INTO HANDEL LTD

API INDUSTRIAL PUMPS & COMPRESSORS

Technical Profile

GT range

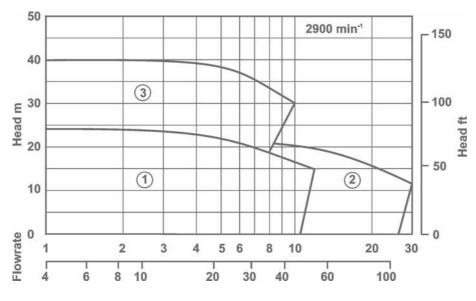
Magnet drive end suction centrifugal pumps for general applications

For general transfer duties, the GT pump has been specifically designed as a compact, cost-effective and minimum maintenance pump. The GT is sized below ASME / ISO dimensions and has a number of features, which make it one of the most highly competitive pumps in its class. Thanks to its simplicity of maintenance, space-saving design and interchangeability, the GT pump proves a very popular choice.

GT pumps are of a close coupled construction and can be supplied free standing or baseplate mounted. Prime mover specif cations of all denominations can be catered for with a range of Synchronous Magnet Drives rated to match.

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Performance of the GT range



Pump model

	GTA	GTI	
1	1 x 1 x 5	25-25-125	
2	2 x 1.5 x 5	50-40-125	
3	1 x 1 x 6	25-25-160	



The GT pump is designed to operate from -40°C up to 260°C, -40°F up to 500°F without the need for any ancillary cooling medium. Design working pressure is 18.9 bar, 275 psi.

Sundyne

HMD Kontro

Solids handling capability

The unit is capable of handling solids up to 5% w/w less than 150 microns.

Options

Materials of construction

Wetted parts Alloy 20, Alloy C Gasket PTFE

Other options

Casing drains f anged or screwed Jacketed pump casing Large range of pump protection



Key Design Features

- No seals: To minimise maintenance, all of the associated costs and eliminate potential leaks.
- **Sealless design:** For total containment, essential for hazardous, aggressive or valuable product.
- **Interchangeability of components:** For maximum convenience and reduced stock holding, operator training etc.
- High efficiency wet end: To beneft maximum f ow / head coverage.
- Wide choice of materials: To allow a choice of various metals in the construction of your pump.
- Casing gasket fully confined: So eliminating risk of blowout.
- **Universal connection options:** So that suction and discharge f ange connections can be configured to your exact requirements.
- **Modular rotating element cartridge:** Providing the most eff cient way to perform replacements and manage your spare part inventory.

Benefits of GT pump range

- Sealless design for total product containment
- Low capital cost
- Compact modular design
- Low running costs
- Minimal downtime
- Supplied with ASME or ISO f anges

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10	500	30	90	860	100	440	20	450
	170A			170B				

10	Neck Ring [Front]	316 Stainless Steel
20	Shaft / Inner Magnet Ring	316 Stainless Steel
30	Impeller Fixing	316 Stainless Steel
60	Impeller	316 Stainless Steel
70	Front Thrust Washer	Alpha SiC
90	Bush Holder	316 Stainless Steel
100	Bush	Alpha SiC
130	Thrust Pad	Alpha SiC
170	Casing Gasket	CSF
170A	Drain Gasket [Optional]	CSF
170B	'O' Ring	Viton A
200	Containment Shroud/Shell	316L Stainless Steel
200 390	Containment Shroud/Shell Support Gasket	316L Stainless Steel Exfol. Graphite
	· ·	
390	Support Gasket	Exfol. Graphite
390 410	Support Gasket Casing	Exfol. Graphite 316 Stainless Steel SG Iron
390 410 430	Support Gasket Casing Coupling Housing	Exfol. Graphite 316 Stainless Steel SG Iron
390 410 430 440	Support Gasket Casing Coupling Housing Coupling Hsg. Bump Ring	Exfol. Graphite 316 Stainless Steel SG Iron Phos. Bronze
390 410 430 440 450	Support Gasket Casing Coupling Housing Coupling Hsg. Bump Ring Motor Adaptor	Exfol. Graphite 316 Stainless Steel SG Iron Phos. Bronze Carbon Steel
390 410 430 440 450 500	Support Gasket Casing Coupling Housing Coupling Hsg. Bump Ring Motor Adaptor Pump Drain [Optional]	Exfol. Graphite 316 Stainless Steel SG Iron Phos. Bronze Carbon Steel 316 Stainless Steel
390 410 430 440 450 500 510	Support Gasket Casing Coupling Housing Coupling Hsg. Bump Ring Motor Adaptor Pump Drain [Optional] Outer Magnet Ring	Exfol. Graphite 316 Stainless Steel SG Iron Phos. Bronze Carbon Steel 316 Stainless Steel Carbon Steel

Flanges and Connections

Casing

Suction and discharge f anges are designed in accordance with the following relevant standards:

PN40.)

ANSI B16.5 Class 150 + 300 Machined with 1.5mm (0.06") high raised

DIN 2543/2545 PN16 + PN40 face having a continuous spiral groove. Machined with a 2mm high raised face with a continuous spiral groove. (Note:

these f anges are identical to BS4504

Flange Loadings

Allowable f ange loadings imposed by pipework are in accordance with Table 4 of API 685 2nd edition and exceed the values in ISO 5199 Annex C.

