

# Roller Pumps

Hypro roller pumps are the most popular pumps worldwide for agricultural tasks. These low-cost, highly-versatile pumps are used for spraying and transferring a variety of fluids including insecticides, herbicides, fungicides, emulsives, aromatic solvents, liquid fertilizers and many other non-abrasive liquids. All pumps are available in three materials: Cast Iron, Ni-Resist or Silver Series XL®. On average, the Silver Series XL® pumps last up to 10 times longer\* than the competition (see page 64 for further details).

These pumps contain rollers that revolve inside the pump housing to force the spray solution through the outlet to the nozzle. Hypro roller pumps are easily adaptable to PTO, gas engine or electric motor drives. The pumps operate efficiently at PTO speeds of 540 and 1000 rpm. Pressure ranges are up to 300 psi (20.7 bar) with flow rates of 2 to 62 gpm (7.6 to 235 lpm).

\* Based on independent laboratory tests.

Hypro roller pump quality features:

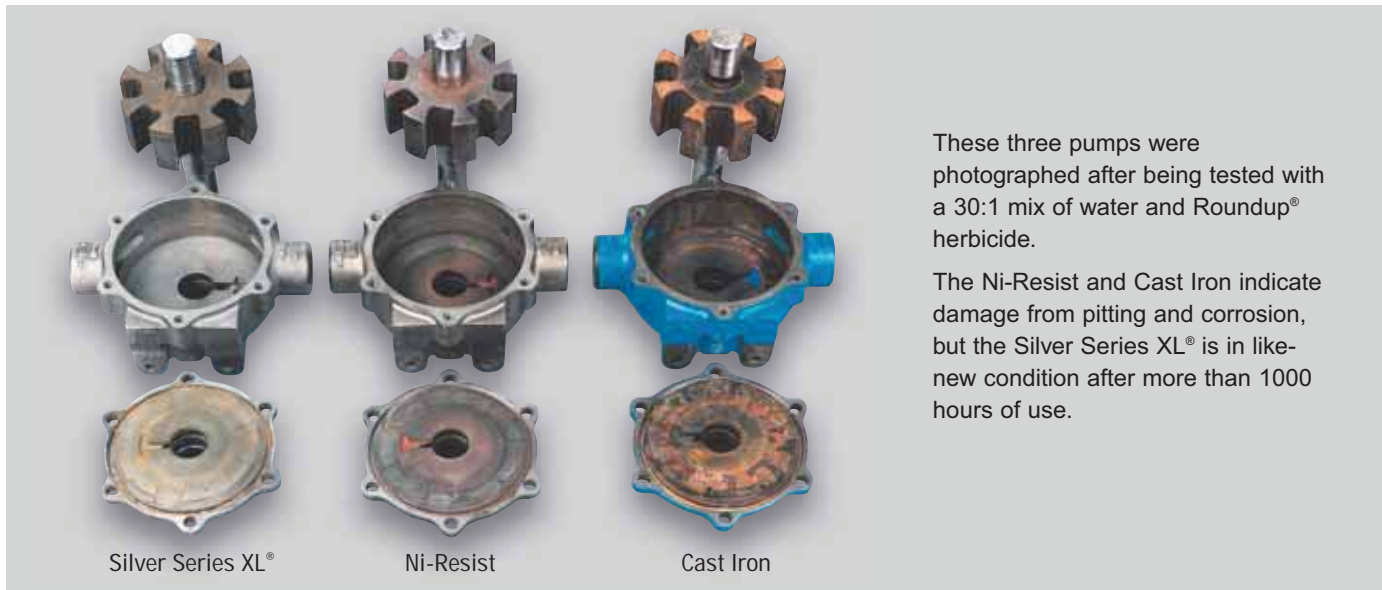
- Housing available in Cast Iron, Ni-Resist or Silver Series XL®
  - Ni-Resist is a high nickel content alloy for better corrosion resistance
  - Silver Series XL® has a custom alloy that provides the best corrosion resistance and is *Ready for use with Roundup®*
- Self-priming operation; roller pumps should NOT be run dry
- Adaptable to PTOs or gas engines
- Standard seals are Viton or Buna-N



# Roller Pump Comparisons

## HERBICIDE USERS

Get up to 10 times longer pump life with Hypro Silver Series XL® Roller pumps!



## IMPROVEMENTS WITH HYPRO ROLLER PUMPS

### Floating PTFE coated rotors

- Floating rotor design and black PTFE coating on metal rotors increases performance and extends pump life
- Standard production in 4001, 4101, 6500, & 7560 Silver Series XL and Ni-Resist pumps
- Available at no additional charge



Floating Design, PTFE Coating

### Clear Coat Finish

- Offers increased protection from chemical attack and from the elements
- Included on all Ni-Resist roller pumps
- Available at no additional charge

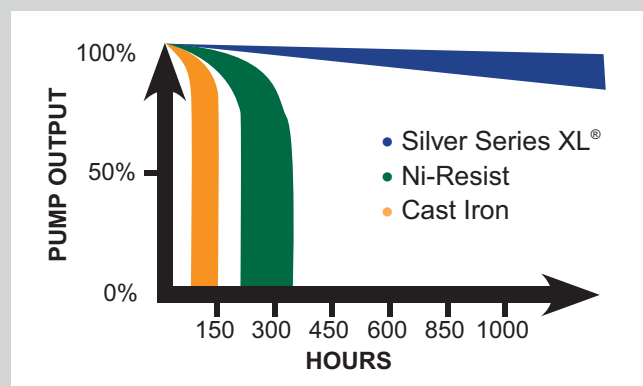


Ni-Resist Pumps

### Herbicide users:

Get up to 10 times longer pump life!

- Cast Iron pumps lasted to 140 hours before failure.
- Ni-Resist pumps lasted to 332 hours before failure.
- Silver Series XL® pumps ran over 1000 hours and still met new pump specs!



# Pump Recommendations for Applications

## WHICH ROLLER PUMP, ROLLERS AND SEALS SHOULD YOU USE?

Material options for rollers and seals are listed in the order of recommendations for usage. These recommendations are only a general guide. For suggestions on specific chemicals or applications, call Hypro's Technical/Applications Department at (800) 445-8360.

