

Design variations

The following pump designs can be provided:

- For extremely low NPSH duties, a number of DSA pumps can be equipped with inducers.
- Steam jacketed casing for special applications.
- Replaceable stuffing box cooling or heating jackets.
- Double shaft extension.
- Cylindrical fit at coupling shaft end.
- Special bearing isolators at either bearing housing ends.
- Roller, "CARB" or hydrodynamic line bearing for high temperature application.
- Oil mist lubrication system (pure or purge).
- Forced feed lubrication system.
- Temperature and/or vibration detection and monitoring equipment.

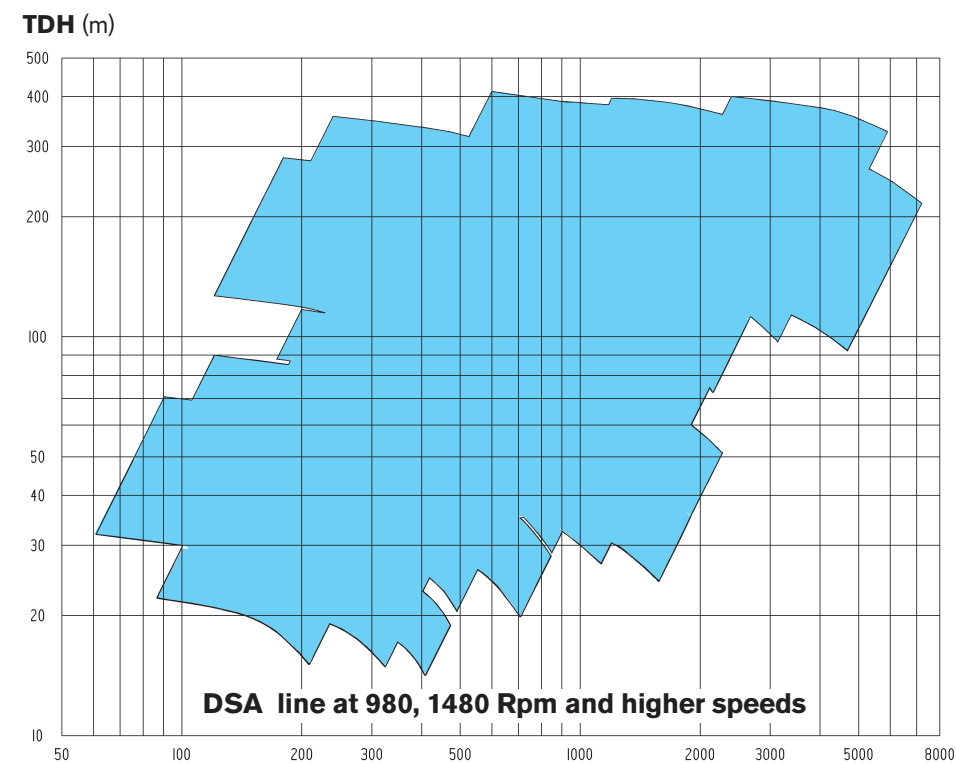
Pump identification

Pump type _____ **DSA** _____

Nominal impeller diameter (mm) _____ **450 / 250** _____

Nominal discharge nozzle diameter (mm) _____ _____

Coverage chart



A century of experience

Since the foundation of the company in 1897, Pompe Gabbioneta has been engaged in design and manufacture of high quality centrifugal pumps.

The products and the markets served progressively changed from water to chemical industry and finally, in the last thirty years, to API 610 heavy duty pumps for refinery and petrochemical industries.

The product development is based on a thorough interchange of marketing and operating experience within the company and in close cooperation with project and plant engineers.

The manufacturing is made in a factory equipped with several modern cnc machines and machine tools, special note has to be given to the machining centers where pump casings can be machined completely with only two settings.

In house facilities are designed to meet the performance and NPSH testing requirements of all pumps manufactured in the company in full compliance with API 610 standards.

A quality assurance system certified in accordance with ISO 9001 is granting the achievement of highest quality for manufactured pumps.



