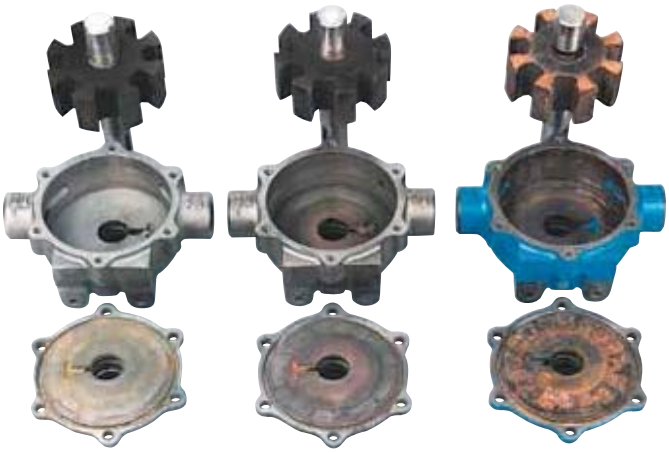
Roller Pump Comparisons

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



Silver Series XL **Ni-Resist** **Cast Iron**

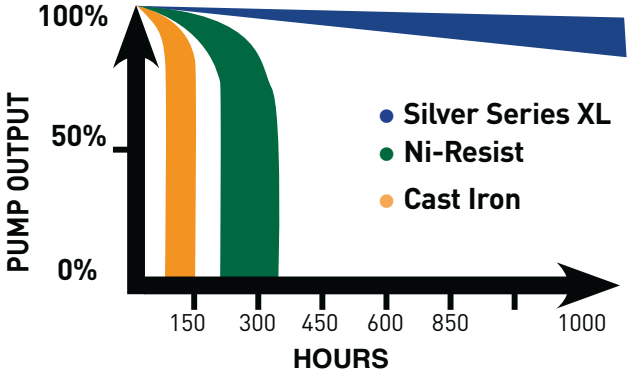
These three pump housings were photographed after being tested with a 30:1 mix of water and Roundup® herbicide.

The Ni-Resist and Cast Iron indicate damage from pitting and corrosion, but the Silver Series XL is in like-new condition after more than 1000 hours of use.

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 X pumps ran over 1000 hours and still met new pump specs!



Floating Design, PTFE Coating

Ni-Resist 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

Clear Coat Finish

- Offers increased protection from chemical attack and from the elements
- Included on all Ni-Resist roller pumpse

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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 Pentair's Technical/Applications Department at (800) 445-8360.

Application	Specific Chemicals	Suggestions							
		Housing Materials			Roller Materials			Seal Materials	
		Silver Series XL	Ni-Resist	Cast Iron	Super Roller	Poly Rollers	Teflon® Rollers*	Viton®	Buna-N
WEED CONTROL CHEMICALS	Emulsions, soluble powders, sodium arsenate.	X	X	X	X			X	
	Chemicals containing glyphosate (such as Roundup®) or other acidics	X			X	X	X*	X	
INSECT CONTROL	Emulsions not containing aromatic solvents.	X	X	X	X			X	
BRUSH CONTROL	Heavy-duty sprays using diesel oil for carrier.	X	X	X	X			X	
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 with aromatic solvents are present: Pentachlorophenol, xylene, xylol, benzene, high sulphur fuel or diesel oil. Fumigants containing: ethylene dichloride, ethylene dibromide, carbon tetrachloride, perchlorethylene, trighlorethylene, methyl bromide, and other aromatic solvents.	X	X	X	X			X	
LIQUID FERTILIZERS	Up to 32% nitrogen content, or others if the liquid is atmospheric pressure and the temperature is handled.	X	X			X			X
POWDERED FERTILIZERS	Fertilizers dissolved in water (greenhouse plant food).	X	X	X	X	X		X	X
PUMPING	Large quantities of plain water.	X	X	X	X	X		X	X
SPRAYING	Wettable powder sprays.	X	X	X	X	X		X	X
MATERIAL HANDLING	Heavy abrasive powders in suspension.	X	X	X	X	X		X	X
ACIDS	Mild sulfuric acid for spraying. Mild muriatic acid, inhibited muriatic, etc.	X				X	X*	X	

*Note: Limit Pressure at 100 psi (6.9 bar) when using Teflon® Rollers.

