

9000C-O Series



FEATURES

- ◆ Planetary oil-bath gear drive
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: Cast iron
- ◆ Impeller: Nylon
- ◆ Pump shaft rotation: Counter clockwise when looking at the shaft end
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 44 lbs./20 kg

UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	PTO Output	Locking Collar and Mounting Clip
9006C-O	117	443	78	5.4	600	1-3/8" 6 spline (SAE) 540 rpm female	X
9008C-O	110	416	75	5.2	1000	1-3/8" 21 spline (SAE) 1000 rpm female	X
9016C-O	117	443	78	5.4	600	1" (25.4 mm) Solid Shaft	
9018C-O	110	416	75	5.2	1000	1" (25.4 mm) Solid Shaft	
9028C-O	110	416	75	5.2	1000	1-3/4" 20 spline (SAE) 1000 rpm female	X
3430-0334							Seal and o-ring repair kit
3430-0591							Life Guard silicon carbide seal kit

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9006C-O-B)

9006C-O, 9016C-O

U.S. UNITS

RPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI
500	97	86	71	47		
540	106	96	87	70	47	
600	117	113	104	96	82	63

9008C-O, 9018C-O, 9028C-O

U.S. UNITS

RPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI
800	82	70	53			
900	96	88	76	60	24	
1000	110	102	96	86	70	46

9006C-O, 9016C-O

METRIC UNITS

RPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR
500	367	326	269	178		
540	401	363	329	265	178	
600	443	428	394	363	310	238

9008C-O, 9018C-O, 9028C-O

METRIC UNITS

RPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR
800	310	265	201			
900	363	333	288	227	91	
1000	416	386	363	326	265	174

GEAR DRIVEN, CAST IRON, SELF-PRIMING

CENTRIGUAL PUMPS

9000C-O-SP Series



FEATURES

- ◆ Planetary oil-bath gear drive
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: Cast iron
- ◆ Impeller: Nylon
- ◆ Pump shaft rotation: Counter clockwise when looking at the shaft end
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 62 lbs./28.2 kg

UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	PTO Output	Locking Collar and Mounting Clip
9006C-O-SP	119	450	77	5.3	600	1-3/8" 6 spline (SAE) 540 rpm	X
9016C-O-SP	119	450	77	5.3	600	1" (25.4 mm) solid shaft	
9028C-O-SP	117	443	69	4.35	1000	1-3/4" 20 spline (SAE) 1000 rpm	X
3430-0334						Seal and o-ring repair kit	
3430-0591						Life Guard silicon carbide seal kit	
3430-0480SP						Self priming chamber kit	

Life Guard silicon carbide seal - Available upon request

9006C-O-SP, 9016C-O-SP

U.S. UNITS

RPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI
500	101	95	77	51	12		
540	111	109	94	74	47	11	
600	119	118	112	97	79	54	23

9028C-O-SP

U.S. UNITS

RPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI
800	91	81	57	19			
940	105	101	84	60	25		
1000	117	114	104	87	65	33	23

9006C-O-SP, 9016C-O-SP

METRIC UNITS

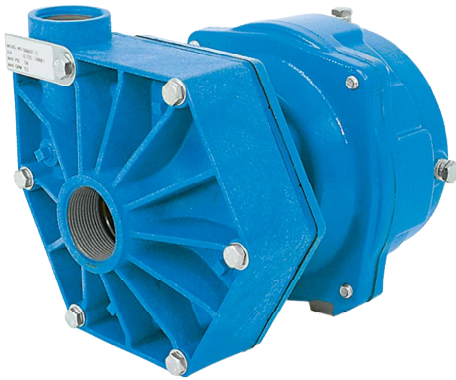
RPM	LPM at 0.7 BAR	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR
500	382	360	291	193	45		
540	420	413	356	280	178	42	
600	450	447	424	367	299	204	87

9028C-O-SP

METRIC UNITS

RPM	LPM at .07 BAR	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR
800	344	307	216	72			
940	397	382	318	227	95		
1000	443	432	394	329	246	125	87

9000P-O Series



FEATURES

- ◆ Planetary oil-bath gear drive
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: Polypropylene
- ◆ Impeller: Polypropylene
- ◆ Pump shaft rotation: Counter clockwise when looking at the shaft end
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 37 lbs./16.8 kg

UPGRADE OPTIONS

- ◆ Increase abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	PTO Output	Locking Collar Kit
9006P-O	97	367	83	5.7	600	1 3/8" 6 spline (SAE) 540 rpm female	X
9008P-O	94	355	67	4.6	1000	1 3/8" 21 spline (SAE) 1000 rpm female	X
9016P-O	97	367	83	5.7	600	1" (25.4 mm) solid shaft	
9018P-O	94	355	67	4.6	1000	1" (25.4 mm) solid shaft	
3430-0333							Seal and o-ring repair kit
3430-0590							Life Guard silicon carbide seal kit

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9006P-O-B)

9006P-O, 9016P-O

U.S. UNITS

RPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI
450	73	63	52	34			
500	81	77	67	55	37		
550	88	85	78	68	56	36	
600	97	97	93	85	76	66	52

9008P-O, 9018P-O

U.S. UNITS

RPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI
800	70	64	53	34		
900	83	79	70	58	42	
1000	96	92	86	78	67	52

9006P-O, 9016P-O

METRIC UNITS

RPM	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 4.1 BAR	LPM at 4.8 BAR
450	276	239	196	129			
500	307	291	255	208	142		
550	333	323	295	257	210	137	
600	367	367	354	323	288	249	198

9008P-O, 9018P-O

METRIC UNITS

RPM	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 4.1 BAR
800	314	243	200	128		
900	363	299	265	220	161	
1000	327	348	327	296	254	198

PEDESTAL MOUNT, CAST IRON & STAINLESS STEEL

CENTRIGUAL PUMPS

9202C and 9202S Series



FEATURES

- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Pedestal mount, direct drive
- ◆ Port sizes: 1-1/4" NPT inlet, 1" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Nylon (cast iron standard); polypropylene (stainless standard)
- ◆ Pump shaft rotation: Counter clockwise when looking at the shaft end, 9202S-R is clockwise
- ◆ Pump seals: Viton®/ceramic standard (Life Guard silicon carbide (B) available); Life Guard silicon carbide standard in stainless steel pumps
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 18 lbs./8.2 kg

UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals. Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output
9202C	103	390	170	11.7	6000	5/8" (15.9 mm) solid shaft
9202S	103	390	170	11.7	6000	5/8" (15.9 mm) stainless steel shaft
9202S-R	103	390	170	11.7	6000	5/8" (15.9 mm) stainless steel shaft
3430-0332	Seal and o-ring repair kit					
3430-0589	Life Guard silicon carbide seal kit					
3430-0592	12 volt clutch kit					

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9202C-B)

9202C, 9202S, 9202S-R

U.S. UNITS

RPM	10 PSI		20 PSI		40 PSI		60 PSI		80 PSI		100 PSI		120 PSI		140 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2400	50	1.3	46	1.2												
3600	67	3.7	66	3.7	62	3.5	34	2.6								
4200	75	5.7	75	5.7	75	5.7	66	5.3	44	4.2						
5000	88	9.3	88	9.3	88	9.3	88	9.3	77	8.6	60	7.5	24	6.4		
6000	103	15.6	103	15.6	103	15.6	103	15.6	103	15.6	100	15.5	91	14.8	75	14

9202C, 9202S, 9202S-R

METRIC UNITS

RPM	0.7 BAR		1.4 BAR		2.8 BAR		4.1 BAR		5.5 BAR		6.9 BAR		8.3 BAR		9.7 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
2400	189	1.3	174	1.2												
3600	254	3.7	250	3.7	235	3.5	129	2.6								
4200	284	5.7	284	5.7	284	5.7	250	5.3	167	4.2						
5000	333	9.3	333	9.3	333	9.3	333	9.3	291	8.6	227	7.5	91	6.4		
6000	390	15.6	390	15.6	390	15.6	390	15.6	390	15.6	379	15.5	344	14.8	284	14

9203C and 9203S Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Pedestal mount, direct drive
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ 220 x 200 Universal flange available (U)
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Nylon (cast iron standard); polypropylene (stainless standard); GTX available
- ◆ Pump shaft rotation: Counter clockwise when looking at the shaft end; 9203C-R is clockwise
- ◆ Pump seals: Cast Iron models - Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models - Life Guard silicon carbide standard
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 19 lbs./8.6 kg
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max PSI (BAR)	Max RPM	Shaft Output
9203C†	140	530	170	11.7	6000	5/8" (15.9 mm) solid shaft
9203C-R(CW)	140	530	170	11.7	6000	5/8" (15.9 mm) solid shaft
9203S†	140	530	170	11.7	6000	5/8" (15.9 mm) stainless steel shaft
9203S-R(CW)	140	530	170	11.7	6000	5/8" (15.9 mm) stainless steel shaft
3430-0332	Seal and o-ring repair kit					
3430-0589	Life Guard silicon carbide seal kit					
3430-0592	12 volt clutch kit					

† Universal Flange (220 x 200) - Add Suffix "U" (i.e.: 9203C-U)
Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9203C-B)

9203C, 9203S, 9203C-R, 9203S-R

U.S. UNITS

RPM	10 PSI		20 PSI		40 PSI		60 PSI		80 PSI		100 PSI		120 PSI		140 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2400	80	1.9	65	1.8												
3600	105	5.3	105	5.3	92	5.0	50	3.7								
4200	122	8.2	120	7.9	115	7.7	98	7.1	56	5.3						
5000	140	12.6	140	12.6	138	12.6	130	12.2	118	11.6	88	9.9	45	7.2		
5500	140	14.9	140	14.9	138	14.9	135	15.2	130	15.2	118	14.4	90	12.5	60	9.8
6000	140	17.1	140	17.1	140	17.5	140	18.0	135	18.2	132	18	125	18.2	103	16.3

9203C, 9203S, 9203C-R, 9203S-R

METRIC UNITS

RPM	0.7 BAR		1.4 BAR		2.8 BAR		4.1 BAR		5.5 BAR		6.9 BAR		8.3 BAR		9.7 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
2400	303	1.9	246	1.8												
3600	397	5.3	397	5.3	348	5.0	189	3.7								
4200	462	8.2	454	7.9	435	7.7	371	7.1	212	5.3						
5000	530	12.6	530	12.6	522	12.6	492	12.2	447	11.6	333	9.9	170	7.2		
5500	530	14.9	530	14.9	522	14.9	511	15.2	492	15.2	447	14.4	341	12.5	227	9.8
6000	530	17.1	530	17.1	530	17.5	530	18.0	511	18.2	500	18	473	18.2	409	16.3

9205C Series



FEATURES

- ◆ Pedestal mount, direct drive
- ◆ Port sizes: 2" NPT inlet, 1-1/2" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: Cast iron
- ◆ Impeller: Nylon
- ◆ Pump shaft rotation: Counter clockwise when looking at the shaft end
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 47 lbs./21.4 kg

UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output
9205C	180	681	196	13.5	4200	7/8" (22.2 mm) solid keyed shaft
3430-0537						Seal and o-ring repair kit
3430-0646						Life Guard silicon carbide seal kit
2526-0011						Clutch/single groove

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9205C-B)

9205C

U.S. UNITS

RPM	20 PSI		40 PSI		60 PSI		80 PSI		100 PSI		120 PSI		140 PSI		160 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
3000	165	11.4	164	11.7	154	11.6	104	9.5								
3400	175	14.8	175	15.5	173	16.3	168	16.3	127	14.2	43	8.7				
3800	180	18.2	180	18.8	180	19.8	178	21.1	173	21.8	156	20.7	112	17.5		
4200	180	21.9	180	22.0	180	24.0	180	25.3	180	26.9	177	27.9	173	28.1	157	26.4

9205C

METRIC UNITS

RPM	1.4 BAR		2.8 BAR		4.1 BAR		5.5 BAR		6.9 BAR		8.3 BAR		9.7 BAR		11.0 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
3000	625	11.4	621	11.7	583	11.6	394	9.5								
3400	662	14.8	662	15.5	655	16.3	636	16.3	481	14.2	163	8.7				
3800	681	18.2	681	18.8	681	19.8	674	21.1	655	21.8	591	20.7	424	17.5		
4200	681	21.9	681	22.0	681	24.0	681	25.3	681	26.9	670	27.9	655	28.1	594	26.4

9203C-SP and 9203S-SP Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Pedestal mount, direct drive
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet (9203C-SP, 9203S-SP); 2" NPT inlet, 2" NPT outlet (9203C-R-SP)
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Nylon (cast iron standard); polypropylene (stainless steel); GTX available
- ◆ Pump shaft rotation: Counter clockwise when looking at the shaft end; 9203C-R-SP is clockwise
- ◆ Pump seals: Cast Iron models – Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models – Life Guard silicon carbide standard
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 31.7 lbs./14.4 kg – Stainless Steel; 29 lbs./13.2 kg – Cast Iron

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output
9203C-SP	120	454	157	10.8	6000	5/8" (15.9 mm) solid shaft
9203C-R-SP(CW)	140	530	155	10.7	6000	5/8" (15.9 mm) solid shaft
9203S-SP	120	454	157	10.8	6000	5/8" (15.9 mm) stainless steel shaft
3430-0332	Seal and o-ring repair kit					
3430-0589	Life Guard silicon carbide seal kit					
3430-0480SP	Self priming chamber kit					
3430-0592	12 volt clutch kit					

Life Guard silicon carbide seal – Add suffix "B" (i.e.: 9203C-SP-B)

