



# TURBINE PUMP PRODUCTION



You not only get the latest in pump design and technology from Goulds Water Technology, you get more than 100 years of pump manufacturing know-how that includes most of the major innovations in pump engineering and materials. All our products reflect the engineering design advances for top efficiency and head generation.

Our engineers are specialists, using computer assisted design and extensive test and research facilities. They develop the specifications that guide our inhouse pattern shop technicians in the development of precision turbine pattern equipment. The result is consistent casting accuracy, close tolerances and the quality needed to maintain water passage shape and pump efficiencies.





Goulds Water Technology further controls the quality of its products in its own foundries. Here the molding, core work and Vitra-Glass enameling are closely supervised for tight quality standards.



Our modern manufacturing facilities assure dimensionally consistent, high quality, fully machined parts, produced on a volume basis to bring down costs. Every impeller is precision balanced on a micro processor balance analyzer. Goulds Water Technology is one of the largest manufacturers in the turbine industry.



From design to pattern shop to foundry to manufacturing to warehousing – Goulds Water Technology is a completely integrated producer. Our network of turbine warehouses brings pumps and same day service to you. We offer full service on new units. Rebowling, rebuilding and repair on turbine pumps and submersible and centrifugal pumps.

We are committed to service. We offer ready availability of complete pumps, repair parts and service. We are continually improving and expanding our turbine products warehouse network with locations in key areas.

## LINESHAFT

#### Water Lubrication

### 1 Adjusting Nut

Permits exact impeller adjustment for maximum performance.

#### 2 Discharge Head

Heavy-duty head provides maximum accessibility to service packing box assembly. Two piece head shaft is standard.

#### 3 Prelube Connection

#### 4 Column Adapter

Accepts threaded or flanged column.

## 5 Adjusting Nipple

Threads directly into column adapter. Headshaft stickup set exactly by threading head on column as required.

## 6 Discharge Bowl Bearing

Bronze.

## 7 Discharge Bowl

Close grained cast iron.

#### 8 Pump Shaft

Oversized high strength polished stainless steel.

#### 9 Intermediate Bowls

Close grained cast iron. Waterways glass lined for maximum efficiency.

## 10 Impellers

Silicon bronze, designed for maximum efficiency. Precision balanced for smooth operation.

## 11 Intermediate Bowl Bearings

Bronze or rubber for long pump life under any well conditions.

#### 12 Lock Collets

Steel construction secures impeller to pump shaft.

#### 13 Sand Collar

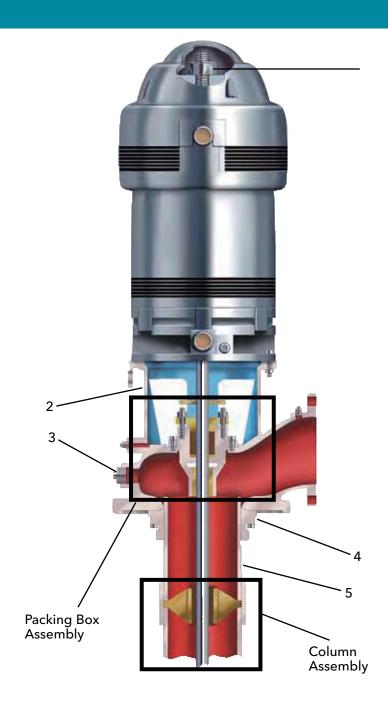
Accurately located at suction bowl bearing to eliminate possible sand buildup.

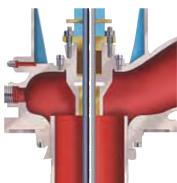
#### 14 Suction Bowl Bearing

Bronze. Grease packed for long trouble-free life.

### 15 Tail Pipe or Strainer – Optional

Optional tail pipe cut to desired length for best suction conditions. Strainer provides protection from large solids.



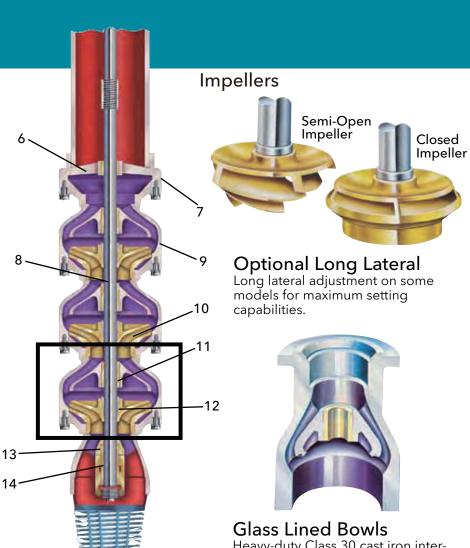


#### Headshaft Stainless Steel.

Bronze Packing Gland Cast Iron Box

## Throttle Bushing

Extra length bronze for better shaft support, longer packing life.



