HYPRO® POWERPRO ENGINES & ENGINE-DRIVEN PUMPS



PowerPro Gasoline Engines

High Quality, Field-Proven Engine

Features & Benefits

- Available in multiple horsepower options to suit a diverse range of agricultural, industrial, and lawn & garden applications
- Electric start option available for quick start-up
- Dual element air filter provides highest degree of filtering
- Cast iron cylinder sleeve for commercial use
- Overhead valve for cleaner operation on most models; flat head on 2.5 HP
- Equipped with a robust low-oil sensor to prevent engine damage
- All engines are CARB/EPA certified
- Engines can be configured to various Hypro® pump models or purchased individually
- Supported with a one-year warranty from Hypro; repair parts available for easy servicing
- Dedicated technical and service support:
 - 1-800-POWERPRO



CARB & EPA Part Number	НР	Shaft Size
2549-0042	2.5	1/2" w/Flat
2549-0043	2.5	5/8" Keyed
2541-0045	6.5	3/4" Keyed
2541-0046	6.5	5/8" Threaded
2541-0048	13	1" Keyed
2541-0050	13	1" Threaded

PowerPro Gasoline Engines, Electric Start

CARB & EPA Part Number	HP	Shaft Size			
2541-0053	6.5	3/4" Keyed			
2541-0054*	6.5	2:1 reduced 3/4" Shaft			
2541-0055	6.5	5/8" Threaded			
2541-0049	13	1" Keyed			
2541-0051	13	1" Threaded			

^{*}Available by special order only. Minimum quantities apply.

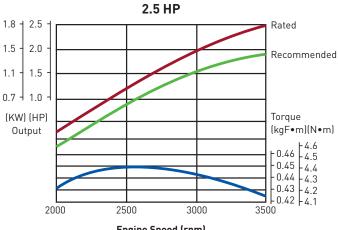




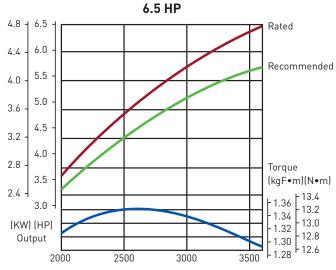




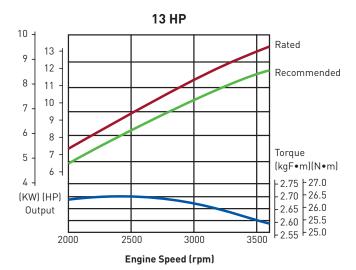
13 HP Electric Start



Engine Speed (rpm)



Engine Speed (rpm)



Polypropylene Transfer Pumps

Lightweight and Versatile Pumps Ideal for Tank Filling and Chemical Transfer

Features & Benefits

- Polypropylene housing is suitable for corrosive environments
- Powered by field-proven Hypro® PowerPro EPA engine
- Self-priming capabilities with maximum suction lift up to 25 feet/7.62 meters
- Nylon impellers (1542P Series) and poly impellers with stainless steel inserts (1543P Series) can handle solid particles in suspension up to 3/8" diameter
- EPDM mechanical seal and inlet valve for longevity and reliability in most applications
- Available in 2" and 3" models to fit common hose sizes
- Achieve the highest performance available in a 3" poly transfer pump with the highest efficiency and horsepower on the market
- Supported with a one-year Hypro warranty on both pump and PowerPro engine
- Pump and engine repair parts available for easy servicing