APPLICATION	SPECIFIC CHEMICALS	SUGGESTED PUMP, ROLLERS AND SEALS
WEED CONTROL CHEMICALS	Emulsions, soluble powders, sodium arsenate.	Use a Silver Series XL <sup>®</sup> , Ni-Resist, or Cast Iron pump, Super Rollers and Viton seals  NOTE: For weed control chemicals containing glyphosate (such as Roundup <sup>®</sup> ) or other acidics, use only a Silver Series pump with Super or poly rollers and Viton seals. Teflon (T2) rollers may be used up to 100 psi.
INSECT CONTROL	Emulsions not containing aromatic solvents.	
BRUSH CONTROL	Heavy-duty sprays using diesel oil for carrier.	
PEST CONTROL CHEMICALS, FUMIGANTS, ETC.	This category of use includes mosquito sprays, termite control liquids, nematocides, soil and grain fumigants where any of the following chemicals with aromatic solvents are present:  Pentachlorophenol, xylene, xylol, benzene, high sulphur fuel or diesel oil. Fumigants containing: ethylene dichloride, ethylene dibromide, carbon tetrachloride, perchlorethylene, trichlorethylene, methyl bromide, and other aromatic solvents.	Use a Silver Series XL <sup>®</sup> , Ni-Resist or Cast Iron pump with Super Rollers. Use Viton seals.
LIQUID FERTILIZERS	Up to 32% nitrogen content, or others if the liquid is atmospheric pressure and the temperature is handled.	Use a Silver Series XL <sup>®</sup> or Ni-Resist pump with poly rollers and Buna-N seals.
POWDERED FERTILIZERS	Fertilizers dissolved in water (greenhouse plant food).	
PUMPING	Large quantities of plain water.	Use a Silver Series XL <sup>®</sup> , Ni-Resist or Cast Iron pump; Super or poly rollers; and Buna-N or Viton seals.
SPRAYING	Wettable powder sprays.	
MATERIAL HANDLING	Heavy abrasive powders in suspension.	
ACIDS	Mild sulfuric acid for spraying. Mild muriatic acid, inhibited muriatic, etc.	Use a Silver Series XL <sup>®</sup> pump, poly or Teflon rollers and Viton seals.  NOTE: Limit pressure to 100 psi when using Teflon rollers.

# Cast Iron, Ni-Resist or Silver Series XL<sup>®</sup>

## Series 4001 4-Roller



- Port size: 3/4" NPT
- Max. fluid temperature: 140°F/60°C
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Pump shaft rotation: CW (CCW available)\*
- Weight: 5 lbs./2.3 kg
- Rollers: Super Rollers standard [Poly (T3) and Teflon (T2)]
- Shaft Seals: Viton standard
- Available shaft adapters: See page 73
- Special torque arm and base kit is available for gas engines
- Rotor: Cast Iron, Ni-Resist or Silvercast
- Standard rotation directly couples to gasoline engines

Pressure in PSI and BAR	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP
	@1100 RPM		@1400 RPM		@1800 RPM	
0 PSI	5.5	.06	7.1	.10	9.1	.14
0 BAR	20.8	.06	26.9	.10	34.4	.14
25 PSI	4.9	.14	6.4	.20	8.5	.30
1.7 BAR	18.5	.14	24.2	.20	32.2	.30
50 PSI	4.4	.24	5.9	.32	8.0	.46
3.4 BAR	16.6	.24	22.3	.32	30.3	.46
75 PSI	4.1	.34	5.6	.44	7.6	.62
5.2 BAR	15.5	.34	21.2	.44	28.7	.62
100 PSI	3.8	.41	5.3	.56	7.3	.78
6.9 BAR	14.4	.41	20.1	.56	27.6	.78
125 PSI	3.5	.50	5.0	.68	7.0	.95
8.6 BAR	13.2	.50	18.9	.68	26.5	.95
150 PSI	3.3	.62	4.8	.78	6.7	1.1
10.3 BAR	12.5	.62	18.2	.78	25.4	1.1

### Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
4001C	9.1	150	1800	5/8" solid shaft
4001C-H	9.1	150	1800	1/2" hollow shaft
4001N	9.1	150	1800	5/8" solid shaft
4001N-H	9.1	150	1800	1/2" hollow shaft
4001XL	9.1	150	1800	5/8" solid shaft
4001XL-H	9.1	150	1800	1/2" hollow shaft

Teflon rollers - Add Suffix "T2" - (i.e.: 4001C-T2).  
 Polypropylene rollers - Add Suffix "T3" - (i.e.: 4001C-T3).  
 Reverse rotation\* - Add Suffix "R" - (i.e.: 4001C-R).

# Cast Iron, Ni-Resist or Silver Series XL<sup>®</sup>

## Series 4101 4-Roller



- Port size: 3/4" NPT
- Max. fluid temperature: 140°F/60°C
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Pump shaft rotation: CW (CCW available)\*
- Weight: 5 lbs./2.27 kg
- Rollers: Super Rollers standard [Poly (T3) and Teflon (T2)]
- Shaft Seals: Viton standard
- Available shaft adapters: See page 73
- Special torque arm and base kit is available for gas engines
- Rotor: Cast Iron, Ni-Resist or Silvercast
- Standard rotation directly couples to gasoline engines

Pressure in PSI and BAR	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP
	@1800 RPM		@2200 RPM		@2600 RPM	
0 PSI	5.0	.11	6.2	.14	7.2	.16
0 BAR	18.9	.11	23.5	.14	27.3	.16
25 PSI	4.8	.21	5.8	.27	6.9	.30
1.7 BAR	18.1	.21	21.9	.27	26.1	.30
50 PSI	4.5	.34	5.6	.40	6.6	.46
3.4 BAR	17.0	.34	21.2	.40	25.0	.46
75 PSI	4.2	.45	5.4	.55	6.4	.62
5.2 BAR	15.9	.45	20.4	.55	24.2	.62
100 PSI	3.9	.56	5.0	.68	6.0	.76
6.9 BAR	14.8	.56	18.9	.68	22.7	.76
125 PSI	3.7	.68	4.7	.82	5.7	.92
8.6 BAR	14.0	.68	17.8	.82	21.6	.92
150 PSI	3.4	.78	4.4	.96	5.4	1.08
10.3 BAR	12.9	.78	16.6	.96	20.4	1.08

### Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
4101C	7.2	150	2600	5/8" solid shaft
4101C-H	7.2	150	2600	1/2" hollow shaft
4101N	7.2	150	2600	5/8" solid shaft
4101N-H	7.2	150	2600	1/2" hollow shaft
4101XL	7.2	150	2600	5/8" solid shaft
4101XL-H	7.2	150	2600	1/2" hollow shaft

Teflon rollers - Add Suffix "T2" - (i.e.: 4101C-T2).  
 Polypropylene rollers - Add Suffix "T3" - (i.e.: 4101C-T3).  
 Reverse rotation\* - Add Suffix "R" - (i.e.: 4101C-R).