PEDESTAL MOUNT, CAST IRON & STAINLESS STEEL, SELF-PRIMING

CENTRIGUAL PUMPS

9203C-SP and 9203S-SP Series

9203C-R-SP

U.S. UNITS

RPM	20 PSI		40 PSI		60 PSI		80 PSI		100 PSI		120 PSI		140 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
3600	80	3.8	43	2.9										
4200	102	6.1	76	5.4	38	4								
5000	127	10.5	109	9.8	86	8.7	55	7.2	18	5.4				
5500	135	13.5	125	13.1	110	12.3	83	10.9	57	9.3	21	6.9		
6000	138	15.7	132	15.7	122	15.1	111	14.1	93	13.2	67	12.2	32	9.5

9203C-R-SP

METRIC UNITS

RPM	1.4 BAR		2.8 BAR		4.1 BAR		5.5 BAR		6.9 BAR		8.3 BAR		9.7 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
3600	303	3.8	163	2.9										
4200	386	6.1	288	5.4	144	4								
5000	481	10.5	413	9.8	326	8.7	208	7.2	68	5.4				
5500	511	13.5	473	13.1	416	12.3	314	10.9	216	9.3	79	6.9		
6000	522	15.7	500	15.7	462	15.1	420	14.1	352	13.2	254	12.2	121	9.5

9203C-SP, 9203S-SP

U.S. UNITS

RPM	20 PSI		40 PSI		60 PSI		80 PSI		100 PSI		120 PSI		140 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
3600	101	4.2	60	3.4										
4200	118	6.7	97	6.1	54	4.7								
5000	120	10.1	119	10.3	110	10.1	78	8.7	25	5.8				
5500	120	12.1	119	12.7	116	13.2	110	12.8	79	11.0	29	7.6		
6000	120	14.3	119	15.0	116	15.7	114	16.0	110	16.0	82	14.0	40	10.6

9203C-SP, 9203S-SP

METRIC UNITS

RPM	1.4 BAR		2.8 BAR		4.1 BAR		5.5 BAR		6.9 BAR		8.3 BAR		9.7 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
3600	382	4.2	227	3.4										
4200	447	6.7	367	6.1	204	4.7								
5000	458	10.1	450	10.3	416	10.1	295	8.7	95	5.8				
5500	458	12.1	450	12.7	439	13.2	416	12.8	299	11.0	110	7.6		
6000	458	14.3	450	15.0	439	15.7	432	16.0	416	16.0	310	14.0	157	10.6

9205C-SP Series



FEATURES

- ◆ Pedestal mount, direct drive
- ◆ Port sizes:
2" NPT inlet, 2" NPT outlet (9205C-SP)
2" BSP inlet, 2" BSP outlet (9205C-BSP)
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: Cast iron
- ◆ Impeller: Nylon
- ◆ Pump shaft rotation: Counter clockwise when looking at the shaft end
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 48 lbs./21.8 kg

UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output
9205C-SP	160	606	145	10.0	3800	7/8" (22.2 mm) solid keyed shaft
9205C-BSP	160	606	145	10.0	3800	7/8" (22.2 mm) solid keyed shaft
3430-0537	Seal and o-ring repair kit					
3430-0646	Life Guard silicon carbide seal kit					
2526-0011	Clutch/single groove					

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9205C-SP-B)

9205C-SP, 9205C-BSP

U.S. UNITS

RPM	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI	GPM at 140 PSI
3400	155	154	153	150	131	110	84	35			
3600	158	157	156	155	153	137	114	88	58		
3800	160	159	158	157	156	155	142	123	102	74	28

9205C-SP, 9205C-BSP

METRIC UNITS

RPM	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 8.9 BAR	LPM at 9.7 BAR
3400	587	583	579	568	496	416	318	132			
3600	598	594	591	587	579	518	432	333	220		
3800	606	602	598	594	591	587	538	466	383	280	106

9206C and 9206S Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Pedestal mount, direct drive
- ◆ Port sizes: 2" NPT inlet, 1-1/2" NPT outlet
- ◆ 220 x 220 (U) and 300 x 220 (-3U models) universal flange available
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Nylon (standard in cast iron); polypropylene (standard in stainless steel); GTX available
- ◆ Pump shaft rotation: Counter clockwise when looking at the shaft end
- ◆ Pump seals: Cast Iron models – Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models – Life Guard silicon carbide standard
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 23 lbs./10.5 kg
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output
9206C*	225	852	80	5.5	4200	5/8" (15.9 mm) solid shaft
9206S	225	852	80	5.5	4200	5/8" (15.9 mm) stainless steel shaft
3430-0332	Seal and o-ring repair kit					
3430-0589	Life Guard silicon carbide seal kit					

*Universal Flange (220 x 220) - Add Suffix "U" (i.e.: 9206C-U),
 Universal Flange (300 x 220) - Add Suffix "3U" (i.e.: 9206C-3U),
 Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9206C-B)

9206C, 9206S, 9206C-U, 9206S-3U

U.S. UNITS

RPM	10 PSI		20 PSI		30 PSI		40 PSI		50 PSI		60 PSI		70 PSI		80 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2400	171	2.3	114	2.0												
3600	225	7.0	225	7.1	225	7.5	196	7.3	143	6.1						
4200	225	9.2	225	9.4	225	10.7	225	11.0	225	11.3	202	10.9	158	9.5	80	6.4

9206C, 9206S, 9206C-U, 9206S-3U

METRIC UNITS

RPM	0.7 BAR		1.4 BAR		2.1 BAR		2.8 BAR		3.4 BAR		4.1 BAR		4.8 BAR		5.5 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
2400	647	2.3	432	2.0												
3600	852	7.0	852	7.1	852	7.5	742	7.3	541	6.1						
4200	852	9.2	852	9.4	852	10.7	852	11.0	852	11.3	765	10.9	598	9.5	303	6.4

9203P-S Series



FEATURES

- ◆ Pedestal mount
- ◆ For belt and pulley drive
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: Polypropylene
- ◆ Impeller: Polypropylene
- ◆ Pump shaft rotation: Counter clockwise 9203P-S, when looking at the shaft end; 9203P-SR is clockwise
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 14 lbs./6.4 kg

UPGRADE OPTIONS

- ◆ Increase abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output
9203P-S	100	379	82	5.7	4200	7/8" (22.2 mm) solid keyed stainless steel shaft
9203P-SR	100	379	82	5.7	4200	7/8" (22.2 mm) solid keyed stainless steel shaft
3430-0333	Seal and o-ring repair kit					
3430-0590	Life Guard silicon carbide seal kit					
2526-0011	12 volt clutch kit					

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9203P-S-B)

9203P-S, 9203P-SR

U.S. UNITS

RPM	10 PSI		20 PSI		30 PSI		40 PSI		50 PSI		60 PSI		70 PSI		80 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2400	55	1.5	49	1.4	32	1.1										
3600	89	4.4	87	4.3	81	4.1	71	3.9	58	3.6	37	3.1				
4200	100	6.7	100	6.6	97	6.5	90	6.3	82	6.0	71	5.7	60	5.2	39	4.4

9203P-S, 9203P-SR

METRIC UNITS

RPM	0.7 BAR		1.4 BAR		2.1 BAR		2.8 BAR		3.4 BAR		4.1 BAR		4.8 BAR		5.5 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
2400	208	1.5	185	1.4	121	1.1										
3600	337	4.4	329	4.3	307	4.1	269	3.9	220	3.6	140	3.1				
4200	379	6.7	379	6.6	367	6.5	341	6.3	310	6.0	269	5.7	227	5.2	148	4.4

9213P Series



FEATURES

- ◆ Mounts clockwise rotation (when looking at the shaft end) – for direct mount to gasoline engines
- ◆ Shaft: 3/4" (19 mm) hollow, 416 stainless steel
- ◆ Port size: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: Polypropylene
- ◆ Impeller: Polypropylene
- ◆ Flange bolt pattern for 5 HP gas engine
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 19 lbs./8.6 kg

UPGRADE OPTIONS

- ◆ Increase abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	PTO Output
9213P	91	344	65	4.5	3600	3/4" hollow keyed stainless steel shaft for direct coupling to 5HP engine
3430-0333						Seal and o-ring repair kit
3430-0590						Life Guard silicon carbide seal kit

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9213P-B)

9213P – BASED ON 5.5 HP HONDA® ENGINE

U.S. UNITS

GPM at 0 PSI	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI
92	91	88	81	70	58	42

9213P – BASED ON 5.5 HP HONDA ENGINE

METRIC UNITS

LPM at 0.0 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 4.1 BAR
348	344	333	307	265	220	159

PEDESTAL MOUNT, CLUTCH-DRIVEN, CAST IRON & STAINLESS STEEL CENTRIGUAL PUMPS

9262C-C Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Pedestal mount with DC clutch drive
- ◆ Double "A" groove pulley (5"/125 mm diameter)
- ◆ Port sizes: 1-1/4" NPT inlet, 1" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Impeller: Nylon (standard in cast iron); polypropylene (standard in stainless steel); GTX available
- ◆ Pump shaft rotation: Counter clockwise when looking at the shaft end; Clockwise for -CR models
- ◆ Pump seals: Cast Iron models – Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models (Life Guard silicon carbide standard)
 - Life Guard seals are the industry standard on OEM equipment
- ◆ 3.75 Amp draw (45 watts at 12 volts)
- ◆ Weight: 23 lbs./10.5 kg

ORDER INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max PSI	Max RPM	Rotation
9262C-C	88	333	114	7.9	5000	CCW*
9262S-CR	145	549	114	7.9	5000	CW*
3430-0332	Seal and o-ring repair kit					
3430-0589	Life Guard silicon carbide seal kit					

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9262C-CB)

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

PEDESTAL MOUNT, CLUTCH-DRIVEN, CAST IRON & STAINLESS STEEL CENTRIGUAL PUMPS

9262C-C Series

9262C-C

U.S. UNITS

RPM	10 PSI		20 PSI		40 PSI		60 PSI		80 PSI		100 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2400	50	1.3	46	1.2								
3600	67	3.7	66	3.7	62	3.5	25	2.8				
4200	75	5.7	75	5.7	75	5.7	66	5.3	40	4.6		
5000	88	9.3	88	9.3	88	9.3	88	9.3	77	8.6	60	7.5

9262C-C

METRIC UNITS

RPM	0.7 BAR		1.4 BAR		2.8 BAR		4.1 BAR		5.5 BAR		6.9 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
2400	189	1.3	174	1.2								
3600	254	3.7	250	3.7	235	3.5	95	2.8				
4200	284	5.7	284	5.7	284	5.7	250	5.3	151	4.6		
5000	333	9.3	333	9.3	333	9.3	333	9.3	291	8.6	227	7.5

9262S-CR

U.S. UNITS

RPM	10 PSI		20 PSI		40 PSI		60 PSI		80 PSI		100 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2400	73	1.4	55	1.2								
3600	112	4.5	109	4.5	86	4.0	25	2.8				
4200	128	7.1	127	7.1	116	6.8	92	6.1	40	4.6		
5000	145	11.8	145	11.8	143	11.7	133	11.3	115	10.4	86	9.1

9262S-CR

METRIC UNITS

RPM	0.7 BAR		1.4 BAR		2.8 BAR		4.1 BAR		5.5 BAR		6.9 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
2400	276	1.4	208	1.2								
3600	424	4.5	413	4.5	326	4.0	95	2.8				
4200	484	7.1	481	7.1	439	6.8	348	6.1	151	4.6		
5000	549	11.8	549	11.8	541	11.7	503	11.3	435	10.4	326	9.1

PEDESTAL MOUNT, CLUTCH-DRIVEN, CAST IRON & STAINLESS STEEL, SELF-PRIMING

9263C-SP and 9263S-SP Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Double "A" groove pulley (5"/125 mm diameter)
- ◆ Pedestal mount with DC clutch drive
- ◆ Max fluid temperature: 140° F/60° C
- ◆ Impeller: Nylon (standard in cast iron); polypropylene (standard in stainless steel); GTX available
- ◆ Pump seals: Cast Iron models - Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models (Life Guard silicon carbide standard)
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ 3.75 Amp draw (45 watts at 12 volts)

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Rotation	Port Sizes
9263C-CR-SP	127	481	110	7.6	5000	CW*	2" NPT inlet x 2" NPT outlet
9263C-CR-SP-B	127	481	110	7.6	5000	CW*	2" NPT inlet x 2" NPT outlet
9263C-C-SP	120	454	110	7.6	5000	CCW*	1-1/2" NPT inlet x 1-1/4" NPT outlet
9263S-C-SP	120	454	110	7.6	5000	CCW*	1-1/2" NPT inlet x 1-1/4" NPT outlet
3430-0332	Seal and o-ring repair kit						
3430-0589	Life Guard silicon carbide seal kit						

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9263-CR-SP-B) *CCW (counterclockwise) CW (clockwise) are determined when looking at the shaft end.

