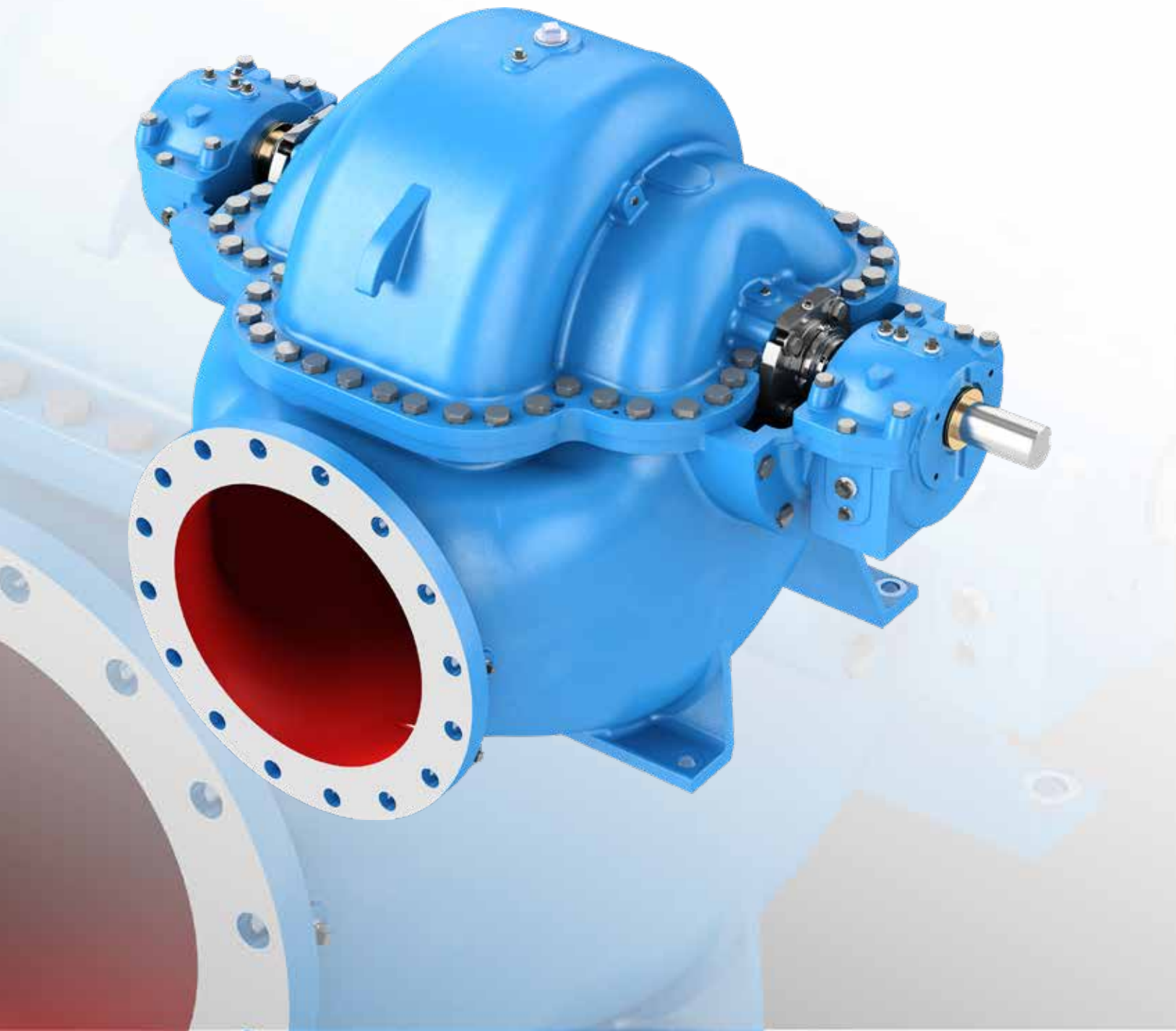


Goulds 3498

Large Capacity, Single Stage,
Double Suction Pump



3498

Double Suction Pumps Designed for a Wide Range of Heavy Duty Industrial, Marine and Power Generation Services