\* CCW (counterclockwise) and CW (clockwise) are determined when looking at the shaft end.

# Ni-Resist or Silver Series XL<sup>®</sup>

## Series 4001 and 4101 12 volt DC 4-Roller



Note: All models come in either Ni-Resist or Silver Series XL housings.

- Weight: 16-18 lbs./7.3-8.2 kg
- Super Rollers and Viton seals standard
- Locking collar and torque arm come in each package
- Rotor: Ni-Resist (N) or Silvercast (XL)

### Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
4001N-EH	10.4	30	1900	½" Hollow Shaft
4001N-E2H	9.9	50	1600	½" Hollow Shaft
4001XL-EH	10.4	30	1900	½" Hollow Shaft
4001XL-E2H	9.9	50	1600	½" Hollow Shaft
4101N-EH	7.5	50	1900	½" Hollow Shaft
4101N-E2H	5.9	90	1600	½" Hollow Shaft
4101XL-EH	7.5	50	1900	½" Hollow Shaft
4101XL-E2H	5.9	90	1600	½" Hollow Shaft

Teflon rollers - Add Suffix "T2" - (i.e.: 4001N-EHT2).

Polypropylene rollers - Add Suffix "T3" - (i.e.: 4001N-EHT3).

Series 4101-EH and 4101-E2H	Model 4101N-EH & 4101XL-EH				Model 4101N-E2H & 4101XL-E2H		
	Volts	PSI	AMPS	GPM	PSI	AMPS	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	13.7	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	25.8	3.20	
40		22.3	4.6	80	28.9	3.00	
45		24.1	4.4	90	31.5	2.75	
13.5 (Alternator) Engine Running	0	10.4	7.5	0	---	---	
	5	11.7	7.0	10	9.1	5.9	
	10	13.0	6.6	20	11.2	5.6	
	15	14.2	6.4	30	13.9	5.25	
	20	15.8	6.2	40	16.9	5.0	
	25	17.4	6.0	50	19.5	4.7	
	30	19.6	5.8	60	22.7	4.35	
	35	20.9	5.6	70	25.7	4.0	
	40	22.5	5.4	80	29.2	3.6	
	45	24.3	5.2	90	31.9	3.4	
50	26.1	5.0	100	34.8	3.2		

Series 4101-EH and 4101-E2H	Model 4101N-EH & 4101XL-EH				Model 4101N-E2H & 4101XL-E2H		
	Volts	BAR	AMPS	LPM	BAR	AMPS	LPM
	12.0 (Battery) Engine Off	0	10.0	23.8	0	---	---
.3		11.3	22.7	.7	8.4	20.0	
.7		12.5	22.0	1.4	11.8	18.2	
1.0		13.7	21.2	2.1	13.7	17.6	
1.4		15.1	20.4	2.8	16.4	16.7	
1.7		16.7	19.7	3.4	19.6	15.3	
2.1		18.6	18.9	4.1	22.8	13.8	
2.4		20.3	18.2	4.8	25.8	12.1	
2.8		22.3	17.4	5.5	28.9	11.4	
3.1		24.1	16.7	6.2	31.5	10.4	
3.4	25.7	15.9	6.9	34.2	9.84		
13.5 (Alternator) Engine Running	0	10.4	28.4	0	---	---	
	.3	11.7	26.5	.7	9.1	22.3	
	.7	13.0	25.0	1.4	11.2	21.2	
	1.0	14.2	24.2	2.1	13.9	19.9	
	1.4	15.8	23.5	2.8	16.9	18.9	
	1.7	17.4	22.7	3.4	19.5	17.8	
	2.1	19.6	22.0	4.1	22.7	16.5	
	2.4	20.9	21.2	4.8	25.7	15.1	
	2.8	22.5	20.4	5.5	29.2	13.6	
	3.1	24.3	19.7	6.2	31.9	12.9	
3.4	26.1	18.9	6.9	34.8	12.1		

Series 4001-EH and 4001-E2H	Model 4001N-EH & 4001XL-EH				Model 4001N-E2H & 4001XL-E2H		
	Volts	PSI	AMPS	GPM	PSI	AMPS	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	
13.5 (Alternator) Engine Running	0	13.4	10.4	10	14.4	9.9	
	5	14.8	9.9	20	18.3	9.1	
	10	16.2	9.4	30	22.3	8.5	
	15	18.2	8.9	35	24.5	8.3	
	20	20.5	8.5	40	27.0	8.0	
	25	22.5	8.2	50	31.0	7.3	
30	24.9	7.7	60	36.1	6.8		

Series 4001-EH and 4001-E2H	Model 4001N-EH & 4001XL-EH				Model 4001N-E2H & 4001XL-E2H		
	Volts	BAR	AMPS	LPM	BAR	AMPS	LPM
	12.0 (Battery) Engine Off	0	12.6	34.1	.7	13.9	31.8
.3		14.1	31.4	1.4	18.0	29.9	
.7		15.2	30.7	2.1	22.2	27.3	
1.0		17.3	29.5	2.4	25.0	26.1	
1.4		19.7	27.3	2.8	27.0	24.6	
1.7		22.1	25.4	3.5	31.6	22.3	
2.1		24.8	23.5	4.1	36.2	20.4	
13.5 (Alternator) Engine Running	0	13.4	39.4	.7	14.4	37.5	
	.3	14.8	37.5	1.4	18.3	34.4	
	.7	16.2	35.6	2.1	22.3	32.2	
	1.0	18.2	33.7	2.4	24.5	31.4	
	1.4	20.5	32.2	2.8	27.0	30.3	
	1.7	22.5	31.0	3.5	31.0	27.6	
2.1	24.9	29.1	4.1	36.1	25.7		

