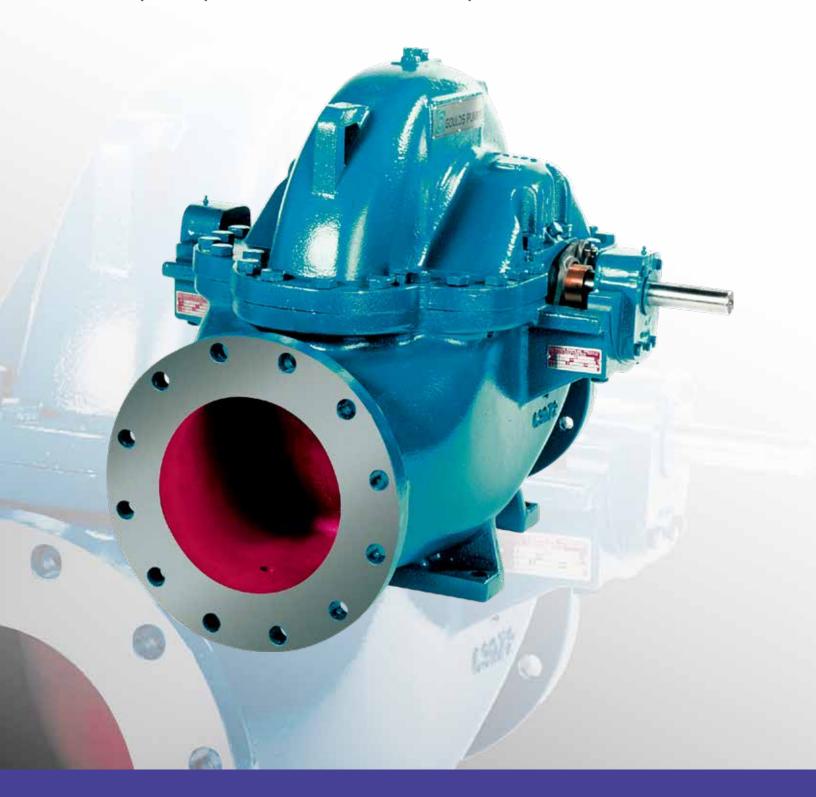


# Goulds 3410

Small Capacity Double Suction Pump



# 3410

Double Suction Pumps Designed for a Wide Range of Industrial, Municipal, and Marine Services.

- Capacities to 7,000 GPM (1591 m3/h)
- Heads to 550 feet (168 m)
- Temperatures to 350° F (177° C)
- Pressures to 250 PSIG (1724 kPa)

### **Design Features**

- Double Suction / Dual Volute Design assures axial and radial balance for long life, low maintenance.
- Horizontally Split Casing Suction and discharge nozzles in lower half casing for ease of inspection/ maintenance.
- **Wear Rings** Easily replaceable wear rings protect against impeller, casing wear.
- **Sealing Flexibility** Choice of a wide range of mechanical seal or packing.
- Maximum Parts Interchangeability Entire line uses just four rotating assemblies (exclusive of impellers and wear rings).

### Services

- Process Quench water, stripper bottoms, reboiler circulation, cooling tower
- Pulp & Paper Primary and secondary cleaner, filtrate, mill water supply shower, fan pump
- **Primary Metals** Primary and secondary cleaner, filtrate, mill water supply shower, fan pump
- **Municipal** High lift, low lift, wash water, waste water, raw water
- **Utilities** Cooling tower, component cooling, service water
- **Marine** Bilge and ballast, cargo, cooling water, fire pump



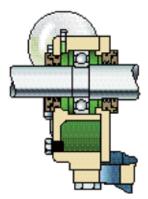




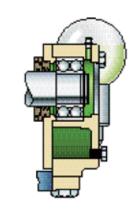
# Other Features/Application Flexibility

### **Optional Oil Lubrication**

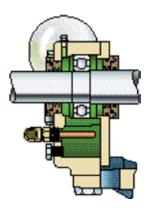
Field convertible with no remachining required.