Order Information

Model Number	Max GPM	Max PSI	Port Size	Engine Mfg. & HP							
1542P-55SP	150	58	2" x 2"	PowerPro 6.5 HP							
1542P-65SP	200	58	2" x 2"	PowerPro 6.5 HP							
1542P-65SPM	200	58	2" x 2"	PowerPro 6.5 HP w/ frame							
1542P-65ESP	200	58	2" x 2"	PowerPro 6.5 HP w/ electric start							
1542PV-65SP	200	58	2" x 2"	PowerPro 6.5 HP w/ Viton® seals							
3430-0690	Pump he	ad kit for 1	542P-55SP v	vith EPDM seal							
3430-0691	Pump he	Pump head kit for 1542P-65SP with EPDM seal									
3430-0635	EPDM se	EPDM seal kit for 1542P Series									
3430-0659	Viton® Sea	al Kit for 1	542 Series								
1543P-130SP	440	54	3" x 3"	PowerPro 13 HP							
1543P-130ESP	440	54	3" x 3"	PowerPro 13 HP w/ elec. start							
1543P-130ESP-01	440	54	300 x 300	PowerPro 13 HP w/flanged fittings							
2801-0012	2" Poly tr	ansfer pur	mp frame onl	у							
3430-0692	Pump he	ad kit for 1	543P series	with EPDM seal							
3430-0692-02	Flanged I	Pump Hea	d Kit for 1543	P Series with EPDM seals							
3430-0757	EPDM se	al kit for 1	543P series								



Hydraulic motor & pedestal models available. Reference catalog HYP01 for more information.

1542P-55SP US Standard 1542P-55SP Metric

GPM at 0 PSI				GPM at 40 PSI		GPM at 58 PSI		LPM at 0.7 BAR				
150	147	131	108	80	48	0	568	556	496	409	303	

1542P-65SP, 1542P-65SPM, 1542P-65ESP, 1542PV-65SP

US Standard

GPM at 0 PSI		GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 58 PSI
200	182	162	136	106	65	0

1543P-130SP, 1543P-130ESP, 1543P-130ESP-01

US Standard

| GPM at |
|--------|--------|--------|--------|--------|--------|--------|
| 0 PSI | 10 PSI | 20 PSI | 30 PSI | 40 PSI | 50 PSI | 54 PSI |
| 440 | 400 | 338 | 269 | 184 | 68 | |

1542P-65SP, 1542P-65SPM, 1542P-65ESP, 1542PV-65SP

 LPM at 0 BAR
 LPM at 0.7 BAR
 LPM at 1.4 BAR
 LPM at 2.1 BAR
 LPM at 2.8 BAR
 LPM at 3.4 BAR
 LPM at 4.0 BAR

 757
 689
 613
 515
 401
 246
 0

1543P-130SP,	
1543P-130ESP,	1543P-130ESP-01

Metric

0

Metric

LPM at 0 BAR		LPM at 1.4 BAR		LPM at 2.8 BAR		
1666	1514	1279	1018	697	257	0

Cast Iron Transfer Pumps

Heavy-Duty Pumps Suitable for Rugged Transfer Applications



Features & Benefits

- Cast iron housing and impeller ideal for rugged applications including tank filling and chemical transfer
- Powered by field-proven Hypro® PowerPro EPA engines
- Self-priming capabilities with maximum suction lift up to 20 feet/6.1 meters
- Fluoroelastomer seal provides excellent chemical resistance
- Available in 2" and 3" models to fit common hose sizes
- Supported with a one-year Hypro warranty on both pump and PowerPro engine
- Pump and engine repair parts available for easy servicing

Order Information

Model Number	Max GPM	Max PSI	Port Size	Engine Mfg. & HP						
1532C-6SP	170	42	2" x 2" PowerPro 6.5 HP							
3430-0673CSP	170	42	Pump head kit for 2" self-priming cast iron transfer pump							
1533C-13SP	330	66	3" x 3" PowerPro 13 HP							
1533C-13ESP	330	66	3" x 3"	PowerPro 13 HP w/ electric start						
3430-0674CSP	330	66	Pump hea	Pump head kit for 3" self-priming cast iron transfer pump						

Additional drive options available. Reference catalog HYP01 for more information.