# Cast Iron, Ni-Resist or Silver Series XL®

## Series 6500 6-Roller



- Port size: ¾" NPT
- 1" hose barb inlet fitting for 1000 rpm operation
- Max. fluid temperature: 140°F/60°C
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Pump shaft rotation: CCW (CW available)\*
- Weight: 9 lbs./4.1 kg
- Rollers: Super Rollers standard [Poly (T3) and Teflon (T2)]
- Shaft Seals: Viton standard
- Available PTO adapters: See page 73
- Recommended PTO torque arm kit 3430-0540
- Rotor: Cast Iron, Ni-Resist or Silvercast

Pressure in PSI and BAR	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP
	@540 RPM		@1000 RPM		@1200 RPM	
0 PSI	9.7	.08	18.2	.20	21.8	.30
0 BAR	36.7	.08	68.9	.20	82.5	.30
50 PSI	8.0	.38	16.5	.71	20.1	.90
3.4 BAR	30.3	.38	62.4	.71	76.1	.90
100 PSI	7.2	.68	15.4	1.26	19.1	1.51
6.9 BAR	27.3	.68	58.3	1.26	72.3	1.51
150 PSI	6.6	.97	14.7	1.80	18.2	2.14
10.3 BAR	25	.97	55.6	1.80	68.9	2.14
200 PSI	5.6	1.29	14.0	2.34	17.3	2.84
13.8 BAR	21.2	1.29	53	2.34	65.5	2.84
250 PSI	4.9	1.65	13.4	2.91	16.5	3.48
17.2 BAR	18.5	1.65	50.7	2.91	62.4	3.48
300 PSI	4.3	1.91	12.7	3.47	15.7	4.17
20.7 BAR	16.3	1.91	48.1	3.47	59.4	4.17

### Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
6500C	21.8	300	1200	5/8" solid shaft
6500N	21.8	300	1200	5/8" solid shaft
6500XL	21.8	300	1200	5/8" solid shaft

Teflon rollers - Add Suffix "T2" - (i.e.: 6500C-T2).  
 Polypropylene rollers - Add Suffix "T3" - (i.e.: 6500C-T3).  
 Reverse rotation\* - Add Suffix "R" - (i.e.: 6500C-R).

# Cast Iron, Ni-Resist or Silver Series XL®

## Series 7560 8-Roller



- Max. fluid temperature: 140°F/60°C
- Port sizes: ¾" NPT
- 1" hose barb inlet fitting for 1000 rpm operation
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Shaft rotation: CCW (CW available)\*
- Weight: 13 lbs./5.89 kg
- Rollers: Super Rollers standard [Poly (T3) and Teflon (T2)]
- Shaft Seals: Viton standard
- Available PTO adapters: See page 73
- Recommended PTO torque arm kit 3430-0540
- Rotor: Cast Iron, Ni-Resist or Silvercast

Pressure in PSI and BAR	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP
	@540 RPM		@800 RPM		@1000 RPM	
0 PSI	12	.33	18.3	.89	22.5	1.56
0 BAR	45.4	.33	69.3	.89	85.2	1.56
50 PSI	11.1	.74	17.5	1.26	22	1.78
3.4 BAR	42	.74	66.2	1.26	83.3	1.78
100 PSI	10.3	1.25	16.9	1.95	21.3	2.53
6.9 BAR	39	1.25	64	1.95	80.6	2.53
150 PSI	9.5	1.77	16.1	2.65	20.6	3.5
10.3 BAR	36	1.77	60.9	2.65	78	3.5
200 PSI	8.6	2.26	15.5	3.4	20	4.2
13.8 BAR	32.5	2.26	58.7	3.4	75.7	4.2
250 PSI	7.0	2.78	14.5	4.2	18.9	5.3
17.2 BAR	29.5	2.78	54.9	4.2	71.5	5.3
300 PSI	7.1	3.3	18.9	5.3	18.0	6.1
20.7 BAR	26.9	3.3	51.9	5.3	68.1	6.1

### Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
7560C	22.5	300	1200	15/16" solid shaft
7560N	22.5	300	1200	15/16" solid shaft
7560XL	22.5	300	1200	15/16" solid shaft

Teflon rollers - Add Suffix "T2" - (i.e.: 7560C-T2).  
 Polypropylene rollers - Add Suffix "T3" - (i.e.: 7560C-T3).  
 Reverse rotation\* - Add Suffix "R" - (i.e.: 7560C-R).

\* CCW (counterclockwise) and CW (clockwise) are determined when looking at the shaft end.

# Hydraulically-Driven Cast Iron, Ni-Resist or Silver Series XL<sup>®</sup>

## Series 7560-GM30 8-Roller



- Hydraulic motor drive (for open center, closed center and load-sensing systems)
- Max. fluid temperature: 140°F/60°C
- Pump port size: 3/4" NPT
- 1" hose barb inlet fitting for 1000 rpm operation
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Rollers: Super Rollers standard [Poly (T3) and Teflon (T2)]
- Shaft Seals: Viton standard
- Rotor: Cast Iron, Ni-Resist or Silvercast
- Motor port size: -10 SAE (7/8"- 14" UNF)

### Order Information

Model Number	Max GPM	Max PSI	Max RPM	Motor Capacity
7560C-GM30	NC	300	1000	6 gpm hydraulic flow max
7560N-GM30	20.8	300	1000	6 gpm hydraulic flow max
7560XL-GM30	20.8	300	1000	6 gpm hydraulic flow max
7560C-GM15	20.1	300	1000	12 gpm hydraulic flow max
7560N-GM15	20.1	300	1000	12 gpm hydraulic flow max
7560XL-GM15	20.1	300	1000	12 gpm hydraulic flow max



Teflon rollers - Add Suffix "T2" - (i.e.: 7560C-GM30-T2).  
 Polypropylene rollers - Add Suffix "T3" - (i.e.: 7560C-GM30-T3).