Oil Lubricated Coupling End Bearings



Oil Lubricated Thrust End Bearings

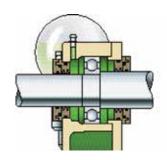


Water Cooled Bearings

### **Bearing Protection**

### Inpro VBX-D Labyrinth Seals Supplied As Standard

VBX-D seals are ideal for eliminating contaminants and providing long life with no shaft wear or heat generation. A full range of other seal types is available.

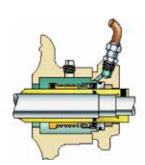


Inpro VBX-D Labyrinth Oil Seals

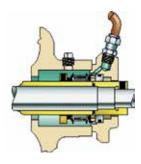
### **Optional Mechanical Seals**

A wide variety of mechanical seals (including cartridge and split type) are readily available for maximum sealing flexibility.

Factory installed mechanical seals feature enlarged stuffing box bores for improved seal lubrication and cooling; extended seal life.



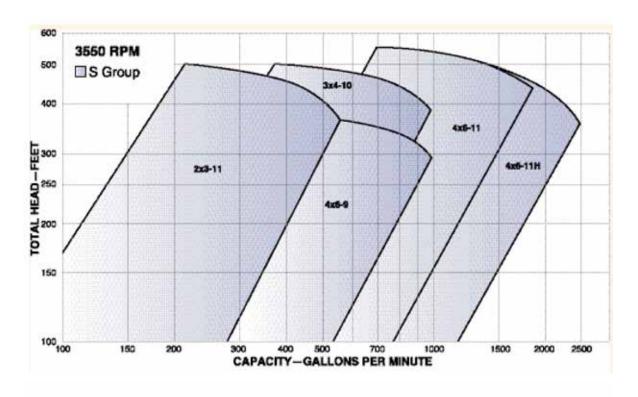
Single Unbalanced Seal

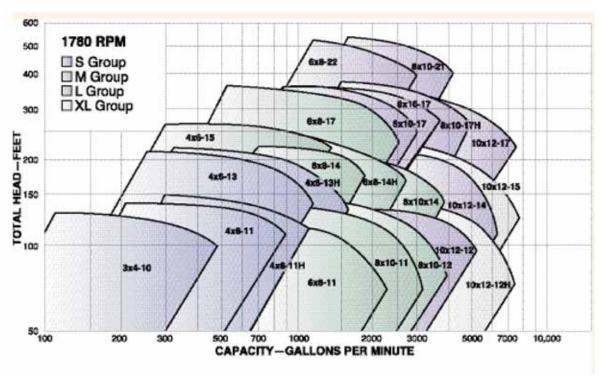


Single Balanced Seal

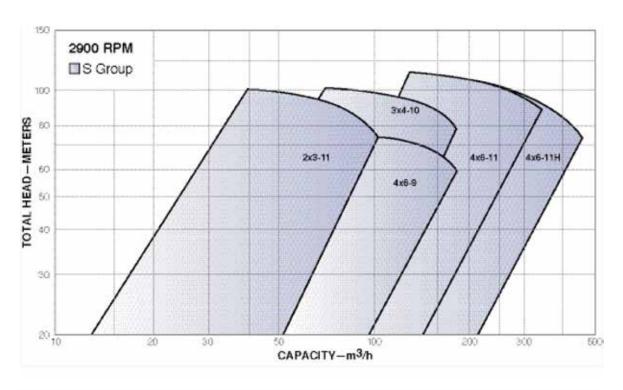
# Hydraulic Coverage

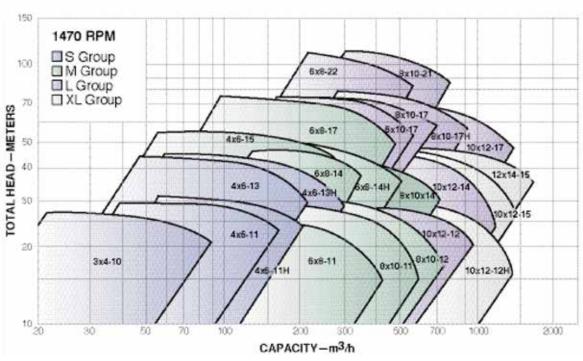
# 60 Hz





# 50 Hz





# 3410

# Parts List and Materials of Construction

14	No Req'd		Materials						
Item Number	Per Pump	Part Name	Bronze Fitted	316SS Fitted	All 316SS				
100	1 Upper 1Lower	Casing	1003	1003	1203				
101	1	Impeller	1179	1203	1203				
102	2	Seal Flush Tubing (Optional, Not Illustrated)	Brass	Steel	316SS				
103	2	Wear Ring, Casing	1618		1071				
105	2	Lantern Ring	G	lass-Filled PTF	E				
106	1 set	Stuffing Box Packing	Squ	are Non-Asbe	stos				
107	2	Stuffing Box Gland		1203					
109	2	Bearing end Cover		1000					
