

Pistons

OLEC's pistons are made to exact tolerances and include a variety of extended wear materials yielding excellent service life. Piston has single action, double action, single action vulcanization and double action vulcanization piston, which has A, K, B & L type. Outer round is determined based on the liner bore, it has 3" to 8" and piston has 1", 1-1/2", 1-5/8". Metric size it has 100mm to 220mm.

Assemble pistons it has Buna-N Rubber and Urethane



Bonded pistons it has Urethane and Polyurethane. Has Dual Duro and Dual-Hardness Patriot style.



Double action piston has
 API-1# 3"~5"
 API-3# 3"~7.5"
 API-4# 4.5"~8"
 API-5# 4.5"~8"
 API-6# 5"~8"



Package of Piston Assembly
 With its Sleeve & Seal



Other special material of piston, suitable for high temperature resistant, low temperature resistant, high pressure resistance, oil resistance, etc.



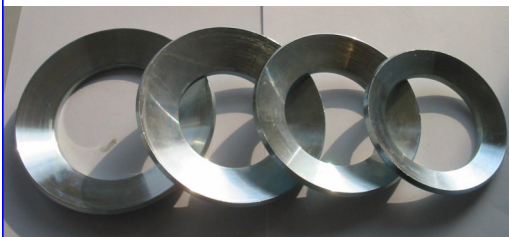
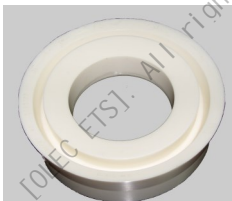
Piston Hub, the material used is ASTM5140. the premium forged steel. heat treatment process and CNC machined to meet the requirements of the standard.



Piston Replacement Rubbers
 Piston Rubber Kit
 Buna-N Rubber
 Polyurethane Rubber



Plate & Snap Ring, Plate material used is ASTM1020 steel, Material of snap used is ASTM1066 steel. it is divided into A、K、B、L type.



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OLEC's Pistons Function

Pistons	Supreme Packaging	Orange Bonded	Blue Bonded	Green Bonded	White Packaging	Dual-Hardness Bonded	LCdrogenated nitrile rubber
Material	AISI5140 Buna-N Rubber	AISI5140 Urethane	AISI5140 Polyurethane	AISI5140 Urethane	AISI5140 Polyurethane	AISI5140 Dual Urethane	AISI5140 LCdrogenated nitrile rubber
Hardness	HB285~341 85±5	HB285~341 90±5	HB285~341 90±5	HB285~341 90±5	HB285~341 90±5	HB285~341 90±5	HB285~341 90±5
Normal Service Life Time (Hr)	200	600	1000	1000	1000	1000	600
Operating Pressure (Max. psi)	5000	7500	7500	7500	7500	7500	7500
Temperature	C° -20~110	C° -20~110	C° -40~100	C° -20~110	C° -20~120	C° -20~120	C° -50~160

Pistons List For Single Action Triplex Pump

Size	Supreme Packaging	Orange Bonded	Blue Bonded	Green Bonded	White Packaging	Dual-Hardness Bonded	LCdrogenated Nitrile rubber	Replacement			
								Packaging Piston Hub	Supreme Rubbers	White Rubbers	Bonded Piston Hub
4"	LC-SP40-00	LC-OB40-00	LC-BB40-00	LC-GB40-00	LC-WP40-00	LC-DB40-00	LC-HN40-00	LC-PH40	LC-SR40-00	LC-WR40-00	LC-BP40
4-1/2"	LC-SP44-00	LC-OB44-00	LC-BB44-00	LC-GB44-00	LC-WP44-00	LC-DB44-00	LC-HN44-00	LC-PH44	LC-SR44-00	LC-WR44-00	LC-BP44
5"	LC-SP50-00	LC-OB50-00	LC-BB50-00	LC-GB50-00	LC-WP50-00	LC-DB50-00	LC-HN50-00	LC-PH50	LC-SR50-00	LC-WR50-00	LC-BP50
5-1/2"	LC-SP54-00	LC-OB54-00	LC-BB54-00	LC-GB54-00	LC-WP54-00	LC-DB54-00	LC-HN54-00	LC-PH54	LC-SR54-00	LC-WR54-00	LC-BP54
6"	LC-SP60-00	LC-OB60-00	LC-BB60-00	LC-GB60-00	LC-WP60-00	LC-DB60-00	LC-HN60-00	LC-PH60	LC-SR60-00	LC-WR60-00	LC-BP60
6-1/4"	LC-SP62-00	LC-OB62-00	LC-BB62-00	LC-GB62-00	LC-WP62-00	LC-DB62-00	LC-HN62-00	LC-PH62	LC-SR62-00	LC-WR62-00	LC-BP62
6-1/2"	LC-SP64-00	LC-OB64-00	LC-BB64-00	LC-GB64-00	LC-WP64-00	LC-DB64-00	LC-HN64-00	LC-PH64	LC-SR64-00	LC-WR64-00	LC-BP64
6-3/4"	LC-SP66-00	LC-OB66-00	LC-BB66-00	LC-GB66-00	LC-WP66-00	LC-DB66-00	LC-HN66-00	LC-PH66	LC-SR66-00	LC-WR66-00	LC-BP66
7"	LC-SP70-00	LC-OB70-00	LC-BB70-00	LC-GB70-00	LC-WP70-00	LC-DB70-00	LC-HN70-00	LC-PH70	LC-SR70-00	LC-WR70-00	LC-BP70
7-1/4"	LC-SP72-00	LC-OB72-00	LC-BB72-00	LC-GB72-00	LC-WP72-00	LC-DB72-00	LC-HN72-00	LC-PH72	LC-SR72-00	LC-WR72-00	LC-BP72
7-1/2"	LC-SP74-00	LC-OB74-00	LC-BB74-00	LC-GB74-00	LC-WP74-00	LC-DB74-00	LC-HN74-00	LC-PH74	LC-SR74-00	LC-WR74-00	LC-BP74
7-3/4"	LC-SP76-00	LC-OB76-00	LC-BB76-00	LC-GB76-00	LC-WP76-00	LC-DB76-00	LC-HN76-00	LC-PH76	LC-SR76-00	LC-WR76-00	LC-BP76
8"	LC-SP80-00	LC-OB80-00	LC-BB80-00	LC-GB80-00	LC-WP80-00	LC-DB80-00	LC-HN80-00	LC-PH80	LC-SR80-00	LC-WR80-00	LC-BP80