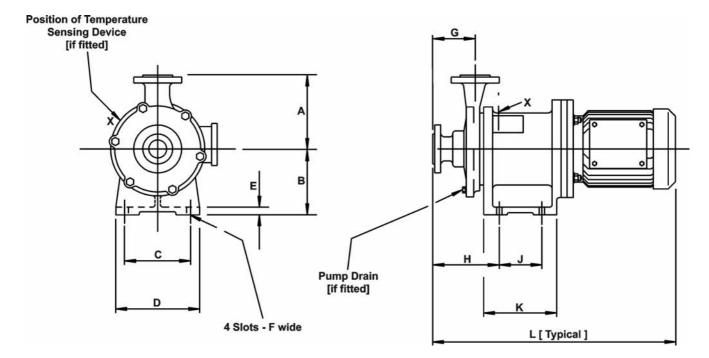
Drain Connections

The following	drain options are available:
Standard:	No drain, boss left undrilled.
Option1:	¹ /8" BSP drain plug f tted with fully trapped
	gasket.
Option 2:	³ /8" NPT plug.
Option 3:	$^{1}\!/^{2^{\prime\prime}}$ f anged drain rated to the casing f anges.

Gauge Connections:

No provision for gauge connection bosses has been made on this range.

Dimensions of GT pumps



Pump size	A	В	С	D	Е	F	G	н	J	К	Motor Frame	L	
1x1x5	160/6.3″	150/ 5.9"	150/5.9″	195/7.7″	15/0.6″	14/0.55″	85/3.35″	144/5.7″	80/3.15″	147/5.8″	80	540/21.25″	
1x1x6	160/6.3″	150/ 5.9"	150/5.9″	195/7.7″	15/0.6″	14/0.55″	105/4.13″	164/6.5″	80/3.15"	147/5.8″	90S	560/22"	
2x1.5x5	160/6.3″	150/ 5.9″	150/5.9″	195/7.7″	15/0.6″	14/0.55″	110/4.33″	171/6.7″	80/3.15″	147/5.8″	90L	584/23″	
											100L	650/25.6″	
25-25-125	160/6.3″	150/ 5.9"	150/5.9″	195/7.7″	15/0.6″	14/0.55″	85/3.35″	144/5.7″	80/3.15″	147/5.8″	112M	650/25.6″	
25-25-160	160/6.3″	150/ 5.9″	150/5.9″	195/7.7″	15/0.6″	14/0.55″	105/4.13″	164/6.5″	80/3.15″	147/5.8″	132S	700/27.5″	
50-40-125	160/6.3″	150/ 5.9″	150/5.9″	195/7.7″	15/0.6″	14/0.55″	110/4.33″	171/6.7″	80/3.15″	147/5.8″	143	570/22.5″	
											145	570/22.5″	
											182	625/24.5″	
											184	670/26.4″	
											213	700/27.5″	
											215	745/29.3″	

Dimensions shown are metric (mm) / imperial (inches).

Range capabilities

Model	Head	Flow	Design Temperature	Design Pressure	Viscosity cSt	Mounting
1x5x5	24 m 78 ft	11 m³/h 48 USgpm	-40 to 260°C -40 to 500°F	18.9 bar 275 psi	200	Close coupled (CC)
1x1x6	40 m 131 ft	10 m³/h 44 USgpm	-40 to 260°C -40 to 500°F	18.9 bar 275 psi	200	Close coupled (CC)
2x1.5x5	22 m 72 ft	30 m³/h 132 USgpm	-40 to 260°C -40 to 500°F	18.9 bar 275 psi	200	Close coupled (CC)
25-25-125	24 m 78 ft	11 m³/h 48 USgpm	-40 to 260°C -40 to 500°F	16 bar 232 psi	200	Close coupled (CC)
25-25-160	40 m 131 ft	10 m³/h 44 USgpm	-40 to 260°C -40 to 500°F	16 bar 232 psi	200	Close coupled (CC)
50-40-125	22 m 72 ft	30 m³/h 132 USgpm	-40 to 260°C -40 to 500°F	16 bar 232 psi	200	Close coupled (CC)

Pressure Lir	nits All parts	s are to be rated to th	ne pressures shown below at 38°C / 100	۱°F
Flange standard	Design press	ure		
	316 St St	Alloy 20	Alloy C	
ANSI B16.5 Class 150 + 300	1.89 MPa 275 psi	1.59 MPa 230 psi	2.0 MPa 290 psi	
BS 4504 PN16 + PN40	1.6 MPa 232 psi	1.52 MPa 220 psi	1.6 MPa 232 psi	
DIN 2543/2545 PN16 + PN40	1.6 MPa 232 psi	1.52 MPa 220 psi	1.6 MPa 232 psi	
Component	Hydrostatic to	est values		
	316 St St	Alloy 20	Alloy C	

	310 31 31	Alloy 20	Alloy C
Casing	2.93 MPa	2.41 MPa	3.1 MPa
(ANSI 150 + 300lb)	425 psi	350 psi	450 psi
Casing	2.4 MPa	2.3 MPa	2.4 MPa
(PN16 + PN40)	348 psi	330 psi	348 psi
Containment	2.93 MPa	2,41 MPa	3.1 MPa
Shroud/Shell	425 psi	350 psi	450 psi

Temperature limits

Standard Range	-40°C to 150°C / -40°F to 300°F
Option	-40°C to 260°C / -40°C to 500°F

For sub zero temperatures a suitable sealing compound (Loctite Multi Gasket or similar) is used to prevent the ingress of moisture into the coupling housing between the containment shroud/shelland motor adaptor assembly interface.

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