1532C-6SP US Standard

| GPM at |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 PSI | 5 PSI | 10 PSI | 15 PSI | 20 PSI | 25 PSI | 30 PSI | 35 PSI | 40 PSI | 42 PSI |
| 170 | 155 | 140 | 123 | 106 | 87 | 65 | 42 | 14 | |

1532C-6SP Metric

LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at
0 BAR	0.3 BAR	0.7 BAR	1.0 BAR	1.4 BAR	1.7 BAR	2.1 BAR	2.4 BAR	2.8 BAR	2.9 BAR
644	587	530	466	4 01	329	246	159	53	

1533C-13SP, 1533C-13ESP

US Standard

| GPM at |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 PSI | 5 PSI | 10 PSI | 15 PSI | 20 PSI | 25 PSI | 30 PSI | 35 PSI | 40 PSI | 45 PSI | 50 PSI | 60 PSI | 66 PSI |
| 330 | 325 | 321 | 315 | 296 | 273 | 248 | 221 | 192 | 161 | 129 | 48 | |

1533C-13SP, 1533C-13ESP

Metric

LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at	LPM at
0 BAR	0.3 BAR	0.7 BAR	1.0 BAR	1.4 BAR	1.7 BAR	2.1 BAR	2.4 BAR	2.8 BAR	3.1 BAR	3.4 BAR	4.1 BAR	4.6 BAR
1249	1230	1215	1192	1120	1033	938	836	726	609	488	181	

Aluminum Transfer Pumps

Lightweight Pumps Ideal for Water Transfer

Features & Benefits

- Aluminum housing is suitable for applications of flood water removal, lawn and garden watering and pond filling
- Powered by field-proven Hypro® PowerPro EPA engine
- Suction lift:
 - 13 ft/4m (1541A) 23 ft./7.01m (1542A & 1543A)
- Durable cast iron impeller and diffuser for long life
- Trash pump can handle solid particles in suspension up to 1-1/8" diameter (Transfer pump models handle solids up to 3/8")
- EPDM mechanical seal and inlet valve for longevity and reliability in dewatering applications
- 2" and 3" NPT ports
- Supported with a one-year Hypro warranty on both pump and PowerPro engine
- Pump and engine repair parts available for easy servicing
- Pump head kits mount to standard 4-7 HP gas engine with SAEj609a mounts (3/4" keyed shaft)

Order Information

Model Number	Max GPM	Max PSI	Port Size	Engine Mfg. & HP		
1541A-SP	40	28	2" x 2" BSP	PowerPro 2.5 hp		
1542A-65SP	147	50	2" x 2" NPT	PowerPro 6.5 hp with frame		
1543A-65SP	259	50	3" x 3" NPT	PowerPro 6.5 hp with frame		
1543A-65TSP (Trash)	272	50	3" x 3" NPT	PowerPro 6.5 hp with frame		
3430-0792	2" Transf	er Kit (NP	Γports, SAE 3	3/4" keyed shaft mount)		
3430-0793	3" Transf	er Kit (NP	Γports, SAE 3	3/4" keyed shaft mount)		
3430-0791 3" Trash Kit (NPT ports, SAE 3/4" keyed shaft moun						
2801-0011	2" & 3" Transfer pump frame only					
2801-0012	3" Trash	pump fran	ne only			

1541A-SP US Standard

| GPM at |
|--------|--------|--------|--------|--------|--------|
| 0 PSI | 10 PSI | 15 PSI | 20 PSI | 25 PSI | 28 PSI |
| 40 | 28 | 21 | 14 | 7 | |

1542A-65SP US Standard

GPM at 5 PSI								GPM at 45 PSI	
147	144	136.6	124.7	110.2	94.1	78.3	57.1	19.2	0

1543A-65SP US Standard

GPM at 5 PSI	GPM at 10 PSI								
259	251.6	233.7	213.6	190.9	162.2	135.8	99.3	56.1	8.7

1543A-65TSP US Standard

									GPM at 50 PSI
272	269.8	241	207.6	179.3	140.4	98.1	50.7	5.4	0





1541A-SP Metric

LPM at	LPM at	LPM at	LPM at	LPM at	LPM at
0 BAR	0.7 BAR	1.0 BAR	1.4 BAR	1.7 BAR	1.9 BAR
151.4	106.0	79.5	53.0	26.5	