Pistons List For Double Action Duplex Pump

Type	API-1#			API-3#			API-4#			API-5#			API-6#		
	Assembly	Hub	Rubbers	Assembly	Hub	Rubbers	Assembly	Hub	Rubbers	Assembly	Hub	Rubbers	Assembly	Hub	Rubbers
3"	A1-30-00	A1-30	A1-30-01												
3-1/2"	A1-34-00	A1-34	A1-34-01												
4"	A1-40-00	A1-40	A1-40-01	A3-40-00	A3-40	A3-40-01	A4-40-00	A4-40	A4-40-01						
4-1/2"	A1-44-00	A1-44	A1-44-01	A3-44-00	A3-44	A3-44-01	A4-44-00	A4-44	A4-44-01	A5-44-00	A5-44	A5-44-01	A6-44-00	A6-44	A6-44-01
5"	A1-50-00	A1-50	A1-50-01	A3-50-00	A3-50	A3-50-01	A4-50-00	A4-50	A4-50-01	A5-50-00	A5-50	A5-50-01	A6-50-00	A6-50	A6-50-01
5-1/2"				A3-54-00	A3-54	A3-54-01	A4-54-00	A4-54	A4-54-01	A5-54-00	A5-54	A5-54-01	A6-54-00	A6-54	A6-54-01
6"				A3-60-00	A3-60	A3-60-01	A4-60-00	A4-60	A4-60-01	A5-60-00	A5-60	A5-60-01	A6-60-00	A6-60	A6-60-01
6-1/4"				A3-62-00	A3-62	A3-62-01	A4-62-00	A4-62	A4-62-01	A5-62-00	A5-62	A5-62-01	A6-62-00	A6-62	A6-62-01
6-1/2"				A3-64-00	A3-64	A3-64-01	A4-64-00	A4-64	A4-64-01	A5-64-00	A5-64	A5-64-01	A6-64-00	A6-64	A6-64-01
6-3/4"				A3-66-00	A3-66	A3-66-01	A4-66-00	A4-66	A4-66-01	A5-66-00	A5-66	A5-66-01	A6-66-00	A6-66	A6-66-01
7"				A3-70-00	A3-70	A3-70-01	A4-70-00	A4-70	A4-70-01	A5-70-00	A5-70	A5-70-01	A6-70-00	A6-70	A6-70-01
7-1/4"				A3-72-00	A3-72	A3-72-01	A4-72-00	A4-72	A4-72-01	A5-72-00	A5-72	A5-72-01	A6-72-00	A6-72	A6-72-01
7-1/2"				A3-74-00	A3-74	A3-74-01	A4-74-00	A4-74	A4-74-01	A5-74-00	A5-74	A5-74-01	A6-74-00	A6-74	A6-74-01
7-3/4"				A3-76-00	A3-76	A3-76-01	A4-76-00	A4-76	A4-76-01	A5-76-00	A5-76	A5-76-01	A6-76-00	A6-76	A6-76-01
8"										A5-80-00	A5-80	A5-80-01	A6-80-00	A6-80	A6-80-01



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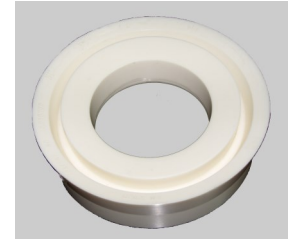
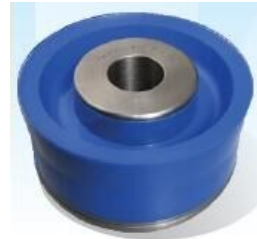
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High pressure resistant, high temperature resistant, low temperature resistant Piston