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Viton® is a registered trademark of DuPont.

Cast Iron, Ni-Resist or Silver Series XL

Series 4001 4 Roller

Pressure in PSI and BAR	GPM LPM	HP HP	GPM LPM	HP HP	GPM LPM	HP 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

- 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: Clockwise when looking at the shaft end (counter clockwise available)
- Rollers: Super Rollers standard [Poly (T3) and Teflon® (T2)]
- Shaft Seals: Viton® standard
- Available shaft adapters: See page 72
- Special torque arm and base kit is available for gas engines
- Rotor: Cast Iron, Ni-Resist or Silvercast
- Weight: 5 lbs./2.3 kg

Order Information

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output		
						U.S	Metric	Shaft
4001C	9.1	34.4	150	10.3	1800	5/8"	15.9 mm	solid
4001C-H	9.1	34.4	150	10.3	1800	1/2"	12.7 mm	hollow
4001	9.1	34.4	150	10.3	1800	5/8"	15.9 mm	solid
4001N-H	9.1	34.4	150	10.3	1800	1/2"	12.7 mm	hollow
4001XL	9.1	34.4	150	10.3	1800	5/8"	15.9 mm	solid
4001XL-H	9.1	34.4	150	10.3	1800	1/2"	12.7 mm	hollow

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

Series 4101 4 Roller

Pressure in PSI and BAR	GPM LPM	HP HP	GPM LPM	HP HP	GPM LPM	HP 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

- 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: Clockwise when looking at the shaft end (counter clockwise available)
- Rollers: Super Rollers standard [Poly (T3) and Teflon® (T2)]
- Shaft Seals: Viton® standard
- Available shaft adapters: See page 72
- Special torque arm and base kit is available for gas engines
- Rotor: Cast Iron, Ni-Resist or Silvercast
- Weight: 5 lbs./2.27 kg

Order Information

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output		
						U.S	Metric	Shaft
4101C	7.2	27.3	150	10.3	2600	5/8"	15.9 mm	solid
4101C-H	7.2	27.3	150	10.3	2600	1/2"	12.7 mm	hollow
4101N	7.2	27.3	150	10.3	2600	5/8"	15.9 mm	solid
4101N-H	7.2	27.3	150	10.3	2600	1/2"	12.7 mm	hollow
4101XL	7.2	27.3	150	10.3	2600	5/8"	15.9 mm	solid
4101XL-H	7.2	27.3	150	10.3	2600	1/2"	12.7 mm	hollow

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).

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Ni-Resist or Silver Series XL

Series 4001 and 4101 12 volt DC 4 Roller

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

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

Order Information

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output		
						U.S	Metric	Shaft
4001N-EH	10.4	39.4	30	2.1	1900	1/2"	12.7 mm	hollow
4001N-E2H	9.9	37.5	50	3.4	1600	1/2"	12.7 mm	hollow
4001XL-EH	10.4	39.4	30	2.1	1900	1/2"	12.7 mm	hollow
4001XL-E2H	9.9	37.5	50	3.4	1600	1/2"	12.7 mm	hollow
4101N-EH	7.5	28.4	50	3.4	1900	1/2"	12.7 mm	hollow
4101N-E2H	5.9	22.3	90	6.2	1600	1/2"	12.7 mm	hollow
4101XL-EH	7.5	28.4	50	3.4	1900	1/2"	12.7 mm	hollow
4101XL-E2H	5.9	22.3	90	6.2	1600	1/2"	12.7 mm	hollow

Teflon® rollers - Add Suffix "T2" - (i.e.: 4001N-EHT2).
Polypropylene rollers - Add Suffix "T3" - (i.e.: 4001N-EHT3).