1542A-65SP Metric

at 0.3	at 0.7	LPM at 1.0 BAR	at 1.4	at 1.7	at 2.1	at 2.4	at 2.8	at 3.1	at 3.4
556.5	545.1	517.1	472	417.2	356.2	296.4	216.1	72.7	0

1543A-65SP Metric

af	t 0.3	at 0.7	LPM at 1.0	at 1.4	at 2.1	at 2.4	at 2.8	at 3.1	at 3.4
			884.6						

1543A-65TSP Metric

at 0.3	at 0.7	at 1.0	at 1.4	at 1.7	LPM at 2.1 BAR	at 2.4	at 2.8	at 3.1	at 3.4
1029.6	1021.3	912.3	785.8	678.7	531.5	371.3	191.9	20.4	0

Centrifugal Pumps

Non-Positive Displacement Pump and Engine Units

Features & Benefits

- Hypro[®] quality centrifugal pumps powered by fieldproven PowerPro EPA certified engines
- Self-priming capabilities (-SP models only) with maximum suction lift up to:
 - 15 feet/4.57 meters (1522C Series)
 - 20 feet/6.10 meters (1552C Series)
- Cast iron housing ideal for common agricultural spraying or transfer applications
- Rugged nylon impeller for high density fluid applications
- Viton®/ceramic pump seals provide good chemical resistance and extend pump life
- Stainless steel wear ring for extended life in normal chemical spraying applications
- Supported with a one-year Hypro warranty on both pump and PowerPro engine



Model Number	Max GPM	Max PSI	Port Size	Engine Mfg. & HP				
1521C-65	110	80	1 1/2" x 1 1/4	PowerPro 6.5 HP				
1521C-65M	Same as	Same as 1521C-65 with mounting base						
1522C-65SP	130	65	2" x 2"	PowerPro 6.5 HP				
3430-0332	1521 & 1	1521 & 1522 Seal and O-ring repair kit						
1552C-130	170	150	2" x 1 1/2	PowerPro 13 HP				
1552C-130E	170	150	2" x 1 1/2	PowerPro 13 HP w/ elec. start				
1552C-130SP	163	147	2" x 2"	PowerPro 13 HP				
1552C-130ESP	163	147	2" x 2"	PowerPro 13 HP w/ elec. start				
3430-0464	1552 Seal and 0-ring repair kit							





US Standar

					GPM at 50 PSI			
110	110	106	96	88	80	60	30	0

1522C-65SP	US Standard
10220 0001	oo otamaana

		GPM at 20 PSI						
130	121	108	93	85	76	56	34	0

GPM at 0 PSI							GPM at 140 PSI	
170	145	130	107	87	69	45	16	0

1552C-130SP, 1552C-130ESP US Standard

								GPM at 147 PSI
163	161	148	122	100	75	51	27	0

1521C-65, 1521C-65M

	LPM at 0.7 BAR							
416	416	401	363	333	303	227	114	0

1522C-65SP	Metric

							LPM at 4.1 BAR	
492	458	409	352	322	288	212	129	0

1552C-130, 1552C-130E

Metric

Metric

LPM at 0 BAR								LPM at 10.3 BAR
644	549	492	405	329	261	170	61	0

1552C-130SP, 1552C-130ESP

Metric

	LPM at 1.4 BAR							LPM at 10.1 BAR
617	609	560	462	379	284	193	102	0

Diaphragm Pumps

Heavy-Duty, Positive Displacement Pump and Engine Units

Features & Benefits

- Hypro[®] quality diaphragm pumps powered by fieldproven PowerPro EPA certified engines
- Oil-bath design and premium quality synthetic diaphragms provides longer life and greater reliability
- Oil-bath design also allows pump to be run dry
- Self-priming operation
- Corrosive, abrasive and general use chemical compatibility
- Visual oil-level sight glass
- HRGI models use a new gearbox design (see page 8 for details)
- Supported with a one-year Hypro warranty on both pump and PowerPro engine



