

Piston Pumps

Hypro's Twin® piston pumps are used in a variety of spraying, pressure cleaning and hydrostatic testing applications. These heavy-duty pumps are ideal for fluid handling of water and non-abrasive or general use chemicals. All pumps are constructed from cast iron materials. They feature stainless steel valves and ball bearing, leather or fabric-reinforced Buna-N or straight Buna-N cups.

You can choose from a variety of drive systems to include: belt and pulley, 540 rpm PTO, gasoline engine or electric motor. These pumps are available in a variety of flow and pressure ranges up to a maximum of 10 gpm/37.9 lpm and 1000 psi/68.9 bar with maximum fluid temperatures of 140°F/60°C (piston pumps) and 180°F/82°C (plunger pumps).

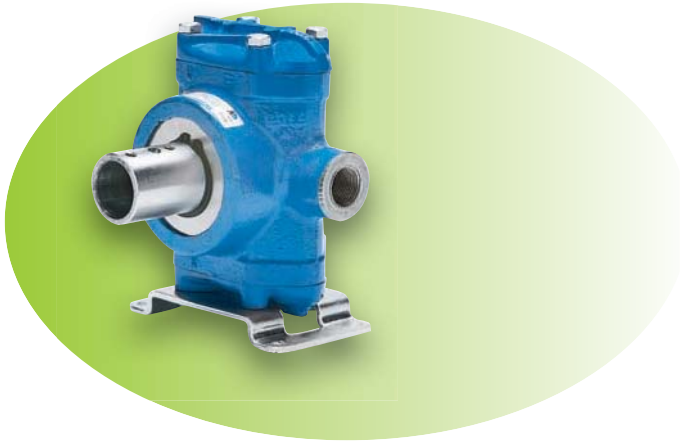
All of the Hypro piston pumps share these quality features:

- Non-abrasive and general use chemical compatibility
- Compact, lightweight and easy to install
- Replaceable leather cups for insecticides, herbicides and aromatic solvents
- Replaceable Buna-N and fabric-reinforced Buna-N cups for water, soap and detergent solutions
- Bi-rotational
- Self-priming operation



Big Twin®

Models 5206C and 5206C-H



- Port sizes: 3/4" inlet, 3/4" outlet
- Max. fluid temperature: 140°F/60°C
- Weight: 18 lbs./8.2 kg
- Pump shaft rotation: bi-rotational
- Cups: Leather standard [fabric-reinforced (F) and Buna-N (R) available]
- Recommended to be used with Pulsation Dampener 3375-0017-2

Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
5206C	8	400	800	1" solid shaft w/base
5206C-H	8	400	800	1-3/8" hollow shaft w/base
3430-0037	Leather cup kit			

Fabric Cups - Add Suffix "F" - (ie.: 5206C-F).
Buna-N Cups - Add Suffix "R" - (ie.: 5206C-R).

Pressure in PSI and BAR	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
	@400 RPM		@500 RPM		@540 RPM		@600 RPM		@700 RPM		@800 RPM	
25 PSI	3.9	.26	4.9	.29	5.4	.31	6.0	.34	7.0	.40	8.0	.46
1.7 BAR	14.8	.26	18.5	.29	20.4	.31	22.7	.34	26.5	.40	30.3	.46
100 PSI	3.9	.40	5.0	.46	5.4	.50	6.0	.56	7.0	.65	7.9	.74
6.9 BAR	14.8	.40	18.9	.46	20.4	.50	22.7	.56	26.5	.65	29.9	.74
200 PSI	4.0	.66	5.0	.75	5.4	.81	6.0	.90	6.9	1.1	7.8	1.2
13.8 BAR	15.1	.66	18.9	.75	20.4	.81	22.7	.90	26.1	1.1	29.5	1.2
300 PSI	3.9	.89	5.0	1.1	5.3	1.2	5.9	1.3	6.9	1.5	7.7	1.7
20.9 BAR	14.8	.89	18.9	1.1	20.1	1.2	22.3	1.3	26.1	1.5	29.1	1.7
400 PSI	3.9	1.1	4.9	1.4	5.3	1.5	5.9	1.6	6.9	1.9	7.7	2.2
27.6 BAR	14.8	1.1	18.5	1.4	20.1	1.5	22.3	1.6	26.1	1.9	29.1	2.2

Big Twin®

Models 5210C and 5210C-H



- Port sizes: 3/4" inlet, 3/4" outlet
- Max. fluid temperature: 140°F/60°C
- Weight: 18 lbs./8.2 kg
- Pump shaft rotation: bi-rotational
- Cups: Leather standard [fabric-reinforced (F) and Buna-N (R) available]
- Recommended to be used with Pulsation Dampener 3375-0015-2

Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
5210C	10	400	600	1" solid shaft w/base
5210C-H	10	400	600	1-3/8" hollow shaft w/base
3430-0037	Leather cup kit			

Fabric Cups - Add Suffix "F" - (ie.: 5210C-F).
Buna-N Cups - Add Suffix "R" - (ie.: 5210C-R).