- Capacities to 8,00 m³/h (35,000 GPM)
- Heads to 170 m (550 ft)
- Temperatures to 135° C (275° F)
- Working Pressures to 1724 kPa (250 PSIG)

Design Features

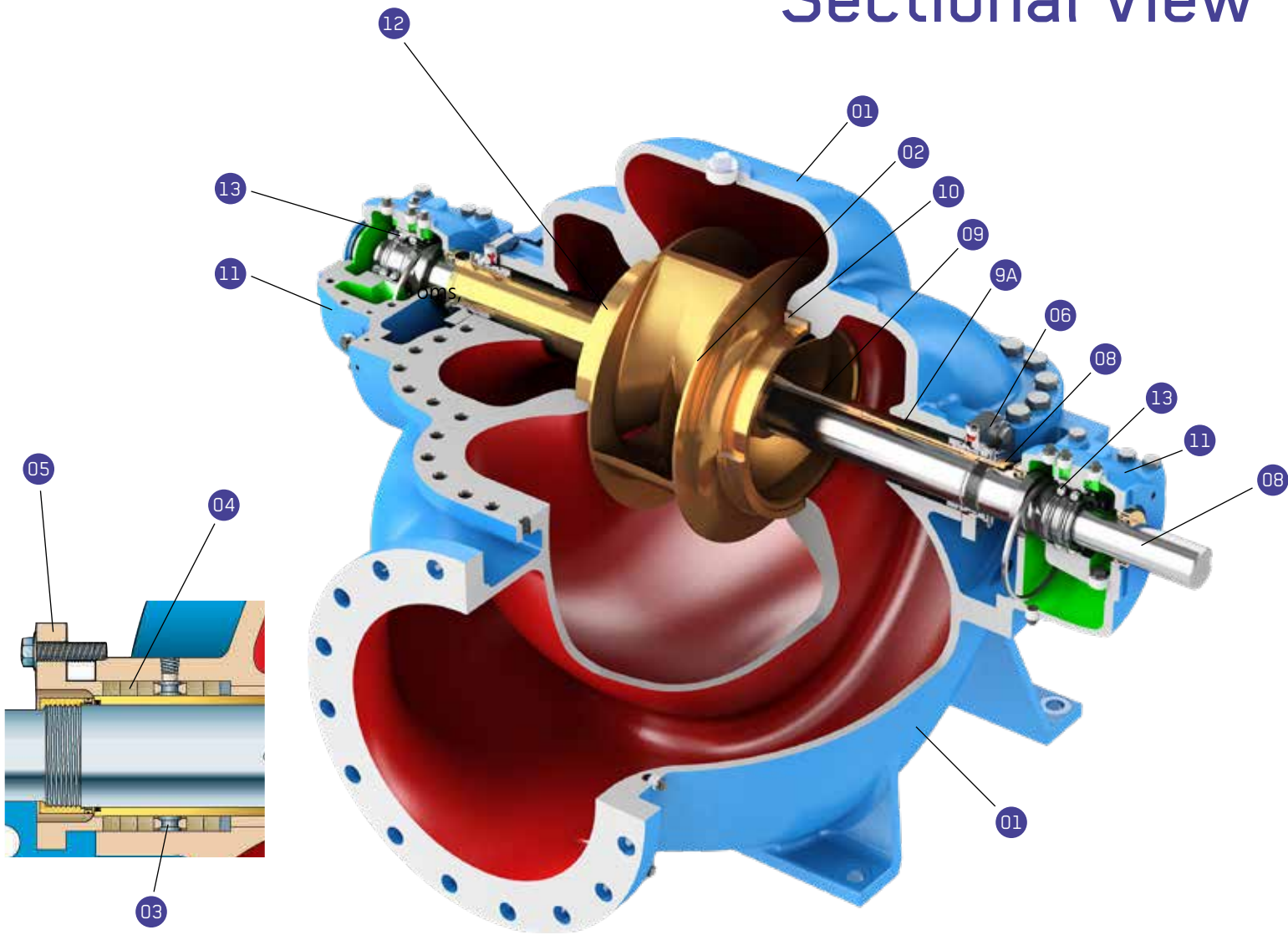
- **Horizontally Split Casing** - In-line suction and discharge nozzles in lower half casing for ease of inspection/maintenance.
- **Double Suction Impeller** - Assures hydraulic axial balance for lower thrust bearing loads, longer pump life, and low maintenance.
- **Dual Volute Casing** - Assures Radial Balance for lower radial bearing loads, longer pump life and lower maintenance (Availability is size dependent.)
- **Wear Rings** - Easily replaceable wear rings renew running clearances, protect against impeller, casing wear. Overall cost of operation is minimized.
- **Sealing Flexibility** - Choice of packing or wide range of mechanical seals.
- **Installation Versatility** - Horizontal or vertical mounting, clockwise or counter clockwise rotation.
- **Material Flexibility** - Available in a wide variety of metals from cast iron to stainless steels.