Model Number	Max GPM	Max PSI	Max RPM	Control Unit & Gearbox	Engine Mfg. & HP
D252GRGI-25	5.9	290	3600	9910-KIT1990	PowerPro 2.5 HP
D252GRGI-55	5.9	290	3600	9910-KIT1990	PowerPro 6.5 HP
D30GRGI-65	9.6	580	3600	GS40GI and KIT1640	PowerPro 6.5 HP
D30HRGI-65	9.6	580	3600	GS40GI and 8000-0056	PowerPro 6.5 HP
D30HRGI-65E	9.6	580	3600	GS40GI and 8000-0056	PowerPro 6.5 HP w/ electric start
D403GRGI-65	9.9	580	3600	GR40 and KIT1640	PowerPro 6.5 HP
D403HRGI-65	9.9	580	3600	GR40 and 8000-0056	PowerPro 6.5 HP
D403HRGI-65E	9.9	580	3600	GR40 and 8000-0056	PowerPro 6.5 HP w/ electric start
D503HRGI-65	14.3	290	3600	GR40 and 8000-0056	PowerPro 6.5 HP
D503HRGI-65E	14.3	290	3600	GR40 and 8000-0056	PowerPro 6.5 HP w/ electric start





D30GRGI-65



D252GRGI-25, D252GRGI-55

5	S	ta	n	d	a	r	d	

Metric

GPM at	GPM at	GPM at	GPM at	GPM at
0 PSI	72 PSI	145 PSI	217 PSI	290 PSI
5.9	5.0	4.8	4.7	

| LPM at |
|--------|--------|--------|--------|--------|
| 0 BAR | 5 BAR | 10 BAR | 15 BAR | 20 BAR |
| 22 | 19 | 18 | 18 | 17 |

D30GRGI-65

US Standard D30GRGI-65

GPM at	GPM at	GPM at	GPM at	GPM at
0 PSI	145 PSI	290 PSI	465 PSI	580 PSI
9.6	9.3	8.8	8.6	

Metric

| LPM at |
|--------|--------|--------|--------|--------|
| 0 BAR | 10 BAR | 20 BAR | 30 BAR | 40 BAR |
| 36 | 35 | 33 | 33 | |

D30HRGI-65, D30HRGI-65E

US Standard

GPM at	GPM at	GPM at	GPM at	GPM at
0 PSI	145 PSI	290 PSI	465 PSI	580 PSI
9.6	9.3	8.8	8.6	

D30HRGI-65, D30HRGI-65E

Metric

| LPM at |
|--------|--------|--------|--------|--------|
| 0 BAR | 10 BAR | 20 BAR | 30 BAR | 40 BAR |
| 36 | 35 | 33 | 33 | 31 |

D403GRGI-65

US Standard

GPM at	GPM at	GPM at	GPM at	GPM at
0 PSI	145 PSI	290 PSI	465 PSI	580 PSI
9.9	9.8	9.7	9.6	9.5

D403GRGI-65

Metric

| LPM at |
|--------|--------|--------|--------|--------|
| 0 BAR | 10 BAR | 20 BAR | 30 BAR | 40 BAR |
| 38 | 37 | 37 | 36 | 36 |

D403HRGI-65, D403HRGI-65E

US Standard

GPM at	GPM at	GPM at	GPM at	GPM at
0 PSI	145 PSI	290 PSI	465 PSI	580 PSI
9.9	9.8	9.7	9.6	

D403HRGI-65, D403HRGI-65E

Metric

| LPM at |
|--------|--------|--------|--------|--------|
| 0 BAR | 10 BAR | 20 BAR | 30 BAR | 40 BAR |
| 38 | 37 | 37 | 36 | 36 |

