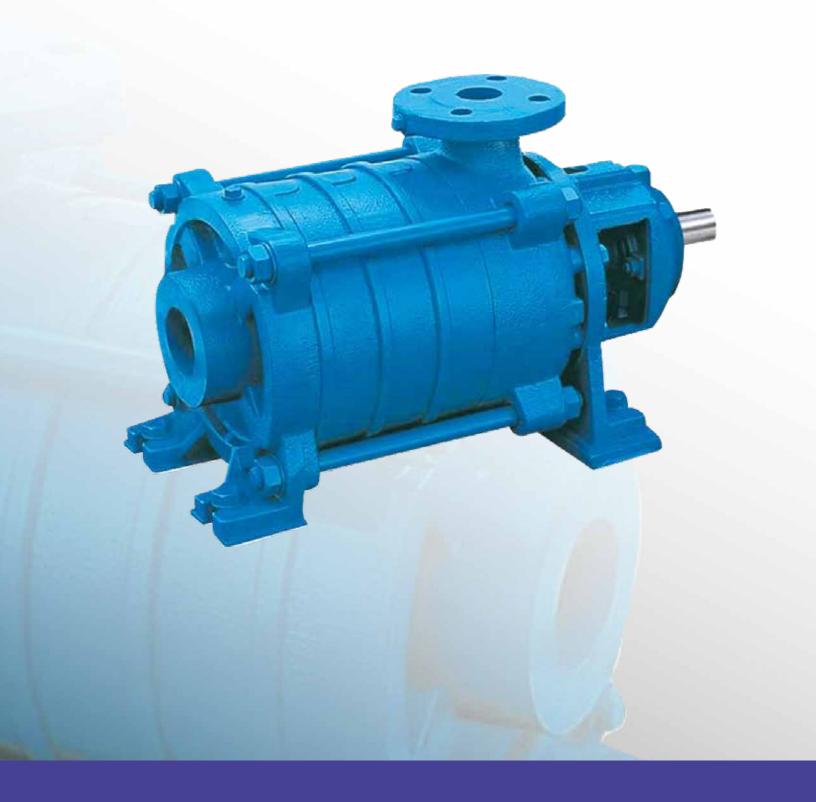


# Goulds 3355

Multistage Process Pump



## 3355

#### Multistage Pumps Designed for a Wide Range of High Pressure Services

- Capacities to 1,500 GPM (340 m<sup>3</sup>/hr)
- Heads to 1,640 feet (500 m)
- Temperatures to 280° F (140° C)
- Pressures to 800 psig (55 bar)

## Performance Features for High Pressure Services

#### **Improved Reliability**

- Heavy duty bearing design
- No external balance lines
- Internal seal flushing
- Metal to metal casing fits

#### **Ease of Maintenance**

- Modular design
- Off-the-shelf components
- Fully interchangeable stages
- No balancing drum/disc
- Fewer parts than traditional designs
- Metal fits guarantee alignment
- No flush/bypass lines
- · Easily retrofitted

#### Safety

- ANSI B15.1 Coupling Guard
- Fully confined stage o-rings
- Internal flushing & balance
- Raised face flanges

#### **Applications**

- Boiler Feed
- Condensate Return
- Deaerator
- Reverse Osmosis
- Shower/Spray Service
- · Mine De-watering
- Cleaning Systems
- Seal Water Booster
- Product Transfer
- Reactor Feed
- Pressure Boosting

### Multiple nozzle orientations to fit your piping configurations.



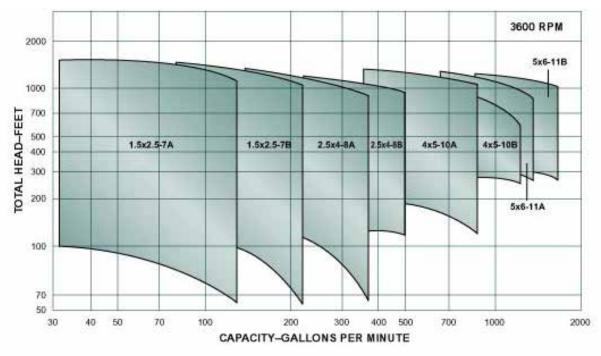
Radial Suction Configuration. Radial nozzles are rotatable at 90° increments.



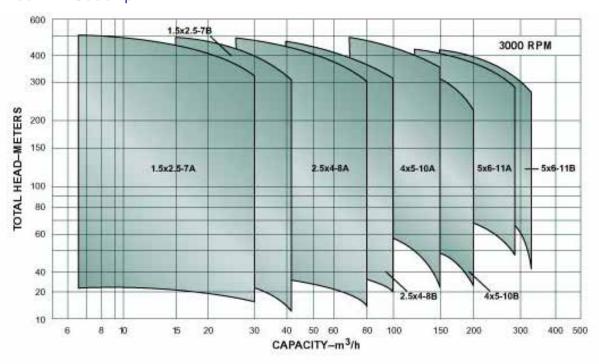
End Suction Configuration. Optional Inducer is available for low NPSH applications.