Services

- **Process** - Quench water, stripper bottoms, reboiler circulation, cooling tower
- **Pulp & Paper** - Primary and secondary cleaner, filtrate, mill water supply shower, fan pump, headbox supply, shower
- **Primary Metals**- Cooling Water, Quench and Leaching
- **Municipal** - High Lift, Low Lift, Wash Water, Waste Water, Raw Water
- **Power Generation** - Cooling Tower, Component Cooling, Service Water, Ash Sluicing, Heater Drain
- **Marine** - Bilge and Ballast, Cargo, Cooling Water, Fire Pump
- **General** - River Water, Brine, Sea Water

Sectional View



Parts List and Materials of Construction

Part Number	Part Description	Bronze Fitted	All Iron	316SS Fitted	All 316SS
1	Casing		Cast Iron		316SS
2	Impeller	Bronze	Cast Iron		316SS
3	Lantern Ring		PTFE		
4	Packing		Graphite Impregnated Yarn		
5	Packing Gland	Bronze	Cast Iron		316SS
6	Mechanical Seal Gland		Cast Iron		316SS
7	Shaft		Carbon Steel		
8	Shaft Sleeve Nut	Bronze	Cast Iron		316SS
9	Shaft Sleeve ¹ , Impeller	Bronze	Cast Iron		316SS
9A	Shaft Sleeve, Stuffing Box	Bronze	Cast Iron		316SS
10	Casing Wear Ring ¹	Bronze	Cast Iron		316SS
11	Bearing Housings		Cast Iron		
12	Impeller Wear Ring ¹	Bronze	Cast Iron		316SS
13	Bearings		Steel (Anti-Friction)		

¹ Also available in hardened/hard metal coated materials

3498 Large Capacity, Single Stage, Double Suction Pumps

Heavy Duty Design Features for a Wide Range of Water Supply and Process Services

RENEWABLE CASE WEAR RINGS

Permits easy maintenance of proper running clearances. Locked in lower half casing to prevent rotation.