9263C-CR-SP, 9263C-CR-SP-B

U.S. UNITS

RPM	20 PSI		30 PSI		40 PSI		50 PSI		60 PSI		70 PSI		80 PSI		90 PSI		100 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
3600	80	3.8	64	3.4	43	2.9	17	2.6										
4200	102	6.1	90	5.8	76	5.4	59	4.7	38	4.0	16	3.7						
5000	127	10.5	119	10.2	109	9.8	99	9.3	86	8.7	70	7.9	55	7.2	37	6.2	18	5.4

9263C-CR-SP, 9263C-CR-SP-B

METRIC UNITS

RPM	1.4 BAR		2.1 BAR		2.8 BAR		3.4 BAR		4.1 BAR		4.8 BAR		5.5 BAR		6.2 BAR		6.9 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
3600	303	3.8	242	3.4	163	2.9	64	2.6										
4200	386	6.1	341	5.8	288	5.4	223	4.7	144	4.0	61	3.7						
5000	481	10.5	450	10.2	413	9.8	375	9.3	326	8.7	265	7.9	208	7.2	140	6.2	68	5.4

9263C-C-SP, 9263S-C-SP

U.S. UNITS

RPM	20 PSI		30 PSI		40 PSI		50 PSI		60 PSI		70 PSI		80 PSI		90 PSI		100 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
3600	101	4.2	84	3.9	60	3.4	25	2.6										
4200	118	6.7	112	6.7	97	6.1	79	5.5	54	4.7	23	4.0						
5000	120	10.1	120	10.3	119	10.3	117	10.2	110	10.1	96	9.6	78	8.7	52	7.2	25	5.8

9263C-C-SP, 9263S-C-SP

METRIC UNITS

RPM	1.4 BAR		2.1 BAR		2.8 BAR		3.4 BAR		4.1 BAR		4.8 BAR		5.5 BAR		6.2 BAR		6.9 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
3600	382	4.2	318	3.9	227	3.4	95	2.6										
4200	447	6.7	424	6.7	367	6.1	299	5.5	204	4.7	87	4.0						
5000	454	10.1	454	10.3	450	10.3	443	10.2	416	10.1	363	9.6	295	8.7	197	7.2	95	5.8

PEDESTAL MOUNT, CLUTCH-DRIVEN, CAST IRON & STAINLESS STEEL CENTRIFUGAL PUMPS

9263C-C and 9263S-C Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Pedestal mount with DC clutch drive
- ◆ Double “A” groove pulley (5”/125 mm diameter)
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet (BSP available on 9263C)
- ◆ 220 x 200 universal flange available (U)
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Pedestal mount with DC clutch drive
- ◆ Double “A” groove pulley (5”/125 mm diameter)
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet (BSP available on 9263C)
- ◆ 220 x 200 universal flange available (U)
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Nylon (standard in cast iron); polypropylene (standard in stainless steel); GTX available
- ◆ Pump seals: Cast Iron models – Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models – Life Guard silicon carbide standard
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ 3.75 Amp draw (45 watts at 12 volts)
- ◆ Weight: 23 lbs./10.5 kg
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Rotation
9263C-C †(BSP Version - 9263C-BT)	140	530	114	7.9	5000	CCW*
9263C-CR	140	530	114	7.9	5000	CW*
9263S-C †	140	530	114	7.9	5000	CCW*
9263S-CR	140	530	114	7.9	5000	CW*
3430-0332	Seal and o-ring repair kit					
3430-0589	Life Guard silicon carbide seal kit					

† Universal Flange (220 x 200) - Add Suffix “U” (i.e.: 9263C-C-U)
Life Guard silicon carbide seal - Add suffix “B” (i.e.: 9263C-CB)

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

9263C-C, 9263S-C, 9263C-CR, 9263S-CR, 9263C-C-U, 9263S-C-U

U.S. UNITS

RPM	10 PSI		20 PSI		40 PSI		60 PSI		80 PSI		100 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2400	80	1.9	65	1.8								
3600	105	5.3	105	5.3	92	5.0	50	3.7				
4200	122	8.2	120	7.9	115	7.7	98	7.1	56	5.3		
5000	140	12.6	140	12.6	138	12.6	130	12.2	118	11.6	88	9.9

9263C-C, 9263S-C, 9263C-CR, 9263S-CR, 9263C-C-U, 9263S-C-U

METRIC UNITS

RPM	0.7 BAR		1.4 BAR		2.8 BAR		4.1 BAR		5.5 BAR		6.9 BAR	
	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP	LPM	HP
2400	303	1.9	246	1.8								
3600	397	5.3	397	5.3	348	5.0	189	3.7				
4200	462	8.2	454	7.9	435	7.7	371	7.1	212	5.3		
5000	530	12.6	530	12.6	522	12.6	492	12.2	447	11.6	333	9.9

93HPS Series



FEATURES

- ◆ Versatile multistage centrifugal pump with dry run protection and priming assistance.
- ◆ Proven SignaSeal staging system utilizes ceramic wear surfaces for superior abrasive handling.
- ◆ Stainless steel and engineered polymer components offer corrosion and abrasion resistance.
- ◆ Extended service life results in reduced maintenance and total cost of ownership.
- ◆ Prevent dry run failures with Cobalt Series wet seal.
- ◆ Max RPM: 93HPS114-M05 = 57 GPM (216 LPM); 93HPS114-M05-SP = 47 GPM (178 LPM).
- ◆ Ports: 93HPS114-M05: 2" Universal Flange Inlet, 3/4 NPT (female) outlet. 93HPS114-M05-SP: 2" Universal Flange Inlet, 2" Universal Flange Outlet.
- ◆ Hydraulic Ports: SAE-8, SAE-10.
- ◆ Dry Weight: 43 lbs (19.5 kg)
- ◆ Mounting Bolts: M10 or 3/8"

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	INLET MAX PSI (BAR)	OUTLET MAX PSI (BAR)	MAX FLOW RATE GPM (LPM)	MAX PRESSURE (BAR)
93HPS114-M05	7	26	2500 (172)	100 (6.9)	57 (216)	200 (13.7)
93HPS114-M05Y*	7	26	2500 (172)	100 (6.9)	57 (216)	200 (13.7)
93HPS114-M05-SP	7	26	2500 (172)	100 (6.9)	47 (178)	200 (13.7)

* Model includes case drain hydraulic motor and speed sensor.

HYDRAULICALLY DRIVEN COBALT PUMPS

CENTRIGUAL PUMPS

93HPS Series

MODELS 93HPS114-M05, 93HPS114-M05Y

U.S. UNITS

Hyd Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI	GPM at 140 PSI
4	34	32	29	26	22	16								
5	42	41	39	36	34	32	28	24	20	14				
6	50	49	48	46	44	42	39	37	34	32	28	25	19	10
7	57	55	53	52	50	48	46	45	42	40	38	36	33	30

MAX GPM = 57, MAX PSI = 200

METRIC UNITS

Hyd Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR	LPM at 9.7 BAR
15.1	129	121	110	98	83	61								
18.9	159	155	148	136	129	121	106	91	76	53				
22.7	189	185	182	174	167	159	148	140	129	121	106	95	72	38
26.5	216	208	201	197	189	182	174	170	159	151	144	136	125	114

MODEL 93HPS114-M05-SP

U.S. UNITS

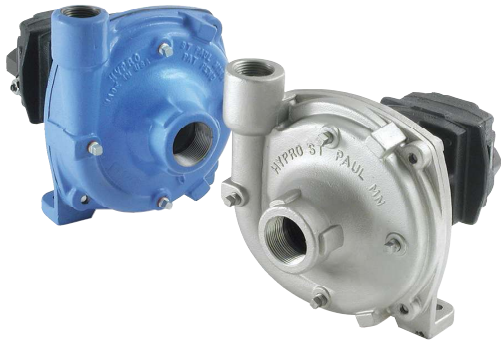
Hyd Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI	GPM at 140 PSI
5	37	35	33	31	29	26	23	20	16	11	5			
6	42	41	39	38	36	34	32	29	27	23	20	17	13	8
7	47	46	44	43	41	40	38	36	34	32	29	27	24	21

MAX GPM = 47, MAX PSI = 200

METRIC UNITS

Hyd Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR	LPM at 9.7 BAR
18	133	126	119	111	101	90	78	65	48	28	9			
22	158	153	147	141	134	127	119	110	98	86	73	59	45	28
26	178	173	168	162	157	151	144	136	130	122	113	104	93	80

9302C and 9302S Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Hydraulic motor drive (for open center, closed center and load-sensing systems)
- ◆ Port sizes: 1-1/4" NPT inlet, 1" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Cast Iron models – Nylon; Stainless Steel models – Polypropylene
- ◆ Motor: internal gear gerotor
- ◆ Hydraulic ports: 1/2" NPT inlet, 3/4" NPT outlet-HM Series
- ◆ Hydraulic ports on GM1 Series: 3/4" 16 UNF #8 SAE
- ◆ Pump seals: Cast Iron models – Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models (Life Guard silicon carbide standard)
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Hydraulic motor seal: double-lip Teflon®
- ◆ Max. motor psi: 3000 (bar: 207)
- ◆ Weight: 26 lbs./11.8 kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd. GPM	Max Hyd. LPM	Hydraulic Selection System
9302CT-GM1	63	238	90	6.2	3	11.4	Open/Closed
9302C-HM1C	72	273	150	10.3	13	49.2	Open/Closed
9302C-HM2C	65	246	96	6.6	6	22.7	Open/Closed
9302C-HM4C	72	273	120	8.3	7	26.5	Open/Closed
9302ST-GM1	63	238	90	6.2	3	11.4	Open/Closed
9302S-HM1C	72	273	150	10.3	13	49.2	Open/Closed
9302S-HM2C	65	246	96	6.6	6	22.7	Open/Closed
9302S-HM4C	72	273	120	8.3	7	26.5	Open/Closed
3430-0332	Seal and o-ring repair kit						
3430-0589	Life Guard silicon carbide seal kit						

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9302CT-GM1-B)

9302C and 9302S Series

9302CT-GM1, 9302ST-GM1

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI
2.0	51	48	39	21					
2.5	60	59	56	48	37	23			
3.0	63	63	62	61	58	50	39	25	0

9302CT-GM1, 9302ST-GM1

METRIC UNITS

Hyd. Flow LPM	LPM at 0.7 BAR	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.5 BAR	LPM at 4.2 BAR	LPM at 4.9 BAR	LPM at 5.6 BAR	LPM at 6.3 BAR
7.6	193	182	148	79					
9.5	227	223	212	182	140	87			
11.4	238	238	235	231	220	189	148	95	0

9302C-HM1C, 9302S-HM1C

U.S. UNITS

Hyd. Flow GPM	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI	GPM at 140 PSI
11	72	72	71	65	56	45	29				
12	72	72	72	72	70	63	53	40			
13	72	72	72	72	72	71	68	63	56	48	35

9302C-HM1C, 9302S-HM1C

METRIC UNITS

Hyd. Flow LPM	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR	LPM at 9.7 BAR
41.6	273	273	269	246	212	170	110				
45.4	273	273	273	273	265	238	201	151			
49.2	273	273	273	273	273	269	257	238	212	182	132

9302C-HM2C, 9302S-HM2C

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI
4	54	49	42	34	19				
5	59	57	50	42	34	25	11		
6	64	63	60	52	44	36	27	18	9

9302C-HM2C, 9302S-HM2C

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR
15.1	204	185	159	129	72				
18.9	223	216	189	159	129	95	42		
22.7	244	238	227	197	167	136	102	68	34

9302C-HM4C, 9302S-HM4C

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI
6	65	63	59	51	41	29	12				
7	72	72	71	67	60	51	42	31	17		
8	72	72	72	72	70	64	57	50	42	32	16

9302C-HM4C, 9302S-HM4C

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR
22.7	246	238	223	193	155	110	45				
26.5	273	273	269	254	227	193	159	117	64		
30.3	273	273	273	273	265	242	216	189	159	121	61

9303C and 9303S Series



FEATURES

- ◆ Hydraulic motor drive (for open center, closed center and load-sensing systems)
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ 220 x 200 universal flange available (U)
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Cast Iron models – Nylon; (GTX available) Stainless Steel models – Polypropylene
- ◆ Motor: internal gear gerotor
- ◆ Hydraulic ports: 1/2" NPT inlet, 3/4" NPT outlet

UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps
- ◆ Pump seals: Cast Iron models – Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models – Life Guard silicon carbide standard
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Hydraulic motor seal: double-lip Teflon®
- ◆ Max. motor psi: 3000 (bar: 207)
- ◆ Weight: 26 lbs./11.8 kg
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd. GPM	Max Hyd. LPM	Hydraulic Selection System
9303C-HM1C	114	432	130	9.0	13	49.2	Open/Closed
9303C-HM2C	97	367	95	6.5	6	22.7	Open/Closed
9303C-HM3C	125	473	98	6.8	24	90.8	Open/Closed
9303C-HM4C	115	435	93	6.4	7	26.5	Open/Closed
9303C-HM5C	147	556	145	10.0	16	60.6	Open/Closed
9303S-HM1C	114	432	130	9.0	13	49.2	Open/Closed
9303S-HM2C	97	367	95	6.5	6	22.7	Open/Closed
9303S-HM3C	125	473	98	6.8	24	90.8	Open/Closed
9303S-HM4C	115	435	93	6.4	7	26.5	Open/Closed
9303S-HM5C	147	556	145	10.0	16	60.6	Open/Closed
3430-0332	Seal and o-ring repair kit						
3430-0589	Life Guard silicon carbide seal kit						

Universal Flange (220 x 200) – Add suffix "U" (i.e.: 9303C-HM3C-U)

Life Guard silicon carbide seal – Add suffix "B" (i.e.: 9303C-HM1C-B)

9303C-HM1C, 9303S-HM1C

U.S. UNITS

Hyd. Flow GPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI
11	104	101	96	90	82	71	60	47	31		
12	110	109	107	105	101	92	81	67	53	36	9
13	112	111	109	107	104	102	96	85	76	63	33

9303C-HM1C, 9303S-HM1C

METRIC UNITS

Hyd. Flow LPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR
41.6	394	382	363	341	310	269	227	178	117		
45.4	416	413	405	397	382	348	307	254	201	136	34
49.2	424	420	413	405	394	386	363	322	288	238	125

