



Goulds Model 3196 X-Series Chemical Process Pumps



Goulds Pumps



ITT Industries
Engineered for life

Options

Goulds offers users a variety of options to meet specific plant and process requirements.

Seal Flush Plans

All ANSI B73.1 seal flush and cooling plans are available to control emission levels and meet seal installation requirements. Goulds can also provide other special arrangements of user preference.



CPI PLAN 7311

By-pass flush lubricates single seal faces.



CPI PLAN 7353

Pressurized circulation lubricates double seal faces.

High and Low Temperature Capability

Options are readily available for high and low temperature applications or where pumpage temperature must be controlled.



HEAT JACKET

Economical clamp-on jacket provides practical method of heating or cooling the casing. Excellent heat transfer characteristics. Easy to install or remove for pump servicing.

JACKETED SEAL CHAMBER

Maintains proper temperature control of sealing environment. Ideal for maintaining temperature for services such as molten sulphur and polymerizing liquids. Available in BigBore™ and TaperBore™ designs.



BEARING FRAME FINNED COOLER

Directly cools oil for lower bearing operating temperature. Requires minimum cooling water. Corrosion resistant construction. Recommended for temperatures over 350° F (177° C) when using conventional oil. When synthetic oil is used, pump can run up to 450° F without cooling. Above 450° add for high temperature option.

HIGH TEMPERATURE FEATURES

For operation to 700° F (371° C)