U.S. Units

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
		50	25.7	4.2	100	34.2	2.60
	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 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

Metric Units

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

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
	0	13.4	39.4	.7	14.4	37.5
13.5 (Alternator) Engine Running	.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

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Cast Iron, Ni-Resist or Silver Series XL

Series 6500 6-Roller

Pressure in PSI and BAR	GPM LPM	HP HP	GPM LPM	HP HP	GPM LPM	HP 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

- Port size: 3/4" 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)
- Shaft rotation: Counter clockwise when lookng at the shaft end (clockwise available)
- Rollers: Super Rollers standard [Poly (T3) and Teflon® (T2)]
- Shaft Seals: Viton® standard
- Available PTO adapters: See Page 72
- Recommended PTO torque arm kit 3430-0540
- Rotor: Cast Iron, Ni-Resist or Silvercast
- Weight: 9 lbs./4.1 kg

Order Information

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output		
						U.S	Metric	Shaft
6500C	21.8	82.5	300	20.7	1200	5/8"	15.9 mm	solid
6500N	21.8	82.5	300	20.7	1200	5/8"	15.9 mm	solid
6500XL	21.8	82.5	300	20.7	1200	5/8"	15.9 mm	solid

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

Pressure in PSI and BAR	GPM LPM	HP HP	GPM LPM	HP HP	GPM LPM	HP 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

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- Max. fluid temperature: 140°F/60°C
- Port sizes: 3/4" NPT
- 1" hose barb inlet fitting for 1000 rpm operation
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Shaft rotation: Counter clockwise when looking at the shaft end (clockwise available)
- Rollers: Super Rollers standard [Poly (T3) and Teflon® (T2)]
- Shaft Seals: Viton® standard
- Available PTO adapters: See Page 72
- Recommended PTO torque arm kit 3430-0540
- Rotor: Cast Iron, Ni-Resist or Silvercast
- Weight: 13 lbs./5.89 kg

Order Information

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output		
						U.S	Metric	Shaft
7560C	22.5	85.2	300	26.7	1000	15/16"	23.8 mm	solid
7560N	22.5	85.2	300	26.7	1000	15/16"	23.8 mm	solid
7560XL	22.5	85.2	300	26.7	1000	15/16"	23.8 mm	solid

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).

Hydraulically-Driven Cast Iron, Ni-Resist or Silver Series

Series 7560-GM30, 7560-GM15 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 LPM	Max PSI	Max BAR	Max RPM	Motor Capacity Hydraulic Flow Max	
						US	Metric
7560C-GM30	20.8	78.7	300	20.7	1000	12 gpm	45 lpm
7560N-GM30	20.8	78.7	300	20.7	1000	12 gpm	45 lpm
7560XL-GM30	20.8	78.7	300	20.7	1000	12 gpm	45 lpm
7560C-GM15	20.1	76.1	300	20.7	1000	6 gpm	23 lpm
7560N-GM15	20.1	76.1	300	20.7	1000	6 gpm	23 lpm
7560XL-GM15	20.1	76.1	300	20.7	1000	6 gpm	23 lpm

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

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Cast Iron, Ni-Resist or Silver Series XL

Series 7700 7-Roller

- Max. fluid temperature: 140°F/60°C
- Port size: 3/4" NPT
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Shaft rotation: Counter clockwise when looking at the shaft end (Clockwise available)
- Rollers: Super Rollers standard [Poly (T3) and Teflon® (T2)]
- Shaft Seals: Viton® standard
- Available PTO adapters: See Page 72
- Recommended PTO torque arm kit 3430-0540
- Rotor: Cast Iron, Ni-Resist or Silvercast
- Weight: 14 lbs./6.36 kg