Heavy-duty Class 30 cast iron intermediate bowls with standard feature of vitra-glass lined waterways for maximum efficiency and wear protection.



## Column Assembly

Lineshaft

ment.

High strength steel with chrome spots. Ground and polished for exact bearing fit. Available in carbon steel or stainless steel.

Bearing Retainer Bronze.

**Lineshaft Bearings** 

Fluted rubber, designed to flush sand and grit rapidly.

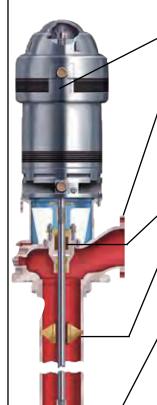
Column Pipe and Couplings Parallel thread, accurately machined for easy installation, accurate align-

## Lineshaft Short Set Turbine

- Capacities to 9000 GPM (2043 m<sup>3</sup>/h)
- Heads to 1400 feet (427 m)

**Design Flexibility** 

Goulds Water Technology offers a wide variety of design options to suit most any short set turbine applications.



Vertical Hollow Shaft or Solid Shaft Motors

#### Cast Iron or Fabricated Discharge Head

Designed for mounting electric motor, right angle or combination gear.

Packed Stuffing Box or Mechanical Seal

## Threaded or Flanged Column Assemblies

With bronze or cast iron bearing retainers.

#### Lineshaft

Polished high strength stainless steel. Other alloys available.

#### Intermediate Bowls

Waterways glass lined for maximum efficiency.

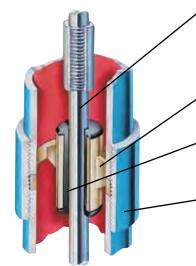
#### **Impellers**

Taperlocked or keyed construction. Precision balanced for smooth operation.

#### Intermediate Bowl Bearings

Bronze, rubber or carbon for long pump life under any conditions.

Suction Bell Bearing Grease-packed for long trouble-free life.



15

## LINESHAFT

#### Oil Lubrication

1 Adjusting Nut
Permits exact impeller adjustment for maximum performance.

#### 2 Large Capacity Manual or Solenoid Oiler Assures constant oil supply.

#### 3 Discharge Head

Heavy-duty head provides maximum accessibility to service tube tension assembly. Two piece headshaft

#### 4 Lock Ring

Positively locks adjusting nipple to discharge head.

#### 5 Adjusting Nipple

Threads directly into column adapter. Headshaft stickup set exactly by threading head on column as required.

#### 6 Tube Adapter Bushing Bronze.

## 7 Double Bowl Seal – Optional

Provides positive sealing of developed head.

#### 8 Pump Shaft

Oversized high strength polished stainless steel.

## 9 Discharge Bowl

Close grained cast iron. Relief ports insure positive bearing lubrication.

## 10 Discharge Bowl Bearing

Bronze. Close tolerance fit for minimum leakage.

## 11 Impellers

Silicon bronze. Designed for maximum efficiency. Precision balanced for smooth operation.

#### 12 Intermediate Bowls

Close grained cast iron. Waterways glass lined for maximum efficiency.

## 13 Intermediate Bowl Bearings

Bronze or rubber for long pump life under any well conditions.

#### 14 Lock Collets

Steel construction secures impeller to pump shaft.

#### 15 Sand Collar

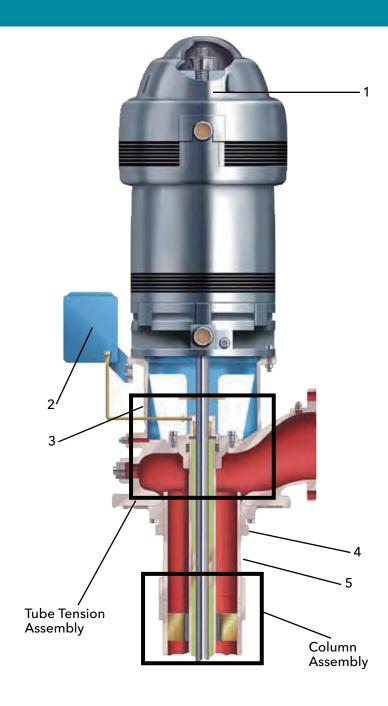
Accurately located at suction bowl bearing to eliminate possible sand buildup.