DSA LINE



Registered Office: Viale Gramsci 79
Headquarters: Viale Casiraghi 68
20099 Sesto San Giovanni MI Italy
Telephone +39 02.241001 r.a.
Partita IVA - VAT IT 02894200969

e-mail: pompe.gabbioneta@pompegabbioneta.com
http://www.pompegabbioneta.com
R.I. MI n.° 90297/1999 REA MI n° 1584044
Codice Fiscale 12759010155
Partita IVA - VAT IT 02894200969

POMPE GABBIONETA Inc
17 South Briar Hollow Ln., Ste 207
Houston Texas 77027
Telephone 001.713.3554900
Telefax 001.713.3556200
e-mail: wcat20@aol.com



SGI Cert. n° 0194
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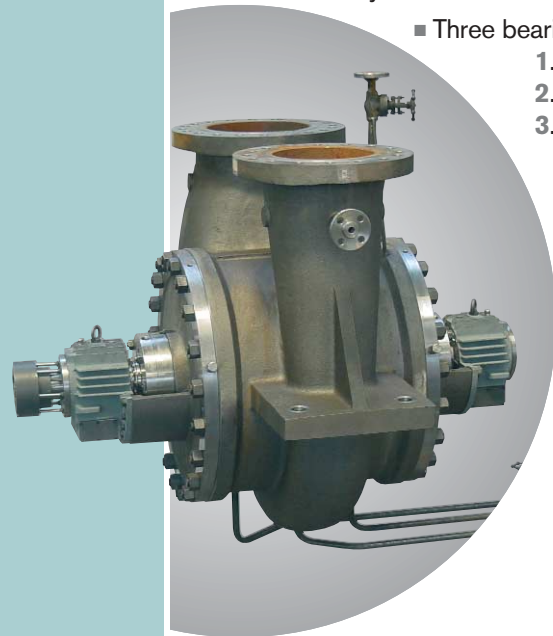


General informations

The DSA line heavy duty process pumps are horizontal, between bearings with a radial split casing and double suction impeller fully designed according to latest edition of API 610 std. A wide range of sizes and material combinations complete the variety of the offered product.

Main design features are:

- Double suction, closed impeller, with solid hub, to maintain axial balance, under different operating conditions.
- Stiff shaft design. Rotor operates below it's 1st critical speed.
- Suction and discharge nozzles, integrally cast with the casing, are normally arranged in top-top position. Side-top or side-side nozzle arrangements are available.
- Centerline casing mounting for high temperature satbility.
- Deep stuffing boxes integrally cast with pump casing, in accordance to API 682 std suitable to accept any type of mechanical or packing seals.
 - Labyrinths and deflectors at either bearing housing to maximise protection against dirt.
 - Three bearings arrangements available:
 1. Ball Radial / Ball Thrust
 2. Sleeve Radial / Ball Thrust
 3. Sleeve Radial / Tilting Pads Thrust (Kingsbury Type).