HIGH THRUST CAPABILITY

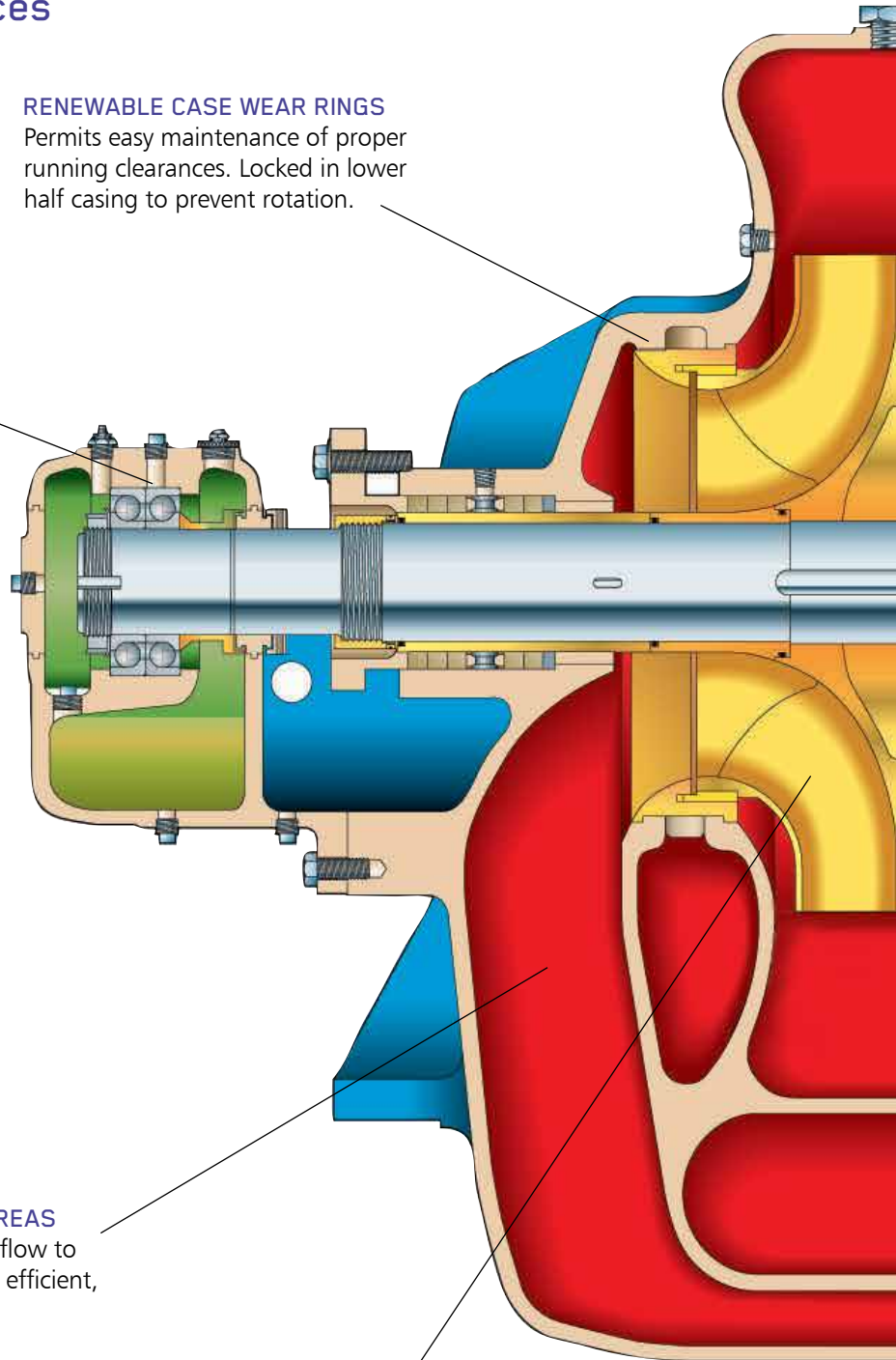
Spherical roller bearings handle unexpected thrusts. Secured with locknut and washer.

LARGE INLET AREAS

Assures smooth flow to impeller inlet for efficient, quiet operation.

DOUBLE SUCTION IMPELLER

Minimizes axial thrust. Highly efficient for smooth, vibration-free operation.





HEAVY DUTY CASING

Casing walls designed to withstand pressure extremes. Rugged design resists external forces and vibrations. Both suction and discharge connections in lower half casing. Removal of upper half casing permits inspection, maintenance and removal of the complete rotating element without disturbing piping or driver.

RENEWABLE IMPELLER WEAR RINGS AVAILABLE

A must for proper maintenance of running clearances. Rings are mechanically locked onto impeller hubs.

POSITIVE LIQUID SEALING

Gaskets between impeller and sleeves, and O-rings between sleeves and sleeve nuts protect shaft from pumpage or confined corrosion attack.