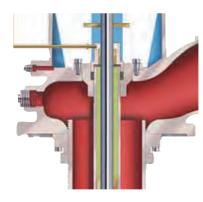
## 16 Suction Bowl Bearing

Bronze. Grease packed for long trouble-free life.

## 17 Tail Pipe or Strainer — Optional

Tail pipe cut to desired length for best suction conditions. Strainer provides protection from large solids.





#### Headshaft Steel.

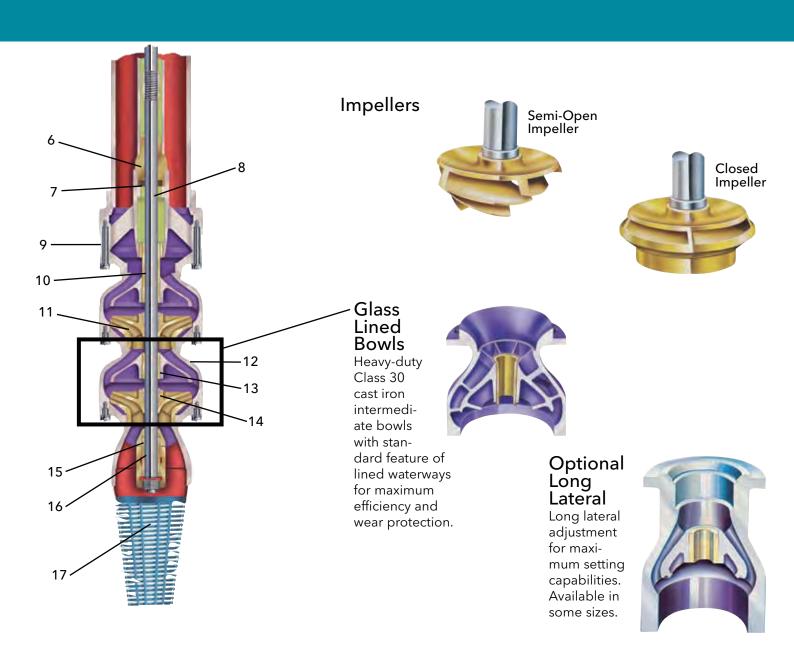
Tube Tension Nut Heavy-duty cast iron.

#### Tension Nut Bushing

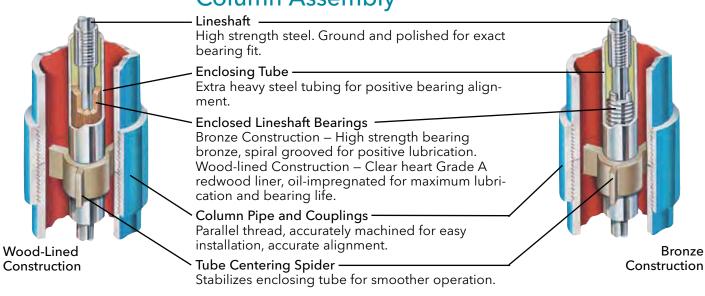
Bronze construction. Spiral groove insures positive lubrication to lineshaft bearings.

#### Heavy-Duty Tension Plate

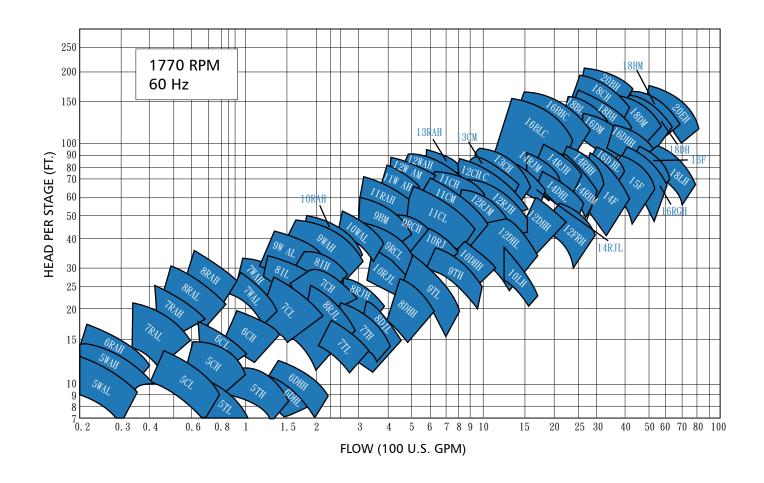
For positive alignment of lineshaft bearings.