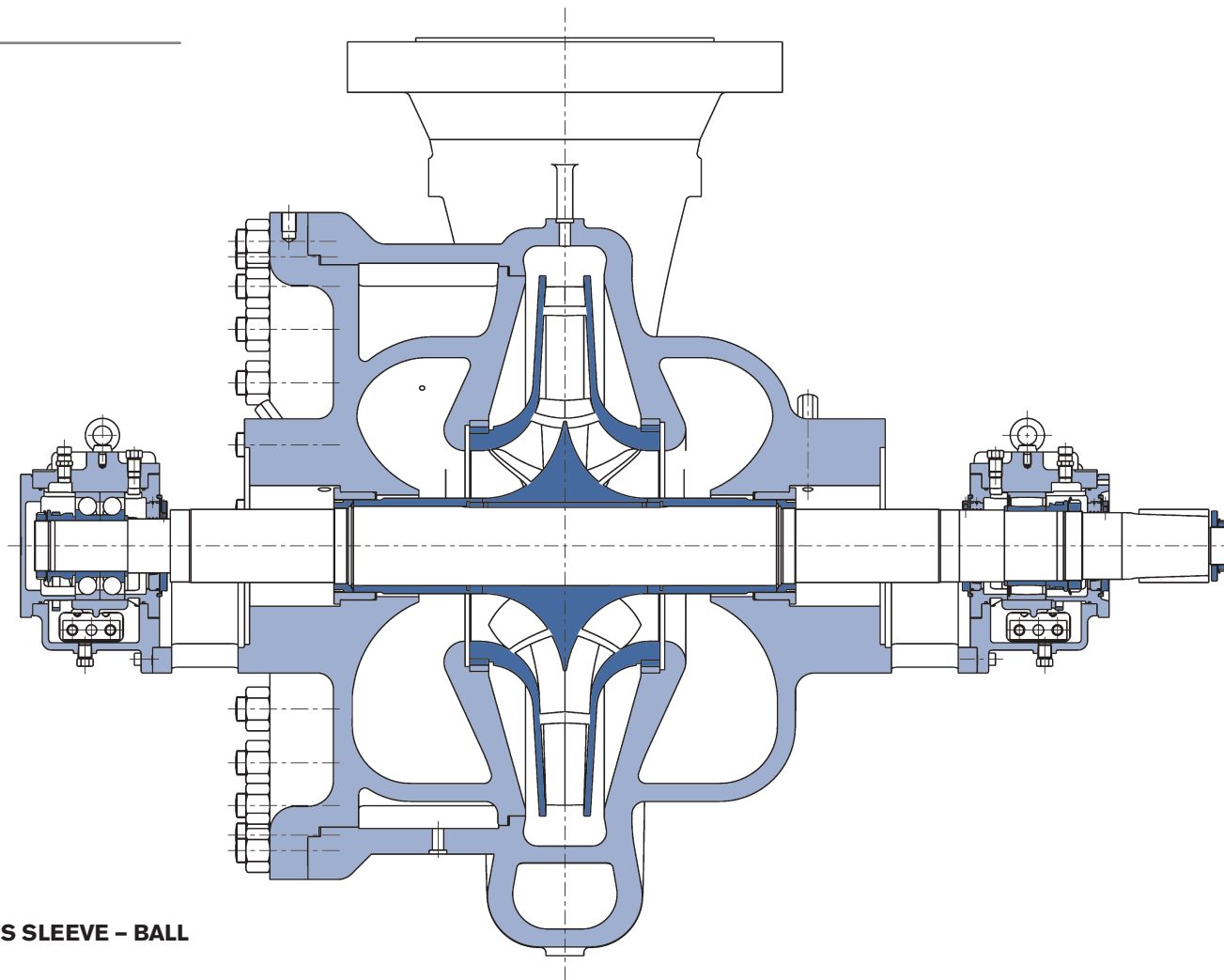
Main pumps applications refer to heavy duties on:

- fluid transport
- refineries
- petrochemical plants
- "hot" charge

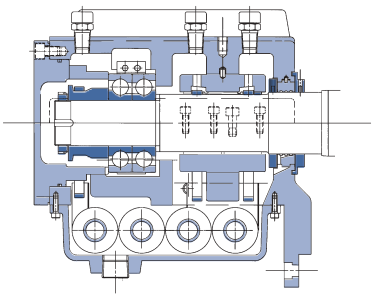
Operating data

Capacities	up to	6000 m³/h	(26000 Gpm)
Heads	up to	400 m	(1300 Feet)
Temperatures	from	- 30°C (-20°F)	to 455°C (850°F)
Design working pressure	up to	62 barg	(900 Psig)
Hydrotest pressure	up to	210 barg	(3000 Psig)
Rotational speed	up to	4000 Rpm	