Pressure in PSI and BAR	GPM LPM	HP HP	GPM LPM	HP HP	GPM LPM	HP 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 LPM	Max PSI	Max BAR	Max RPM	Shaft Output		
						U.S	Metric	Shaft
7700C	22.1	83.7	200	13.8	800	15/16"	23.8 mm	solid
7700N	22.1	83.7	200	13.8	800	15/16"	23.8 mm	solid
7700XL	22.1	83.7	200	13.8	800	15/16"	23.8 mm	solid

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

Series 1700 5-Roller

- Max. fluid temperature: 140°F/60°C
- Port size: 1" NPT (BSP available on 1700C)
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Shaft rotation: Counter clockwise when looking at the shaft end (Clockwise available)
- Rollers: Super Rollers standard [Poly (T3) and Teflon® (T2) available]
- Shaft Seals: Viton® standard
- Available PTO adapters (forged steel recommended): See Page 72
- Recommended PTO torque arm kit 3430-0540
- Rotor: Cast Iron, Ni-Resist or Silvercast
- Weight: 19 lbs./8.6 kg

Pressure in PSI and BAR	GPM LPM	HP HP	GPM LPM	HP HP	GPM LPM	HP 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	----	----

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Order Information

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output		
						U.S	Metric	Shaft
1700C*	45	170	200	13.8	1000	15/16"	23.8 mm	solid
1700N	45	170	200	13.8	1000	15/16"	23.8 mm	solid
1700XL	45	170	200	13.8	1000	15/16"	23.8 mm	solid

* BSP Version - 1700C-BT
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).

Cast Iron, Ni-Resist or Silver Series XL

Series 1502 6-Roller

- Max. fluid temperature: 140°F/60°C
- Port size: 1-1/2" NPT (BSP available on 1502C)
- Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- Shaft rotation: Counter clockwise when looking at the shaft end (Clockwise available)
- Rollers: Super rollers standard [Poly (T3) available]
- Shaft Seals: Buna-N standard on Cast Iron and Ni-Resist [Viton (Q) available]; Viton® standard on Silver Series XL
- Available PTO adapters (forged steel recommended): See Page 72
- Recommended PTO Torque Arm Kit 3430-0540
- Rotor: Cast Iron, Ni-Resist or Silvercast
- Weight: 30 lbs./13.6 kg

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	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 LPM	Max PSI	Max BAR	Max RPM	Shaft Output		
						U.S	Metric	Shaft
1502C*	62	235	200	13.8	1000	15/16"	23.8 mm	solid
1502N	62	235	200	13.8	1000	15/16"	23.8 mm	solid
1502XL	62	235	200	13.8	1000	15/16"	23.8 mm	solid

*BSP Version - 1502C-BT
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, Gas Engine Driven

Models: 4101C-25, 4101XL-25

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

Pressure in PSI and BAR	GPM
BAR	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

Order Information

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Engine Mfgr. & HP
4101C-25	8.9	34.7	100	6.9	PowerPro 2.5 hp
4101XL-25	8.9	34.7	150	10.3	PowerPro 2.5 hp

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Roller Pump Kits & Accessories

Roller Pump Accessory Selection Guide

Description	Series 1500	Series 1700	Series 6500	Series 7560	Series 7700	Series 4000	Series 5200
540 rpm 1-3/8" Forged Steel PTO Adapter	1320-0076	1320-0076	1320-0077	1320-0076	1320-0076	-------	1320-0081
1000 rpm 1-3/8" Forged Steel PTO Adapter	1320-0078	1320-0078	1320-0079	1320-0078	-------	1320-0079	-------
1000 rpm 1-3/4" Forged Steel PTO Adapter	1320-0080	1320-0080	-------	1320-0080	-------	-------	-------
540 rpm 1-3/8" Forged Steel Quick Coupler	1323-0072	1323-0072	1323-0074	1323-0072	1323-0072	-------	-------
1000 rpm 1-3/8" Forged Steel Quick Coupler	1323-0073	1323-0073	1323-0075	1323-0073	-------	-------	-------
Multi-Speed 1-3/8" Forged Steel Quick Coupler	1323-0076	1323-0076	1323-0077	1323-0076	1323-0076	1323-0077	-------
Steel Shaft Adapter 3/4" x 5/8	-------	-------	1320-0015	-------	-------	1320-0015	-------
Steel Shaft Adapter 5/8" x 5/8	-------	-------	1320-0016	-------	-------	1320-0016	-------
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**	-------
Hydraulic Flange Kit	-------	-------	-------	3430-0636	-------	-------	-------