9303C and 9303S Series

9303C-HM2C, 9303S-HM2C

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI
4	70	60	45	25					
5	83	74	65	50	37	22	4		
6	94	86	80	72	62	50	37	22	7

9303C-HM2C, 9303S-HM2C

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR
15.1	265	227	170	95					
18.9	314	280	246	189	140	83	15		
22.7	356	326	303	273	235	189	140	83	26

9303C-HM3C, 9303S-HM3C

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI
15	100	92	83	69	47				
18	116	114	108	100	90	76	55	33	
20	125	123	120	114	107	96	85	71	50

9303C-HM3C, 9303S-HM3C

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR
56.8	379	348	314	261	178				
68.1	439	432	409	379	341	288	208	125	
75.7	473	466	454	432	405	363	322	269	189

9303C-HM4C, 9303S-HM4C

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI
5	84	76	66	52	34				
6	97	92	86	78	67	50	25		
7	110	104	98	91	82	69	55	38	14

9303C-HM4C, 9303S-HM4C

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR
18.9	318	288	250	197	129				
22.7	367	348	326	295	254	189	95		
26.5	416	394	371	344	310	261	208	144	53

9303C-HM5C, 9303S-HM5C

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI
13	113	105	97	86	73	59	44				
14	128	123	116	108	98	88	74	61	44		
15	135	132	126	119	110	100	89	77	66	50	20
16	145	142	137	132	126	117	107	95	83	70	55

9303C-HM5C, 9303S-HM5C

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR
49.2	428	397	367	326	276	223	167				
53.0	485	466	439	409	371	333	280	231	167		
56.8	511	500	477	450	416	379	337	291	250	189	76
60.6	549	538	519	500	477	443	405	360	314	265	208

9313 Series



UPGRADE OPTIONS

- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending wear life
- ◆ Hydraulic motor with case drain for maximum motor life

FEATURES

- ◆ ForceField Technology is a superior wet seal technology that provides the ultimate protection for the mechanical seal and avoids costly downtime
- ◆ Protects the mechanical seal against common failures related to dry run and chemical bonding by using a barrier fluid to keep it cool and lubricated
- ◆ Actively maintains a pressure differential between the barrier fluid and the pumping solution, which results in longer life and worry free operation.
- ◆ Capable of flows up to 197 GPM (746 LPM) and can produce up to 150 PSI (10.3 bar)
- ◆ Designed to be a drop-in replacement for standard Hypro hydraulically driven centrifugal pumps
- ◆ One year warranty covering pump, motor and seals
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Part Number	Current Product Equivalent	Inlet/Outlet	Max GPM	Max LPM	Max PSI	Max Bar	Max Hyd. GPM	Max Hyd. LPM
9313C-M04	9303C-HM2C	1-1/2" NPT x 1-1/4" NPT	140	530	90	6.2	7	26.5
9313CU-M04	9303C-HM2C-U	220 x 200 Universal Flange	140	530	90	6.2	7	26.5
9313C-M05	9303C-HM4C	1-1/2" NPT x 1-1/4" NPT	155	587	100	6.9	8	30.3
9313CU-M05	9303C-HM4C-U	220 x 200 Universal Flange	155	587	100	6.9	8	30.3
9313C-M08	9303C-HM1C	1-1/2" NPT x 1-1/4" NPT	188	712	137	9.4	13	49.2
9313CU-M08	9303C-HM1C-U	220 x 200 Universal Flange	188	712	137	9.4	13	49.2
9313C-M10	9303C-HM5C	1-1/2" NPT x 1-1/4" NPT	197	746	150	10.3	16	60.6
9313CU-M10	9303C-HM5C-U	220 x 200 Universal Flange	197	746	150	10.3	16	60.6
9313C-M16	9303C-HM3C	1-1/2" NPT x 1-1/4" NPT	194	734	103	7.1	20	75.7
9313CU-M16	9303C-HM3C-U	220 x 200 Universal Flange	194	734	103	7.1	20	75.7
9313S-M04	9303S-HM2C	1-1/2" NPT x 1-1/4" NPT	140	530	90	6.2	7	26.5
9313SU-M04	9303S-HM2C-U	220 x 200 Universal Flange	140	530	90	6.2	7	26.5
9313S-M05	9303S-HM4C	1-1/2" NPT x 1-1/4" NPT	155	587	100	6.9	8	30.3
9313SU-M05	9303S-HM4C-U	220 x 200 Universal Flange	155	587	100	6.9	8	30.3
9313S-M08	9303S-HM1C	1-1/2" NPT x 1-1/4" NPT	188	712	137	9.4	13	49.2
9313SU-M08	9303S-HM1C-U	220 x 200 Universal Flange	188	712	137	9.4	13	49.2
9313S-M10	9303S-HM5C	1-1/2" NPT x 1-1/4" NPT	197	746	150	10.3	16	60.6
9313SU-M10	9303S-HM5C-U	220 x 200 Universal Flange	197	746	150	10.3	16	60.6
9313S-M16	9303S-HM3C	1-1/2" NPT x 1-1/4" NPT	194	734	103	7.1	20	75.7
9313SU-M16	9303S-HM3C-U	220 x 200 Universal Flange	194	734	103	7.1	20	75.7

Case Drain motor available - Add suffix "Y" (i.e. 9313CU-M08Y)

9313C-M04, 9313CU-M04, 9313S-M04, 9313SU-M04

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI
5	128	111	85	60	36	15		
6	134*	120	97	74	55	36	18	
7	140*	127	104	83	64	45	29	14

9313C-M04, 9313CU-M04, 9313S-M04, 9313SU-M04

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR
18.9	485	420	322	227	136	57		
22.7	507*	454	367	280	208	136	68	
26.5	530*	481	394	314	242	170	110	53

9313 Series

9313C-M05, 9313CU-M05, 9313S-M05, 9313SU-M05

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI
6	144*	130	106	82	58	30			
7	150*	138	119	96	75	55	34	14	
8	155*	145*	130	108	88	70	52	35	17

9313C-M05, 9313CU-M05, 9313S-M05, 9313SU-M05

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR
22.7	545*	492	401	310	220	114			
26.5	568*	522*	450	363	284	208	129	53	
30.3	587*	549*	492	409	333	265	197	132	64

9313C-M08, 9313CU-M08, 9313S-M08, 9313SU-M08

U.S. UNITS

Hyd. Flow GPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI
11	178*	169*	157*	138	117	97	72	48	22		
12	183*	176*	165*	149*	131	111	93	74	52	29	
13	188*	182*	173*	159*	141	124	106	89	71	53	33

9313C-M08, 9313CU-M08, 9313S-M08, 9313SU-M08

METRIC UNITS

Hyd. Flow LPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR
41.6	674*	640*	594*	522	443	367	273	182	83		
45.4	693*	666*	625*	564*	496	420	352	280	197	110	
49.2	712*	689*	655*	602*	534	469	401	337	269	201	125

9313C-M10, 9313CU-M10, 9313S-M10, 9313SU-M10

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI
13	185*	176*	162*	143	122	99	68	24			
14	190*	183*	172*	155*	137	117	96	70	35		
15	193*	187*	179*	168*	154*	135	113	91	66	41	16
16	197*	192*	186*	178*	166*	150	132	114	96	76	55

9313C-M10, 9313CU-M10, 9313S-M10, 9313SU-M10

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR
49.2	700*	666*	613*	541	462	375	257	91			
53.0	719*	693*	651*	587*	519	443	363	265	132		
56.8	731*	708*	678*	636*	583*	511	428	344	250	155	61
60.6	746*	727*	704*	674*	628*	568	500	432	363	288	208

9313C-M16, 9313CU-M16, 9313S-M16, 9313SU-M16

U.S. UNITS

Hyd. Flow GPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI
16	168*	154*	134	105	66				
18	185*	177*	165*	145*	119	85	41		
20	194*	190*	184*	175*	160*	139	115	78	20

9313C-M16, 9313CU-M16, 9313S-M16, 9313SU-M16

METRIC UNITS

Hyd. Flow LPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR
60.6	636*	583*	507*	397	250				
68.1	700*	670*	625*	549*	450	322	155		
75.7	734*	719*	697*	662*	606*	526	435	295	76

*Flow rates can only be achieved with sufficient NPSHA (Net Positive Suction Head Available), refer to OIPM for details.

HYDRAULICALLY-DRIVEN, CAST IRON & STAINLESS STEEL, SELF-PRIMING CENTRIGUAL PUMPS

9303C-SP and 9303S-SP Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Hydraulic motor drive (for open center, closed center and load-sensing systems)
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Cast Iron models – Nylon; (GTX available)
Stainless Steel models – Polypropylene
- ◆ Motor: internal gear gerotor
- ◆ Hydraulic ports: 1/2" NPT inlet, 3/4" NPT outlet
- ◆ Max. motor psi: 3000 (bar: 207)
- ◆ Pump seals: Cast Iron models – Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models – Life Guard silicon carbide standard
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Hydraulic motor seal: double-lip Teflon®
- ◆ Weight: 38 lbs./17.3 kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd. GPM	Max Hyd. LPM	Hydraulic Selection System
9303C-HM1C-SP	122	462	130	9.0	13	49.2	Open/Closed
9303C-HM2C-SP	104	398	80	5.5	6	22.7	Open/Closed
9303C-HM3C-SP	120	454	95	6.5	20	90.8	Open/Closed
9303C-HM4C-SP	99	375	97	6.7	7	26.5	Open/Closed
9303C-HM5C-SP	140	530	140	9.7	16	60.5	Open/Closed
9303S-HM1C-SP	114	432	130	9.0	13	49.2	Open/Closed
9303S-HM2C-SP	97	361	95	6.5	6	22.7	Open/Closed
9303S-HM3C-SP	125	473	98	6.8	20	75.7	Open/Closed
9303S-HM4C-SP	99	435	93	6.4	7	26.5	Open/Closed
9303S-HM5C-SP	147	556	145	9.9	16	60.5	Open/Closed
3430-0589	Life Guard silicon carbide seal kit						
3430-0480SP	Self priming chamber kit						

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9303C-HM1C-SP-B)

9303C-HM1C-SP, 9303S-HM1C-SP

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI
11	119	111	102	89	75	58	42	25			
12	122	120	113	104	94	81	69	55	39	24	
13	122	121	119	111	102	90	78	65	52	39	26

HYDRAULICALLY-DRIVEN, CAST IRON & STAINLESS STEEL, SELF-PRIMING

9303C-SP and 9303S-SP Series

9303C-HM1C-SP, 9303S-HM1C-SP

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR
41.6	450	420	386	337	284	220	159	95			
45.4	462	454	428	394	356	307	261	208	148	91	
49.2	462	458	450	420	386	341	295	246	197	148	98

9303C-HM2C-SP, 9303S-HM2C-SP

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI
4	57	43	26				
5	80	67	53	39	23		
6	98	88	78	67	55	42	29

9303C-HM2C-SP, 9303S-HM2C-SP

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR
15.1	216	163	98				
18.9	303	254	201	148	87		
22.7	371	333	295	254	208	159	110

9303C-HM3C-SP, 9303S-HM3C-SP

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI
15	104	90	74	55	23			
18	119	113	102	87	69	46		
20	120	119	114	106	91	74	55	33

9303C-HM3C-SP, 9303S-HM3C-SP

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR
56.8	394	341	280	208	87			
68.1	450	428	386	329	261	174		
75.7	454	450	432	401	344	280	208	125

9303C-HM4C-SP, 9303S-HM4C-SP

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI
5	72	60	46	30	15			
6	87	79	66	52	38	27	13	
7	95	91	84	71	58	42	30	16

9303C-HM4C-SP, 9303S-HM4C-SP

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR
18.9	273	227	174	114	57			
22.7	329	299	250	197	144	102	49	
26.5	360	344	318	269	220	159	114	61

9303C-HM5C-SP, 9303S-HM5C-SP

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI
41.6	450	420	386	337	284	220	159	95			
45.4	462	454	428	394	356	307	261	208	148	91	
49.2	462	458	450	420	386	341	295	246	197	148	98

9303C-HM5C-SP, 9303S-HM5C-SP

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR
49.2	432	420	386	337	284	220	159	95			
53.0	447	443	428	394	356	307	261	208	148	91	
56.8	462	458	450	420	386	341	295	246	197	148	98

9303P Series



FEATURES

- ◆ Hydraulic motor drive (for open center, closed center and load-sensing systems)
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: Polypropylene
- ◆ Impeller: Polypropylene
- ◆ Motor: internal gear gerotor
- ◆ Hydraulic ports: 1/2" NPT inlet, 3/4" NPT outlet
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Hydraulic motor seal: double-lip Teflon®
- ◆ Max. motor psi: 3000 (bar: 207)
- ◆ Weight: 21 lbs./9.5 kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd. GPM	Max Hyd. LPM	Hydraulic Selection System
9303P-HM1C	110	416	130	9.0	13	49.2	Open/Closed
9303P-HM2C	82	310	95	6.5	6	22.7	Open/Closed
9303P-HM4C	82	310	84	5.3	7	26.5	Open/Closed
9303P-HM5C	113	427	120	8.3	16	60.5	Open/Closed
3430-0445	Seal and o-ring repair kit						
3430-0593	Life Guard silicon carbide seal kit						

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9303P-HM1C-B)

9303P-HM1C

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI
11	93	90	86	80	74	67	59	49	36	18		
12	102	99	95	91	87	81	74	66	55	39	19	
13	109	106	103	99	94	88	82	74	65	54	42	28