LABYRINTH BEARING PROTECTION

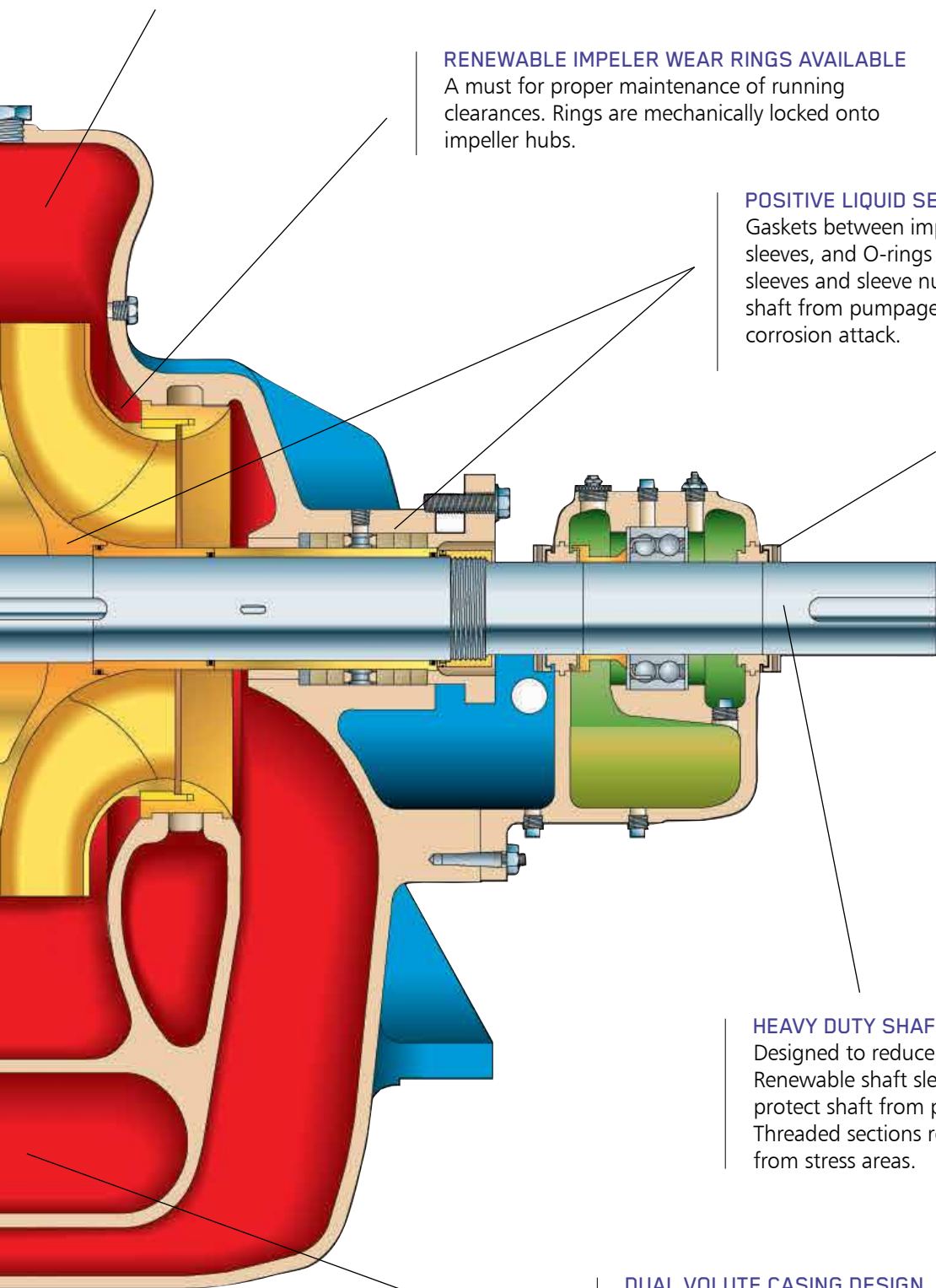
Labyrinth bearing isolators significantly reduce the chance for bearing contamination and greatly improve mean time between failures.