# Hydraulic Coverage

60 Hz / 3600 rpm



#### 50 Hz / 3000 rpm



# Rugged Design Features for Wide Range of Services

#### **DIFFUSERS**

Eliminates radial loads to assure long bearing life.

## ANGULAR CONTACT, DOUBLE-ROW THRUST BEARINGS

Can carry a thrust load in either direction

#### INTERNAL BALANCING

Eliminates the need for balance lines outside the pump.

#### Wear Rings

Optional case wear rings available

#### **SHAFT**

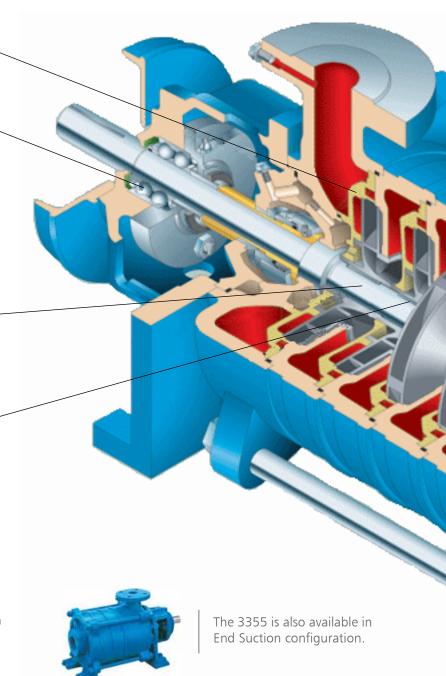
Standard material is 12-13% chrome for improved shaft strengths and corrosion resistance.

#### **KEYED IMPELLERS**

Offset keys ensure rotational shaft balance.

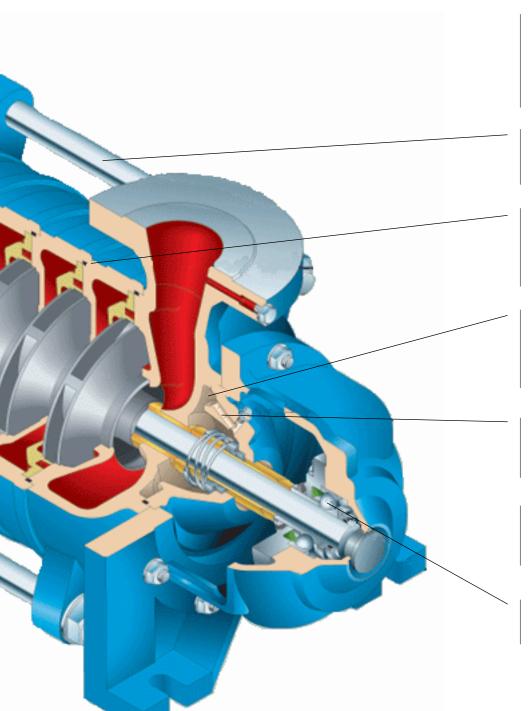


As optional inducer is available on the End Suction configuration for low NPSH applications.



#### **FEWER PARTS**

The 3355 uses fewer parts than traditional multistage pumps with balancing devices, which means less inventory and increased maintenance ease.



#### PRODUCT LUBRICATED BEARINGS

#### (ES Configuration)

Frontal sleeve bearing is located behind first stage of the impeller for improved performance and reliability.

#### HIGH STRENGTH TIE RODS

Bolting machined to SAE standards using high tensile strength steel, resulting in easy maintenance.

#### INTERSTAGE CASING FITS

Metal fits ensure proper alignment of the stages at any temperature. No deflection due to o-ring-fits.

#### **SEAL CHAMBER**

Taper Bore design eliminates the worry associated with venting. Improved flow to the seal helps extend seal life.

#### INTERNAL SEAL FLUSHING

Special internal channels ensure the seal always has sufficient flushing fluid.

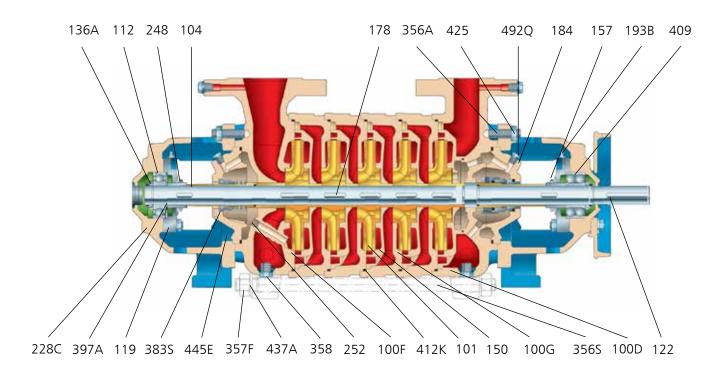
#### **MULTIPLE HYDRAULICS**

Two impeller/diffuser combinations per size maximizes efficiency at all conditions of service.

#### **DEEP-GROOVE BALL BEARINGS**

Are unconstrained to accommodate thermal expansion.