Pressure in PSI and BAR	GPM	HP	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP	LPM	HP
	@400 RPM		@500 RPM		@540 RPM		@600 RPM	
25 PSI	7.3	.39	8.9	.57	9.4	.66	10.0	.73
1.7 BAR	27.6	.39	33.7	.57	35.6	.66	37.9	.73
100 PSI	7.3	.69	8.9	.87	9.4	.94	9.9	1.10
6.9 BAR	27.6	.69	33.7	.87	35.6	.94	37.5	1.10
200 PSI	7.2	1.2	8.8	1.5	9.3	1.6	9.9	1.7
13.8 BAR	27.2	1.2	33.3	1.5	35.2	1.6	37.5	1.7
300 PSI	7.2	1.7	8.8	2.0	9.3	2.2	9.8	2.3
20.7 BAR	27.2	1.7	33.3	2.0	35.2	2.2	37.1	2.3
400 PSI	7.2	2.1	8.7	2.6	9.2	2.7	9.8	3.0
27.6 BAR	27.2	2.1	32.9	2.6	34.8	2.7	37.1	3.0

Small Twin®

Series 5315, 5320, 5325 and 5330



- Port sizes: 1/2" inlet, 1/2" outlet
- Max. fluid temperature: 140°F/60°C
- Weight: 10 lbs./4.5 kg
- Pump shaft rotation: bi-rotational
- Cups: Leather (-X) standard for 5300 Series [Buna-N (-RX), Teflon (-CX) available]
- Injector head available (-D)
- Models require a pulsation dampener (such as a 3375-0012 pulse hose) on the discharge side

Model Pressure in PSI and BAR	5315		5320		5325		5330	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP	LPM	HP
	@1725 RPM		@1725 RPM		@1725 RPM		@1725 RPM	
50 PSI	1.56	.12	2.22	.21	2.56	.25	3.02	.37
3.4 BAR	5.9	.12	8.4	.21	9.7	.25	11.4	.37
100 PSI	1.52	.15	2.18	.28	2.54	.37	3.01	.49
6.9 BAR	5.8	.15	8.3	.28	9.6	.37	11.4	.49
200 PSI	1.50	.28	2.16	.43	2.52	.52	3.00	.74
13.8 BAR	5.7	.28	8.2	.43	9.3	.52	11.4	.74
300 PSI	1.47	.35	2.12	.57	2.50	.68	2.98	.92
20.7 BAR	5.6	.35	8.0	.57	9.5	.68	11.3	.92
400 PSI	1.45	.43	2.11	.71	2.10	.82	2.96	1.11
27.6 BAR	5.5	.43	8.0	.71	7.9	.82	11.2	1.11
500 PSI	1.44	.56	2.10	.83	2.44	.96	2.94	1.23
34.5 BAR	5.5	.56	7.9	.83	9.9	.96	11.1	1.23

Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
5315C-X	1.5	500	1800	5/8" OD solid shaft
5320C-X	2.2	500	1800	5/8" OD solid shaft
5325C-X	2.5	500	1800	5/8" OD solid shaft
5330C-X	3	500	1800	5/8" OD solid shaft
5315C-HX	1.5	500	1800	5/8" ID hollow shaft
5320C-HX	2.2	500	1800	5/8" ID hollow shaft
5325C-HX	2.5	500	1800	5/8" ID hollow shaft
5330C-HX	3	500	1800	5/8" ID hollow shaft

Injector Head - Add Suffix "D" - (i.e.: 5320C-DRX).

Buna-N - add suffix "R" - (i.e.: 5320C-RX)

Teflon - add suffix "C" - (i.e.: 5320C-CX)

Small Twin®

Models 5324C and 5324C-H



- Port sizes: 1/2" inlet, 1/2" outlet
- Max. fluid temperature: 140°F/60°C
- Weight: 11 lbs./5 kg
- Pump shaft rotation: bi-rotational
- Cups: Buna-N standard
- Injector head available (-D)
- Model 5324 requires a pulsation dampener (such as a 3375-0012 pulse hose) on the discharge side

Pressure in PSI and BAR	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
	@600 RPM		@900 RPM		@1200 RPM		@1450 RPM		@1725 RPM	
100 PSI	.96	.12	1.51	.19	2.00	.28	2.42	.34	2.90	.40
6.9 BAR	3.6	.12	5.7	.19	7.6	.28	9.2	.34	11.0	.40
200 PSI	.94	.19	1.49	.30	1.98	.41	2.40	.50	2.89	.59
13.8 BAR	3.6	.19	5.6	.30	7.5	.41	9.1	.50	10.9	.59
300 PSI	.94	.26	1.48	.41	1.97	.55	2.38	.67	2.87	.80
20.7 BAR	3.6	.26	5.6	.41	7.5	.55	9.0	.67	10.9	.80
400 PSI	.95	.33	1.47	.50	1.96	.67	2.37	.83	2.85	1.00
27.6 BAR	3.6	.33	5.6	.50	7.4	.67	9.0	.83	10.8	1.00
500 PSI	.94	.39	1.47	.60	1.96	.81	2.36	.97	2.83	1.19
34.5 BAR	3.6	.39	5.6	.60	7.4	.81	8.9	.97	10.7	1.19
600 PSI	.93	.45	1.46	.69	1.95	.93	2.35	1.13	2.81	1.38
41.4 BAR	3.5	.45	5.5	.69	7.4	.93	8.9	1.13	10.6	1.38
700 PSI	.93	.52	1.46	.78	1.94	1.06	2.33	1.27	2.80	1.54
48.3 BAR	3.5	.52	5.5	.78	7.3	1.06	8.8	1.27	10.6	1.54
800 PSI	.93	.58	1.45	.87	1.93	1.16	2.32	1.42	2.79	1.69
55.2 BAR	3.5	.58	5.5	.87	7.3	1.16	8.8	1.42	10.6	1.69

Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
5324C	2.9	800	1800	5/8" OD solid shaft
5324C-H	2.9	800	1800	5/8" ID hollow shaft

Injector Head - Add Suffix "D" - (i.e.: 5324C-D).

Small Twin®

Models 5321C, 5322C, 5321C-H and 5322C-H



- Port sizes: ½" inlet, ½" outlet
- Max. fluid temperature: 180°F/82°C
- Weight: 11 lbs./5 kg
- Pump shaft rotation: bi-rotational
- Injector head available (-D)
- Models 5321 and 5322 require a pulsation dampener (such as a 3375-0012 pulse hose) on the discharge side

Pressure in PSI and BAR	GPM		HP		GPM		HP	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP
	@900 RPM		@1200 RPM		@1450 RPM		@1725 RPM	
100 PSI	1.1	0.2	1.5	.3	1.8	.4	2.2	.4
6.9 BAR	4.2	0.2	5.7	.3	6.8	.4	8.3	.4
300 PSI	1.1	.4	1.5	.5	1.8	.6	2.1	.7
20.7 BAR	4.2	.4	5.7	.5	6.8	.6	7.9	.7
500 PSI	1.1	.5	1.5	.6	1.8	.7	2.1	.8
34.5 BAR	4.2	.5	5.7	.6	6.8	.7	7.9	.8
700 PSI	1.1	.6	1.5	.8	1.8	.9	2.1	1.1
48.3 BAR	4.2	.6	5.7	.8	6.8	.9	7.9	1.1
1000 PSI	1.1	.8	1.4	1.0	1.8	1.2	2.1	1.4
69.0 BAR	4.2	.8	5.3	1.0	6.8	1.2	7.9	1.4

Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output	Plunger Material
5321C	2.2	1000	1800	¾" OD solid shaft	Stainless Steel
5322C	2.2	1000	1800	¾" OD solid shaft	Ceramic
5321C-H	2.2	1000	1800	¾" ID hollow shaft	Stainless Steel
5322C-H	2.2	1000	1800	¾" ID hollow shaft	Ceramic

Injector Head - Add Suffix "D" - (i.e.: 5321C-DH).

Small Twin®

Model 53702



- Port sizes: ½" inlet, ½" outlet
- Max. fluid temperature: 180°F/82°C
- Weight: 11 lbs./5 kg
- Pump shaft rotation: bi-rotational
- Plungers: polished ceramic
- Injector head available (-D)
- Model 53702 requires a pulsation dampener (such as a 3375-0012 pulse hose) on the discharge side
- Inlet requirements: pressure feed 20-100 psi

Pressure in PSI and BAR	GPM		HP	
	LPM	HP	LPM	HP
	@3450 RPM			
100 PSI	2.3			.4
6.9 BAR	8.7			.4
300 PSI	2.2			.7
20.7 BAR	8.3			.7
500 PSI	2.1			.9
34.5 BAR	8.0			.9
700 PSI	2.1			1.2
48.3 BAR	8.0			1.2
1000 PSI	2.0			1.5
69 BAR	7.6			1.5

Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
53702	2.2	1000	3450	¾" ID hollow shaft

Injector Head - Add Suffix "D" - (i.e.: 53702-D).

Small Twin®

Model 53703



- Max. fluid temperature: 180°F/82°C
- Port sizes: ½" inlet, ½" outlet
- Weight: 11 lbs./5 kg
- Pump shaft rotation: bi-rotational
- Plungers: polished ceramic
- Injector head available (-D)
- Model 53703 requires a pulsation dampener (such as a 3375-0012 pulse hose) on the discharge side
- Inlet requirements: pressure feed 20-100 psi

Pressure in PSI and BAR	GPM	HP
	LPM	HP
@3100 RPM		
100 PSI	2.3	0.4
6.9 BAR	8.7	0.4
300 PSI	2.2	.7
20.7 BAR	8.3	.7
500 PSI	2.1	.9
34.5 BAR	7.9	.9
700 PSI	2.1	1.2
48.3 BAR	7.9	1.2
1000 PSI	2.0	1.5
69.0 BAR	7.6	1.5

Order Information

Model Number	Max GPM	Max PSI	Max RPM	Shaft Output
53703	2.3	1000	3100	5/8" ID hollow shaft

Injector Head - Add Suffix "D" - (i.e.: 53703-D).
 *Requires a Special Order Gas Engine With 5/8" Shaft