### 7560C,N,XL-GM15

U.S. Units

Hyd. GPM	GPM at									
	0 PSI	25 PSI	50 PSI	75 PSI	100 PSI	125 PSI	150 PSI	200 PSI	250 PSI	300 PSI
3	10.6	9.4	8.5	7.7	7.1	6.5	5.8	4.8	3.2	1.6
4	14.1	13.1	12.0	11.3	10.6	10.0	9.3	8.3	6.9	5.2
5	17.4	16.6	15.7	15.0	14.4	13.5	13.2	11.8	10.3	8.7
6	20.8	20.1	19.4	18.6	17.9	17.1	16.5	14.9	13.3	11.8

### 7560C,N,XL-GM15

Metric Units

Hyd. LPM	LPM at									
	0 Bar	1.7 Bar	3.5 Bar	5.2 Bar	6.9 Bar	8.6 Bar	10.3 Bar	13.8 Bar	17.2 Bar	20.7 Bar
11.4	40.1	35.6	32.2	29.1	26.9	24.6	22.0	18.2	12.1	6.1
15.1	53.4	49.6	45.4	42.8	40.1	37.9	35.2	31.4	26.1	19.7
18.9	65.9	62.8	59.4	56.8	54.5	51.1	50.0	44.7	39.0	32.9
22.7	78.7	76.1	73.4	70.4	67.8	64.7	62.5	56.4	50.3	44.7

### 7560C,N,XL-GM30

U.S. Units

Hyd. GPM	GPM at									
	0 PSI	25 PSI	50 PSI	77 PSI	100 PSI	125 PSI	150 PSI	200 PSI	250 PSI	300 PSI
5	9.0	8.5	7.8	7.3	6.7	6.1	5.5	4.4	3.3	2.2
6	10.5	10.0	9.5	8.9	8.4	7.8	7.3	6.2	5.2	4.1
7	11.9	11.5	11.0	10.4	9.9	9.4	8.9	7.8	6.8	5.7
8	13.7	13.1	12.5	12.0	11.5	10.9	10.4	9.4	8.4	7.3
9	15.2	14.6	14.1	13.6	13.1	12.6	12.1	11.1	10.0	9.1
10	16.9	16.5	15.9	15.4	14.9	14.3	13.9	12.9	11.9	11.0
11	18.6	18.2	17.6	17.1	16.6	16.1	15.6	14.7	13.8	12.9
12	20.1	19.6	19.1	18.6	18.1	17.6	17.1	16.3	15.3	14.5

### 7560C,N,XL-GM30

Metric Units

Hyd. LPM	LPM at										
	0 BAR	2 BAR	4 BAR	6 BAR	8 BAR	10 BAR	12 BAR	14 BAR	16 BAR	18 BAR	20 BAR
20	35.8	33.2	30.5	28.1	25.6	23.4	20.9	18.5	15.8	12.6	10.0
25	42.8	39.5	36.8	34.0	31.8	29.2	26.2	23.7	21.6	18.9	16.4
30	51.8	49.0	45.8	43.0	40.3	37.9	35.3	33.3	31.1	28.9	26.2
35	58.1	55.8	52.7	50.1	47.7	45.5	43.1	40.9	38.8	36.3	33.5
40	67.6	64.8	62.4	60.0	57.7	55.8	53.4	51.3	48.8	46.6	44.1
45	75.3	72.7	70.4	68.1	66.0	63.8	61.8	59.8	57.8	55.7	53.3

# Cast Iron, Ni-Resist or Silver Series XL<sup>®</sup>

## Series 7700 7-Roller



- Max. fluid temperature: 140°F/60°C
- Port size: ¾" NPT
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Weight: 14 lbs./6.36 kg
- Pump shaft rotation: CCW (CW available)\*
- Rollers: Super Rollers standard [Poly (T3) and Teflon (T2)]
- Shaft Seals: Viton standard
- Available PTO adapters: See page 73
- Recommended PTO torque arm kit 3430-0540
- Rotor: Cast Iron, Ni-Resist or Silvercast

Pressure in PSI and BAR	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP
	@540 RPM		@600 RPM		@800 RPM	
0 PSI	14.2	.23	15.3	.28	22.1	.37
0 BAR	53.7	.23	57.9	.28	83.6	.37
50 PSI	12.9	.56	14.0	.62	20.7	.86
3.4 BAR	48.8	.56	53	.62	78.3	.86
100 PSI	11.9	1.10	13.0	1.20	19.5	1.66
6.9 BAR	45	1.10	49.2	1.20	73.8	1.66
150 PSI	11.2	1.64	12.3	1.80	18.6	2.40
10.3 BAR	42.4	1.64	46.6	1.80	70.4	2.40
200 PSI	10.3	2.22	11.6	2.44	17.8	3.26
13.8 BAR	39	2.22	43.9	2.44	67.4	3.26

### Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
7700C	22.1	200	800	1 <sup>5</sup> / <sub>16</sub> " solid shaft
7700N	22.1	200	800	1 <sup>5</sup> / <sub>16</sub> " solid shaft
7700XL	22.1	200	800	1 <sup>5</sup> / <sub>16</sub> " solid shaft

Teflon rollers - Add Suffix "T2" - (i.e.: 7700C-T2).  
 Polypropylene rollers - Add Suffix "T3" - (i.e.: 7700C-T3).  
 Reverse rotation\* - Add Suffix "R" - (i.e.: 7700C-R).

# Cast Iron, Ni-Resist or Silver Series XL<sup>®</sup>

## Series 1700 5-Roller



- Max. fluid temperature: 140°F/60°C
- Port size: 1" NPT
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Pump shaft rotation: CCW (CW available)\*
- Weight: 19 lbs./8.6 kg
- Rollers: Super Rollers standard [Poly (T3) and Teflon (T2) available]
- Shaft Seals: Viton standard
- Available PTO adapters (forged steel recommended): See page 73
- Recommended PTO torque arm kit 3430-0540
- Rotor: Cast Iron, Ni-Resist or Silvercast

Pressure in PSI and BAR	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP
	@540 RPM		@600 RPM		@1000 RPM	
0 PSI	25.0	2.7	28.0	.34	45.0	1.42
0 BAR	94.6	2.7	106	.34	170	1.42
50 PSI	21.0	1.18	24.5	1.39	43.0	3.0
3.4 BAR	79.5	1.18	92.7	1.39	163	3.0
100 PSI	19.0	2.13	22.0	2.36	41.0	4.67
6.9 BAR	71.9	2.13	83.3	2.36	155	4.67
150 PSI	17.0	2.89	20.0	3.34	39.0	6.07
10.3 BAR	64.3	2.89	75.7	3.34	148	6.07
200 PSI	15.0	3.85	18.0	4.39	-----	-----
13.8 BAR	56.8	3.85	681	4.39	-----	-----

### Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
1700C	45	200	1000	1 <sup>5</sup> / <sub>16</sub> " solid shaft
1700N	45	200	1000	1 <sup>5</sup> / <sub>16</sub> " solid shaft
1700XL	45	200	1000	1 <sup>5</sup> / <sub>16</sub> " solid shaft

Teflon rollers - Add Suffix "T2" - (i.e.: 1700C-T2).  
 Polypropylene rollers - Add Suffix "T3" - (i.e.: 1700C-T3).  
 Reverse rotation\* - Add Suffix "R" - (i.e.: 1700C-R).