HEAVY DUTY SHAFT

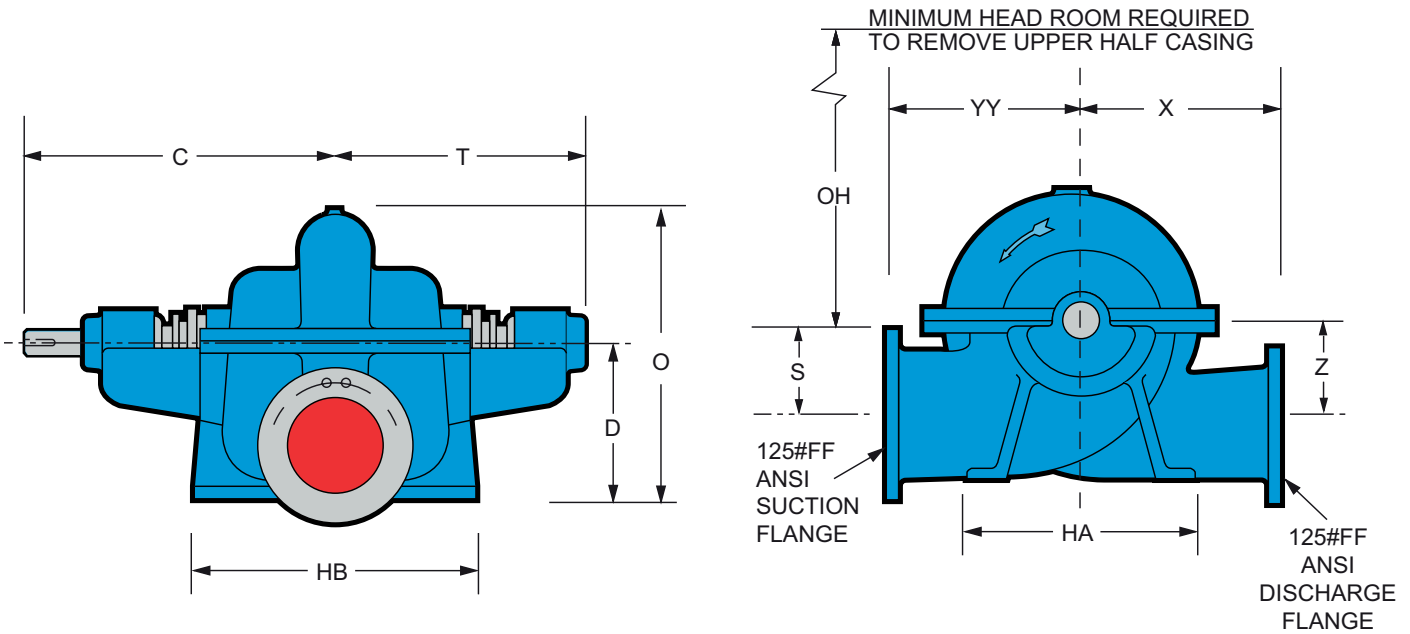
Designed to reduce deflection. Renewable shaft sleeves fully protect shaft from pumpage. Threaded sections removed from stress areas.

DUAL VOLUTE CASING DESIGN

Dual volutes having cutwaters 180° apart provide opposing radial forces reducing radial loads on bearings and minimizing shaft deflection. Permits smooth, trouble-free operation over wide range of flow rates.