* For electric motor drive 3 1/2" shaft centerline (4001, 4101).
** For gas engine drive 43/16" shaft centerline (4101 only).

Roller Repair Kits

Kit Number	Pump Series	Description	Estimated Weight Ea.	
			US Units	Metric Units
3430-0387	1502C and 1502N	Roller kit includes: 6 Super Rollers, 1 o-ring gasket, and 2 Buna-N seals	1 lb. 7 oz.	652 g
3430-0386	1502XL	Roller kit includes: 6 Super Rollers, 1 o-ring gasket, and 2 Viton® seals	1 lb. 8 oz.	680 g
3430-0437	1700	Roller kit includes: 5 Super Rollers, 1 o-ring gasket, and 2 Viton® seals	1 lb. 5 oz.	595 g
3430-0380	6500	Roller kit includes: 6 Super Rollers, 1 o-ring gasket, and 2 Viton® seals	8 oz.	227 g
3430-0381	7560/7700	Roller kit includes: 8 Super Rollers, 1 o-ring gasket, and 2 Viton® seals	12 oz.	340 g
3430-0390	4001/4101	Roller kit includes: 4 Super Rollers, 1 o-ring gasket, and 2 Viton® seals	3 oz.	85 g

Base Kits

Kit Number	Pump Series	Description	Estimated Weight Ea.	
			US Units	Metric Units
3420-0025	4101	Base kit for mounting to gas engine, 4-3/16" shaft centerline. Base kit includes: 1 Base, 2 Bolts and 2 Lock washers	12 oz.	340 g
3420-0024	4001/4101	Base kit for mounting to an electric motor, 3-1/2" shaft centerline. Base kit includes: 1 Base, 2 Bolts and 2 Lock washers	7 oz.	198 g
3420-0023	6500	Base kit includes: 1 Base, 2 Bolts and 2 Lock washers	12 oz.	340 g
3420-0003	7560	Base kit includes: 1 Base, 3 Bolts and 3 Lock washers	1 lb. 10 oz.	737 g
3420-0010	7700/1700	Base kit includes: 1 Base and 4 Bolts	14 oz.	397 g
3420-0004	1500	Base kit includes: 1 Base and 4 Bolts	6 lbs.	2.7 kg

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†	1700, 6500, 7560, 7700	Support fixture
3010-0002†	1700, 6500, 7560, 7700	Support fixture
3010-0003†	4001/4101, 6500	Bearing and seal assembly tool
3010-0004†	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*†	4001/4101, 6500	Bearing support tool
3010-0014*†	4001/4101, 6500	Bearing race support tool
3010-0020	1500, 1700, 7560, 7700	Bearing support tool
3010-0066*†	1500, 1700, 4001/4101, 6500, 7560, 7700	Wire brush
3010-0067*†	1500, 1700, 4001/4101, 6500, 7560, 7700	Wire brush holder
3010-0068*†	1500, 1700, 4001/4101, 6500, 7560, 7700	Tool Box
3020-0009*†	1500, 1700, 4001/4101, 6500, 7560, 7700	Allen wrench; 1/16" hex