\* CCW (counterclockwise) and CW (clockwise) are determined when looking at the shaft end.



# Cast Iron, Ni-Resist or Silver Series XL<sup>®</sup>

## Series 1502 6-Roller



- Max. fluid temperature: 140°F/60°C
- Port size: 1 1/2" NPT
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Pump shaft rotation: CCW (CW available)\*
- Weight: 30 lbs./13.6 kg
- Rollers: Super rollers standard [Poly (T3) and Teflon (T2) available]
- Shaft Seals: Buna-N standard on Cast Iron and Ni-Resist [Viton (Q) available]; Viton standard on Silver Series XL<sup>®</sup>
- Available PTO adapters (forged steel recommended): See page 73
- Recommended PTO Torque Arm Kit 3430-0540
- Rotor: Cast Iron, Ni-Resist or Silvercast

Pressure in PSI and BAR	GPM		HP		GPM		HP	
	LPM		HP		LPM		HP	
	@540 RPM		@600 RPM		@1000 RPM			
0 PSI	33.1	.51	36.8	.66	62.1	2.02		
0 BAR	125	.51	139	.66	235	2.02		
25 PSI	29.7	1.02	33.6	1.15	58.5	3.04		
1.7 BAR	112	1.02	127	1.15	221	3.04		
50 PSI	27.8	1.45	31.7	1.68	56.9	3.69		
3.4 BAR	105	1.45	120	1.68	215	3.69		
100 PSI	24.3	2.46	28.3	2.78	53.9	5.31		
6.9 BAR	92	2.46	107	2.78	204	5.31		
150 PSI	21.0	3.54	25.0	3.95	50.9	7.12		
10.3 BAR	79.5	3.54	94.6	3.95	193	7.12		

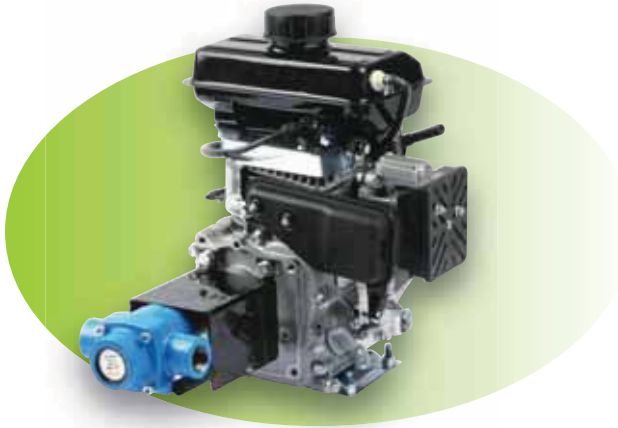
### Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
1502C	62	200	1000	1 5/16" solid shaft
1502N	62	200	1000	1 5/16" solid shaft
1502XL	62	200	1000	1 5/16" solid shaft

Teflon rollers - Add Suffix "T2" - (i.e.: 1502C-T2).  
 Polypropylene rollers - Add Suffix "T3" - (i.e.: 1502C-T3).  
 Reverse rotation\* - Add Suffix "R" - (i.e.: 1502C-R).

# Cast Iron or Silver Series XL<sup>®</sup>, Gas Engine Driven

## Models: 4101C-25, 4101XL-25



- 2.5 HP PowerPro™ Engine
- Port size: 3/4" NPT
- Housing: Cast Iron (C) or Silvercast (XL)
- Pump shaft rotation: CW
- Weight: 29 lbs./ 13.1 kg
- Rollers: Super rollers standard [Poly (T3) and Teflon (T2)]
- Shaft Seals: Viton standard
- Rotor: Cast Iron (C) or Silvercast (XL)

### Order Information

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

Pressure in PSI and BAR	GPM
	LPM
0 PSI	8.9
0 BAR	34
50 PSI	8.6
3.4 BAR	33
100 PSI	8.3
6.9 BAR	31
150 PSI	8.0
10.3 BAR	30

\* CCW (counterclockwise) and CW (clockwise) are determined when looking at the shaft end.