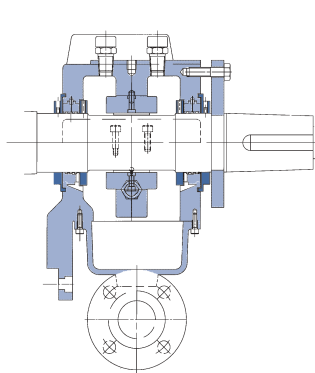
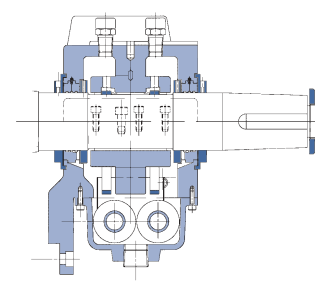
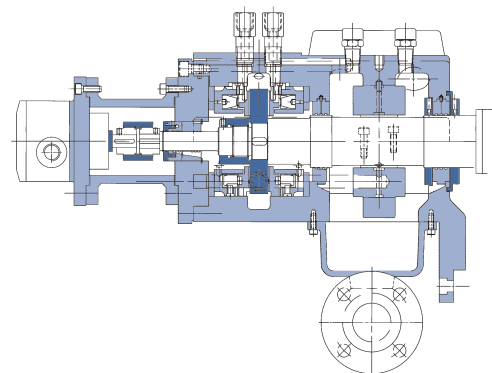
DSA



