9.9	60	50	5.9
6993	4001XL-E2H	9.9	60	50	5.9

### PERFORMANCE CHARTS

Volts	4001N-EH & 4001XL-EH			4001N-E2H & 4001XL-E2H		
	PSI	Amps	GPM	PSI	AMP	GPM
12.0 (Battery) Engine Off	0	12.6	9.0	10	13.9	8.4
	5	14.1	8.3	20	18.0	7.9
	10	15.2	8.1	30	22.2	7.2
	15	17.3	7.8	35	25.0	6.9
	20	19.7	7.2	40	27.0	6.5
	25	22.1	6.7	50	31.6	5.9
30	24.8	6.2	60	36.2	5.4	

## SERIES 4101 PUMP WITH 12 VOLT MOTOR DRIVE

No.	Mfg. No.	Max GPM	Max PSI	Continuous Duty Max PSI	Continuous Duty GPM
6888	4101N-EH	7.5	50	25	6
6889	4101XL-EH	7.5	50	25	6
6890	4101N-E2H	5.9	100	90	2.75
6891	4101XL-E2H	5.9	100	90	2.75

### PERFORMANCE CHARTS

Volts	4001N-EH & 4001XL-EH			4001N-E2H & 4001XL-E2H		
	PSI	Amps	GPM	PSI	AMP	GPM
12.0 (Battery) Engine Off	0	10.0	6.3	0	-	-
	5	11.3	6.0	10	8.4	5.3
	10	12.5	5.8	20	11.8	4.8
	15	13.7	5.6	30	19.7	4.65
	20	15.1	5.4	40	16.4	4.4
	25	16.7	5.2	50	19.6	4.05
	30	18.6	5.0	60	22.8	3.65
	35	20.3	4.8	70	25.6	3.20
	40	22.3	4.6	80	28.9	3.00
	45	24.1	4.4	90	31.5	2.75
50	25.7	4.2	100	34.2	2.60	

# HYPRO 4000 SERIES FOUR ROLLER PUMPS



## 4001 SERIES PUMPS

No.	Mfg. No.	Body Material	Max GPM	Max PSI	Max RPM	Shaft Type
6880	4001C	Cast Iron	9	150	1800	5/8"
6881	4001N	Ni-Resist	9	150	1800	Solid
6882	4001XL	Silver Cast	9	150	1800	Shaft
6892	4001C-H	Cast Iron	9	150	1800	1/2" Hollow
6893	4001N-H	Ni-Resist	9	150	1800	Shaft for
6894	4001XL-H	Silver Cast	9	150	1800	Motor Mount

## 4101 SERIES PUMPS

No.	Mfg. No.	Body Material	Max GPM	Max PSI	Max RPM	Shaft Type
6884	4101C	Cast Iron	7	150	2600	5/8"
6885	4101N	Ni-Resist	7	150	2600	solid
6886	4101XL	Silver Cast	7	150	2600	shaft
6895	4101C-H	Cast Iron	7	150	2600	1/2" Hollow
6896	4101N-H	Ni-Resist	7	150	2600	shaft for
6897	4101XL-H	Silver Cast	7	150	2600	motor mount
6887	4101C-D	Cast Iron	7	150	2600	5/8" Hollow
6898	4101N-D	Ni-Resist	7	150	2600	shaft for gas
6899	4101XL-D	Silver Cast	7	150	2600	engine mount

- Max. 150 PSI
- Port Size 3/4 FPT
- Max. Fluid Temp. 140° F
- Pump shaft rotations: CW (CCW available)
- Rollers: Super Standard (Poly Teflon and Buna-N Available)
- Shaft Seals: Viton Standard (Buna-N and Leather Available)

### 4001 Models Performance Chart

PSI	0		25		50		75		100		125		150	
	RPM	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM
1100	5.5	.06	4.9	.14	4.4	.24	4.1	.34	3.8	.41	3.5	.51	3.3	.62
1400	7.1	.10	6.4	.20	5.9	.32	5.6	.44	5.3	.56	5.0	.68	4.8	.78
1800	9.1	.14	8.5	.30	8.0	.46	7.6	.62	7.3	.78	7.0	.95	6.7	1.1