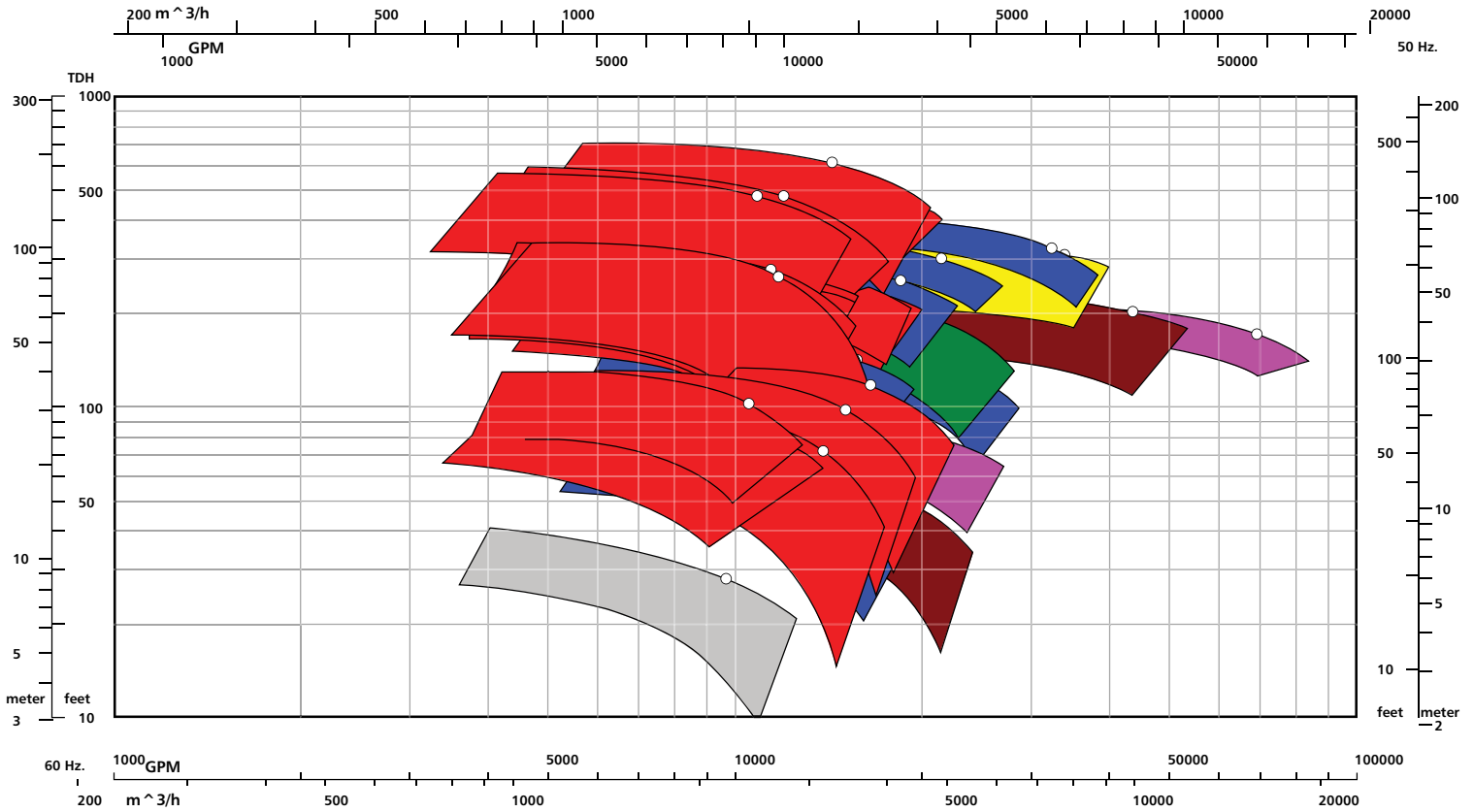
Dimensions and Weights



Pump Size	C	T	D	O	OH	S	Z	X	YY	HA	HB	Weight Lbs. (kg)
12x18-34*	42.0 (1067)	35.0 (889)	29.0 (737)	54.0 (1372)	42.3 (1073)	22.5 (572)	24.0 (610)	30.0 (762)	38.0 (965)	51.0 (1295)	44.0 (1118)	6600 (2994)
16x18-18*	33.0 (838)	31.0 (787)	23.0 (584)	38.0 (965)	23.9 (606)	13.0 (330)	14.0 (356)	17.0 (432)	24.0 (610)	24.0 (610)	38.0 (965)	3000 (2994)
16x18-28*	40.0 (1016)	36.0 (914)	29.0 (737)	52.0 (1321)	36.7 (931)	23.0 (584)	22.0 (559)	34.0 (864)	35.0 (889)	51.0 (1295)	42.0 (1067)	5000 (2268)
16x20-24	45.0 (1143)	35.5 (902)	28.0 (711)	49.0 (1245)	33.5 (851)	17.0 (432)	19.5 (495)	24.0 (610)	30.0 (762)	30.0 (762)	42.0 (1067)	4600 (2087)
18x20-24*	46.0 (1168)	36.4 (925)	26.0 (660)	47.0 (1194)	33.3 (845)	18.0 (457)	19.0 (483)	21.0 (533)	32.0 (813)	35.0 (889)	51.0 (1295)	4380 (1987)
20x20-18	36.0 (914)	31.0 (787)	29.0 (737)	47.0 (1194)	26.5 (673)	18.0 (457)	18.0 (457)	18.0 (457)	29.0 (737)	31.0 (787)	40.0 (1016)	3480 (1579)
16x24-24	40.0 (1016)	33.0 (838)	20.0 (508)	41.0 (1041)	33.5 (851)	20.0 (508)	20.0 (508)	22.0 (559)	34.0 (864)	36.0 (914)	42.0 (1067)	5700 (2585)
16x24-38*	49.0 (1245)	41.0 (1041)	32.0 (813)	59.5 (1511)	46.5 (1181)	26.0 (660)	26.0 (660)	48.0 (1219)	42.0 (1067)	53.0 (1346)	50.0 (1270)	11000 (4990)
18x24-34*	45.0 (1143)	38.0 (965)	24.0 (610)	48.0 (1219)	40.5 (1029)	24.0 (610)	21.0 (533)	36.0 (914)	39.0 (991)	56.0 (1422)	50.0 (1270)	6980 (3166)
20x24-20	40.0 (1016)	38.0 (965)	34.0 (864)	55.0 (1397)	30.7 (780)	21.0 (533)	21.0 (533)	25.0 (635)	33.0 (838)	40.0 (1016)	46.0 (1168)	5500 (2495)