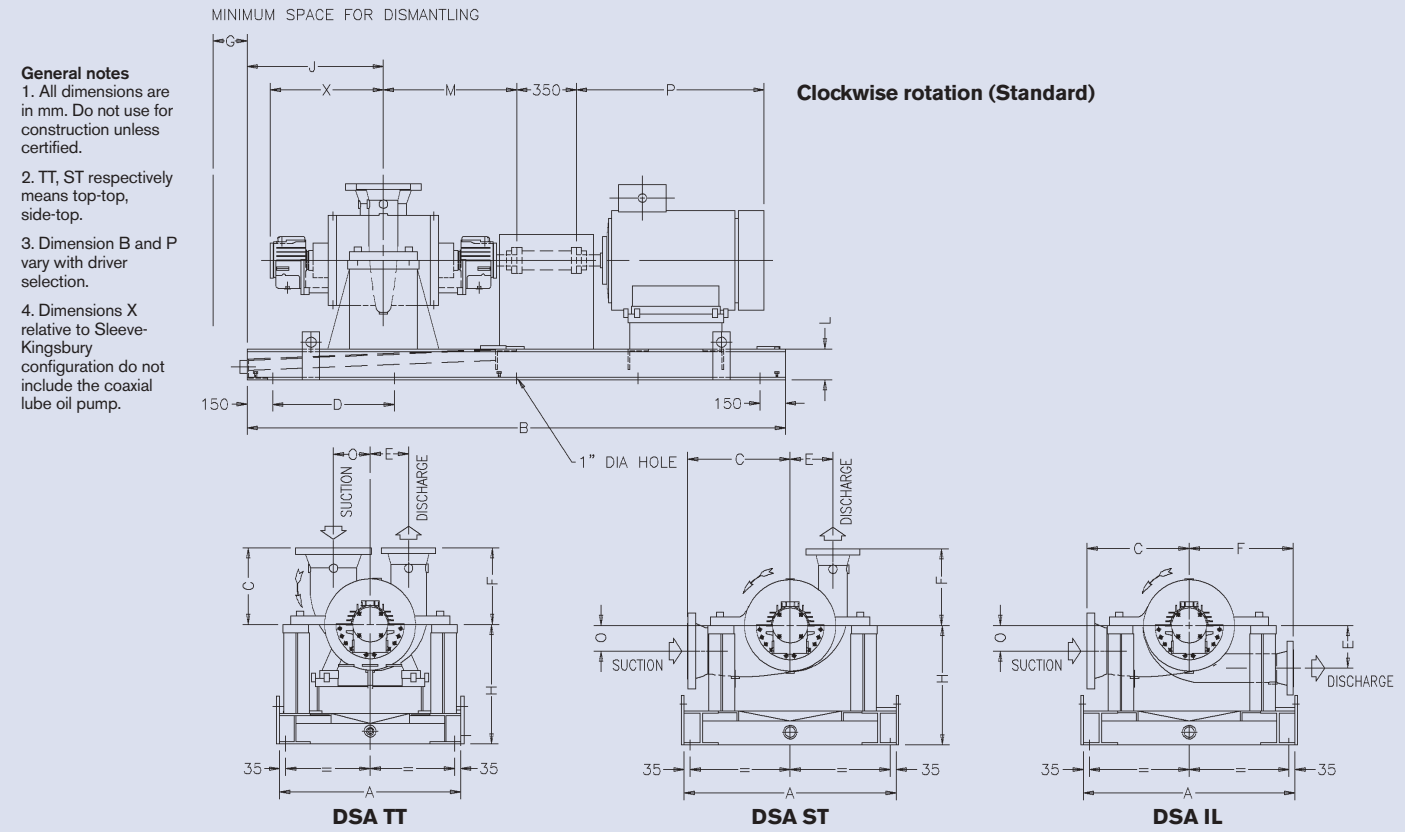
SB/S SLEEVE - BALL



SKJ/SK SLEEVE - KINGSBURY



DSA Line overall dimensions



- General notes**
1. All dimensions are in mm. Do not use for construction unless certified.
 2. TT, ST respectively means top-top, side-top.
 3. Dimension B and P vary with driver selection.
 4. Dimensions X relative to Sleeve-Kingsbury configuration do not include the coaxial lube oil pump.

Pump type	nozzle size		A	C	D	E	F	G	H	X			O	M	J	L
	suct.	disch.								ball ball	sleeve ball	sleeve kingsbury				
300/150 TT	10"	6"	1240	450	715	225	450	1100	700	664	788	808	215	783	850	200
360/100 ST	8"	4"	1240	550	715	240	400	1100	700	598	722	748	150	677	800	200
360/100 TT	8"	4"	1240	400	715	240	400	1100	700	598	722	748	225	677	800	200
360/150 ST	10"	6"	1240	600	715	250	450	1100	700	704	828	848	150	823	850	200
360/150 TT	10"	6"	1240	450	715	250	450	1100	700	704	828	848	220	823	850	200
360/250 TT	14"	10"	1240	520	715	300	520	1100	700	718	842	862	300	885	850	200
400/150 TT	10"	6"	1240	500	715	255	500	1100	700	647	771	791	220	766	850	200
400/200 ST	12"	8"	1390	650	715	270	500	1100	700	604	728	748	150	748	850	200
400/200 TT	12"	8"	1390	500	715	270	500	1100	700	604	728	748	300	748	850	200
400/250 TT	14"	10"	1545	600	715	300	600	1100	700	635	759	779	280	770	850	200
400/350 TT	18"	14"	1545	700	715	400	700	1200	700	730	854	874	500	895	1000	240
450/250 ST	14"	10"	1545	730	715	300	550	1100	700	679	803	823	0	823	850	200
450/250 TT	14"	10"	1545	550	715	300	550	1100	700	679	803	823	400	823	850	200
500/150 TT	10"	6"	1390	550	715	330	550	1100	700	644	768	788	280	788	850	200
500/250 TT	14"	10"	1700	600	715	370	600	1100	800	626	750	770	320	770	850	200
500/300 TT	14"	12"	1700	600	715	370	600	1100	800	626	750	770	320	770	850	200
600/200 TT	12"	8"	1550	600	715	400	600	1400	800	600	724	744	270	770	850	200
600/250 TT	14"	10"	1700	650	715	400	650	1100	800	616	740	760	300	772	850	200
600/300 TT	14"	12"	1900	750	715	400	750	1300	800	757	881	901	400	905	950	200
700/250 ST	14"	10"	1900	900	715	455	650	1100	900	626	750	770	0	784	850	200
700/300 ST	14"	12"	1900	800	715	400	800	1400	800	797	921	941	400	945	950	200
850/300 TT*	16"	12"	1900	800	715	500	800	1300	1000	808	932	952	500	975	1050	240
800/400 TT*	20"	16"	2000	800	715	520	800	1300	1000	858	984	1004	520	1045	1050	240
850/400 TT*	20"	16"	2000	800	715	520	800	1300	1000	858	984	1004	520	1045	1050	240
850/450 IL*	24"	18"	2000	950	715	520	850	1500	1200	888	1014	10034	420	1075	1300	260
850/450 TT*	24"	18"	2400	800	715	570	800	1500	1100	888	1014	1034	500	1075	1300	260
1100/500 TT*	26"	20"	3000	1000	715	750	1000	1800	1400	973	1099	1119	700	1167	1500	300

*C.C.W. rotation from coupling side