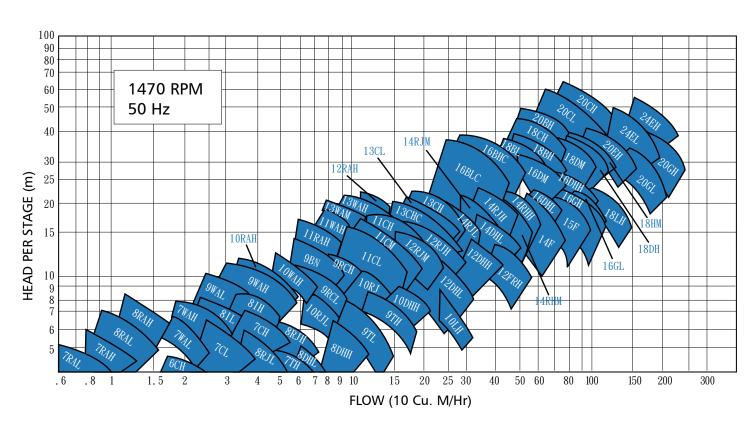


## Column Assembly



## LINESHAFT







Type "F" Head

Type "U" Discharge Located Underground



Type "T" Suction Inlet Located in the Head

Type "L" (Can) Suction Inlet Located in the Can



## **SUBMERSIBLE**

## **Applications**

Goulds Water Technology combines the hydraulic engineering of turbine pumps matched to the hi-tech design of electric submersible motors.

#### **Features**

### 1 Discharge Pipe

Properly sized for optimum water velocities to insure peak hydraulic performance.

#### 2 Discharge Bowl

Several discharge sizes available for NPT or flanged pipe.

3 Discharge Bearing
Extra long top protected bronze bearing insures positive shaft alignment and stabilization for extended life.

#### 4 Intermediate Bowl

Close grained Class 30 cast iron. Water passage glassed for maximum efficiency and abrasion resistance.

#### 5 Impellers

Designed for maximum efficiency with wide range hydraulic coverage. Precision balanced for smooth operation.

#### 6 Upthrust Collar

Designed for extra margin of safety against possible momentary upthrust occurring at startup.

## 7 Intermediate Bowl Bearings

Reliable long life bronze or rubber bearing.

#### 8 Lock Collets

Accurately machined to insure positive locking of impeller to pump shaft.

#### 9 Pump Shaft

100,000 PSI high tensile stainless steel provides strength and excellent corrosion resistance. Ground and polished for smooth bearing surface.

#### 10 Suction Inlet

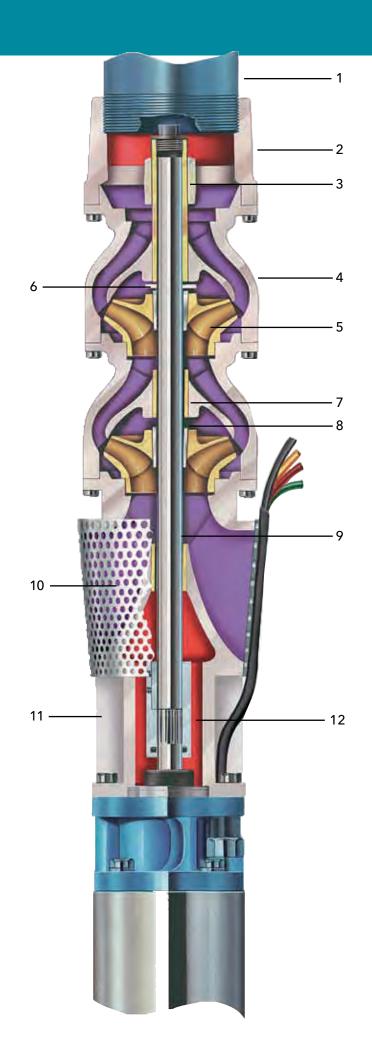
Contoured for smooth flow entrance. Protected by an oversized stainless steel strainer to prevent entrance of damaging solids.

## 11 Suction Adapter

Ductile iron provides for increased strength and positive motor alignment. Open area permits easy access to pump/motor coupling.

## 12 Pump/Motor Coupling

Large stainless steel coupling accurately machined for perfect alignment, balance and power transmission. Submersible pumps and motors provide an extensive list of options versus other deep well pumping equipment systems. Advanced engineering designs and experience now assure units for long term pumping service. Water well applications provide the perfect opportunity to evaluate features and benefits of submersible equipment.



## Hermetically Sealed Type

A Hermetically Sealed Type motor utilizes windings of standard construction and insulation thickness. The windings are encased and Hermetically Sealed within the external shell casing on the outside and an internal tube or liner inside the bore. The Hermetically Sealed enclosure eliminates the possibility of water leakage into the winding the liquid medium circulates between the rotor and stator liner providing lubrication and cooling to the bearings.