109A	1	Bearing End Cover, Thrust		Steel					
112	1	Ball Bearing, Outboard		Steel					
113	2	Grease Fitting		Steel					
113A	2	Breather (Optional Oil Lubrication Only)		Steel					
122	1	Shaft		2238*					
124	2	Sleeve Nut (M, L, and XL Groups Ony)	1618 2445						
125	2	Stuffing Box Bushing		316					
126	2	Shaft Sleeve (Optional on S Group)	1618	12	03				
134	2	Bearing Housing		1000					
142	2	Wear Ring, Impeller (Not Illustrated)	1179 1203						
168	1	Ball Bearing, Inboard		Steel					
178	1	Impeller Key		AISI 1018*					
251	2	Sight Oiler (Optional Oil Lubrication Only)	White Metal and Glass						
320	6	Retaining Set Screw, Impeller Wear Ring (Not Illustrated)		303SS					
332	1	Labyrinth Seal, Outboard (VBX)	Bronze/Viton						
333	2	Labyrinth Seal, Inboard (Inpro VBX)	Bronze/Viton						
351	1	Casing Gasket, Parting (Not Illustrated)	1/32* Non-Asbestos						
353	4	Glands Studs	316SS						
355	4	Hex Nuts	304SS						
360	2	Gasket, End Cover to Bearing Housing	Kraft Paper						
361	1	Retaining Ring, Thrust Bearing		Steel					
361H	2	Retaining Ring, Impeller (S Group Only)	Steel	Stainle	ss Steel				
371C	8	Hex Cap Screw		Steel					
372U	4	Hex Cap Screw	Steel						
428	2	Gasket, Sleeve to Impeller (M, L, and XL Groups Only)	1/32* Non-Asbestos						
443T	1	Bearing spacer (L and XL Groups Only)  Steel							
445A	2	Anit-Rotation Pin, Case Wear Ring	AISI 420 AISI 316						
497	2	O-ring, Sleeve Nut		Buna Rubber					

<sup>\*</sup>S Group AISI 420 (Bronze Fitted Constructions), AISI 316 (316 SS Fitted & All 316 SS Constructions) \*\*S Group AISI 303