HYDRAULICALLY-DRIVEN, POLYPROPYLENE

CENTRIGUAL PUMPS

9303P Series

9303P-HM1C

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR
41.6	352	341	326	303	280	254	223	185	136	68		
45.4	386	375	360	344	329	307	280	250	208	148	72	
49.2	413	401	390	375	356	333	310	280	246	204	159	106

9303P-HM2C

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI
5	65	56	46	38	20				
6	74	72	64	56	48	38	21		
7	80	75	70	62	57	48	40	28	9

9303P-HM2C

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR
18.9	246	212	174	144	76				
22.7	280	273	242	212	182	144	79		
26.5	303	284	265	235	216	182	151	106	34

9303P-HM4C

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI
5	60	52	41	26				
6	70	66	58	48	37	21		
7	80	76	70	63	55	45	32	15

9303P-HM4C

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR
18.9	227	197	155	98				
22.7	265	250	220	182	140	79		
26.5	303	288	265	238	208	170	121	57

9303P-HM5C

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI
12	94	92	86	78	68	58	44	15			
13	100	98	94	88	79	70	60	48	25		
14	108	107	104	100	94	86	77	68	57	42	
15	113	112	110	106	100	93	86	78	68	56	40

9303P-HM5C

METRIC UNITS

Hyd. Flow LPM	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 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR
45.4	356	348	326	295	257	220	167	57			
49.2	379	371	356	333	299	265	227	182	95		
53.0	409	405	394	379	356	326	291	257	216	159	
56.8	428	424	416	401	379	352	326	295	257	212	151

9305C Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

FEATURES

- ◆ Available in cast iron
- ◆ Hydraulic motor drive (for open center, closed center and load-sensing systems)
- ◆ Port sizes: 2" NPT inlet, 1-1/2" NPT outlet
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Nylon
- ◆ Motor: internal gear gerotor
- ◆ Hydraulic ports: 1/2" NPT inlet, 3/4" NPT outlet
- ◆ Max. motor psi: 3000 (bar: 207)
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Hydraulic motor seal: double-lip Teflon®
- ◆ Weight: 48 lbs./21.8 kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd. GPM	Max Hyd. LPM	Hydraulic Selection System
9305C-HM3C	182	689	156	10.8	19	72	Open/Closed
3430-0500	Seal and o-ring repair kit						
3430-0601	Life Guard silicon carbide seal kit						

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9305C-HM3C-B)

9305C-HM3C

U.S. UNITS

Hyd. Flow GPM	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI	GPM at 140 PSI
17	173	164	148	127	97	70	44	14		
18	177	175	168	154	135	109	87	62	34	
19	180	179	177	167	151	134	115	95	72	44

9305C-HM3C

METRIC UNITS

Hyd. Flow LPM	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR	LPM at 9.7 BAR
64.4	655	621	560	481	367	265	167	53		
68.1	670	662	636	583	511	413	329	235	129	
71.9	685	678	670	632	572	507	435	360	273	167

HYDRAULICALLY-DRIVEN, CAST IRON, SELF-PRIMING

CENTRIGUAL PUMPS

9305C-SP and 9305C-BSP Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

FEATURES

- ◆ Available in cast iron
- ◆ Hydraulic motor drive (for open center, closed center and load-sensing systems)
- ◆ Port sizes: 2" NPT inlet, 2" NPT outlet (Model 9305C-HM3C-SP), 2" BSP inlet, 2" BSP outlet (Model 9305C-HM3C-BSP)
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Nylon
- ◆ Motor: internal gear gerotor
- ◆ Hydraulic ports: 1/2" NPT inlet, 3/4" NPT outlet
- ◆ Max. motor psi: 3000 (bar: 207)
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Hydraulic motor seal: double-lip Teflon®
- ◆ Weight: 59 lbs./26.8 kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd. GPM	Max Hyd LPM	Hydraulic Selection System
9305C-HM3C-SP	155	587	143	9.9	19	72	Open/Closed
9305C-HM3C-BSP	155	587	143	9.9	19	72	Open/Closed
3430-0601	Life Guard silicon carbide seal kit						

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9305C-HM3C-B-SP)

9305C-HM3C-SP, 9305C-HM3C-BSP

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI
17	148	145	135	118	100	81	60	37	17		
18	150	149	147	138	120	102	81	60	38	14	
19	153	152	150	147	140	120	104	85	66	45	28

9305C-HM3C-SP, 9305C-HM3C-BSP

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR
64.4	560	549	511	447	379	307	227	140	64		
68.1	568	564	556	522	454	386	307	227	144	53	
71.9	579	575	568	556	553	454	394	322	250	170	106

9306C and 9306S Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Hydraulic motor drive (for open center, closed center and load-sensing systems)
- ◆ Port sizes: 2" NPT inlet, 1-1/2" NPT outlet; 220 x 220 (U) Universal flange available
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Impeller: Nylon (cast iron models); polypropylene (stainless steel models); (GTX available)
- ◆ Motor: internal gear gerotor
- ◆ Hydraulic ports: 1/2" NPT inlet, 3/4" NPT outlet
- ◆ Max. motor psi: 3000 (bar: 207)
- ◆ Pump seals: Cast Iron models - Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models - Life Guard silicon carbide standard
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Hydraulic motor seal: double-lip Teflon®
- ◆ Weight: 33 lbs./15 kg
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd. GPM	Max Hyd. LPM	Hydraulic Selection System
9306C-HM1C*	207	784	127	8.8	13	49.2	Open/Closed
9306C-HM3C*	214	810	128	8.8	24	90.8	Open/Closed
9306C-HM5C*	212	803	140	9.6	17	64.4	Open/Closed
9306S-HM1C	207	784	127	8.8	13	49.2	Open/Closed
9306S-HM3C	214	810	128	8.8	24	90.8	Open/Closed
9306S-HM5C	212	803	140	9.6	17	64.4	Open/Closed
3430-0332	Seal and o-ring repair kit						
3430-0589	Life Guard silicon carbide seal kit						

*Universal Flange (220 x 220) - Add Suffix "U" (i.e.: 9306C-HM3C-U) - Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9306C-HM3C-B)

9306C and 9306S Series

9306C-HM1C, 9306S-HM1C, 9306C-HM1C-U, 9306S-HM1C-U

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI
11	207	200	186	155	122	88	44			
12	207	207	196	179	149	119	88	53		
13	207	207	207	195	171	144	115	85	53	20

9306C-HM1C, 9306S-HM1C, 9306C-HM1C-U, 9306S-HM1C-U

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR
41.6	784	757	704	587	462	333	167			
45.4	784	784	742	678	564	450	333	201		
49.2	784	784	784	738	647	545	435	322	201	76

9306C-HM3C, 9306S-HM3C, 9306C-HM3C-U, 9306S-HM3C-U

U.S. UNITS

Hyd. Flow GPM	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI
18	190	179	159	90					
20	214	203	199	181	139	49			
22	214	214	214	210	198	176	127	16	
24	214	214	214	214	214	210	190	154	101

9306C-HM3C, 9306S-HM3C, 9306C-HM3C-U, 9306S-HM3C-U

METRIC UNITS

Hyd. Flow LPM	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR
68.1	719	678	602	341					
75.7	810	768	753	685	526	185			
83.3	810	810	810	795	750	666	481	61	
90.8	810	810	810	810	810	795	719	583	382

9306C-HM5C, 9306S-HM5C, 9306C-HM5C-U, 9306S-HM5C-U

U.S. UNITS

Hyd. Flow GPM	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI
15	212	212	212	187	150	114	65	19		
16	212	212	212	212	189	158	125	87	42	
17	212	212	212	212	212	189	162	133	102	58

9306C-HM5C, 9306S-HM5C, 9306C-HM5C-U, 9306S-HM5C-U

METRIC UNITS

Hyd. Flow LPM	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR
56.8	803	803	803	708	568	432	246	72		
60.6	803	803	803	803	715	598	473	329	159	
64.4	803	803	803	803	803	715	613	503	386	220

9306C-3U and 9306S-3U Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Hydraulic motor drive (for open center, closed center and load-sensing systems)
- ◆ Port Sizes: 300 x 220 (3U) Universal flange
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Available in cast iron and 316 stainless steel for extended pump life
- ◆ Impeller: Nylon (cast iron models); polypropylene (stainless steel models); (GTX available)
- ◆ Motor: internal gear gerotor
- ◆ Hydraulic ports: 1/2" NPT inlet, 3/4" NPT outlet
- ◆ Max. motor psi: 3000 (bar: 207)
- ◆ Pump seals: Cast Iron models – Viton®/ceramic standard; Life Guard silicon carbide (B) available; Stainless Steel models – Life Guard silicon carbide
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Hydraulic motor seal: double-lip Teflon®
- ◆ Weight: 33 lbs./15 kg
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd.GPM	Max Hyd. LPM	Hydraulic Selection System
9306C-HM1C-3U	283	1071	127	8.8	13	49.2	Open/Closed
9306C-HM3C-3U	322	1219	128	8.8	24	90.3	Open/Closed
9306C-HM5C-3U	312	1181	140	9.6	17	64.4	Open/Closed
9306S-HM1C-3U	283	1071	127	8.8	13	49.2	Open/Closed
9306S-HM3C-3U	322	1219	128	8.8	24	90.3	Open/Closed
9306S-HM5C-3U	312	1181	140	9.6	17	64.4	Open/Closed
3430-0332	Seal and o-ring repair kit						
3430-0589	Life Guard silicon carbide seal kit						

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9306C-HM1C-B3U)

9306C-3U and 9306S-3U Series

9306C-HM1C-3U, 9306S-HM1C-3U

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI
11	255	225	190	155	122	88	44	5		
12	271	242	211	179	149	119	88	53	19	
13	283	258	226	199	171	144	115	85	53	24

9306C-HM1C-3U, 9306S-HM1C-3U

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR
41.6	965	852	719	587	462	333	167	19		
45.4	1026	916	799	678	564	450	333	201	72	
49.2	1071	977	856	753	647	545	435	322	201	91

9306C-HM3C-3U, 9306S-HM3C-3U

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI
18	285	256	213	165	90					
20	308	297	268	233	192	139	49			
22	312	312	308	288	255	219	176	127	16	
24	322	322	320	316	298	265	231	196	154	101

9306C-HM3C-3U, 9306S-HM3C-3U

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR
68.1	1079	969	806	624	341					
75.7	1166	1124	1014	882	727	526	185			
83.3	1181	1181	1166	1090	965	829	666	481	61	
90.8	1219	1219	1211	1196	1128	1003	874	742	583	382

9306C-HM5C-3U, 9306S-HM5C-3U

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI
15	285	269	242	212	182	149	112	68	19		
16	308	291	269	242	212	179	149	115	78	37	
17	312	312	297	270	242	214	187	154	122	82	44

9306C-HM5C-3U, 9306S-HM5C-3U

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 8.9 BAR
56.8	1079	1018	916	802	689	564	424	257	72		
60.6	1166	1101	1018	916	802	677	564	435	307	159	
64.4	1181	1181	1124	1022	916	810	708	583	462	310	167

9314 Series



UPGRADE OPTIONS

- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending wear life
- ◆ Hydraulic motor with case drain for maximum motor life

FEATURES

- ◆ ForceField Technology is a superior wet seal technology that provides the ultimate protection for the mechanical seal and avoids costly downtime
- ◆ Protects the mechanical seal against common failures related to dry run and chemical bonding by using a barrier fluid to keep it cool and lubricated
- ◆ Actively maintains a pressure differential between the barrier fluid and the pumping solution, which results in longer life and worry free operation.
- ◆ Capable of flows up to 233 GPM (882 LPM) and can produce up to 150 PSI (10.3 bar)
- ◆ Designed to be a drop-in replacement for standard Hypro hydraulically driven centrifugal pumps
- ◆ One year warranty covering pump, motor and seals
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Model Number	Current Product Equivalent	Inlet/Outlet	Max GPM	Max LPM	Max PSI	Max Bar	Max Hyd. GPM	Max Hyd. LPM
9314C-M08	9306C-HM1C	2" NPT x 1-1/2" NPT	227	859	132	9.1	14	53
9314CU-M08	9306C-HM1C-U	220 x 220 Universal Flange	227	859	132	9.1	14	53
9314C-M10	9306C-HM5C	2" NPT x 1-1/2" NPT	233	882	150	10.3	17	64.4
9314CU-M10	9306C-HM5C-U	220 x 220 Universal Flange	233	882	150	10.3	17	64.4
9314C-M16	9306C-HM3C	2" NPT x 1-1/2" NPT	232	878	138	9.5	24	90.8
9314CU-M16	9306C-HM3C-U	220 x 220 Universal Flange	232	878	138	9.5	24	90.8
9314S-M08	9306S-HM1C	2" NPT x 1-1/2" NPT	227	859	132	9.1	14	53
9314SU-M08	9306S-HM1C-U	220 x 220 Universal Flange	227	859	132	9.1	14	53
9314S-M10	9306S-HM5C	2" NPT x 1-1/2" NPT	233	882	150	10.3	17	64.4
9314SU-M10	9306S-HM5C-U	220 x 220 Universal Flange	233	882	150	10.3	17	64.4
9314S-M16	9306S-HM3C	2" NPT x 1-1/2" NPT	232	878	138	9.5	24	90.8
9314SU-M16	9306S-HM3C-U	220 x 220 Universal Flange	232	878	138	9.5	24	90.8

Case Drain motor available - Add suffix "Y" (i.e. 9314CU-M08Y)

9314 Series

9314C-M08, 9314CU-M08, 9314S-M08, 9314SU-M08

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI
11	217	190	152	111	73	43	12			
12	224*	203	175	146	115	80	49	24		
13	226*	211*	186	160	131	106	81	56	29	
14	227*	216*	196	171	146	120	95	71	50	27

9314C-M08, 9314CU-M08, 9314S-M08, 9314SU-M08

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR
41.6	821	719	575	420	276	163	45			
45.4	848*	768	662	553	435	303	185	91		
49.2	856*	799*	704	606	496	401	307	212		
53.0	859*	818*	742	647	553	454	360	269	189	102

9314C-M10, 9314CU-M10, 9314S-M10, 9314SU-M10

U.S. UNITS

Hyd. Flow GPM	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI
15	227*	217*	200	175	147	120	87	57	22	
16	231*	224*	212	190	163	136	111	83	53	17
17	233*	228*	220*	205	179	151	125	100	74	49

9314C-M10, 9314CU-M10, 9314S-M10, 9314SU-M10

METRIC UNITS

Hyd. Flow LPM	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR
56.8	859*	821*	757	662	556	454	329			
60.6	874*	848*	803	719	617	515	420	314		
64.4	882*	863*	833*	776	678	572	473	379	280	185

9314C-M16, 9314CU-M16, 9314S-M16, 9314SU-M16

U.S. UNITS

Hyd. Flow GPM	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI
18	216	191	155	100	30					
20	232*	224*	203	175	135	78				
22	232*	230*	224*	211	187	153	107	51		
24	232*	230*	226*	222*	212	190	162	126	85	34

9314C-M16, 9314CU-M16, 9314S-M16, 9314SU-M16

METRIC UNITS

Hyd. Flow LPM	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR
68.1	818	723	587	379	114					
75.7	878*	848*	768	662	511	295				
83.3	878*	871*	848*	799	708	579	405	193		
90.8	878*	871*	856*	840*	803	719	613	477	322	129

*Flow rates can only be achieved with sufficient NPSHA (Net Positive Suction Head Available), refer to OIPM for details.

