

Hydraulically-Driven, Cast Iron & Stainless Steel

Series 9303C and 9303S



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
 - Fact: 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
- 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
- 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® and case drain available
- Max. motor psi: 3000 (bar: 207)
- Stainless steel models now available with universal flanges
- Weight: 26 lbs./11.8 kg

For Flanged Connections You Will Also Need:

- Universal Flange Gasket
- Universal Flange Clamp

See page 252 for details

Order 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)

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Viton® is a registered trademark of DuPont. Hypro® is a registered trademark of Pentair.

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-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

Hydraulically-Driven, Cast Iron & Stainless Steel, Self-Priming

Series 9303C-SP and 9303S-SP



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
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 - 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® and case drain available
- Weight: 38 lbs./17.3 kg

Order 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	24	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	115	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]

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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

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
13	114	111	102	89	75	58	42	25			
14	118	117	113	104	94	81	69	55	39	24	
15	122	121	119	111	102	90	78	65	52	39	26

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

Hydraulically-Driven, Polypropylene

Series 9303P



Upgrade Options:

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

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® and case drain available
- Max. motor psi: 3000 (bar: 207)
- Weight: 21 lbs./9.5 kg

Order 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-HM3C	110	416	93	6.4	24	90.8	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)

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