

Goulds Centrifugal Pump Model 3196

Mfg: Goulds

Model: 3196

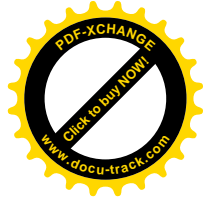
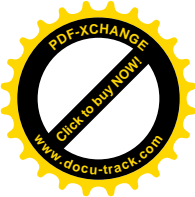
Stock No. NPPC150.

Serial No. 709E618

Goulds Centrifugal Pump.

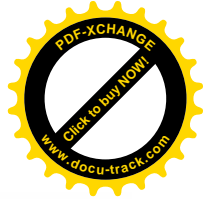
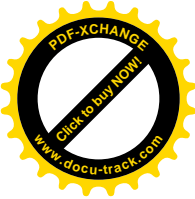
- Model 3196
- S/N 709E618.
- Outlet 2 in., Inlet 3 in.
- Impeller 10 in.
- Leland Faraday Motor. Model LF1-9050C. 5 hp, 208-230/460 volt, 13/6.5 amps, 60 Hz, 3 phase, 1,750 rpm.
- Overall dimensions: 14 in. W, 45 in. L, 21 in. H.





PARTS LIST WITH MATERIALS

Item	Qty per Pump	Part Name	3196, CV 3196, HT 3196, 3796				
			All D.I.	D.I. w/ 316SS Impeller	All 316SS	Al CD4MCu	All Alloy 20
100	1	Casing	1012				
101	1	Impeller	1013				
105	1	Lantern Ring					Teflon®
106	1 Set	Stuffing Box Packing					Non-Asbestos Braid
107	1	Gland—Packed Box		1203			1204
108	1	Frame Adapter			1013		
109C	1 X	Outboard Bearing End Cover			1001		
112A	1	Outboard Bearing			Double row angular contact (duplex pair for LTX)		
113	2	Plug—Grease Relief			2210		
113B	1	Plug—Oil Fill			2210		
122	1	Shaft—Less Sleeve	▲		2229		2230
122	1	Shaft—With Sleeve			2238		
126	1	Shaft Sleeve			2229		2230
134	1	Bearing Housing			1001		
136	1	Bearing Locknut			Steel		
168A	1	Radial Bearing			Single Row Ball		
184	1	Seal Chamber/Stuffing Box Cover	1012	1012	1203	1216	1204
193	2	Grease Fitting			Steel		
228	1	Bearing Frame			STX All Others - 1001		
236A	10	Cap Screw—Bearing Clamp Ring			2210		
241	1	Frame Foot			1001		
248	1	Oil Thrower			2210		
250	1	Gland—Mechanical Seal			Material Varies		
253B	1	Bearing Clamp Ring			2210		
319	1	Sight Glass			Glass/Steel		
332A	1	Outboard Labyrinth Seal w/O-rings			Brass ASTM B505-96		
333A	1	Inboard Labyrinth Seal w/O-rings			Brass ASTM B505-96		
351	1	Casing Gasket			Aramid Fiber w/EPDM		
353	4	Gland Stud			2228		
355	4	Gland Stud Nut			2228		
358	1	Plug—Casing Drain	2210		2229		2230
358Y	1 X	Plug, Impeller		2229			2230
360C	1 X	Gasket—Thrust End Cover			Vellumoid		
360D	1	Gasket—Frame-to-Adapter			Vellumoid		
360Q	1	Gasket—Gland-to-Stuffing Box Cover			Material Varies		
361A	1	Retaining Ring			Steel		
370	★	Bolt—Adapter to Case	2210			2228	
370B	4	Bolt—Frame-to-Adapter			2210		
370C	★	Clamp Bolt—Bearing Housing			2210		
370D	★	Jack Bolt—Bearing Housing			2210		
370F	2	Bolt—Frame Foot to Frame			2210		
370H	2	Stud—Stuffing Box Cover-to-Adapter			2228		
371C	6 X	Cap Screw-End Cover to Bearing Housing			2210		
382	1	Bearing Lockwasher			Steel		
383	1	Mechanical Seal			Material Varies		
400	1	Coupling Key			2210		
408A	1	Plug—Oil Drane			2210		
408H	4	Plug—Oil Mist Connection			2210		
408J	1	Plug—Oiler			2210		
408L	1	Plug—Oil Cooler Inlet			2210		
408M	1	Plug—Oil Cooler Outlet			2210		
408N	1	Plug—Sight Glass			2210		
418	3	Jack Bolt—Adapter-to-Case			2228		
423	3	Jam Nut—Bearing Housing Jack Bolt			2210		
423B	2	Hex Nut—Stuffing Box Cover to Adapter			2228		
428	1	Gasket, Plug			Teflon®		
458Y	1 X	Plug, Impeller		2229			2230
469B	2	Dowel Pin—Frame-to-Adapter			Steel		
494	1	Tube Element, Finned Cooled			304SS / Copper		
496	1	O-Ring Bearing Housing			Buna N		
412A	1	O-Ring—Impeller			Teflon®		
497F	1	O-Ring—Outboard Labyrinth Rotor			Viton		
497G	1	O-Ring—Outboard Labyrinth Stator			Viton		
497H	1	O-Ring—Inboard Labyrinth Rotor			Viton		
497J	1	O-Ring—Inboard Laybrinth Stator			Viton		
497L	1	O-Ring Internal (inboard)			Viton		
497N	1	O-Ring Internal (outboard)			Viton		
503	1 #	Adapter Ring			1013		
529	1	Lockwasher—Frame Foot-to-Bearing Frame			Steel		
555	1	Tube, Finned Cooling Assembly			304AA / Copper		
555A	1	Tube, Flg Male (Frame Cooling)			Brass		
555B	2	Connector, Thermocouple (Frame Cooling)			Brass		
555C	2	Elbow, Female (Frame Cooling)			Brass		
555D	1	Conn TC Sealed PWR			Cast Iron		