## Wet Winding Type

A Wet Winding Type motor is one in which the motor windings are in direct contact with a liquid medium. The medium is clean, clear water. A pressure balancing system prevents exchange of the motor liquid medium and well water due to thermal expansion and contraction when the motor is operating. The liquid medium fills the inside of the motor and surrounds both the stator windings and the rotor. A completely water proof insulation is used on the magnet wire used for the stator windings. The liquid medium inside the motor air gap and coils acts as a heat transfer device by circulating through the windings and transferring heat to the external casing. Dissipation of this heat occurs as the well water flows at a required velocity over the external case. As is the case in all submersible type motors, the internal liquid medium is also used for bearing lubrication.



## Submersible Options

Goulds Water Technology can provide several options in pump and motor combinations to meet the exacting conditions of your applications:

- High temperature wells
- High horsepower, limited well diameters
- Motor sensing devices
- Water level indicators
- Special materials
- Special voltage motors

Consult Goulds Water Technology Turbine Customer Service Department for details.

## Submersible Accessories:

#### **Valves**

Check ValvesFlow ControlBall Valves

**Electrical Panels** 

Furnas PanelsV.F.D. Drivers

Pitless Adapters

Wire

- 12 to 0000

Heat Shrinks

Splice Kits

Tanks

Well Heads

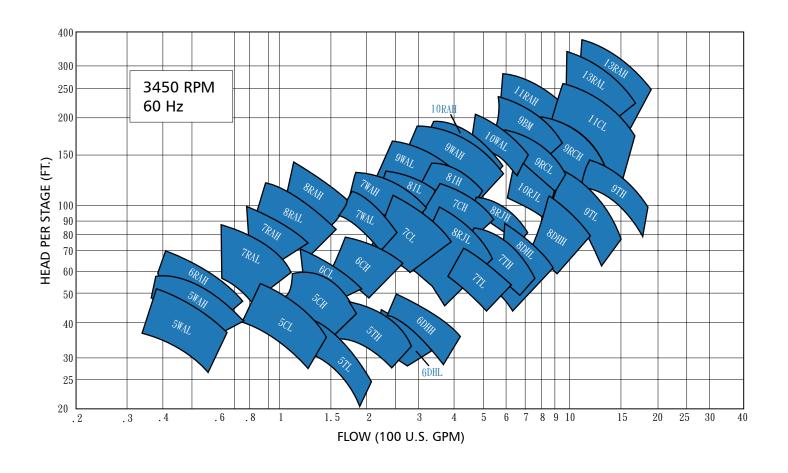
- Submersible Discharge Head

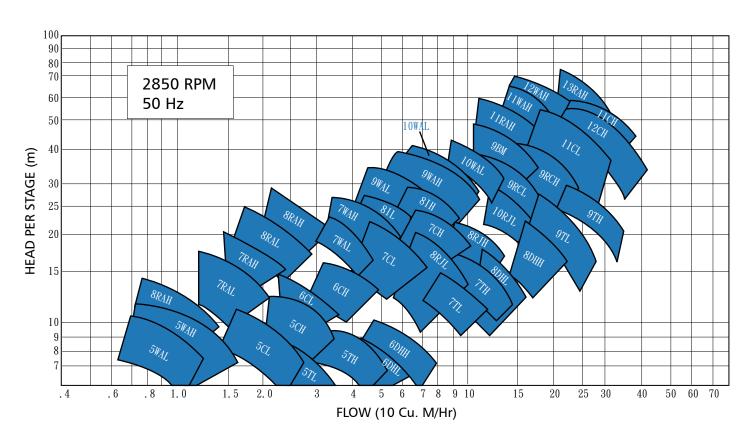
**Torque Arrestors** 

Gauges

**Motor Shrouds** 

## **SUBMERSIBLE**





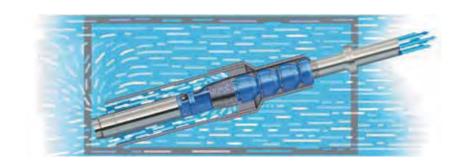
## Hydraulic Performance

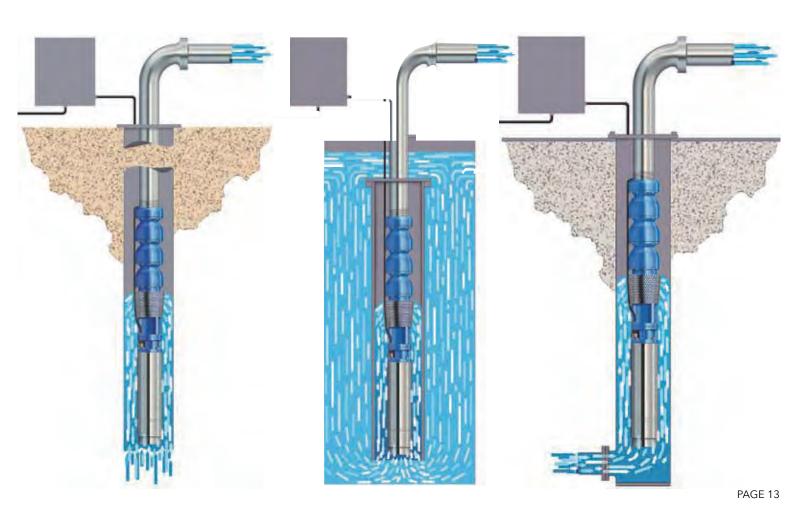
The system requirements can be met with a choice of pump sizes and selections for the best hydraulic performance. The choice of pump and motor diameters, voltage and specs for varying well conditions provides additional opportunity to match the unit to all the requirements of the system.

The availability of accessory items, cable and controls enables you to rely on Goulds Water Technology for units that provide top service.

Submersibles for 1800 RPM through 20" are also available.