### 4101 Models Performance Chart

PSI	0		25		50		75		100		125		150	
	RPM	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM
1800	5.0	.11	4.8	.21	4.5	.34	4.2	.45	3.9	.56	3.7	.68	3.4	.78
2200	6.2	.14	5.8	.27	5.6	.40	5.4	.55	5.0	.68	4.7	.82	4.4	.96
2600	7.2	.16	6.9	.30	6.6	.46	6.4	.62	6.0	.76	5.7	.92	5.4	1.08

# HYPRO ROLLER PUMPS



**Cast Iron Pumps** The Old Standby. An inexpensive pump. Good for many applications

**Ni-Resist Pumps** For the larger operator. Will last up to 2½ times longer. Resistant to Round Up®

**Cast Silver XL Pumps** will last up to 10 times longer when pumping powerful herbicides such as Round Up®

## ROTATION COUNTER CLOCKWISE

When looking at Shaft.

For **Reverse Rotation** Please see below.



Series		6500	7560	7700	1700	1500	1200
Max U.S. GPM		22	22	22.4	45	62	74
Max PSI		300	300	200	200	150	150
Max RPM		1200	1000	800	1000	1000	800
Max U.S. GPM	540 RPM	8	11	13	21	28	48.8
At 50 PSI	1000 RPM	16.5	22	-	45	62	-
Ports (FPT)		3/4"	3/4"	3/4"	1"	1½"	1½"
Shaft Size		5/8"	15/16"	15/16"	15/16"	15/16"	1"
Max Fluid Temp.		140° F	140° F	140° F	140° F	140° F	140° F
Rotation		CCW	CCW	CCW	CCW	CCW	CCW
Rollers		6	8	7	5	6	4
Rollers - Standard		Super	Super	Super	Super	Super	Super
Pump seal standard	Cast Iron	Viton	Viton	Viton	Viton	Buna-N	Buna-N
	Ni-Resist	Viton	Viton	Viton	Viton	Buna-N	-
	Silver XL	Viton	Viton	Viton	Viton	Viton	-
Cast Iron Pumps	<b>No.</b>	<b>6806</b>	<b>6802</b>	<b>6804</b>	<b>6798</b>	<b>6800</b>	<b>6879</b>
Ni-Resist Pumps	<b>No.</b>	<b>6807</b>	<b>6803</b>	<b>6805</b>	<b>6799</b>	<b>6801</b>	<b>n/a</b>
Silver XL Pumps	<b>No.</b>	<b>6874</b>	<b>6875</b>	<b>6876</b>	<b>6877</b>	<b>6878</b>	<b>n/a</b>

## HYPRO REVERSE ROTATION ROLLER PUMPS

- Clockwise rotation when looking at shaft.
- Available in Cast Iron, Ni-Resist, Silver XL Pumps
- Features same as Counter Clockwise Models above.



**\*Special Order Only**

Series		6500	7560	7700	1700	1500
Cast Iron Pumps	No.	6806-R	6802-R	6804-R	6798-R	6800-R
Ni-Resist Pumps	No.	*6807-R	6803-R	6805-R	6799-R	6801-R
Silver XL Pumps	No.	*6874-R	6875-R	6876-R	*6877-R	*6878-R

## HYPRO PERFORMANCE CHARTS FOR ABOVE PUMPS

6500	PSI	0		50		100		150		200		250		300	
	RPM	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
540	9.7	.08	8.0	.38	7.2	.68	6.6	.97	5.6	1.29	4.9	1.65	4.3	1.97	
1000	18.2	.20	16.5	.71	15.4	1.26	14.7	1.80	14.0	2.34	13.4	2.91	12.7	3.47	
1200	21.8	.30	20.1	.90	19.1	1.51	18.2	2.14	17.3	2.84	16.5	3.48	15.7	4.17	

1700	PSI	0		50		100		150		200	
	RPM	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
540	25.0	.27	21.0	1.18	19.0	2.13	17.0	2.89	15.0	3.85	
600	28.0	.34	24.5	1.39	22.0	2.36	20.0	3.34	18.0	4.39	
1000	45.0	1.42	43.0	3.0	41.0	4.67	39.0	6.07	-	-	

7700	PSI	0		50		100		150		200	
	RPM	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
540	14.2	.23	12.9	.56	11.9	1.10	11.2	1.64	10.3	2.22	
600	15.3	.28	14.0	.62	13.0	1.20	12.3	1.80	11.6	2.44	
800	22.1	.37	20.7	.86	19.5	1.66	18.6	2.40	17.8	3.26	