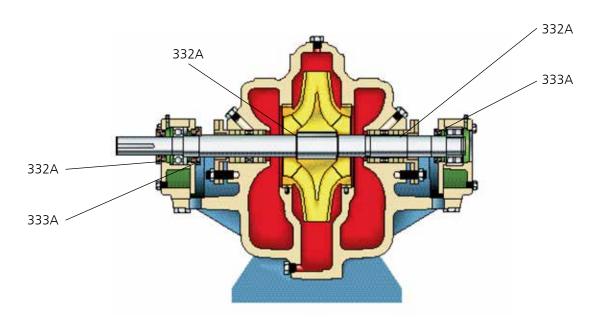
# **Materials of Construction**

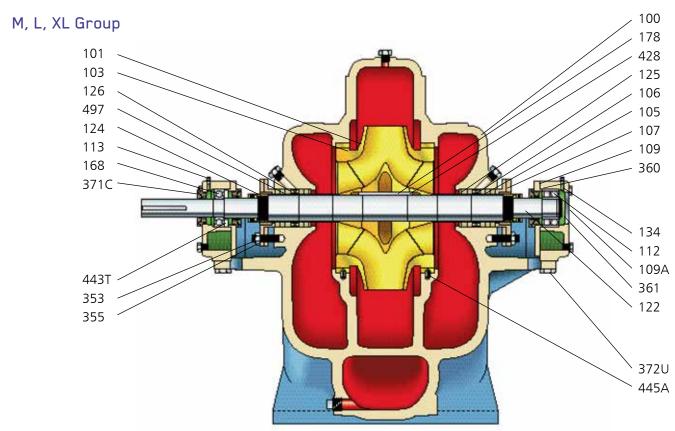
Code	Specification
1000	Cast Iron – ASTM A48 Ckass 25B
1003	Cast Iron – ASTM A48 Ckass 30B
1071	ASTM A743 Grade CF10SMnN
1179	Bronze – ASTM B584 Alloy C87600
1203	Stainless Steel – ASTM A743 Grade CF8M
1618	Bronze – ASTM B584 Alloy
2238	ASTM A434 Gr. 4140 Class BC
2445	Stainless Steel – ASTM A276 Type 410
AISI 304	Stainless Steel – ASTM A276 Type 304
AISI 1018	Steel – ASTM A108 Grade 1018–B1112
AISI 420	Stainless Steel – ASTM A276 Type 420

# **Sectional View**

# S Group

Model 3410 S Group is standard less shaft sleeves. Sleeves to protect stuffing box area are optional. Impeller is key driven and held axially by retaining rings.





# 3410 Single Stage Double Suction Pumps

Standard Design Features for Wide Range of Heavy Duty Industrial, Municipal & Process Services

#### RENEWABLE CASE WEARING RINGS

Permits easy maintenance of proper running clearances. Locked in place by anti-rotation pins.

#### **DOUBLE SUCTION IMPELLER**

Minimizes axial thrust. Polished waterways and fully machined exterior surfaces assure highly efficient, smooth performance.

#### **HEAVY DUTY SHAFT**

Designed for minimum deflection at maximum load. Dry shaft design—sealed by O-rings at sleeve / impeller hub and impeller bolt.

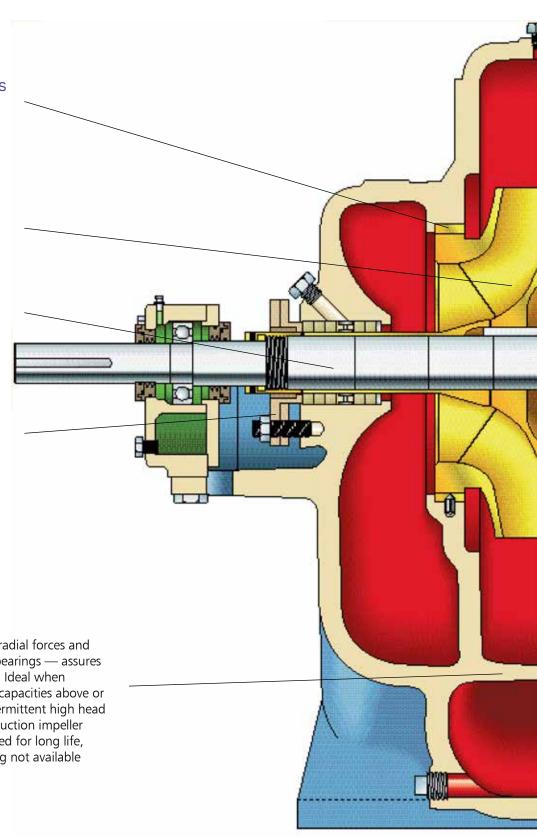
### STUFFING BOX GLANDS

Two-piece investment cast stainless steel glands standard on all constructions.