9316 Series



UPGRADE OPTIONS

- ◆ Hydraulic motor includes a case drain for maximum motor life
 - Life Guard seals are the OEM standard
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ ForceField Technology is a superior wet seal technology that provides the ultimate protection for the mechanical seal and avoids costly downtime
- ◆ Protects the mechanical seal against common failures related to dry run and chemical bonding by using a barrier fluid to keep it cool and lubricated
- ◆ Actively maintains a pressure differential between the barrier fluid and the pumping solution, which results in longer life and worry free operation.
- ◆ Capable of flows up to 311 GPM (1177 LPM) and can produce up to 150 PSI (10.3 bar)
- ◆ Designed to be a drop-in replacement for standard Hypro hydraulically driven centrifugal pumps
- ◆ One year warranty covering pump, motor and seals
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Part Number	Current Product Equivalent	Inlet/Outlet	Max GPM	Max LPM	Max PSI	Max Bar	Max Hyd. GPM	Max Hyd. LPM
9316C3U-M08	9306C-HM1C-3U	300 x 220 Universal Flange	286	1083	127	8.8	14	53
9316C3U-M10	9306C-HM5C-3U	300 x 220 Universal Flange	311	1177	150	10.3	18	68.1
9316C3U-M16	9306C-HM3C-3U	300 x 220 Universal Flange	307	1162	128	8.8	24	90.8
9316S3U-M08	9306S-HM1C-3U	300 x 220 Universal Flange	286	1083	127	8.8	14	53
9316S3U-M10	9306S-HM5C-3U	300 x 220 Universal Flange	311	1177	150	10.3	18	68.1
9316S3U-M16	9306S-HM3C-3U	300 x 220 Universal Flange	307	1162	128	8.8	24	90.8

Case Drain motor available - Add suffix "Y" (i.e. 9313CU-M08Y)

9316 Series

9316C3U-M08, 9316S3U-M08

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI
11	250	213	175	131	86	40				
12	266*	232	194	154	116	82	48			
13	274*	243	207	174	140	109	78	48		
14	286*	262*	230	196	166	134	104	76	49	20

9316C3U-M08, 9316S3U-M08

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR
41.6	946	806	662	496	326	151				
45.4	1007*	878	734	583	439	310	182			
49.2	1037*	920	784	659	530	413	295	182		
53.0	1083*	992*	871	742	628	507	394	288	185	76

9316C3U-M10, 9316S3U-M10

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI
15	298*	283*	255	223	189	151	108	65			
16	304*	295*	276*	247	212	175	139	104	65	29	
17	307*	299*	284*	261*	229	197	162	130	98	67	35
18	311*	303*	291*	271*	242	210	178	150	121	93	62

9316C3U-M10, 9316S3U-M10

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR
56.8	1128*	1071*	965	844	715	572	409	246			
60.6	1151*	1117*	1045*	935	803	662	526	394	246	110	
64.4	1162*	1132*	1075*	988*	867	746	613	492	371	254	132
68.1	1177*	1147*	1102*	1026*	916	795	674	568	458	352	235

9316C3U-M16, 9316S3U-M16

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI
18	279*	249	210	164	94					
20	302*	290*	265*	231	190	128	35			
22	-	305*	299*	277*	243	202	151	91		
24	-	-	307*	301*	280*	252	217	177	130	63

9316C3U-M16, 9316S3U-M16

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR
68.1	1056*	943	795	621	356					
75.7	1143*	1098*	1003*	874	719	485	132			
83.3	-	1155*	1132*	1049*	920	765	572	344		
90.8	-	-	1162*	1139*	1060*	954	821	670	492	238

*Flow rates can only be achieved with sufficient NPSHA (Net Positive Suction Head Available), refer to OIPM for details.

9307C Series



FEATURES

- ◆ Hydraulic motor drive (for open center closed center and load-sensing systems)
- ◆ Port sizes: 3" NPT inlet, 2" NPT outlet
- ◆ 300 x 220 universal flange available (U)
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: stainless steel
- ◆ Motor: external gear
- ◆ Hydraulic ports: -10 SAE inlet and -12 SAE outlet
- ◆ Max. motor psi: 3000 (bar: 207)
- ◆ Pump seals: Life Guard silicon carbide standard
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 86 lbs./39 kg
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd. GPM	Max Hyd. LPM	Hydraulic Selection System
9307C-GM10	370	1400	135	9.3	20	75.7	Open/Closed
9307C-GM12	370	1400	135	9.3	23	87.1	Open/Closed
3430-0604	Life Guard silicon carbide seal kit						
9307CX	Pump head only, no hydraulic motor						

*Universal Flange (300 x 220) - Add Suffix "U" (i.e.: 9307C-GM10-U)

9307C-GM10, 9307C-GM10-U

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI
16	282	253	219	168	73				
17	318	288	258	222	174	95			
18	346	318	291	258	222	166	90		
19	361	361	338	311	281	250	201	137	
20	370	370	351	328	301	275	241	184	106

9307C-GM10, 9307C-GM10-U

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR
60.6	1067	958	829	636	276				
64.4	1204	1090	977	840	659	360			
68.1	1310	1204	1101	977	840	628	341		
71.9	1366	1366	1279	1177	1064	946	761	519	
75.7	1400	1400	1329	1241	1139	1041	912	696	401

9307C-GM12, 9307C-GM12-U

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI
16	222	180	115						
17	246	212	166	92					
18	274	245	209	157	58				
19	302	272	242	203	150				
20	326	298	271	240	196	142			
21	345	324	297	269	238	194	140		
22		345	322	297	270	236	193	138	
23		370	344	323	299	273	235	194	137

9307C-GM12, 9307C-GM12-U

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR
60.6	840	681	435						
64.4	931	802	628	348					
68.1	1037	927	791	594	220				
71.9	1143	1030	916	768	568				
75.7	1234	1128	1026	908	742	537			
79.5	1306	1226	1124	1018	901	734	530		
83.3		1306	1219	1124	1022	893	731	522	
87.1		1400	1302	1223	1132	1033	889	734	519

9307CWS Series



FEATURES

- ◆ ForceField seal technology to protect your pump against today's harshest application environments
- ◆ Components designed for today's high volume liquid fertilizer application on large capacity sprayers.
- ◆ 300 universal flange inlet x 220 universal flange outlet
- ◆ One-year warranty that includes pump, motor and seals
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd. GPM	Max Hyd. LPM	Hydraulic Selection System
9307CWS-GM12	370	1400	135	9.3	23	87.1	Open/Closed
9307CWS-GM12-002 (NPT)	370	1400	135	9.3	23	87.1	Open/Closed
9307CWS-GM12-004 (90°)	370	1400	135	9.3	23	87.1	Open/Closed
9307CWS-GM12-005 (180°)	370	1400	135	9.3	23	87.1	Open/Closed
9307CWS-GM12-006 (270°)	370	1400	135	9.3	23	87.1	Open/Closed

9307CWS-GM12: PERFORMANCE IN WATER

U.S. UNITS

Hyd. Flow GPM	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI
16	222	180	115						
17	246	212	166	92					
18	274	245	209	157	58				
19	302	272	242	203	150				
20	326	298	271	240	196	142			
21	345	324	297	269	238	194	140		
22	345	345	322	297	270	236	193	138	
23	370	370	344	323	299	273	235	194	137

9307CWS-GM12: PERFORMANCE IN WATER

METRIC UNITS

Hyd. Flow LPM	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR
60.6	840	681	435						
64.4	931	802	628	348					
68.1	1037	927	791	594	220				
71.9	1143	1030	916	768	568				
75.7	1234	1128	1026	908	742	537			
79.5	1306	1226	1124	1018	901	734	530		
83.3	1306	1306	1219	1124	1022	893	731	522	
87.1	1400	1400	1302	1223	1132	1033	889	734	519

9307CWS-GM12: PERFORMANCE IN 28% LIQUID FERTILIZER

U.S. UNITS

Hyd. Flow GPM	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI	GPM at 120 PSI	GPM at 130 PSI	GPM at 140 PSI
16	228	204	159	100							
17	234	219	190	147	49						
18	247	247	223	194	146	49					
19	255	255	239	221	191	151	55				
20	260	260	252	240	220	191	150	63			
21	260	260	254	248	237	224	196	159	87		
22	260	260	254	248	240	230	214	194	159	101	
23	260	260	254	249	249	242	237	227	211	174	133

9307CWS-GM12: PERFORMANCE IN 28% LIQUID FERTILIZER

METRIC UNITS

Hyd. Flow LPM	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR	LPM at 7.6 BAR	LPM at 8.3 BAR	LPM at 9.0 BAR	LPM at 9.7 BAR
60.6	863	772	602	379	-						
64.4	886	829	719	556	185						
68.1	935	935	844	734	553	185					
71.9	965	965	905	836	723	572	208				
75.7	984	984	954	908	833	723	568	238			
79.5	984	984	961	939	897	848	742	602	329		
83.3	984	984	961	939	908	871	810	734	602	382	
87.1	984	984	961	942	942	916	897	859	799	659	503

9308C Series



FEATURES

- ◆ 5" ANSI-flanged inlet x 4" ANSI-flanged outlet
- ◆ 316 stainless steel impeller for superior corrosion resistance
- ◆ 9308 versions include a two-piece shaft design with a 416 stainless steel wet end and hardened 8620 drive end for extended life
- ◆ Life Guard silicon carbide seal for premium abrasion resistance and dry-run protection
- ◆ Life Guard seals are the industry standard on OEM equipment

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max Hyd GPM	Max Hyd LPM	Hydraulic Selection System
9308C-PM15	900	3407	58	4.0	16	60.6	Open/Closed
9308CX	Pump head only						
3430-0604	Life Guard silicon carbide seal kit						

9308C-PM15

U.S. UNITS

Hyd. Flow GPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI
8	430				
12	656	656	416		
16	900	900	900	778	607

9308C-PM15

METRIC UNITS

Hyd. Flow LPM	LPM at 0.7 BAR	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.5 BAR
30.3	1628				
45.7	2483	2483	1575		
60.6	3407	3407	3407	2945	2298

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9400 Belt Drive Series



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
 - Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
 - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
 - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
 - Drop in replacements for cast iron pumps

FEATURES

- ◆ Available in cast iron, polypropylene and 316 stainless steel for extended pump life
- ◆ Drive: 12-groove belt
- ◆ Spring-loaded belt tensioner
- ◆ Stainless steel wear ring
- ◆ Stainless steel pump shaft, standard
- ◆ Port sizes: 9402 models – 1-1/4" NPT inlet, 1" NPT outlet; 9403 models – 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ 220 x 200 universal flange available (U)
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Cast Iron models – Nylon; Poly & Stainless Steel models – Polypropylene
- ◆ Pump shaft rotation: Counter clockwise when looking at shaft end
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide (B) available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 40-45 lbs./18.2-20.5 kg
- ◆ Flanged connections need universal flange gasket and universal flange clamp