HTHP piston manufactured by OLEC is designed according to the drilling conditions of high pressure resistance, high temperature resistance and low temperature resistance, It can work normally under the most severe environment with drilling pressure up to 7500PSI and temperature between -40 and 150 °C. It also has the functions of oil resistance, acid resistance and alkali resistance, etc. It is suitable for high pressure resistance, high temperature resistance, low temperature resistance and oil-based mud working conditions. All performances and prices are better than HNBR. Under normal working conditions, the HTHP piston has a longer service life.

OLEC can provide single-acting and double-acting assembled and integral vulcanization series. It is available in metric and imperial specifications. The rubber color can be manufactured according to user requirements.



SIZE	Supreme Packaging	Dual-Hardness Bonded	Replacement			
			Packaging Piston Hub	Supreme Rubbers	Supreme Rubbers Kit	Bonded Piston Hub
4"	LC-NTSP40-00	LC-NTDB40-00	LC-PH40	LC-NTSR40-00	LC-NTKT40-00	LC-BP40
4-1/2"	LC-NTSP44-00	LC-NTDB44-00	LC-PH44	LC-NTSR44-00	LC-NTKT44-00	LC-BP44
5"	LC-NTSP50-00	LC-NTDB50-00	LC-PH50	LC-NTSR50-00	LC-NTKT50-00	LC-BP50
5-1/2"	LC-NTSP54-00	LC-NTDB54-00	LC-PH54	LC-NTSR54-00	LC-NTKT54-00	LC-BP54
6"	LC-NTSP60-00	LC-NTDB60-00	LC-PH60	LC-NTSR60-00	LC-NTKT60-00	LC-BP60
6-1/4"	LC-NTSP62-00	LC-NTDB62-00	LC-PH62	LC-NTSR62-00	LC-NTKT62-00	LC-BP62
6-1/2"	LC-NTSP64-00	LC-DNTB64-00	LC-PH64	LC-NTSR64-00	LC-NTKT64-00	LC-BP64
6-3/4"	LC-NTSP66-00	LC-DNTB66-00	LC-PH66	LC-NTSR66-00	LC-NTKT66-00	LC-BP66
7"	LC-NTSP70-00	LC-NTDB70-00	LC-PH70	LC-NTSR70-00	LC-NTKT70-00	LC-BP70
7-1/4"	LC-NTSP72-00	LC-NTDB72-00	LC-PH72	LC-NTSR72-00	LC-NTKT72-00	LC-BP72
7-1/2"	LC-NTSP74-00	LC-NTDB74-00	LC-PH74	LC-NTSR74-00	LC-NTKT74-00	LC-BP74
7-3/4"	LC-NTSP76-00	LC-NTDB76-00	LC-PH76	LC-NTSR76-00	LC-NTKT76-00	LC-BP76
8"	LC-NTSP80-00	LC-NTDB80-00	LC-PH80	LC-NTSR80-00	LC-NTKT80-00	LC-BP80
Φ100	LC-NTSP10-00	LC-NTDB10-00	LC-PH10	LC-NTSR10-00	LC-NTKT10-00	LC-BP10
Φ110	LC-NTSP11-00	LC-NTDB11-00	LC-PH11	LC-NTSR11-00	LC-NTKT11-00	LC-BP11
Φ120	LC-NTSP12-00	LC-NTDB12-00	LC-PH12	LC-NTSR12-00	LC-NTKT12-00	LC-BP12
Φ130	LC-NTSP13-00	LC-NTDB13-00	LC-PH13	LC-NTSR13-00	LC-NTKT13-00	LC-BP13
Φ140	LC-NTSP14-00	LC-NTDB14-00	LC-PH14	LC-NTSR14-00	LC-NTKT14-00	LC-BP14
Φ150	LC-NTSP15-00	LC-NTDB15-00	LC-PH15	LC-NTSR15-00	LC-NTKT15-00	LC-BP15
Φ160	LC-NTSP16-00	LC-NTDB16-00	LC-PH16	LC-NTSR16-00	LC-NTKT16-00	LC-BP16
Φ170	LC-NTSP17-00	LC-NTDB17-00	LC-PH17	LC-NTSR17-00	LC-NTKT17-00	LC-BP17
Φ180	LC-NTSP18-00	LC-NTDB18-00	LC-PH18	LC-NTSR18-00	LC-NTKT18-00	LC-BP18
Φ190	LC-NTSP19-00	LC-NTDB19-00	LC-PH19	LC-NTSR19-00	LC-NTKT19-00	LC-BP19
Φ200	LC-NTSP20-00	LC-NTDB20-00	LC-PH20	LC-NTSR20-00	LC-NTKT20-00	LC-BP20