1500	PSI	0		25		50		100		150	
	RPM	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
540	33.1	.51	29.7	1.02	27.8	1.45	24.3	2.46	21.0	3.54	
600	36.8	.66	33.6	1.15	31.7	1.68	28.3	2.78	25.0	3.95	
1000	62.1	2.02	58.5	3.04	56.9	3.69	53.9	5.31	50.9	7.12	

7560	PSI	0		50		100		150		200		250		300	
	RPM	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
540	12	.33	11.1	.74	10.3	1.25	9.5	1.77	8.6	2.26	7.8	2.78	7.1	3.3	
800	18.3	.89	17.5	1.26	16.9	1.95	16.1	2.65	15.5	3.4	14.5	4.2	13.7	4.9	
1000	22.5	1.56	22	1.78	21.3	2.53	20.6	3.5	20	4.2	18.9	5.3	18.0	6.1	

# HYPRO ROLLER PUMP RECOMMENDATIONS

*NOTE: These recommendations are to be used as a general guide only. Material options for rollers and seals are listed in order of recommendation for usage. For recommendations on specific chemicals or applications, consult Hypro on their TOLL FREE LINE 1-800-445-8360*

FOR WEED CONTROL CHEMICALS: Emulsions, soluble powders, sodium arsenate.

FOR INSECT CONTROL: Using emulsions not containing aromatic solvents.

Use Silvercast, Ni-Resist, or Cast Iron Pumps, Super Rollers, Viton or Buna-N seals.

*NOTE: For weed control chemicals, such as Round-up®, containing Glyphosate or other acidics, use only Silvercast pump with Super or Polypropylene rollers and Viton Seals. Teflon rollers may be used up to 100 PSI.*

FOR BRUSH CONTROL: Heavy duty sprays using oil for a carrier.

FOR PEST CONTROL CHEMICALS, FUMIGANTS, ETC.: This category or use includes mosquito sprays, termite control liquids, nematocides, soil and grain fumigants where any of the following chemicals are present:

Pentachlorophenol, Xylene, Xylol, Benzene. Fumigants containing: Ethylene Dichloride, Ethylene Dibromide, Carbon Tetrachloride, Perchloroethylene, Trichloroethylene, Methyl Bromide, and other aromatic solvents.

Use Silvercast, Ni-Resist, or Cast Iron Pumps with Nylon rollers, Viton or Leather seals.

FOR LIQUID FERTILIZERS: Up to 32% Nitrogen content, or others, if liquid at atmospheric pressure and temperature handled.

Use Silvercast or Ni-Resist pump with Polypropylene rollers and Buna-N seals.

• FOR POWDERED FERTILIZERS, dissolved in water (greenhouse plant food).      • FOR PUMPING large quantities of plain water.

• FOR SPRAYING WITH wettable powder sprays.      • OTHER heavy abrasive powders in suspension:

Use Silvercast, Ni-Resist or Cast Iron pump, Super, Rubber, or Polypropylene rollers, and Buna-N or Viton seals.

*NOTE: Limit pressure to 100 PSI when using rubber rollers or wettable powders.*

FOR ACIDS: Mild sulfuric acid for spraying. Mild muriatic acid, inhibited muriatic, etc.

Use Silvercast Pump, Viton seals, Polypropylene or Teflon rollers and 303 stainless steel shaft.

*NOTE: Limit pressure to 100 PSI when using Teflon rollers.*

## HYPRO QUICK COUPLERS — ADAPTERS

**Hypro Diecast Quick Couplers**



No.	Hypro No.	PTO RPM	PTO Size	For Use On Series	Splines	Bore
2167	1321-0006	540	1 1/8"	6500	6	5/8"
2166	1321-0007	540	1 1/8"	1500/1700/7560/7700	6	15/16"
2169	1321-0008	1000	1 1/8"	6500	21	5/8"
2168	1321-0009	1000	1 1/8"	1500/1700/7560	21	15/16"
2140	1323-0012	500/1000	1 1/8"	6500/4000	6/21	5/8"
2142	1323-0013	500/1000	1 1/8"	1500/1700/7560	6/21	15/16"

\*Multi-speed couplers

**Hypro Forged Steel Quick Coupler**



No.	Hypro No.	PTO RPM	PTO Size	For Use On Series	Splines	Bore
2169F	1323-0075	1000	1 1/8"	6500	21	5/8"
2168F	1323-0073	1000	1 1/8"	1500/1700/7560	21	15/16"
2140F*	1323-0077	500/1000	1 1/8"	6500/4000	6/21	5/8"
2142F*	1323-0076	500/1000	1 1/8"	1500/1700/7560	6/21	15/16"