# Roller Pump Kits and Accessories

## Roller Pump Accessory Selection Guide

Description	Series 1500	Series 1700	Series 6500	Series 7560	Series 7700	Series 4000	Series 5200
540 rpm 1 $\frac{1}{8}$ " Die Cast PTO Adapter	1320-0033	1320-0033	1320-0022	1320-0033	1320-0033	-----	1320-0059
540 rpm 1 $\frac{1}{8}$ " Die Cast Quick Coupler	1321-0007	1321-0007	1321-0006	1321-0007	1321-0007	-----	-----
540 rpm 1 $\frac{1}{8}$ " Forged Steel PTO Adapter	1320-0076	1320-0076	1320-0077	1320-0076	1320-0076	-----	1320-0081
1000 rpm 1 $\frac{1}{8}$ " Die Cast PTO Adapter	1320-0038	1320-0038	1320-0053	1320-0038	-----	-----	-----
1000 rpm 1 $\frac{1}{8}$ " Die Cast Quick Coupler	1321-0009	1321-0009	1321-0008	1321-0009	-----	-----	-----
1000 rpm 1 $\frac{1}{8}$ " Forged Steel PTO Adapter	1320-0078	1320-0078	1320-0079	1320-0078	-----	1320-0079	-----
1000 rpm 1 $\frac{1}{8}$ " Forged Steel PTO Adapter	1320-0080	1320-0080	-----	1320-0080	-----	-----	-----
Multi-Speed 1 $\frac{1}{8}$ " Die Cast Quick Coupler	1321-0013	1321-0013	1321-0012	1321-0013	1321-0013	1321-0012	-----
540 rpm 1 $\frac{1}{8}$ " Forged Steel Quick Coupler	1323-0072	1323-0072	1323-0074	1323-0072	1323-0072	-----	-----
1000 rpm 1 $\frac{1}{8}$ " Forged Steel Quick Coupler	1323-0073	1323-0073	1323-0075	1323-0073	-----	-----	-----
Multi-Speed 1 $\frac{1}{8}$ " Forged Steel Quick Coupler	1323-0076	1323-0076	1323-0077	1323-0076	1323-0076	1323-0077	-----
Steel Shaft Adapter $\frac{3}{4}$ " x $\frac{5}{8}$ "	-----	-----	1320-0015	-----	-----	1320-0015	-----
Steel Shaft Adapter $\frac{5}{8}$ " x $\frac{5}{8}$ "	-----	-----	1320-0016	-----	-----	1320-0016	-----
Die Cast Coupler $\frac{3}{4}$ " x 1 $\frac{1}{16}$ "	1320-0054	1320-0054	-----	1320-0054	1320-0054	-----	-----
Repair Kits	3430-0387 3430-0386	3430-0437	3430-0380	3430-0381	3430-0384	3430-0390	-----
Torque Arm Kit	-----	3430-0540	3430-0540	3430-0540	3430-0540	-----	-----
Base Kits	3420-0004	3420-0010	3420-0023	3420-0003	3420-0010	3420-0024* 3420-0025**	-----
Locking Collar Kit	-----	-----	-----	-----	-----	-----	-----
Hydraulic Flange Kit	-----	-----	-----	3430-0636	-----	-----	-----

\* For electric motor drive 3 $\frac{1}{2}$ " shaft centerline (4001, 4101).

\*\* For gas engine drive 4 $\frac{3}{16}$ " shaft centerline (4101 only).

## Roller and Rotor Repair Kits

Kit Number	Pump Series	Description	Estimated Weight Ea.
3430-0387	1502C and 1502N	Roller kit includes: 6 Super Rollers, 1 o-ring gasket, and 2 Buna-N seals	1 lb. 7 oz.
3430-0386	1502XL	Roller kit includes: 6 Super Rollers, 1 o-ring gasket, and 2 Viton® seals	1 lb. 8 oz.
3430-0437	1700	Roller kit includes: 5 Super Rollers, 1 o-ring gasket, and 2 Viton® seals	1 lb. 5 oz.
3430-0380	6500	Roller kit includes: 6 Super Rollers, 1 o-ring gasket, and 2 Viton® seals	8 oz.
3430-0381	7560/7700	Roller kit includes: 8 Super Rollers, 1 o-ring gasket, and 2 Viton® seals	12 oz.
3430-0390	4001/4101	Roller kit includes: 4 Super Rollers, 1 o-ring gasket, and 2 Viton® seals	3 oz.

## Base Kits

Kit Number	Pump Series	Description	Estimated Weight Ea.
3420-0025	4101	Base kit for mounting to gas engine, 4 $\frac{3}{16}$ " shaft centerline. Base kit includes: 1 Base, 2 Bolts and 2 Lock washers	12 oz.
3420-0024	4001/4101	Base kit for mounting to an electric motor, 3 $\frac{1}{2}$ " shaft centerline. Base kit includes: 1 Base, 2 Bolts and 2 Lock washers	7 oz.
3420-0023	6500	Base kit includes: 1 Base, 2 Bolts and 2 Lock washers	12 oz.
3420-0003	7560	Base kit includes: 1 Base, 3 Bolts and 3 Lock washers	1 lb. 10 oz.
3420-0010	7700/1700	Base kit includes: 1 Base and 4 Bolts	14 oz.
3420-0004	1500	Base kit includes: 1 Base and 4 Bolts	6 lbs.

## Roller Pump Repair Tools and Tool Kits

Kit Number	Pump Series	Description
3011-0006	6500	Tool Kit
3011-0021	4001/4101	Tool Kit
3010-0001 <sup>†</sup>	1700, 6500, 7560, 7700	Support fixture
3010-0002 <sup>†</sup>	1700, 6500, 7560, 7700	Support fixture
3010-0003 <sup>†</sup>	4001/4101, 6500	Bearing and seal assembly tool
3010-0004 <sup>†</sup>	4001/4101, 6500	Bearing disassembly tool
3010-0005	1500, 1700, 7560, 7700	Bearing and seal assembly tool
3010-0006	1500, 1700, 7560, 7700	Bearing disassembly tool
3010-0010* <sup>†</sup>	4001/4101, 6500	Bearing support tool
3010-0014* <sup>†</sup>	4001/4101, 6500	Bearing race support tool
3010-0020	1500, 1700, 7560, 7700	Bearing support tool
3010-0066* <sup>†</sup>	1500, 1700, 4001/4101, 6500, 7560, 7700	Wire brush
3010-0067* <sup>†</sup>	1500, 1700, 4001/4101, 6500, 7560, 7700	Wire brush holder
3010-0068* <sup>†</sup>	1500, 1700, 4001/4101, 6500, 7560, 7700	Tool Box
3020-0009* <sup>†</sup>	1500, 1700, 4001/4101, 6500, 7560, 7700	Allen wrench; 1/16" hex

\* Included in 3011-0006 - Tool kit for 6500 series roller pumps.

<sup>†</sup> Included in 3011-0021 - Tool kit for 4001/4101 series roller pumps.