## LINESHAFT/SUBMERSIBLES

## Parts List Standard Materials of Construction

No.  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Discharge Head  Head Shaft  Adjusting Nut Gib Key Tension Nut Tension Plate Oiler Body Stuffing Box Stuffing Box Stuffing Box Stuffing Box Stud Stuffing Box Stud Nut Stuffing Box Stud Nut Stuffing Box Split Gland Stuffing Box Slinger Packing Column Nipple	Water Lube Oil Lube Oil Lube Only Oil Lube Only Oil Lube Only Water Lube	GWT No.  1003 2227 2205 2130 2242 1187 1003 1425 1003 1109 2229 2229 5136	Description  C.I. ASTM A48, CL 30B  Stainless – ASTM A582, Type 416  Steel – AISI C1045  Brass ASTM B16M C360  Mild Steel – ASTM A108, Gr. 1018  Brass ASTM B584 C844  Cast Iron – ASTM A48, CL 30B  Aluminum – SAE 329 or Steel  Cast Iron – ASTM A48, CL 30B  Bronze – ASTM B584 C89835 Federalloy III  Stainless – ASTM A276 Type 316
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Head Shaft  Adjusting Nut Gib Key Tension Nut Tension Plate Oiler Body Stuffing Box Stufling Box Stufling Box Stufling Box Stufling Box Stufling Box Split Gland Stuffing Box Slinger Packing	Oil Lube  Oil Lube Only Oil Lube Only Oil Lube Only Water Lube	2227 2205 2130 2242 1187 1003 1425 1003 1109 2229 2229	Stainless – ASTM A582, Type 416 Steel – AISI C1045 Brass ASTM B16M C360 Mild Steel – ASTM A108, Gr. 1018 Brass ASTM B584 C844 Cast Iron – ASTM A48, CL 30B Aluminum – SAE 329 or Steel Cast Iron – ASTM A48, CL 30B Bronze – ASTM B584 C89835 Federalloy III Stainless – ASTM A276 Type 316
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Adjusting Nut Gib Key Tension Nut Tension Plate Oiler Body Stuffing Box Stuffing Box Susing Stuffing Box Stud Stuffing Box Stud Nut Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Oil Lube  Oil Lube Only Oil Lube Only Oil Lube Only Water Lube	2205 2130 2242 1187 1003 1425 1003 1109 2229 2229	Steel – AISI C1045 Brass ASTM B16M C360 Mild Steel – ASTM A108, Gr. 1018 Brass ASTM B584 C844 Cast Iron – ASTM A48, CL 30B Aluminum – SAE 329 or Steel Cast Iron – ASTM A48, CL 30B Bronze – ASTM B584 C89835 Federalloy III Stainless – ASTM A276 Type 316
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Adjusting Nut Gib Key Tension Nut Tension Plate Oiler Body Stuffing Box Stuffing Box Susing Stuffing Box Stud Stuffing Box Stud Nut Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Oil Lube Only Oil Lube Only Oil Lube Only Water Lube	2130 2242 1187 1003 1425 1003 1109 2229 2229	Brass ASTM B16M C360 Mild Steel – ASTM A108, Gr. 1018 Brass ASTM B584 C844 Cast Iron – ASTM A48, CL 30B Aluminum – SAE 329 or Steel Cast Iron – ASTM A48, CL 30B Bronze – ASTM B584 C89835 Federalloy III Stainless – ASTM A276 Type 316
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Gib Key Tension Nut Tension Plate Oiler Body Stuffing Box Stuffing Box Busing Stuffing Box Stud Stuffing Box Stud Stuffing Box Stud Nut Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Oil Lube Only Oil Lube Only Water Lube	2242 1187 1003 1425 1003 1109 2229 2229	Mild Steel – ASTM A108, Gr. 1018  Brass ASTM B584 C844  Cast Iron – ASTM A48, CL 30B  Aluminum – SAE 329 or Steel  Cast Iron – ASTM A48, CL 30B  Bronze – ASTM B584 C89835 Federalloy III  Stainless – ASTM A276 Type 316