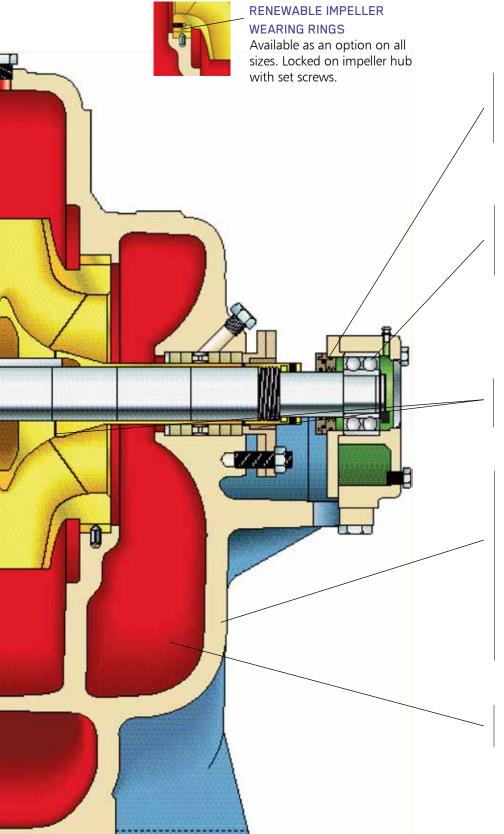


#### **BALANCED DESIGN**

Dual volute casing design equalizes radial forces and lessens radial reaction of shaft and bearings — assures smooth, vibration-free performance. Ideal when pumps must periodically operate at capacities above or below design capacity or during intermittent high head conditions. Combined with double suction impeller for axial balance, the 3410 is designed for long life, low maintenance. (Dual volute casing not available on all sizes.)







#### LABYRINTH BEARING PROTECTION

Labyrinth isolators are standard on the Model 3410. Ideal for eliminating contaminants and improving mean time between failure.

### DOUBLE ROW THRUST BEARING

Regreasable double row thrust bearing for high axial thrust capability. Locked on shaft in bearing housing positively positions rotating element and carries any residual axial thrust. Oil lubrication with constant level oilers optional.

### POSITIVE LIQUID SEALING

Shaft positively sealed from pumpage with gaskets and O-rings.

### **HEAVY DUTY CASING**

Rugged foot-mounted design to resist external forces and vibration. Casing wall designed to withstand high working pressures with minimum distortion.

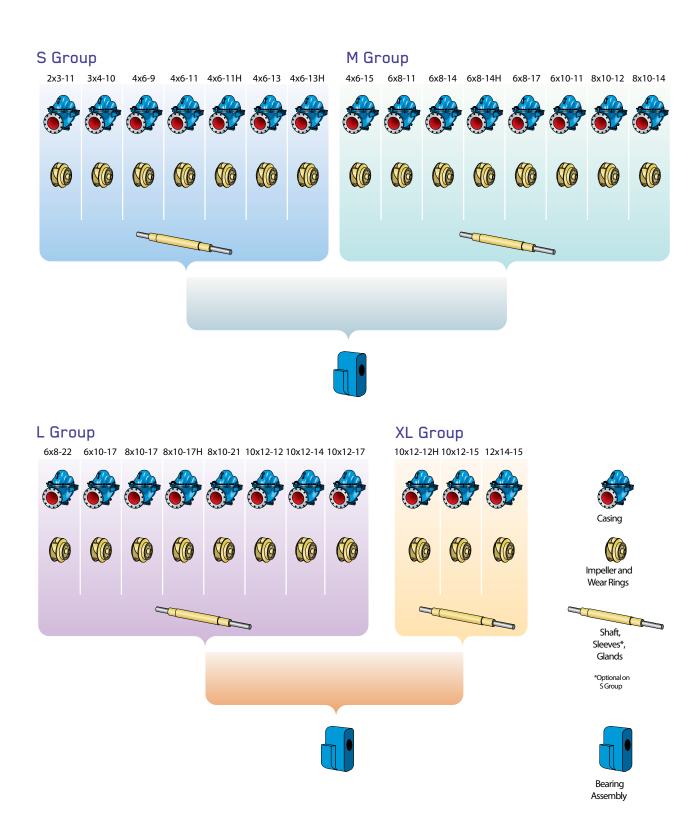
Both suction and discharge connections in lower half, allowing removal of upper half casing for inspection or removal of complete rotating element without disturbing piping or driver.

### LARGE INLET AREAS

Reduce NPSH requirement and assure smooth flow to impeller eye for efficient, quiet operation.

# Maximum Interchangeability

Entire 3410 product line utilizes just four shafts and two bearing assemblies.