* Included in 3011-0006 - Tool kit for 6500 series roller pumps.
† 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	US PTO (I.D.)	Metric PTO (I.D.)	US Pump End (I.D.)	Metric Pump End (I.D.)	Material	RPM	Pump Model
1320-0015	3/4"	19 mm	5/8"	19 mm	steel	*	4000, 6500
1320-0016	5/8"	15.9 mm	5/8"	15.9 mm	steel	*	4000, 6500
1320-0054	3/4"	19 mm	15/16"	23.8 mm	die cast	*	1500, 1700, 7560, 7700
1320-0076	1-3/8" (6 spline)	34.9 mm (6 spline)	15/16"	23.8 mm	forged steel	540	1500, 1700, 7560, 7700
1320-0077	1-3/8" (6 spline)	34.9 mm (6 spline)	5/8	34.9 mm	forged steel	540	6500
1320-0078	1-3/8" (21 spline)	34.9 mm (21 spline)	15/16"	23.8 mm	forged steel	1000	1500, 1700, 7560
1320-0079	1-3/8" (21 spline)	34.9 mm (21 spline)	5/8"	34.9 mm	forged steel	1000	4000, 6500
1320-0080	1-3/4" (20 spline)	44.5 mm (20 spline)	15/16"	23.8 mm	forged steel	1000	1500, 1700, 7560
1320-0081	1-3/8" (6 spline)	34.9 mm (6 spline)	1"	34.9 mm	forged steel	540	5200
1320-0082	1-1/2" (8 spline)	38 mm (8 spline)	15/16"	23.8 mm	forged steel	1000	1500, 1700, 7560
1320-0083	1-1/2" (8 spline)	38 mm (8 spline)	5/8"	34.9 mm	forged steel	1000	4000, 6500

* Refer to recommended pump rpm.

Quick Couplers (Female to Female)

Part Number	PTO (I.D.) US	PTO (I.D.) Metric	Pump End (I.D.) US	Pump End (I.D.) Metric	Material	RPM	Pump Model
1323-0072	1-3/8" (6 spline)	34.9 mm (6 spline)	15/16	23.8 mm	forged steel	540	1500,1700, 7560, 7700
1323-0073	1-3/8" (21 spline)	34.9 mm (21 spline)	15/16"	23.8 mm	forged steel	1000	1500, 1700, 7560
1323-0074	1-3/8" (6 spline)	34.9 mm (6 spline)	5/8"	15.9 mm	forged steel	540	6500
1323-0075	1-3/8" (21 spline)	34.9 mm (21 spline)	5/8"	15.9 mm	forged steel	1000	4000, 6500
1323-0076*	1-3/8" (multi-speed)	34.9 mm (multi-speed)	15/16"	23.8 mm	forged steel	540/1000	1500, 1700, 7560, 7700
1323-0077*	1-3/8" (multi-speed)	34.9 mm (multi-speed)	5/8"	15.9 mm	forged steel	540/1000	4000, 6500
1323-0078	1-1/2" (8 spline)	38 mm (8 spline)	5/8"	15.9 mm	forged steel	1000	4000, 6500
1323-0079	1-1/2" (8 spline)	38 mm (8 spline)	15/16"	23.8 mm	forged steel	1000	1500, 1700, 7560

* Multi-speed couplers are compatable with both 6 and 21 spline PTO shafts.

Torque Arm Kit (pump not included)

Part Number	Material	RPM	For Pump Series	Estimated Weight Each US Units	Estimated Weight Each Metric
3430-0540	steel	540/1000	1502, 1700, 6500, 7560, and 7700	2 lbs. 4 oz.	1.02 kg

