

P etropompSad

Pump Technologies | Pompa Teknolojile

TSP Series





Pump • Fire Fighting Units • Booster Set

TSP TWO STAGE PUMP

Handled Liquids

Clean or slightly contaminated low viscosity liquids without solid & fibrous particles.

Technical Data

Discharge Flange _____ DN100....DN250 mm

Capacity _____ up to 1250 m³/h

Head _____ up to 320 m

Speed _____ up to 1500 rpm

Operating Temperature _____ -10°C up to +140 °C

Casing Pressure (Pmax) _____ 30 bar

Pmax: Suction Pressure + Shut off Head)

The Material of pumps differ according to the type of pumped liquid, operating temperature and pressure. Contact for detailed information.

Design Features

Horizontal ring section, multistage, centrifugal pumps with closed impellers and diffusers in end suction design.

5 Models from DN100 up to DN250 discharge flange diameter.

Suction nozzle flanges conform to EN 1092 - 2 / PN 16 and discharge nozzle flanges conform to EN 1092 - 2 / PN 40 (For steel or stainless steel casing pumps, flanges conform to related pressure class ratings defined in EN 1092 - 1)

Pump Designation

Pump Type _____

Discharge Nozzle (DN-mm) _____

Number of Stages _____

TSP

250

2



Discharge flange is on top for standard production, upon request different discharge flange positions can be applied.

All impellers are balanced dynamically or statically according to ISO 9001-2015

Axial thrust is balanced by impeller balancing holes system.

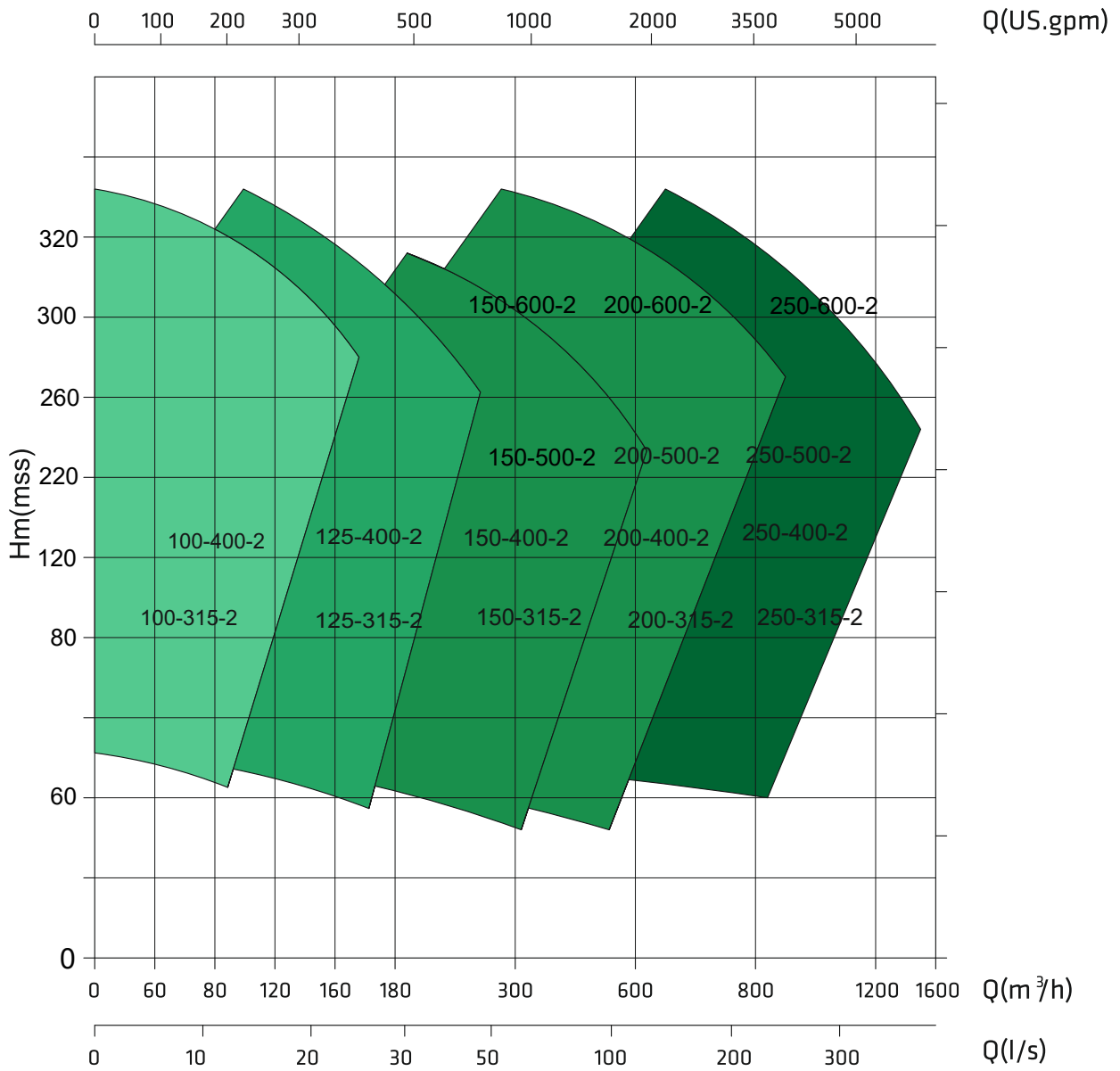
Direction of rotation is always counter clockwise viewed from drive end. That's why these pumps can not be accoupled directly with diesel engines.