\*Multi-speed couplers

**Hypro Forged Steel Coupler**



No.	Hypro No.	PTO RPM	PTO Size	For Use On Series	Splines	Bore
2167F	1323-0074	540	1 1/8"	6500	6	5/8"
2166F	1323-0072	540	1 1/8"	1500/1700/7560/7700	6	15/16"
2165	1320-0033	540	1 1/8"	1500/1700/7560/7700	6	5/8"
2448	1320-0081	540	1 1/8"	1200/5200	6	1"
2151	1320-0078	1000	1 1/8"	1500/1700/7560	21	15/16"
2145	1320-0080	1000	1 1/8"	1500/1700/7560	20	15/16"

**Ace Forged Steel Couplers/Adapters**



No.	Mfg. No.	PTO RPM	PTO Size	Splines	Bore
2152	10320	540	1 1/8"	6	5/8"
2153	10760	540	1 1/8"	6	7/8"
2444	10345	1000	1 1/8"	21	5/8"
2447	10775	1000	1 1/8"	21	7/8"
2143	10344	1000	1 1/4"	20	5/8"
2144	10768	1000	1 1/4"	20	7/8"
2443	10340	540	1 3/8"	6	5/8"
2442	10770	540	1 3/8"	6	7/8"
2438	10771	540	1 3/8"	6	15/16"
2440	10346	1000	1 3/8"	21	5/8"
2441	10777	1000	1 3/8"	21	7/8"
2439	10778	1000	1 3/8"	21	15/16"

# DIAPHRAGM PUMPS



## D12 MEDIUM PRESSURE



- Diaphragms: 2
- Max. RPM: 3600
- Housing: Anodized Aluminum
- Max. Fluid Temp: 140° F
- Max. Flow: 3.5 GPM
- Ports: HB 3/4" IN, 3/8" OUT
- Max. PSI: 290

For controls and drive options see pages following.

No.	Description
6716	D12GRGI with 5/8" ID gear box input shaft to fit 2.5 hp gas engine
Repair Kits	
HYK-13	Kit 1882 Diaphragm (Desmopan)
HYK-14	Kit 1992 Valve Parts

## D252 / GRGI MEDIUM PRESSURE



- Diaphragms: 2
- Max. PSI: 363
- Housing: Epoxy Coated
- Max fluid temp: 140° F
- Max. Flow: 5.3 GPM

For controls and drive options see pages following.

No.	Description	In	Out
6710	D252 with 3/4" solid key shaft	3/4" HB	1/2" NPT
6711	D252GRGI with 3/4" hollow shaft gear reduced for 3 hp gas engine	3/4" HB	3/8" HB
6702	D252GRGI58 with 5/8" hollow shaft Gear reduced for 3 hp gas engine	3/4" HB	3/8" HB
Repair Kits			
HYK-17	O-ring parts kit		
HYK-19	Diaphragm kit (Desmopan)		
HYK-20	Valve parts kit		

## AR70 LOW PRESSURE



- Diaphragms: 2
- Max. Flow: 19 GPM
- Max. PSI: 290
- Max. RPM: 550
- Max. Fluid Temp: 140° F
- Ports: 1 1/4" HB Inlet, 1" HB Outlet
- Select shaft kit for desired drive

For controls and drive options see pages following.

No.	Description
6706	AR70
Repair Kits	
HYK-1	O-ring kit
HYK-2	Diaphragm kit (Desmopan)
HYK-3	Valve kit

## AR115 LOW PRESSURE



- Diaphragms: 3
- Max. Flow: 30 GPM
- Max. PSI: 290
- Max. RPM: 550
- Max. Fluid Temp: 140° F
- Ports: HB 1 1/2" In, 1" Out
- Select shaft kit for desired drive

For controls and drive options see pages following.

No.	Description
6707	AR115
Repair Kits	
HYK-4	O-ring kit
HYK-5	Diaphragm kit (Desmopan)
HYK-6	Valve kit

## AR160 LOW PRESSURE



- Diaphragms: 4
- Housing: Epoxy Coated
- Max. Flow: 42.5 GPM
- Max. PSI: 290
- Max. RPM: 550
- Max. Fluid Temp: 140° F
- Ports: 2" HB In, 1 1/2" HB Out
- 13/8" - 6 Spline male shaft

For controls and drive options see pages following.