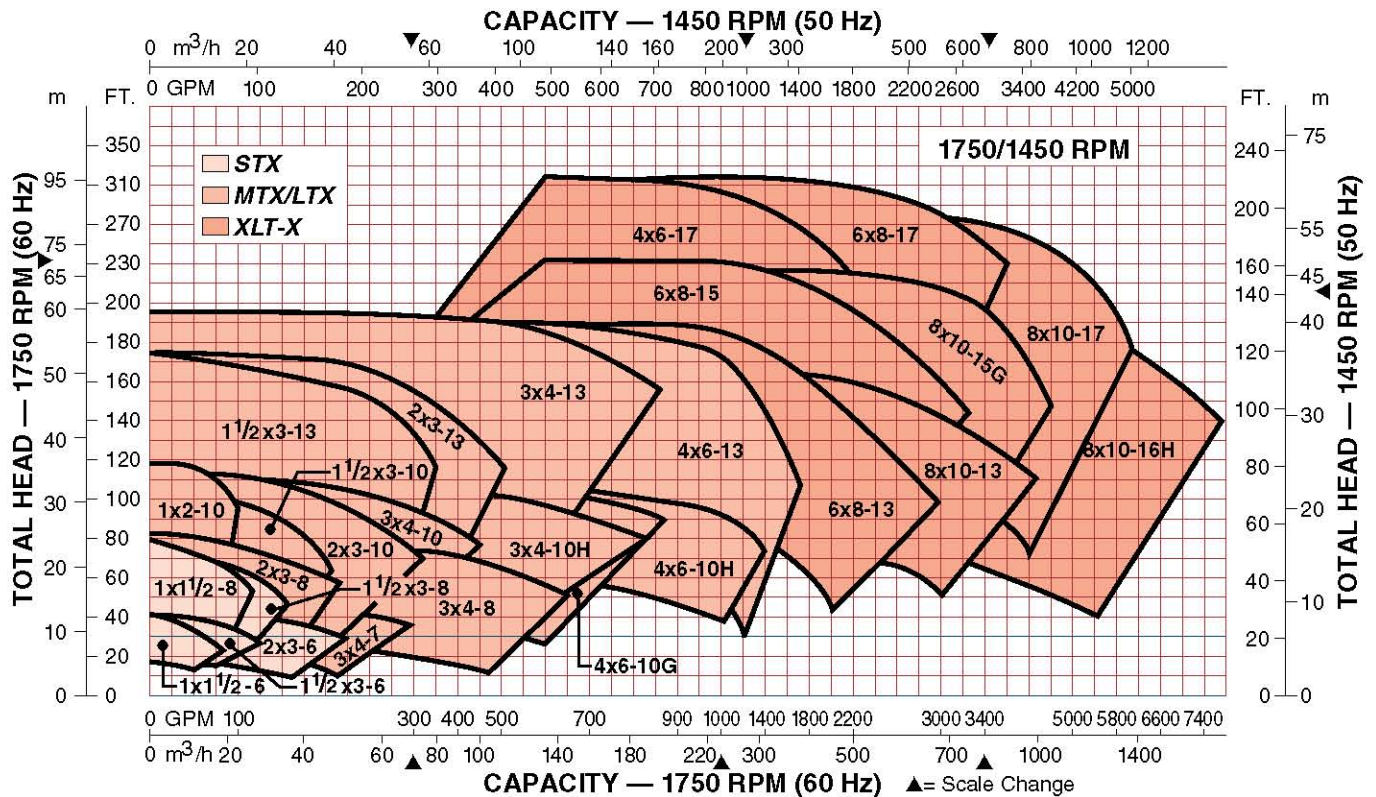
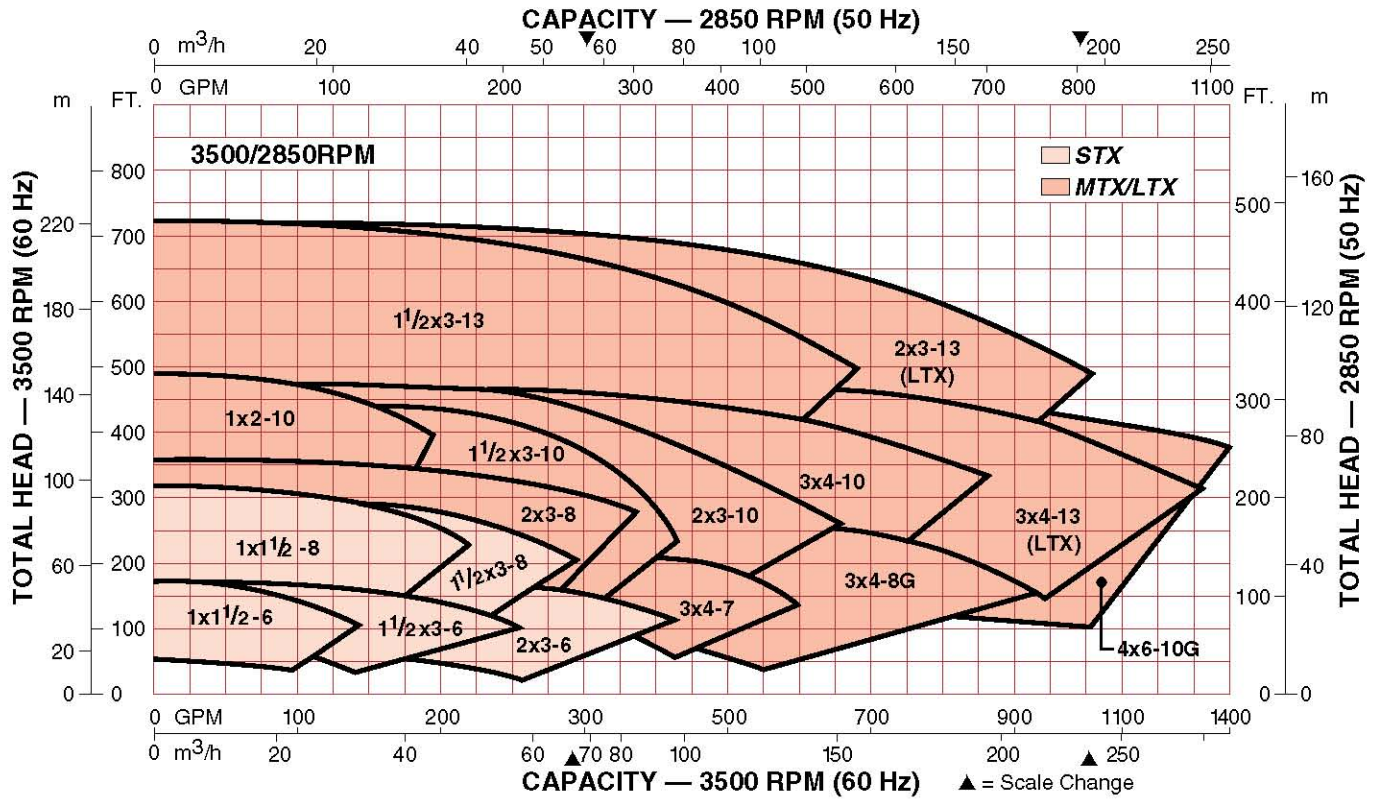
- ♦ Jacketed Stuffing Box/Seal Chamber
- ♦ Finned Cooler
- ♦ 316 Stainless Steel Shaft
- ♦ Graphite Impeller O-ring
- ♦ Graphite Casing Gasket