Bearings of TSP type pumps are grease lubricated. Sleeve bearing used in the suction side is lubricated by the pumping liquid.

Shaft Sealing

In standard production soft packing application is applied up to 110 °C. Between 110 °C and 140 °C soft packing may also be applied together with the stuffing box cooling.

Pumps with mechanical seal can also be manufactured upon request.



Part List	0.6025	0.7040	0.7043	1.0619	1.4308	1.4309	1.4408	1.4409	1.4500	1.4517	1.4469	1.4317	1.4008	2.1050.01	2.0975.01	2.1096.01	1.0503	1.4021	1.4021+QT	1.4301	1.4404	1.4460	1.4462	Tungsten Carbide	
Suction Casing	●	○	○		○	○	○	○	○	○	○	○	○	○											
Discharge Casing	●	○	○		○	○	○	○	○	○	○	○	○	○											
Stage Casing	●	○	○		○	○	○	○	○	○	○	○	○	○											
Diffuser	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○									
Impeller	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○						○			
Shaft																		●	○	○	○			○	
Bearing Housing	●	○	○	○	○	○	○	○																	
Wear Ring	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○									
Spacer Sleeve																	●	○	○	○	○			○	
Shaft Sleeve																	●	○	○	○	○			○	
Interstage Sleeve																	●	○	○	○	○			○	
Sleeve Bearing														●											○
Mechanical Seal (*)	EN 12756																								

● Standard manufacturing
○ Optional

Material Equivalent

Description	DIN / EN	AISI / SAE / ASTM	
Cast Iron	0.6025	EN-GJL-250 (GG25)	A48 Class 40B
Nodular Cast Iron	0.7040	EN-GJS-400-15 (GGG40)	A536 60-40-18
Nodular Cast Iron	0.7043	EN-GJS-400-18-LT (GGG40.3)	A536 60-40-18
Cast Steel	1.0619	GP240GHGS-C25	A216 WCB
Chrome Nickel Cast Steel	1.4308	GX5CrNi19-10	A351 CF8
Chrome Nickel Cast Steel (low carbon)	1.4309	GX2CrNi19-11	A351 CF3
Chrome Nickel Molybdenum Cast Steel	1.4408	GX5CrNiMo19-11-2	A351 CF8M
Chrome Nickel Molybdenum Cast Steel (low carbon)	1.4409	GX2CrNiMo19-11-2	A351 CF3M
Austenitic Cast Steel	1.4500	GX7NiCrMoCuNb25-20	A351 CN7M
Austenitic - Ferritic Cast Steel (duplex)	1.4517	GX2CrNiMoCuN25-6-3-3	A890 CD4MCuN
Austenitic - Ferritic Cast Steel (super duplex)	1.4469	GX2CrNiMoN26-7-4	A890 CE3MN
Martenzitic Stainless Cast Steel	1.4317	GX4CrNi13-4	A352 CA6NM
Martenzitic Stainless Cast Steel	1.4008	GX7CrNiMo12-1	A217 CA15
Cast Bronze (tin alloy)	2.1050.01	G-CuSn10	B427 C90700
Cast Bronze (nickel alloy)	2.0975.01	G-CuAl10Ni	B148 C95500
Cast Bronze (lead)	2.1096.01	G-CuSn5ZnPb	B584 C83600
Carbon Steel	1.0503	C45	AISI 1045
Chrome Steel	1.4021	X20Cr13	A276 Type 420
Chrome Steel (heat treated)	1.4021	X20Cr13	A276 Type 420+QT
Chrome Nickel Steel	1.4301	X5CrNi18-10	A276 Type 304
Chrome Nickel Steel (low carbon)	1.4404	X2CrNiMo17-12-2	A276 Type 316L
Duplex (austenitic-ferritic) Steel	1.4460	X3CrNiMoN27-5-2	AISI 329
Duplex (austenitic-ferritic) Steel	1.4462	X2CrNiMoN22-5-3	UNS S32205

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