5 6 7 8 9 10 11 12 13 14 15 16 17	Tension Nut Tension Plate Oiler Body Stuffing Box Stuffing Box Busing Stuffing Box Stud Stuffing Box Stud Nut Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Oil Lube Only Oil Lube Only Water Lube	1187 1003 1425 1003 1109 2229 2229	Brass ASTM B584 C844  Cast Iron – ASTM A48, CL 30B  Aluminum – SAE 329 or Steel  Cast Iron – ASTM A48, CL 30B  Bronze – ASTM B584 C89835 Federalloy III  Stainless – ASTM A276 Type 316
6 7 8 9 10 11 12 13 14 15 16 17 18	Tension Plate Oiler Body Stuffing Box Stuffing Box Busing Stuffing Box Stud Stuffing Box Stud Nut Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Oil Lube Only Oil Lube Only Water Lube	1003 1425 1003 1109 2229 2229	Cast Iron – ASTM A48, CL 30B Aluminum – SAE 329 or Steel Cast Iron – ASTM A48, CL 30B Bronze – ASTM B584 C89835 Federalloy III Stainless – ASTM A276 Type 316
7 8 9 10 11 12 13 14 15 16 17	Oiler Body Stuffing Box Stuffing Box Busing Stuffing Box Stud Stuffing Box Stud Nut Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Oil Lube Only Water Lube	1425 1003 1109 2229 2229	Aluminum – SAE 329 or Steel  Cast Iron – ASTM A48, CL 30B  Bronze – ASTM B584 C89835 Federalloy III  Stainless – ASTM A276 Type 316
8 9 10 11 12 13 14 15 16 17 18	Stuffing Box Stuffing Box Busing Stuffing Box Stud Stuffing Box Stud Nut Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Water Lube	1003 1109 2229 2229	Cast Iron – ASTM A48, CL 30B Bronze – ASTM B584 C89835 Federalloy III Stainless – ASTM A276 Type 316
9 10 11 12 13 14 15 16 17	Stuffing Box Busing Stuffing Box Stud Stuffing Box Stud Nut Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Water Lube Water Lube Water Lube Water Lube Water Lube	1109 2229 2229	Bronze – ASTM B584 C89835 Federalloy III Stainless – ASTM A276 Type 316
10 11 12 13 14 15 16 17	Stuffing Box Stud Stuffing Box Stud Nut Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Water Lube Water Lube Water Lube Water Lube	2229 2229	Stainless – ASTM A276 Type 316
11 12 13 14 15 16 17 18	Stuffing Box Stud Nut Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Water Lube Water Lube Water Lube	2229	
12 13 14 15 16 17 18	Stuffing Box Gasket Stuffing Box Split Gland Stuffing Box Slinger Packing	Water Lube Water Lube		Stainless – ASTM A276 Type 316
14 15 16 17 18	Stuffing Box Slinger Packing			Garlock Brand Blue Guard
15 16 17 18	Packing	147	1193	Aluminum Bronze – ASTM B148HT
16 17 18		Water Lube	5121	Rubber
17 18	Caluma Ninala		5026	Graphited Acrylic Yarn
18	Column Nipple		6501	Pipe – ASTM A53
	Lock Ring		1018	Ductile – ASTM A536, Gr. 65-45-12
40	Reducer-Bushing		1003	Cast Iron – ASTM A48, CL 30B
19	Companion Flange		1003	Cast Iron – ASTM A48, CL 30B
20	Companion Flange Gasket		5136	Garlock Brand Blue Guard
21	Nameplate		3211	Stainless – ASTM A240, Type 316
22	Sole Plate		3201	Steel Plate – ASTM A36
23	Column Pipe		6501	Pipe – ASTM A53
24	Column Coupling		6501	Pipe – ASTM A53
25	Tube Nipple		6518	Pipe – Steel SCH80 ASTM A120 Gr. B
26	Enclosing Tube	Bronze Construction	6518	Steel – SCH80, ASTM A120, Gr. B
27	Oil Tube Coupling	Wood-Lined Construction Wood-Lined Only	6518 6518	Steel – SCH80, ASTM A120, Gr. B Steel – SCH80, ASTM A120, Gr. B
	Oil Tube Coupling	Bronze Construction	1109	Bronze – ASTM B584 C903
28	Lineshaft Bearing	Wood-Lined Construction	1107	Clear Heart Redwood – Grade A