D503HRGI-65, D503HRGI-65E

GPM at	GPM at	GPM at
0 PSI	145 PSI	290 PSI
14.3	14.1	

US Standard D503HRGI-65, D503HRGI-65E

Metric

LPM at	LPM at	LPM at
0 BAR	10 BAR	20 BAR
54	53	

Hypro Gearbox (8000-0056)

Features & Benefits

- New and improved bolt-through pinion gear helps prevent keyway fretting and ceasing
- Robust 6:1 gear design increases longevity
- Engine mounting flange designed for ease of assembly with standard tools
- Increased oil capacity reduces service time
- Available pre-assembled on HRGI models
- Mounts to D30, D50, D403 and D503 models



Roller Pumps

Heavy-duty, Positive-Displacement Pump and Engine Units

Features & Benefits

- Hypro® quality roller pumps powered by field-proven PowerPro EPA certified engines
- Available with cast iron housing and rotor for common agricultural, pest control, and water wash-down applications, or Silvercast housing and rotor for more corrosion resistance
- Super Rollers provide the best chemical resistance and the longest life in most applications
- Viton® seals provide the best overall chemical resistance
- 3/4" NPT ports fit most existing sprayer plumbing system
- Supported with a one-year Hypro warranty on both pump and PowerPro engine



4101C-25A

Order Information

Model Number	Max GPM	Max PSI	Engine Mfg. & HP
4101C-25	8.9	100	PowerPro 2.5 HP
4101XL-25	8.9	150	PowerPro 2.5 HP

4101C-25, 4101XL-25

US Standard 4101C-25, 4101XL-25

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IVI		

GPM at	GPM at	GPM at	GPM at
0 PSI	50 PSI	100 PSI	150 PSI
8.9	8.6	8.3	8.0

LPM at	LPM at	LPM at	LPM at
0 BAR	3.4 BAR	6.9 BAR	10.3 BAR
34	33	31	30

Ball Valves

Hypro® ball valves work great in applications where a transfer pump is used.

- 2" single union ball valves available in 2-way full port or 3-way full port with bottom connection
- Reinforced polypropylene body provides strength and resistance in corrosive environments
- Easy lever movement decreases operator strain
- PTFE (Teflon®) seals and stainless steel hardware for long lasting performance



Order Information

Model Number	Description
9951-2200N	2" NPT 2-way Single Union Ball Valve
9951-3200N	2" NPT 3-way Single Union Ball Valve

Additional sizes available. Reference catalog HYP01 for more information.

Cam Lock Fittings

Hypro cam lock fittings allow for quick and easy hose attachment to the transfer pump for the ultimate in convenience.

- Stainless steel locking levers provide for maximum mechanical strength and corrosion resistance
- Interchangeable with other cam lock couplings made to MIL-C-27487 specifications
- Locking mechanism available to prevent accidental opening



Order Information

Size	Pump-End Fitting	Hose-End Fitting
2"	9950-200NF	9950-200C
3"	9950-300NF	9950-300C

Additional sizes available. Reference catalog HYP01 for more information.

Universal Flanged Gaskets

The gasket wraparound feature provides positive alignment of the adjoining fittings and allows visual inspection to be conducted during assembly

- Provides sealing areas between fitting faces and outside diameter of flanged surfaces which increases the maximum pressure the joint can manage without leaks
- Flow can be increased by as much as 16% as the new universal flanged gasket reduces protrusion into the joint



Order Information

Part #	Size	Gasket Type
UFG0200E	2"	EPDM
UFG0300E	3"	EPDM

Transfer Pump Cam Lock Kit

Hypro cam lock kits easily add heavy-duty male cam lock connections to the NPT ports of 2" and 3" polypropylene pumps.

- Includes one male cam lock adapter for pump inlet
- Includes one heavy-duty 90° elbow and one male cam lock adapter for the pump outlet
- Prepares transfer pumps for the most common means of quick coupling a hose
- Interchangeable with other camlock fittings made to MIL-C-27487 specifications





Order Information

Size	Model Number
2"	3410-0041
3"	3410-0042