Other Pump Accessories

Couplers

Series	Part Number	Description	Estimated Weight Each	
			US Units	Metric
2738 (2.0 hp limit)*	2738-1001	1/2" coupling end, with 1/8" keyway	6 oz.	170 g
	2738-1002	5/8" coupling end, with 3/16" keyway	6 oz.	170 g
	2738-1003	3/4" coupling end, with 3/16" keyway	6 oz.	170 g
	2738-1004	7/8" coupling end, with 3/16" keyway	6 oz.	170 g
Replaces L-075	2728-1001	Center disc	1 oz.	28 g
2739 (5.0 hp limit)*	2739-1001	5/8" coupling end, with 3/16" keyway	11 oz.	312 g
	2739-1002	3/4" coupling end, with 3/16" keyway	11 oz.	312 g
	2739-1003	7/8" coupling end, with 3/16" keyway	11 oz.	312 g
	2739-1004	15/16" coupling end, with 1/4" keyway	11 oz.	312 g
	2739-1005	1" coupling end, with 1/4" keyway	11 oz.	312 g
	2739-1006	1-1/8" coupling end, with 1/4" keyway	11 oz.	312 g
	2739-1009	24 mm coupling end, with 8mm keyway	11 oz.	312 g
	2729-1001	Center disc	1 oz.	28 g
Replaces L-095	2729-1005	Heavy-duty center disc, urethane material	1 oz.	28 g
2741 (10.5 hp limit)*	2741-1001	3/4" coupling end, with 3/16" keyway	1 lb. 5 oz.	595 g
	2741-1004	15/16" coupling end, with 1/4" keyway	1 lb. 5 oz.	595 g
	2741-1002	1" coupling end, with 1/4" keyway	1 lb. 5 oz.	595 g
	2741-1005	1-1/4" coupling end, with 1/4" keyway	1 lb. 5 oz.	595 g
	2741-1007	1-3/8" coupling end, with 5/16" keyway	1 lb. 5 oz.	595 g
	2741-1003	1-1/8" coupling end, with 1/4" keyway	1 lb. 5 oz.	595 g
	2729-1002	Center disc	1 oz.	28 g
Replaces L-100	2729-1006	heavy-duty center disc, urethane material	1 oz.	28g
2740 (18.0 hp limit)*	2740-1001	3/4" coupling end, with 3/16" keyway	3 lbs. 11 oz.	1.67 kg
	2740-1002	1" coupling end, with 1/4" keyway	3 lbs. 8 oz.	1.59 kg
	2740-1005	1-3/8" coupling end, with 5/16" keyway	3 lbs.	1.4 kg
	2740-1007	1-1/8" coupling end, with 1/4" keyway	2 lbs. 15 oz.	1.33 kg
Replaces L-110	2729-1003	Center disc	3 oz.	85 g

* 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.

Inches	mm
1/8"	3.2 mm
3/16"	4.7 mm
1/4"	6.4 mm
1/2"	13 mm
5/8"	15.9 mm
3/4"	19 mm
7/8"	22.2 mm
15/16"	23.8 mm
1"	25.4 mm
1-1/8"	28.6 mm

Note:
These couplers are designed for inch dimensional shafts and keys. Metric dimensions are for reference only (except for 2739-1009).

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

Relief Valves

Part Number	Ports-NPT Inlet (M) Oultet (F)	Max. PSI	Max. BAR	Body Material	Valve Material	Estimated Weight Each	
						US Units	Metric
3300-0002	1/2" M x 1/2" F	200	14	cast bronze	stainless steel ball	10 oz.	283 g
3300-0001	3/4" M x 3/4" F	400	28	cast bronze	stainless steel ball	1 lb. 1 oz.	482 g
3301-0001	3/4" M x 3/4" F	400	28	cast bronze	flat neoprene	1 lb. 2 oz.	510 g
3300-0093	3/4" M x 3/4" F	300	20	cast bronze	stainless steel ball	1 lb. 2 oz.	510 g
3300-0094	1" M x 3/4" F	150	10	cast bronze	stainless steel ball	1 lb. 4 oz.	567 g
3316-0002	1-1/4"	200	14	cast iron	stainless steel cone	2 lbs. 14 oz.	1.3 kg
3300-0015	3/4" M - 3/4" F	150	10	nylon	nylon	6 oz.	170 g
3300-0016	3/4" M - 3/4" F	250	17	nylon	nylon	6 oz.	170 g
3300-0098	3/4" M - 3/4" F	400	28	nylon	nylon	6 oz.	170 g