

MATERIALS of CONSTRUCTION**Models****NG082C, NG162C, NG172C
NGS082C, NGS162C, NGS172C**

	Standard	Optional
Cylinder, Head, Valve Cap	Ductile Iron, ASTM A536	
Crosshead Guide	Ductile Iron, ASTM A536	
Connecting Rod	Ductile Iron, ASTM A536	
Crosshead, Valve Cage	Gray Iron, ASTM A48	
Crankshaft	Ductile Iron, ASTM A536	
Pistons	Steel, 1215	
Crankcase, Flywheel Bearing Carrier	Gray Iron ASTM A48	
Valve Seats & Bumpers	Steel, TNT-12 Treated	
Valve Plates and Valve Springs	Stainless Steel	
Piston Rods	Steel, Nitride to 22 Rc	
Packing Box	Steel, 1018	
Wrist Pin	Hardened Steel	
Piston Rings (NG)	Glass & Moly Filled PTFE	
Piston Rings (NGS)	Carbon Filled PTFE	
Piston Ring Expanders	Stainless Steel	
Rod Packing	PTFE V-Rings	
Bearings, Crank	Steel, Tapered Roller	
Bearings, Rod	Babbitt Lined Steel Backed	
Bearing, Wrist Pin	Steel Needle Bearing	
Metal Gaskets	Steel, ASTM A620	
Other Gaskets	Fiber	
O-rings	FKM	

Models
**NG362E, NG372C
NGS362E, NGS372C**

	Standard	Optional
Cylinder, Head, Valve Cap, Valve Cage & Valve Cover Plate	Ductile Iron, ASTM A536	
Crosshead Guide	Ductile Iron, ASTM A536	
Connecting Rod	Ductile Iron, ASTM A536	
Crosshead	Gray Iron, ASTM A48	
Crankshaft	Ductile Iron, ASTM A536	
Pistons	Steel, 1215	
Crankcase	Gray Iron, ASTM A48	
Flywheel, Bearing Carrier	Gray Iron, ASTM A48	
Valve Seats & Bumpers	Ductile Iron	
Valve Plates	PEEK (Poly Ether Ether Ketone)	
Valve Springs	Stainless Steel	
Piston Rods	Steel, Nitride to 22 Rc	
Packing Box	Steel, 1018	
Wrist Pin	Hardened Steel	
Piston Rings (NG372C, NGS362E, NGS372C)	Glass & Moly Filled PTFE	
Piston Rings (NG362E)	Carbon Filled PTFE	
Piston Ring Expanders	Stainless Steel	
Rod Packing	PTFE V-Rings	
Bearings, Crank	Steel, Tapered Roller	
Bearings, Rod	Babbitt Lined Steel Backed	
Bearing, Wrist Pin	Steel, Needle Bearing	
Valve Gaskets	Steel, ASTM A620	
Other Gaskets	Fiber	
O-rings	FKM	
Suction Valve Unloader Body, Piston, and Plunger	Stainless Steel	

MODELS
**NG602E, NG642E, NG612C
NGS602E, NGS642E, NGS612C**

	Standard	Optional
Cylinder, Head, Valve Cap, Valve Cage & Valve Cover Plate	Ductile Iron, ASTM A536	
Crosshead Guide	Ductile Iron, ASTM A536	
Connecting Rod	Ductile Iron, ASTM A536	
Crosshead	Gray Iron, ASTM A48	
Crankshaft	Ductile Iron, ASTM A536	
Pistons	Steel, 1215	
Crankcase	Gray Iron, ASTM A48	
Flywheel, Bearing Carrier	Gray Iron, ASTM A48	
Valves	Ductile Iron w/PEEK	Stainless Steel w/ PEEK plates and Stainless Steel Springs
Piston Rods	Steel, Nitride to 22 Rc	
Packing Box, Seal Cup	Steel, 1018	
Wrist Pin	Hardened Steel	
Piston Rings (NG642E, NG612C, NGS602E, NGS642E, NGS612C)	Glass & Moly Filled PTFE	
Piston Rings (NG602E)	Carbon Filled PTFE	
Piston Ring Expanders	Stainless Steel	
Rod Packing	PTFE V-Rings	
Bearings, Crank	Steel Tapered Roller	
Bearings, Rod	Babbitt Lined Steel Backed	
Bearing, Wrist Pin	Steel Needle Bearing	
Valve Gaskets	Steel, ASTM A620	
Other Gaskets	Fiber	
O-rings	FKM	
Suction Valve Unloader Body, Piston, and Plunger	Stainless Steel	

MODELS

NG942B

NGS942B

	Standard	Optional
Cylinder, Head, Piston, Valve Cage, Valve Cover Plate, Valve Cap	Ductile Iron, ASTM A536	
Crosshead Guide	Ductile Iron, ASTM A536	
Connecting Rod	Ductile Iron, ASTM A536	
Crosshead	Gray Iron, ASTM A48	
Crankshaft	Ductile Iron, ASTM A536	
Crankcase	Gray Iron, ASTM A48	
Flywheel, Bearing Carrier	Gray Iron ASTM A48	
Valves	Ductile Iron w/PEEK	Stainless Steel w/ PEEK plates and Stainless Steel Springs
Piston Rods	Steel, Nitride to 22 Rc	
Packing Box, Packing Cup, Packing Gland	Steel, 1018	
Wrist Pin	Hardened Steel	
Piston Rings	Glass & Moly Filled PTFE	
Piston Ring Expanders	Stainless Steel	
Rod Packing	PTFE	
Bearings, Crank	Steel Tapered Roller	
Bearings, Rod	Babbitt Lined Steel Backed	
Bearing, Wrist Pin	Steel Needle Bearing	
Valve Gaskets	Steel, ASTM A620	
Other Gaskets	Fiber	
O-rings	FKM	
Suction Valve Unloader Body, Piston, and Plunger	Stainless Steel	

CONNECTION SIZES and TYPES

All Connections are Flange Type except those marked 'Tapped'

Model		Standard	Optional
NG082C, NG162C NGS082C, NGS162C	Inlet/Outlet	3/4" NPT, tapped	
NG362E	Inlet/Outlet	1-1/4" NPT, tapped	1-1/2" NPT, tapped 1-1/4" Weld 1-1/2" Weld
NGS362E	Inlet/Outlet	1-1/2" ANSI 300#	
NG602E NG642E	Inlet/Outlet	2" NPT, tapped	1-1/2" NPT, tapped 1-1/2" Weld 2" Weld
NGS602E	Inlet/Outlet	2" ANSI 300#	
NGS642E	Outlet	2" ANSI 300#	
NG942B NGS942B	Inlet/Outlet	2" ANSI 300#	
NG172C NGS172C	Inlet, Stage 1 Outlet, Stage 2	3/4" NPT, tapped 3/4" NPT, tapped	
NG372C NGS372C	Inlet, Stage 1 Outlet, Stage 2	1-1/4" NPT, tapped 1" NPT, tapped	
NG612C NGS612C	Inlet, Stage 1 Outlet, Stage 1 Inlet, Stage 2 Outlet, Stage 2	DI*, 2" NPT Steel ASTM A36, 1" NPT DI*, 1-1/2" NPT	

* DI = Ductile Iron, ASTM A536, 65-45-12



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