### **Construction Details**

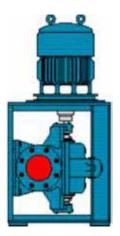
GROUP S									GF	ROUP	М				GROUP L GROUP								XL.		
111-000	344-10	49.9	446-11**	446-114**	446-13	446-13H	410-13	548.11	648-14	645-14H	64B-17	84011	Bx10-12	8410.14	648-22	51016	B10-13**	8a10-17H**	1510-21**	10412.12**	10x12-14**	10412-17**	10x12-12H**	10012-15	12814-16
330	233	334	410	410	450 (200)	472.	637 (290)	652	665 (302)	665	885	737	856 (189)	996	1495	1015	1286	1306	1520	1229	1410	1709	2168 (985)	1720 (782)	250 (113
63 (29)	66 (30)	39 07	84 (38)	84	88	88	143	153	139	139	200.	151	189	235	320	210	254	254	371	286	305	386	493 (224)	369	605
79	63	62	75	75	80	104	132	104	120	126	180	113	111	135	250	228	244	264	270	176	218	250	218	250	283
3/8	39	38	3/5	1/8	3/8	7/16	1/2	1/2	1/2	1/2	1/2	1/0	1/2	50	916	1/2	1/2	1/2	9/16	1/2	58	5.9	5/8	58	\$/8 (16
5/16	5/16	1/2	58	5/8	3,6	38	7/16	13/16	15/16	1-1/16	9/16	3/4	1-1,05	14/15	58	58	1-1/16	1-10%	31/16	1-336	15/16	1-1/4	1-1/6	1-3/8	1-tr
1.7	38	32	58	5.8	82	67	9.9	10.0	12.0	12.0	17.3	14.0	22.0	20.6	20.5	18.0	23.4	23.4	32.5	33.0	20.8	40.2	48.5	43.0	65.3
0.4)	1(3,2)	1.900	-		1(23.5)	1(23;5)	(37.50)	1(3579)	(45.4)			1(53.0)	(03(3)	(78.0)	177.54	1(68.1)	(000 Er			(128)	(787)	(152)	4 (102)+		
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			13/16 (	46						1-151	5 (49)				2-9/16 (65)						2	2-13/16 (71)			
						Ĩ				1-7/	S (48)				2-1/2 (65)					2-3/4 (70)					
										11/3/8	3 (15)				2-1/8/640							2-19 (54)			
(w/ Optional Sleve)									2-14	1540				2-3/4 (70)						3 (76)					
1-3/4 (45) 20-1/8 (511)											-				26-7/6 (706)							31-9/18 (802)			
6207										62	67				6211							git			
			5306							53	06							53	09				5309		
9.72 (7.25 kW)										9.72 (7	25 kW)	9			35.87 Q6.76 kW) 35.87 Q6.7								s kwi		
												75 95	IG (527	1900											
												ille	/33 (8)												
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- \*† Dimensions shown are for packed box only.

  \*\* O D. of shaft through stuffing box is 1-3/4 in. in standard S Group sleeveless construction.
- All dimensions in inches and (mm), weights in Lbs. and (kg).

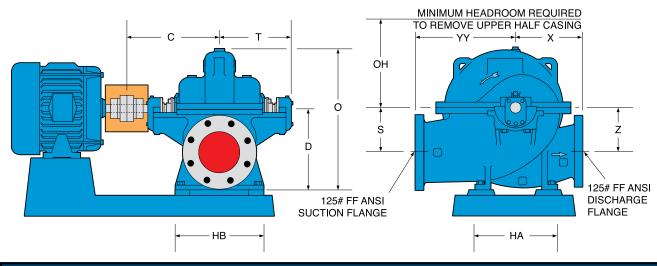
# **Bearing Protection**

Goulds Model 3410 is available in a vertical configuration (3410 V). This arrangement is ideal for applications with limited space such as shipboard service. A rugged fabricated steel frame supports the pump and driver, providing a machined fit for positive alignment when using standard P-base or C-Face motors.