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	PTO Output
9402C-540	76	283	95	6.5	600	1-3/8" female, 6-spline shaft
9402C-540Q	76	283	95	6.5	600	1-3/8" 6-spline quick coupler
9402C-540S	76	283	95	6.5	600	1" (25.4 mm) solid shaft
9402C-1000	76	283	95	6.5	1000	1-3/8" female, 21-spline shaft
9402C-1000L	76	283	95	6.5	1000	1-3/4" female, 20-spline shaft
9402C-1000S	76	283	95	6.5	1000	1" (25.4 mm) solid shaft
9403C-540†	140	530	104	7.2	600	1-3/8" female, 6-spline shaft
9403C-540Q†	140	530	104	7.2	600	1-3/8" 6-spline quick coupler
9403C-540S†	140	530	104	7.2	600	1" (25.4 mm) solid shaft
9403C-1000†	140	530	104	7.2	1000	1-3/8" female, 21-spline shaft
9403C-1000-MTZ*	164	617	113	7.8	1000	38 mm female, 8-spline shaft
9403C-1000S†	140	530	104	7.2	1000	1" (25.4 mm) solid shaft
3430-0332	Seal and o-ring repair kit					
3430-0476	Seal, o-ring, belt and gasket repair kit for 540 rpm drives					
3430-0477	Seal, o-ring, belt and gasket repair kit for 1000 rpm drives					
3430-0589	Life Guard silicon carbide seal kit					
3430-0333	Seal and o-ring repair kit (polypropylene)					
3430-0478	Seal, o-ring, belt and gasket repair kit for 540 rpm drives (polypropylene)					
3430-0590	Life Guard silicon carbide seal kit (polypropylene)					

†Universal Flange (220 x 200) - Add Suffix "U" (i.e.: 9403C-1000S-U)

Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9402C-540-B)

Available for order through Hypro-EU only (Cambridge, UK)

9402C-540

U.S. UNITS

RPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI
450	61	58	50	36				
500	67	66	62	56	42			
540	71	71	70	65	58	44		
600	76	76	76	75	73	66	56	42

9403P-540

U.S. UNITS

RPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI
450	68	60	46	20			
500	74	70	60	48	22		
540	82	78	70	60	46		
600	91	88	79	72	64	58	38

9400 Belt Drive Series

9402C-540

METRIC UNITS

RPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR
450	231	220	189	136				
500	254	250	235	212	159			
540	269	269	265	246	220	167		
600	288	288	288	284	276	250	212	159

9402C-1000

U.S. UNITS

RPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI
800	68	67	64	57	41				
900	74	74	73	71	64	54	41		
1000	76	76	76	76	72	65	56	43	

9402C-1000

METRIC UNITS

RPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR
800	257	254	242	216	155				
900	280	280	276	269	242	204	155		
1000	288	288	288	288	273	246	212	163	

9403P-540

METRIC UNITS

RPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR
450	257	227	174	76			
500	280	265	227	182	83		
540	310	295	265	227	174		
600	344	333	299	273	242	220	144

9403P-1000

U.S. UNITS

RPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI
800	73	66	58	42			
900	82	78	70	60	46		
1000	86	86	79	72	64	58	38

9403P-1000

METRIC UNITS

RPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR
800	276	250	220	159			
900	310	295	265	227	174		
1000	326	326	299	273	242	220	144

9403C-540, 9403S-540

U.S. UNITS

RPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI
450	107	99	86	50					
500	121	116	106	93	76	42			
540	129	127	120	111	98	80	50		
600	140	138	135	130	121	112	94	73	40

9403C-540, 9403S-540

METRIC UNITS

RPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR
450	405	375	326	189					
500	458	439	401	352	288	159			
540	488	481	454	420	371	303	189		
600	530	522	511	492	458	424	356	276	151

9403C-1000, 9403S-1000

U.S. UNITS

RPM	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI
800	115	106	96	80	56				
900	129	127	120	111	98	80	50		
1000	140	139	137	133	128	119	100	76	46

9403C-1000, 9403S-1000

METRIC UNITS

RPM	LPM at 1.4 BAR	LPM at 2.1 BAR	LPM at 2.8 BAR	LPM at 3.4 BAR	LPM at 4.1 BAR	LPM at 4.8 BAR	LPM at 5.5 BAR	LPM at 6.2 BAR	LPM at 6.9 BAR
800	435	401	363	303	212				
900	488	481	454	420	371	303	189		
1000	530	526	519	503	485	450	379	288	174

9403C-1000-MTZ

U.S. UNITS

RPM	GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI	GPM at 80 PSI	GPM at 90 PSI	GPM at 100 PSI	GPM at 110 PSI
800	136	132	123	112	98	70	45				
900	150	149	145	135	125	115	97	72	35		
1000	163	162	160	155	150	140	130	115	95	75	45

9403C-1000-MTZ

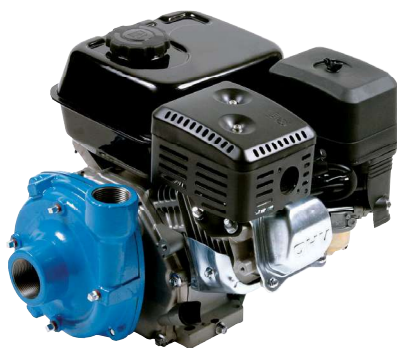
METRIC UNITS

RPM	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 4.1 Bar	LPM at 4.8 Bar	LPM at 5.5 Bar	LPM at 6.2 Bar	LPM at 6.9 Bar	LPM at 7.6 Bar
800	515	500	466	424	371	265	170				
900	568	564	549	511	473	435	367	273	132		
1000	617	613	606	587	568	530	492	435	360	284	170

GAS ENGINE-DRIVEN POWERPRO, CAST IRON

CENTRIGUAL PUMPS

1521C-65 Models



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

FEATURES

- ◆ PowerPro Engine
- ◆ Closed coupled, gas engine-driven
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: cast iron
- ◆ Impeller: Nylon
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 65 lbs./29.4kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Engine Mfg. & HP
1521C-65	110	416	80	5.5	1-1/2" x 1-1/4"	PowerPro 6.5 HP
1538	1-1/2" x 1-1/4" centrifugal pump. DOES NOT include Engine. (must use 5/8" threaded shaft engine)					
3430-0332	Seal and o-ring repair kit					
3430-0589	Life Guard silicon carbide seal kit					

1521C-65

U.S. UNITS						
GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI
110	106	96	88	80	60	30

1521C-65

METRIC UNITS						
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 4.1 BAR	LPM at 4.8 BAR
416	401	363	333	303	227	114

GAS ENGINE-DRIVEN POWERPRO, CAST IRON

1552C-130E Models



FEATURES

- ◆ PowerPro Engine
- ◆ Closed coupled, gas engine-driven
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: cast iron
- ◆ Impeller: Nylon
- ◆ Pump seals: Viton/ceramic standard
- ◆ Weight: 110 lbs./50kg

ORDERING INFORMATION

Model Number	Max GPM	Max (LPM)	Max PSI	Max BAR	Port Size	Engine Mfg. & HP
1552C-130E	170	644	150	10.3	2" x 1-1/2"	PowerPro 13 HP w/ electric start
1551	2" x 1-1/2" centrifugal pump kit. DOES NOT include engine. (must use 1" threaded shaft engine)					
3430-0464	Seal and o-ring repair kit					
3430-0779	Silicon carbide seal kit					

1552C-130E

U.S. UNITS						
GPM at 20 PSI	GPM at 40 PSI	GPM at 60 PSI	GPM at 80 PSI	GPM at 100 PSI	GPM at 120 PSI	GPM at 140 PSI
170	166	148	120	92	65	35

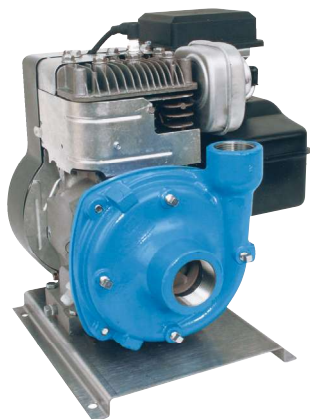
1552C-130E

METRIC UNITS						
LPM at 1.4 BAR	LPM at 2.8 BAR	LPM at 4.1 BAR	LPM at 5.5 BAR	LPM at 6.9 BAR	LPM at 8.3 BAR	LPM at 9.7 BAR
644	628	560	454	348	246	132

GAS ENGINE-DRIVEN, CAST IRON

CENTRIGUAL PUMPS

1536 and 1539 Models



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

FEATURES

- ◆ Briggs & Stratton® engine
- ◆ Close-coupled, gas engine-driven
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: cast iron
- ◆ Impeller: Nylon
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 53 lbs./24.1 kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Engine Mfg. & HP
1536	110	416	75	5.2	1-1/2" x 1-1/4"	Briggs & Stratton® 5.5 HP
1539	Same as model 1536 without mounting base					
1538*	1-1/2" x 1-1/4" centrifugal pump kit. DOES NOT include engine. (must use 5/8" threaded shaft engine)					
3430-0332	Seal and o-ring repair kit					
3430-0589	Life Guard silicon carbide seal kit					

* Must use 5/8" threaded shaft engine.

1536, 1539

U.S. UNITS

GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI
110	106	96	87	73	50

1536, 1539

METRIC UNITS

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 4.1 BAR
416	401	363	329	276	189

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GAS ENGINE-DRIVEN, CAST IRON

1537 and 1540 Models



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

FEATURES

- ◆ Honda® engine
- ◆ Close-coupled, gas engine-driven
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: cast iron
- ◆ Impeller: Nylon
- ◆ Pump seals: Viton/ceramic standard; Life Guard silicon carbide available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Weight: 53 lbs./24.1 kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Engine Mfg. & HP
1537	110	416	80	5.5	1-1/2" x 1-1/4"	Honda® 5.5 HP
1540	Same as model 1537 without mounting base					
1538*	1-1/2" x 1-1/4" centrifugal pump kit. DOES NOT include engine. (must use 5/8" threaded shaft engine)					
3430-0332	Seal and o-ring repair kit					
3420-0589	Life Guard silicon carbide seal kit					

* Must use 5/8" threaded shaft engine.

1537, 1540

U.S. UNITS

GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI	GPM at 70 PSI
110	106	96	88	80	60	30

1537, 1540

METRIC UNITS

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 4.1 BAR	LPM at 4.8 BAR
416	401	363	333	303	227	114

GAS ENGINE-DRIVEN, CAST IRON, SELF-PRIMING

CENTRIGUAL PUMPS

1536-SP Models



UPGRADE OPTIONS

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

FEATURES

- ◆ Briggs & Stratton® engine
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: cast iron
- ◆ Impeller: Nylon
- ◆ Pump seals: Viton®/ceramic standard; Life Guard silicon carbide available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Fill Port 3/4" NPT
- ◆ Weight: 72 lbs./32.7 kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Engine Mfg. & HP
1536-SP	100	379	65	4.5	2" x 2"	Briggs & Stratton® 5.5 HP
1538-SP*	2" x 2" centrifugal pump kit. DOES NOT include engine. (must use 5/8" threaded shaft engine)					
3430-0332	Seal kit standard					
3430-0589	Life Guard silicon carbide seal kit					

* Must use 5/8" threaded shaft engine.

1536-SP

U.S. UNITS					
GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI
92	81	67	55	40	15

1536-SP

METRIC UNITS					
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 4.1 BAR
348	307	254	208	151	57

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GAS ENGINE-DRIVEN, CAST IRON, SELF-PRIMING

1537-SP Models



UPGRADE OPTIONS

- Increase dry-run and abrasive resistance with Life Guard Seals
 - Life Guard seals are the OEM standard

FEATURES

- ◆ Honda® engine
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: cast iron
- ◆ Impeller: Nylon
- ◆ Pump seals: Viton/ceramic standard; Life Guard silicon carbide available
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Fill Port 3/4" NPT
- ◆ Weight: 78 lbs./35 kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Engine Mfg. & HP
1537-SP	106	401	75	5.2	2" x 2"	Honda® 5.5 HP
1538-SP*	2" x 2" centrifugal pump kit. DOES NOT include engine. (must use 5/8" threaded shaft engine)					
3430-0332	Seal kit standard					
3430-0589	Life Guard silicon carbide seal kit					

* Must use 5/8" threaded shaft engine.

1537-SP

U.S. UNITS					
GPM at 10 PSI	GPM at 20 PSI	GPM at 30 PSI	GPM at 40 PSI	GPM at 50 PSI	GPM at 60 PSI
98	87	73	60	44	21

1537-SP

METRIC UNITS					
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 4.1 BAR
371	329	276	227	167	79

1550 Series



FEATURES

- ◆ Honda® engine
- ◆ Close-coupled, gas engine-driven
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: cast iron
- ◆ Pump seals: Viton®/ceramic
- ◆ Impeller: Nylon
- ◆ Weight: 105 lbs./47.7 kg; SP and BSP: 125 lbs./56.8 kg

ORDERING INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Engine Mfg. & HP	Self Priming
1550	150	568	140	9.7	2" x 1-1/2"	Honda 9 HP	No
1550-SP	155	587	135	9.3	2" x 2"	Honda 9 HP	Yes
1550-BSP†	155	587	135	9.3	2" x 2"	Honda 9 HP	Yes
1551*	2" x 1-1/2" centrifugal pump kit. DOES NOT include engine. (must use 1" threaded shaft engine)						
1551-SP*	2" x 2" centrifugal pump kit. DOES NOT include engine. (must use 1" threaded shaft engine)						
3430-0464	Seal, o-ring, and gasket repair kit						
3430-0779	Life Guard silicon carbide seal kit						

* Must use 1" threaded shaft engine. † BSP Threads

1550

U.S. UNITS

GPM at 20 PSI	GPM at 40 PSI	GPM at 60 PSI	GPM at 80 PSI	GPM at 100 PSI	GPM at 120 PSI	GPM at 140 PSI
145	130	107	87	69	45	16

1550

METRIC UNITS

LPM at 1.4 BAR	LPM at 2.8 BAR	LPM at 4.1 BAR	LPM at 5.5 BAR	LPM at 6.9 BAR	LPM at 8.3 BAR	LPM at 9.7 BAR
549	492	405	329	261	170	61

1550-SP, 1550-BSP

U.S. UNITS

GPM at 10 PSI	GPM at 20 PSI	GPM at 40 PSI	GPM at 60 PSI	GPM at 80 PSI	GPM at 100 PSI	GPM at 120 PSI
145	141	118	93	71	49	28

1550-SP, 1550-BSP

METRIC UNITS

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 4.1 BAR	LPM at 4.8 BAR
549	534	447	352	269	185	106

STANDARD

Industry tested and proven



COMMON USES

Less demanding applications; minimal dry run or abrasive solution

HOW IT WORKS

Mechanical seals depend on their seal face conditions of flatness and finish to maintain their sealing function while allowing the shaft to rotate. A spring ensures the seal faces stay in contact to prevent leaking. Elastomers are mated with adjacent shaft and housing components to complete the sealing system.