MATERIAL CROSS REFERENCE CHART

Material	Goulds Pumps Material Code	ASTM	DIN	ISO	JIS
Cast Iron	1001	A48 CLASS 20			
Ductile Iron	1012	A395 Gr60-40-18			
Ductile Iron	1013	A536 Gr60-42-10			
CD4MCu	1041	A744 CD4MCU			
Monel	1119	A494 GrM-35-1			
316SS	1203	A744 CF-8M	1.4408		G5121 (SC514)
Alloy 20	1204	A744CN-7M	1.4500		
317SS	1209	A744CG-8M	1.4448		
Hastelloy C	1215	A494 CW-6M			
CD4MCu	1216	A744CD4MCU	9.4460		
Hastelloy B	1217	A494 N-7M			
Titanium	1220	B367 GrC-3			
Nickel	1601	A494 GrCZ100			
Monel	2150	B164 UNS N04400			
Nickel	2155	B160 UNS N02200			
Titanium	2156	B348 Gr2			
Carbon Steel	2201	A576 Gr. 1018 and 1020			
Carbon Steel	2210	A108Gr1 211			
304SS	2228	A276 Type 304			
316SS	2229	A276 Type 316			
Alloy 20	2230	B473 (N08020)			
317SS	2232	A276			
4150 Steel	2237	A322Gr4 150			
4140 Steel	2238	A434Gr4 140			
4140 Steel	2239	A193 Gr. B7			
Alloy B-2	2247	B335 (N10665)			
Alloy C-276	2248	B574 (N10276)			
GMP-2000	6929	N/A			
PFA Lined Steel	6944	N/A			
PFA Lined 316SS	6947	N/A			
PFA Lined Ductile Iron	9639	N/A			

Fasteners/Plugs

Material	Goulds Pumps Material Code	ASTM
Carbon Steel	2210	A307Gr.B.
Stainless Steel	2228	F593Gr1
316 Stainless Steel	2229	F593Gr2



Model 3196 Cross Sectional