Model 3410 V

# **Dimensions**



DIMENSIONS DETERMINED BY PUMP													
Frame Group	Pump Size	С	Т	D	0	ОН	S&Z	х	YY	НА	НВ	Wt. Lbs (kg)	
S	2x3-11	14.62 (371)			18.38 (467)	12.38 (314)	7.25 (184)	7.50 (190)	9.00 (229)			330 (150)	
	3x4-10				18.91 (480)	12.75 (324)	7.00 (178)	9.00 (229)	10.50 (267)			333 (151)	
	4x6-9		11.76 (209)	11.50 (292)	17.88 (454)	10.88 (276)	6.00 (152)	8.50 (216)	10.00 (254)	12.00 (305)	12.50 (318)	334 (152)	
	4x6-11/H		, ,		19.22 (488)	13.25 (336)	6.00 (152)	10.50 (267)	12.38 (314)			410 (186)	
	4x6-13/H				20.59 (523)	15.88 (403)	6.00 (152)	11.00 (279)	13.25 (336)			472 (215)	
	4x6-15				25.88 (657)	17.38 (441)	9.50 (241)	10.00 (254)	14.50 (368)		16.75 (425)	637 (290)	
	6x8-11				26.44 (672)	16.00 (406)	9.00 (229)	12.00 (305)	14.50 (368)	16.00 (406)		692 (315)	
	6x8-14/H				25.75 (654)	16.75 (425)	9.00 (229)	13.00 (330)	15.50 (394)			665 (302)	
M	6x8-17	18.00 (457)	13.88 (353)	16.00 (406)	27.88 (708)	20.62 (524)	9.00 (229)	14.25 (362)	15.75 (400)			885 (402)	
	8x10-11				25.50 (648)	15.25 (391)	9.00 (229)	13.25 (336)	17.00 (432)			737 (335)	
	8x10-12				27.31 (694)	17.38 (441)	8.75 (222)	13.00 (330)	19.50 (495)			858 (398)	
	8x10-14				28.50 (724)	19.50 (495)	8.75 (222)	13.88 (352)	19.50 (495)			996 (453)	
	6x8-22				40.50 (1029)	22.50 (572)	13.50 (343)	20.50 (520)	22.00 (559)			1495 (680)	
	6x10-17	21.00 (533)		22.00 (559)	33.88 (860)	20.62 (524)	11.00 (279)	16.50 (419)	20.00 (508)	22.50 (572)	18.00 (457)	1015 (461)	
	8x10-17/H				34.06 (865)	20.88 (530)	10.00 (254)	16.50 (419)	20.00 (559)			1286 (585)	
L	8x10-21		16.28 (414)		36.31 (922)	24.88 (632)	13.00 1(330)	17.00 (432)	20.30 (521)			1520 (691)	
	10x12-12				34.88 (886)	19.12 (486)	11.00 (279)	14.00 (356)	21.00 (533)			1229 (559)	
	10x12-14				34.00 (864)	19.25 (489)	11.00 (279)	16.75 (426)	21.00 (533)			1410 (641)	
	10x12-17				37.50 (952)	30.75 (781)	11.50 (292)	17.62 (448)	22.50 (572)			1709 (777)	
	10x12-12 H				39.50 (1003)	21.75 (552)	13.00 (330)	15.00 (381)	22.00 (559)			2168 (985)	
XL	10x12-15	23.19 (589)	17.64 (448)	24.00 (610)	38.00 (965)	21.50 (533)	13.00 (330)	16.00 (406)	24.00 (610)	22.50 (572)	27.00 (686)	1720 (782)	
	12x14-15	(505)	(440)	(010)	36.50 (927)	21.75 (552)	13.00 (330)	18.00 (457)	25.00 (635)	(372)	(000)	2500 (1136)	

All dimensions are in inches (mm) and are not to be used for construction or installation purposes. Sizes 2x3-11, and 4x6-11/H, 3x4-10, 8x10-21 & 6x8-22 are furnished with 250# FF discharge flange as standard. Standard rotation is right hand (CCW). Optional rotation is left hand (CCW). Steel casings will have 150# or 300# flanges.

# **Specifications**

#### General

Pump shall be single stage, double suction design. Materials shall be bronze-fitted, 316 stainless steel trim or all 316SS. High efficiency, heavy duty design and maintenance features shall be of primary importance as described in following specifications.

### Casing

Shall be horizontally split with upper and lower halves bolted together. Flanged suction and discharge connections shall be located in lower half. Removal of upper half shall permit inspection, maintenance or removal of entire rotating element without disturbing suction or discharge piping or driver. Seats for stuffing box bushing shall be cast and bored integrally with lower half casing. Casing shall be supported by integrally cast feet. Upper half shall have taps for seal piping, priming and vents. Lower half shall have taps for gauges and draining. Casing shall have permanently fixed stainless steel nameplate.