MATERIAL

Carbon on Ceramic

PRO

- ◆ Dependable life when protected from dry run and abrasives
- ◆ Least expensive option

CON

- ◆ Minimal dry run resistance
- ◆ Limited service life in abrasive solutions
- ◆ Susceptible to chemical & fertilizer bonding failures

LIFE GUARD

The OEM standard



COMMON USES

Suited for broad spraying applications including abrasive solutions

ADVANTAGES OVER STANDARD

The hardness of Silicon Carbide approaches that of diamond and allows the seal to have outstanding service life when pumping abrasive solutions. Carbon graphite flakes are embedded into the silicon carbide faces to increase lubricity and provide survivability against incidental dry run and thermal shock.

MATERIAL

Silicon Carbide

PRO

- ◆ Extended service life in abrasive solutions
- ◆ Enhanced dry run resistance
- ◆ Drop-in replacement for standard seal

CON

- ◆ Does not eliminate dry run failure
- ◆ Susceptible to chemical & fertilizer bonding failures
- ◆ Increased cost

FORCEFIELD TECHNOLOGY

The premium choice



COMMON USES

Applications where downtime must be avoided.

ADVANTAGES OVER LIFE GUARD

ForceField wet seal technology protects seals by using a barrier fluid to keep them cool and lubricated, even while the pump is running dry. ForceField technology actively maintains a positive pressure differential between the chamber barrier fluid and the pumping solution, which prevents chemical bonding of the seal faces. The result is increased life and maintenance free operation.

MATERIAL

Carbon on Silicon

PRO

- ◆ Eliminates dry run failure
- ◆ Prevent chemical & fertilizer bonding failures
- ◆ Maintenance-free operation
- ◆ Warranted for one full year

CON

- ◆ Increased cost

LIFE GUARD SILICON CARBIDE PUMP SEALS

CENTRIGUAL PUMPS

Specially designed to prolong seal life



The drawing to the right represents a cross sectional view of a Life Guard Premium Silicon Carbide Seal (top) and a standard seal (bottom). There are three key differences shown in the drawing: material, mating rings and balance.

MATERIAL:

The Life Guard seal utilizes silicon carbide (SiC) for its seal surfaces (primary ring and mating ring). This is more abrasion resistant than the carbon graphite and ceramic used in standard seals. SiC also runs cooler if the pump is run dry, improving the life of the seal.

MATING RINGS:

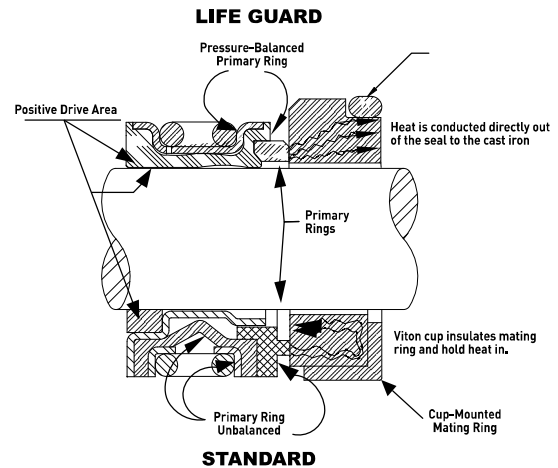
The O-ring style of the Life Guard seal mating ring allows heat to dissipate into the pump casting. This keeps the seal at a lower temperature and dramatically improves the chances of the seal to survive a dry-run episode.

BALANCE:

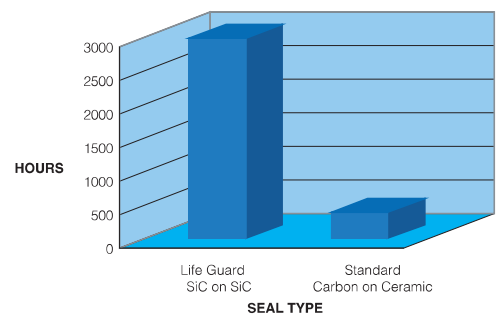
The bellows and primary ring of the Life Guard seal are pressure balanced. This results in cooler operation at higher pressures.

Life Guard silicon carbide seals are available in the following models: Pedestal mount, Flange mount, Clutch-driven, Hydraulically-driven, Belt-driven, and Gas Engine-driven.

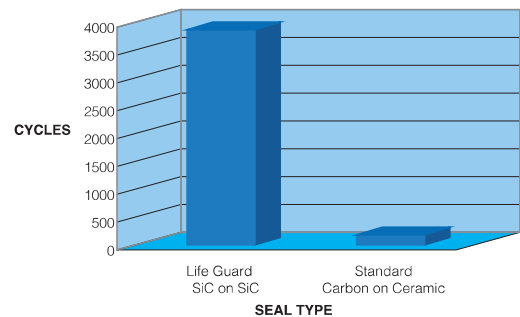
SIDE BY SIDE COMPARISON



LIFE TEST IN ABRASIVE SOLUTION



DRY-RUN SURVIVABILITY (5 MINUTES/CYCLE)



LIFE GUARD SILICON CARBIDE SEAL KITS

Part Number	Pump Series/Model #	Size		Description	Estimated Weight Ea.
		US	Metric		
3430-0589	9200, 9300 and 9400 Cast and Stainless	5/8"	15.9 mm	Mechanical seal and o-ring	4 oz./114 g
3430-0593	9303P	5/8"	15.9 mm	Mechanical seal, o-ring, gasket and washer for under acorn nut	4 oz./114 g
3430-0601	9305C and 9305C-SP	5/8"	15.9 mm	Mechanical seal and o-ring	4 oz./114 g
3430-0590	All Poly Models	3/4"	19 mm	Mechanical seal, o-ring, gasket and washer for under acorn nut	4 oz./114 g
3430-0604	9307 Series	1-3/8"	35 mm	Mechanical seal, o-ring and gasket	4 oz./114 g
3430-0646	9205 Models	3/4"	19 mm	Mechanical seal and o-ring	4 oz./114 g
3430-0591	9000C-O and 9000C-O-SP	3/4"	19 mm	Mechanical seal and o-ring	4 oz./114 g

SELF-PRIMING ADAPTOR (SPA)

CENTRIGUAL PUMPS

Provides Fast Self-Priming for Closed Impeller Centrifugal Pumps



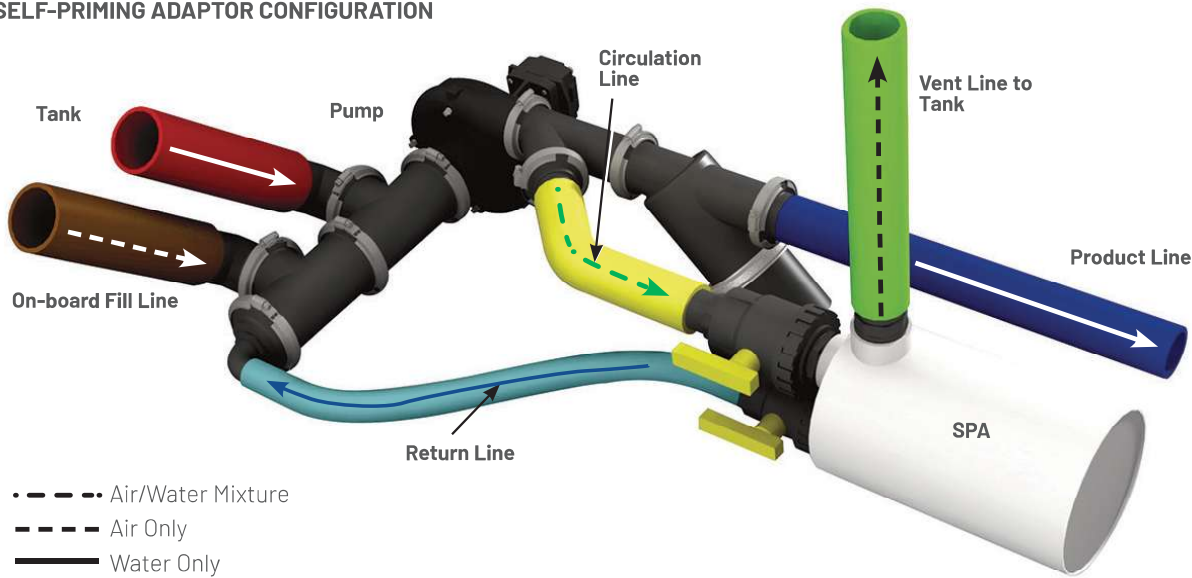
FEATURES

- ◆ Creates self-priming capability for all standard centrifugal pump models
- ◆ Increases priming efficiency over open impeller transfer pumps and self-priming centrifugal pumps
- ◆ Allows the use of a single, high efficiency pump for both tank filling and spraying
- ◆ Constructed out of 304 stainless steel for corrosion resistance
- ◆ Protects the pump's mechanical seal from dry-run during priming operations for on-board loading
- ◆ Guards against unexpected dry-run conditions during spraying application, if system were to function automatically
- ◆ Allows centrifugal pumps to be mounted in tight-fitting configurations while maintaining priming and flow performance capabilities
- ◆ SPA can be mounted in nearby remote location up to 10 ft (3 m) from pump

ORDERING INFORMATION

Model Number	Description
1530-0024S	2" NPT Self-Priming Adaptor
1530-0028S	2" NPT High Volume Self-Priming Adaptor
3430-0700	Mounting Kit

SELF-PRIMING ADAPTOR CONFIGURATION



HOW THE SELF-PRIMING ADAPTOR WORKS

To facilitate pump priming, liquid is circulated through the pump and eye of the impeller. The attached Self-Priming Adaptor (SPA) stores an initial amount of liquid for the priming operation. The SPA, when activated with two ball valves, separates the air from the liquid being circulated and releases it back to the atmosphere through the vent line. Only liquid returns back to the pump inlet, thereby eliminating the inlet suction line of air. Once the pump is primed, pump pressure and flow increases. Flow is directed to the tank. The operator then closes the two ball valves, shutting off the circulation path between the pump and SPA.

FORCEFIELD REPLACEMENT FLUID

Part Number	Description
2160-0096	Replacement fluid (pre-mixed) for ForceField seal chamber- 23oz.



HYDRAULIC PORT ADAPTERS

Part Number	Description
3360-0021A	1/2" NPT Pressure Port Adapter
3430-0187	1/2" NPT Pressure Port Adapter with metering orifices
3320-0051A	3/4" NPT Tank Port Adapter
3320-0052A	SAE-10 (o-ring) Tank Port Adapter
3360-0023A	SAE-10 (o-ring) Pressure Port Adapter
3320-0077	M30x2.0 Pressure Port Adapter
3360-0027	M30x2.0 Tank Port Adapter



12 VOLT CLUTCH

Part Number	Shaft Size	Pulley Type	Max. HP	Max. RPM	Max. AMPS @ 12V	Pump Model	Est. Weight Ea.
2526-0011	7/8" (19 mm)	5.25" (140 mm)-A	30	5000	4.85	9203P-S, 9253P-C, 9205C, 9205C-SP	8 lbs./3.6kg
3430-0592	5/8" (15.9 mm)	5.00" (125 mm) Double Groove-A	30	5000	3.75	9202C, 9203C, 9206C, 9203C-R, 9262C-C, 9263C-C, 9263C-CR, 9203C-SP, 9263S-C, 9263S-CR, 9263C-C-SP	9 lbs./4.1kg



VENT LINE KIT

Part Number	Description	Est. Weight Ea.
3430-0456	Vent line kit with 25' (6.3 m) long, 1/4" ID vinyl hose, 1/8" NPT x 1/4" HB 90° nylon elbow fitting, 1/8" NPT x 1/4" HB straight polypropylene fitting, plastic hose clamp and plastic cable tie. Works with all Hypro centrifugals.	14 oz./397g
3430-0797	Push-to-connect vent line kit with 25' (6.3 m) long, 1/4" polyethylene tubing, 1/8" MNPT x 1/4" push-to-connect straight, 1/8" MNPT x 1/4" push-to-connect 90° elbow, and plastic cable ties. Works with all Hypro centrifugal pumps.	14 oz./397g



PTO MOUNTING CLIPS

Part Number	Pump Series	Est. Weight Ea.
1520-0034	9000C-0 (not for 9040 Series)	4 lbs./1.8 kg



CENTRIFUGAL PUMP REPAIR TOOLS

Part Number	Pump Series	Description
3010-0061	9000	Main bearing support tool
3010-0064	9000, 9200, 9300	Support bar/sleeve extractor
3010-0066	9200, 9300	Wire brush
3010-0067	9200, 9300	Wire brush holder
3010-0168	9000, 9200, 9300	Tool box
3020-0008	9300	Allen wrench; 1/4" hex
3020-0009	9200, 9300	Allen wrench; 1/16" hex