# Other Features for **Application Flexibility**



#### Parts List and Materials of Construction

Item		Material								
Number	Part Name	Cast Iron	CI/SS Fitted	All Stainless Steel Stainless Steel (3)						
100F	Casing (Suction)	Ductile Iron (1)	Ductile Iron (1)							
100D	Casing (Discharge)	Ductile Iron (2)	Ductile Iron (2)	Stainless Steel						
101	Impeller	Cast Iron								
150/150L	Diffuser	Cast Iron	Cast Iron	Stainless Steel						
103	Case Wear Ring (Optional)	Stainless Steel	Stainless Steel	Stainless Steel						
228C	Bearing Bracket	Cast Iron Cast Iron		Cast Iron						
119	Bearing Cover	Cast Iron	Cast Iron	Cast Iron						
184	Seal Cover	Cast Iron	Cast Iron	Stainless Steel						
197A	Bearing - Bushing (5)	Bronze	Bronze	Bronze						
122	Shalt	12% Chrome	12% Chrome	Duplex St. St.						
104/126	Sleeve	12% Chrome	12% Chrome	Duplex St. St.						
356S	Tie Rod	Carbon Steel	Carbon Steel	Carbon Steel						
136A	Bearing Nut	Carbon Steel	Carbon Steel	Carbon Steel						
100G	Stage Casing	Cast Iron	Cast Iron	Stainless Steel						
157	Spacer Sleeve	Stainless Steel	Stainless Steel	Stainless Steel						
248	Thrower	Rubber	Rubber	Rubber						
358	Drain Plug	Carbon Steel	Carbon Steel	Stainless Steel						
252	Throttling Element		316 Ti	A STATE OF THE PERSON NAMED IN COLUMN 1						
193B	Grease Nipple		Carbon Steel							
383/3835	Mech Seal		depends on seal configuration							
409	Radial Ball Bearing	Steel Steel		Steel						
112	Radial Ball Bearing	Steel	Steel	Steel						
357F	Nut		Carbon Steel							
425	Nut		Carbon Steel							
412K	O-Ring - all	EPDM	EPDM	EPDM						
178	Key - all	12% C	hrome	Duplex Stainless Steel						
356A	Stud		- International Control of Contro							
445E	Pin	Carbon Steel 316 SS								
397A	Disc Spacer	Carbon Steel								
492Q	Plug	Carbon Steel								
437A	Washer - all	Carbon Steel								

- (1) Standard flange rating is 150#RF for radial suction and 150#RF for end suction. End suction casing is cast iron material.
- Sarroand fange rating is 300 PR Casing material is stainless steel with optional 600 PR flange.
   Standard flange rating is 300 PR for radial suction and 150 PR for end suction.
   Standard flange rating is 500 PR for radial suction and 150 PR for end suction.
   Standard flange rating is 600 PR.
   Only on end suction configuration.

# **Dimensions**

#### Radial Suction

**End Suction** 

#### **Dimensions**

Pump Size	NPSI	NPS2	A	w	D	х	
1.5x2.5-7	1.5	2.6	9.06	11.02	5.51	7.09	
2.5x4-8	2.6	4	9.84	12.40	6.30	8.27	
4x5-10	4	5	13.38	14.58	5.27	9.84	
5x6-11	5	6	16.75	17.72	9.84	11.81	

#### **Number of Stages**

Pump Size		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.5x2 5-7	М	5.71	7.87	10.04	12.20	14.37	16.54	18.70	20.87	23.03	25.20	27.38	29.53	31.69	33.86	38.00
	CP	24.72	26.88	29.05	31.21	33.38	35.55	37.71	39.88	42.04	44.21	46.37	48.54	50.70	52.87	55.03
	Y	9.44	11.61	13.78	15.94	18.11	70.28	22.44	24.60	26.77	28.94	31.10	33.27	35.43	37.60	39.77
2.5x4-8	M	7.09	9,84	12,60	15.36	18.11	20.87	23.62	26.38	29.13	31.88	34.65	37.40			
	CP	28.64	31.29	34.05	36.80	39.56	42.32	45.07	47.53	80.08	53.33	50.10	56.85			
	Y	11.02	12.78	16.54	19.29	22.05	24.80	27.56	30.31	33.07	35.83	38.58	41.33			
4x5-10	M	10.03	13.39	16.73	20.00	23.43	26.77	30.12	33.47							
	CP	35.26	38.62	41.96	46.31	48.66	52.00	66.35	58.70							
	Y	15.75	19.09	22,44	29.79	29.13	32.48	36.83	39.18							
5x6-11	M	12.40	16,54	20.67	24,80	28.94	33.07									
	CP	43.31	47.45	51.58	85.71	59.65	63.86									
	Y	18.90	23.08	27.17	31.30	35.43	39.57									

<sup>\*</sup>Note: Add 0.79" to "Y" dim for size 2.5x4-8 with inducer design.

## Locations



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



- An ITT Brand

240 Fall Street

Seneca Falls, NY 13148 Phone: 315.568.2811 Fax: 315.568.2418 www.gouldspumps.com

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