# Roller Pump Kits & Accessories

## PTO and Shaft Adapters (Female to Female)



Part Number	PTO (I.D.)	Pump End (I.D.)	Material	RPM	Pump Model
1320-0015	3/4"	5/8"	steel	*	4000, 6500
1320-0016	5/8"	5/8"	steel	*	4000, 6500
1320-0022	13/8" (6 spline)	5/8"	die cast	540	6500
1320-0033	13/8" (6 spline)	15/16"	die cast	540	1500, 1700, 7560, 7700
1320-0038	13/8" (21 spline)	15/16"	die cast	1000	1500, 1700, 7560
1320-0053	13/8" (21 spline)	5/8"	die cast	1000	4000, 6500
1320-0054	3/4"	15/16"	die cast	*	1500, 1700, 7560, 7700
1320-0059	13/8" (6 spline)	1"	die cast	540	5200
1320-0076	13/8" (6 spline)	15/16"	forged steel	540	1500, 1700, 7560, 7700
1320-0077	13/8" (6 spline)	5/8"	forged steel	540	6500
1320-0078	13/8" (21 spline)	15/16"	forged steel	1000	1500, 1700, 7560
1320-0079	13/8" (21 spline)	5/8"	forged steel	1000	4000, 6500
1320-0080	13/4" (20 spline)	15/16"	forged steel	1000	1500, 1700, 7560
1320-0081	13/8" (6 spline)	1"	forged steel	540	5200

\* Refer to recommended pump rpm.

## Quick Couplers (Female to Female)



Part Number	PTO (I.D.)	Pump End (I.D.)	Material	RPM	Pump Model
1321-0006	13/8" (6 spline)	5/8"	die cast	540	6500
1321-0007	13/8" (6 spline)	15/16"	die cast	540	1500, 1700, 7560, 7700
1321-0008	13/8" (21 spline)	5/8"	die cast	1000	4000, 6500
1321-0009	13/8" (21 spline)	15/16"	die cast	1000	1500, 1700, 7560
1321-0012	13/8" (multi-speed)	5/8"	die cast	540/1000	4000, 6500
1321-0013	13/8" (multi-speed)	15/16"	die cast	540/1000	1500, 1700, 7560, 7700
1323-0072	13/8" (6 spline)	15/16"	forged steel	540	1500, 1700, 7560, 7700
1323-0073	13/8" (21 spline)	15/16"	forged steel	1000	1500, 1700, 7560
1323-0074	13/8" (6 spline)	5/8"	forged steel	540	6500
1323-0075	13/8" (21 spline)	5/8"	forged steel	1000	4000, 6500
1323-0076	13/8" (multi-speed)	15/16"	forged steel	540/1000	1500, 1700, 7560, 7700
1323-0077	13/8" (multi-speed)	5/8"	forged steel	540/1000	4000, 6500

# Other Pump Accessories

## Ordering Instructions:

To order one 1/2" x 3/4" Series 2738 coupling, specify the following:

Note: It is not necessary to order in complete sets, parts can be ordered individually.

Quantity	Part Number	Description
1	2738-1001	1/2" coupling end
1	2738-1003	3/4" coupling end
1	2728-1001	Center disc



Series	Part Number	Description	Estimated Weight Each
2738 (2.0 hp limit)* Replaces L-075	2738-1001	1/2" coupling end, with 1/8" keyway	6 oz.
	2738-1002	5/8" coupling end, with 3/16" keyway	6 oz.
	2738-1003	3/4" coupling end, with 3/16" keyway	6 oz.
	2738-1004	7/8" coupling end, with 3/16" keyway	6 oz.
	2728-1001	Center disc	1 oz.
2739 (5.0 hp limit)* Replaces L-095	2739-1001	5/8" coupling end, with 3/16" keyway	11 oz.
	2739-1002	3/4" coupling end, with 3/16" keyway	11 oz.
	2739-1003	7/8" coupling end, with 3/16" keyway	11 oz.
	2739-1004	15/16" coupling end, with 1/4" keyway	11 oz.
	2739-1005	1" coupling end, with 1/4" keyway	11 oz.
	2739-1006	1 1/8" coupling end, with 1/4" keyway	11 oz.
	2739-1009	24 mm coupling end, with 8mm keyway	11 oz.
	2729-1001	Center disc	1 oz.
2741 (10.5 hp limit)* Replaces L-100	2741-1001	3/4" coupling end, with 3/16" keyway	1 lb. 5 oz.
	2741-1004	15/16" coupling end, with 1/4" keyway	1 lb. 5 oz.
	2741-1002	1" coupling end, with 1/4" keyway	1 lb. 5 oz.
	2741-1005	1 1/4" coupling end, with 1/4" keyway	1 lb. 5 oz.
	2741-1007	1 3/8" coupling end, with 5/16" keyway	1 lb. 5 oz.
	2741-1003	1 1/8" coupling end, with 1/4" keyway	1 lb. 5 oz.
	2729-1002	Center disc	1 oz.
	2729-1006	heavy-duty center disc, urethane material	1 oz.
2740 (18.0 hp limit)* Replaces L-110	2740-1001	3/4" coupling end, with 3/16" keyway	3 lbs. 11 oz.
	2740-1002	1" coupling end, with 1/4" keyway	3 lbs. 8 oz.
	2740-1005	1 3/8" coupling end, with 5/16" keyway	3 lbs.
	2740-1007	1 1/8" coupling end, with 1/4" keyway	2 lbs. 15 oz.
	2729-1003	Center disc	3 oz.

\* HP limit is electric motor hp at 1725 rpm for driving a steady uniform load. For an uneven load, stop-start and moderate shock loads, divide hp by a 1.5 service factor.

## Relief Valves



Part Number	Ports-NPT Inlet (M) Outlet (F)	Max. PSI	Body Material	Valve Material	Estimated Weight Each
3300-0002	1/2" M x 1/2" F	200	cast bronze	stainless steel ball	10 oz.
3300-0001	3/4" M x 3/4" F	400	cast bronze	stainless steel ball	1 lb. 1 oz.
3301-0001	3/4" M x 3/4" F	400	cast bronze	flat neoprene	1 lb. 2 oz.
3300-0093	3/4" M x 3/4" F	300	cast bronze	stainless steel ball	1 lb. 2 oz.
3300-0094	1" M x 3/4" F	150	cast bronze	stainless steel ball	1 lb. 4 oz.
3316-0002	1 1/4"	200	cast iron	stainless steel cone	2 lbs. 14 oz.
3300-0015	3/4" M - 3/4" F	150	nylon	nylon	6 oz.
3300-0016	3/4" M - 3/4" F	250	nylon	nylon	6 oz.
3300-0098	3/4" M - 3/4" F	400	nylon	nylon	6 oz.

## Torque Arm Kit (pump not included)



Part Number	Material	RPM	For Pump Series	Estimated Weight Ea.
3430-0540	steel	540/1000	1502, 1700, 6500, 7560, and 7700	2 lbs. 4 oz.