20x24-20S/L	34.0 (864)	28.0 (711)	20.0 (508)	40.0 (1016)	29.6 (752)	20.0 (508)	20.0 (508)	20.0 (508)	42.0 (1067)	38.0 (965)	48.0 (1219)	5100 (2313)
24x24-26*	40.0 (1016)	36.0 (914)	35.0 (889)	56.0 (1422)	33.8 (857)	21.0 (533)	21.0 (533)	26.0 (660)	35.0 (889)	40.0 (1016)	54.0 (1372)	6650 (3016)
20x30-34*	51.0 (1295)	40.0 (1016)	30.3 (768)	56.0 (1422)	43.0 (1092)	22.5 (572)	22.5 (572)	34.3 (870)	42.0 (1067)	44.0 (1118)	60.0 (1524)	12200 (5534)
20x30-40*	52.0 (1321)	41.0 (1041)	34.0 (864)	64.0 (1626)	49.5 (1257)	26.3 (667)	26.3 (667)	33.0 (838)	46.0 (1168)	44.0 (1118)	60.0 (1524)	13500 (6123)
24x30-30*	51.0 (1295)	55.0 (1397)	31.0 (787)	59.0 (1499)	43.4 (1102)	19.0 (483)	22.0 (559)	30.0 (762)	45.0 (1143)	52.0 (1321)	56.0 (1422)	9500 (4309)
24x30-36**	50.38	36.25	43.75	75.25	51.5		28.5	38.5		51.0	62.63	12000 (5443)
36x42-50	65.0	54.13	75.0	116.25	68.75	40.0	40.0	72.5	72.5	92.0	69.0	48000 (21772)
42x48-44	65.38	55.88	74.5	116.0	65.5	43.0	43.0	67.0	85.0	124.0	84.0	46000 (20885)

All dimensions in inches (mm) and are not to be used for construction or installation purposes. Standard rotation is right hand (CW), Optional rotation is left hand (CCW). Side suction casing illustrated. * indicate sizes available with bottom suction casing. Steel casings will have 150#RF flanges. ** Available as bottom suction only.

Hydraulic Coverage



- 1190 RPM
- 980 RPM
- 890 RPM
- 735 RPM
- 505 RPM
- 590 RPM
- 490 RPM

Locations



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



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