		W/L – Sleeved	2205	Steel – AISI C1045 with Type 304SS Sleeve
29	Lineshaft —	W/L – Stainless	2227	Stainless – ASTM A582, Type 416
	205	Oil Lube	2205	Steel – AISI C1045
20	1: 1 6 0 1:	Water Lube	2242	Mild Steel – ASTM A108, Gr. 1018
30	Lineshaft Coupling	Stainless	2218	Stainless – ASTM A582, Type 416
31	Water Lube Retainer	Retainer	1102	Silicon Bronze – ASTM B584 C876
31	Water Lube Retainer	Insert	5121	Rubber
32	Tube Centering Spider		5121	Rubber
33	Discharge Bowl		1003	Cast Iron – ASTM A48, CL 30B
34	Discharge Bushing	Water Lube	1109	Bronze – ASTM B584 C89835 Federalloy III
35	Throttle Bushing	Oil Lube	1109	Bronze – ASTM B584 C89835 Federalloy III
36	Intermediate Bowl		6911	Cast Iron – ASTM A48, CL 30B, Enameled
37	Top Inter Bowl		6911	Cast Iron – ASTM A48, CL 30B, Enameled
38	Inter Bowl Bushing	Bronze	1109 5121	Bronze – ASTM B584 C89835 Federalloy III
		Rubber Inter Bowl	1117	Rubber AL Bronze ASTM B148 C954
39	Wear Rings – Optional	Impeller	1117	AL Bronze ASTM B148 C954  AL Bronze ASTM B148 C954
40	Impeller	linpeliei	1102	Silicon Bronze – ASTM B584 C876
41	Taper Lock		2229	Stainless Steel - ASTM A276, S31600 CF
42	Suction Bowl		1003	Cast Iron – ASTM A48, CL 30B
43	Suction Bushing		1109	Bronze – ASTM B584 C89835 Federalloy III
44	Sand Collar		1205	Stainless Steel - ASTMA744, GR CF-8 (304)
45	Suction Strainer		6952	Galvanized – ASTM A123
46	Plug		1046	Steel – ASTM A197 Mall. Iron
47	Screw Bearing —	Bronze Construction	1109	Bronze – ASTM B584 C89835 Federalloy III
47	эсгеw bearing	Wood-Lined Construction	2242	Mild Steel – ASTM A108, Gr. 1018
48	Bowl Shaft		2227	Stainless – ASTM A582, Type 416
49	Hex Bolt		2228	Stainless Steel - A276 S30400 CF
50	Lock Washer		2242	Steel – ASTM A108, Gr. 10180
51	Suction Adapter	Submersible Only	1018	Ductile Iron – Astm A536, Gr. 65-45-12
52	Adapter Plate	Submersible Only (Optional)	1018	Ductile Iron – ASTM A536, Gr. 65-45-12
53	Motor Coupling	Submersible Only	2218	Stainless Steel – ASTM A582, Type 416
54	Motor Mounting Bolts	Submersible Only	2229/2228	Stainless – ASTM A276, Type 316/304SS
55	Suction Screen	Submersible Only	3215	AISI 304 Stainless
56	Cable Guard	Submersible Only	3215/6266	AISI 304 Stainless or Polyethylene (UHMW)
57	Discharge Bearing	Submersible Only	1109	Bronze – ASTM B584 C89835 Federalloy III
58 59	Discharge Bearing Plug Upthrust Washer	Submersible Only Submersible Only	1046 6266	Steel – ASTM A197 Mall. Iron Polyethylene (UHMW)

# Services



- Wastewater Plants
- Commercial/Industrial
  - Golf Courses/ Turf Irrigation
    - Agricultural Irrigation
      - Dewatering
      - Mining
      - Cooling Tower
      - Water Parks
      - Snowmaking
      - Flood Control







## Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're 12,000 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

#### For more information on how Xylem can help you, go to www.xyleminc.com









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New Zealand Brown Brothers Engineers +64 (3) 365.0279 Papua New Guinea Fimali Limited +67 (5) 852 3658



Xylem Water Systems Australia Pty. Ltd. Unit 3/1 Federation Way Chifley Business Park Mentone, Victoria 3194 Australia

Tel: +61.3.9551.7333 Fax: +61.3.9551.0321

www.completewatersystems.com