Special Surface Preparations

Although Goulds cast parts provide exceptionally smooth finish for superior hydraulic performance, many users require special surface finishes including:

- Passivation
- Electropolishing
- Hard Metal Coatings
- Surface Finish Less Than SIS Grade 2
- Fusion Bonded, Epoxy Coated Power End
- Special Paint Systems

Hydraulic Coverage Model 3196





Pick Your Perfect Process Pump

No one in the industry offers the broad range of process pumps that Goulds does...

Whether it's for pumping severe corrosives, abrasive slurries, fibrous/stringy solids, high temperature liquids, hazardous fluids, low flow or high capacity services—Goulds has a perfect, reliable solution. The Goulds selection of pump solutions includes horizontal and vertical configurations in a range of alloy and non-metallic constructions, sealed and sealless.

Process Pump Selection Guide

Goulds Model	Pump Type	Pumpage					Pumping Conditions							Installation Considerations					Materials of Construction					
		Corrosives		Solids		Hazardous (Noxious, Explosive, Volatile, Toxic)	Capacity		Temperature					Sumps	Limited Floor Space	ANSI Dim.	ISO Dim.	No Alignment Rqd.	Non-Metallic			Metallic		
		Mod.	Severe	Non-Abras. Fibrous, Stringy	Abrasive		Low Flow	High Cap.	High Press.	Cryogenic	Up To 250° F	0-500° F	500°-700° F						PFA TEFLON®	TEFZEL®	FRP or Polypropylene	Iron	Alloy Steel	High Alloys
1	3171	Vertical Sump																						
2	NM 3171	Vertical Sump																						
3	3996A	In-Line																						
4	3175 3180	High Capacity																						
5	3700	High Temp./High Press.											TO 300° F											
6	3196A	Chemical Process																						
7	3193A	PFA Lined																						
8	NM A 3196	FRP Process																						
9	3796A	Self-Priming																						
10	LF A 3196	Low Flow																						
11	JC	Abrasive Slurry																						
12	CV A 3196	Non-Clog																						
13	3296	Sealless																						
14	3293	Sealless																						
15	3200	Sealless																						
16	AF	Axial Flow																						
17	HT 3196	High Temp Chemical																						
18	3299	Sealless																						
19	SP 3293	Sealless Self-Priming																						
20	V 3293	Sealless Vert. In-Line																						
21	MNK	ISO Lined HD Sealless																						
22	MNK-S	ISO Lined HD Sealless																						
23	MNK-X	ISO Lined HD Sealless																						
24	SCK	ISO Lined HD Sealed																						
25	SCK-S	ISO Lined HD Sealed																						
26	SCK-X	ISO Lined HD Sealed																						
27	MPB	MPB Chemical Reagent																						

▲ Utilizes X-Series Power End. TEFZEL® and TEFLON® are registered trademarks for fluoropolymer resins, films and fibers made by DuPont.

Visit our website at www.gouldspumps.com

Goulds Pumps