No.	Description
6708	AR160
Repair Kits	
HYK-7	O-ring kit
HYK-8	Diaphragm kit (Buna-N)
HYK-9	Valve kit

## AR250 LOW PRESSURE



- Diaphragms: 6
- Housing: Epoxy Coated
- Max. Flow: 66 GPM
- Max. PSI: 290
- Max. RPM: 550
- Max. Fluid Temp: 140° F
- Ports: 2" HB In, 1 1/2" HB Out
- 13/8" - 6 Spline Male Shaft

For controls and drive options see pages following.

No.	Description
6709	AR250
Repair Kits	
HYK-10	O-ring kit
HYK-11	Diaphragm kit (Buna-N)
HYK-12	Valve kit

## AR30 MEDIUM PRESSURE



- Diaphragms: 2
- Housing: wetted parts Epoxy coated
- Max. Flow: 9.5 GPM
- Max. PSI: 580
- Max. RPM: 550
- Max. Fluid Temp: 140° F
- Ports: 1" HB In, 1/2" HB Out

For controls and drive options see pages following.

No.	Description
6712	AR30 Flanged for shaft kit
<b>Repair Kits</b>	
HYK-21	O-ring kit
HYK-22	Diaphragm kit (Buna-N)
HYK-23	Diaphragm kit (Desmopan)
HYK-24	Valve kit

## AR1265 HIGH PRESSURE



- Diaphragms: 5
- Housing: Anodized Aluminum
- Max. Flow: 33 GPM
- Max. PSI: 725
- Max. RPM: 550
- Max. Fluid Temp: 140° F
- Ports: HB 1 1/2" In, MPT 3/4" Out
- 1 3/8" 6 Splined shaft extension

For controls and drive options see pages following.

No.	Description
6718	AR1265
<b>Repair Kits</b>	
HYK-34	Diaphragm kit (Buna)

## AR1554 HIGH PRESSURE



- Diaphragms: 4
- Housing: Anodized Aluminum
- Max. Flow: 41 GPM
- Max. PSI: 725
- Max. RPM: 550
- Max. Fluid Temp: 140° F
- Ports: 1 1/2" HB In, 3/4" HB Out

For controls and drive options see pages following.

No.	Description
6719	AR1554 with 1 3/8" 6 spline thru shaft
<b>Repair Kits</b>	
HYK-35	Diaphragm kit (Desmopan)
HYK-36	Valve kit
HYK-37	O-ring kit

## AR50 MEDIUM PRESSURE

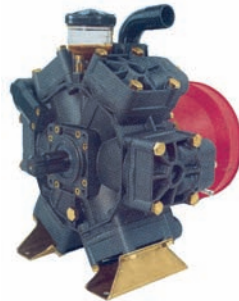


- Diaphragms: 2
- Max. Flow: 14 GPM
- Max. PSI: 580
- Max. RPM: 550
- Max. Fluid Temp: 140° F
- Ports: 1 1/4" HB In, 1/2" HB Out

For controls and drive options see pages following.

No.	Description
6714	AR50 Flanged for shaft kit
6715	AR50Ap-A flanged with 1" shaft extension
<b>Repair Kits</b>	
HYK-25	O-ring kit
HYK-26	Diaphragm kit (Buna-N)
HYK-27	Diaphragm kit (Desmopan)
HYK-28	Valve kit

## 9910-D1516 HIGH PRESSURE



- Diaphragms: 4
- Housing: Anodized Aluminum
- Max. Flow: 40 GPM
- Max. PSI: 725
- Max. RPM: 550
- Max. Fluid Temp: 140° F
- Ports: 1 1/2" HB In, 3/4" NPT Out

For controls and drive options see pages following.

No.	Description
9910-D1516	D1516 with 1 3/8" 6 spline male shaft extension

## D30 HIGH PRESSURE



- Model D30 diaphragm pump with GS40GI control unit and KIT 1640 gearbox, Industrial Plus Briggs & Stratton 6.5 hp gas engine with base.
- Max. Flow: 9.5 GPM
- Max. PSI: 550
- Max. RPM: 540

For controls and drive options see pages following.

No.	Description
9881	D30 with Gas engine.