### Impeller

Shall be enclosed, double suction to provide hydraulic balance, and cast in one piece. Exterior surfaces shall be machined, interior water ways hand finished. Shall be dynamically balanced and keyed to shaft.

### Wearing Rings

Case wear rings shall be supplied to maintain proper running clearance with impeller hubs and to minimize leakage between suction and discharge chambers of casing. Shall be held in position by anti-rotation pins. Impeller shall be designed to accept impeller wear rings. Impeller rings shall be held in position by axial set screws.

#### Shaft

Shall have as short a span as possible to minimize deflection and vibration. Shall be completely sealed by gaskets between the shaft sleeves and impeller hubs to assure shaft is completely dry during operation.



### Shaft Sleeves (Except S Group)

Shall be held in position by sleeve nuts located outside the stuffing box area. Shall be key driven at the impeller end. An O-ring seal shall be provided to prevent leakage between sleeves and sleeve nuts.

### Stuffing Boxes

Shall be integral with casing. Shall contain die-formed packing, split, removable lantern rings and renewable stuffing box throat bushings. Shall have tapped openings for water sealing either from casing or from outside source. Glands shall be split so it will be unnecessary to unbolt gland halves when repacking box.

### Mechanical Seals

Pump shall be furnished with (single, double balanced, cartridge) mechanical seals.

## **Bearing Housings**

Seats shall be cast and bored integrally with lower half casing to assure accurate alignment of rotating assembly without need for external adjustment.

### **Bearings**

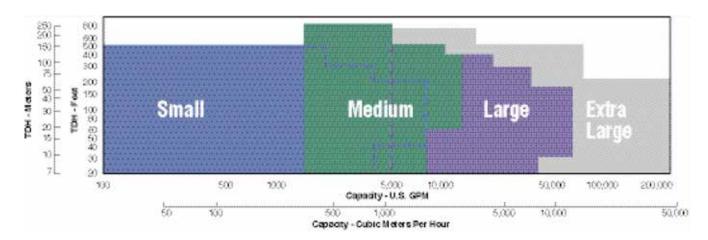
Double row ball bearing shall be provided on thrust end; single row deep grove ball bearing on coupling end. Thrust bearing shall be held in position on shaft with tapered snap ring and locked in bearing housing. Radial bearing shall be free to float axially in housing to take radial load only. Housings shall be completely sealed by Inpro VBX labyrinth seals to exclude moisture and dirt making units suitable for outdoor installation. Shall be grease lubricated with reliefs to prevent over lubrication.

### **Bedplate and Coupling**

Bedplate shall be cast iron with drip collection chamber, tapped drain connection and opening for grouting. Flexible coupling shall be supplied.

# 3410

# The Most Complete Line of Double Suction Pumps in the Industry



## **Small Capacity**

Flows to 8,000 GPM

#### 3408

- Capacities to 6,000 GPM (1363 m3/h)
- Heads to 570 Ft. TDH (174 m)
- Temperatures to 250° F (120° C)
- Working Press. to 400 PSI (2758 kPa)

#### 3410

- Capacities to 8,000 GPM (1817 m3/h)
- Heads to 570 Ft. TDH (174 m)
- Temperatures to 350° F (177° C)
- Working Press. to 250 PSI (1724 kPa)

### Large Capacity

Flows to 65,000 GPM

#### 3420

- Capacities to 65,000 GPM (14,762 m3/h)
- Heads to 400 Ft. TDH (122 m)
- Temperatures to 275° F (135° C)
- Working Press. to 200 PSI (1379 kPa)



## **Medium Capacity**

Flows to 12,000 GPM

#### 3409

- Capacities to 12,000 GPM (2725 m3/h)
- Heads to 850 Ft. TDH (259 m)
- Temperatures to 250° F (120° C)
- Working Press. to 400 PSI (2758 kPa)



### Extra Large Capacity

Flows to 225,000 GPM

### 3498

- Capacities to 225,000 GPM (51,098 m3/h)
- Heads to 800 Ft. TDH (244 m)
- Temperatures to 275° F (135° C)
- Working Press. to 250 PSI (1724 kPa)



# Notes

# Locations



For more information Please Visit: www.gouldspumps.com | www.ittproservices.com



- An ITT Brand

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