



Cast Iron End Suction Motor Pumps

(to EN733) Type GSD

A versatile high quality compact close coupled motor pump suitable for many applications where water needs to be transferred or boosted.

APPLICATIONS

- Water supply & pressure boosting
- Building services & cooling towers
- Industrial
- Irrigation, etc.

FEATURES

- Pump dimensions to EN733
- High efficiency hydraulic design (MEI > 0.6 all models)
- Cast Iron/Bronze/Stanless steel construction
- Compact close coupled design.
- SiC/C/EPDM Burgmann seal
- Front & rear bronze wear rings
- 16 bar casings [to ISO5199] (24 bar hydrostatic test pressure)
- Precision 2 piece stub shaft & hub design
- Quality high efficiency WEG motors

RANGE

- 37 pump end sizes
- Nominal impeller sizes from 125 to 400mm
- 1.5 to 110 kW 2 pole motors
- 1.1 to 75 kW 4 pole motors
- Discharge sizes from 32mm to 150mm
- Flows to 800m³/h; Heads to 150m

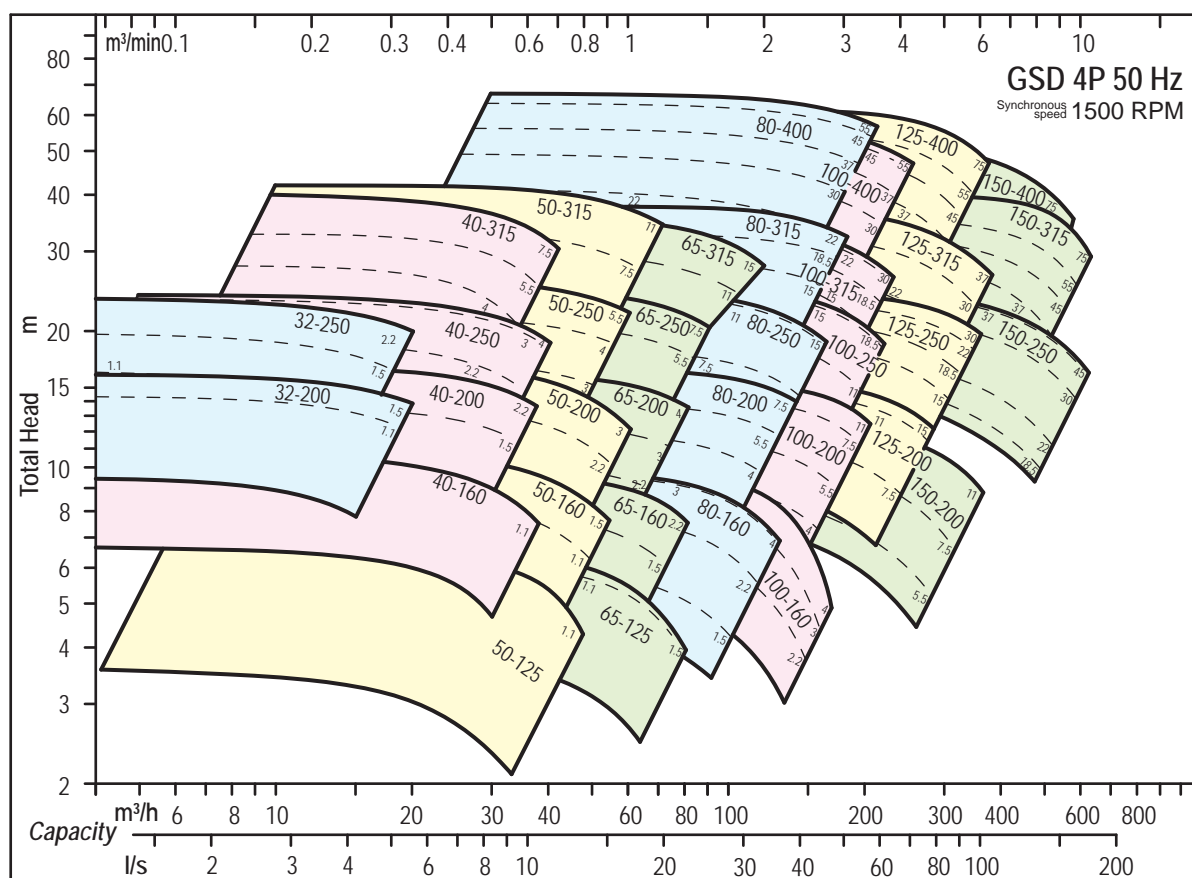
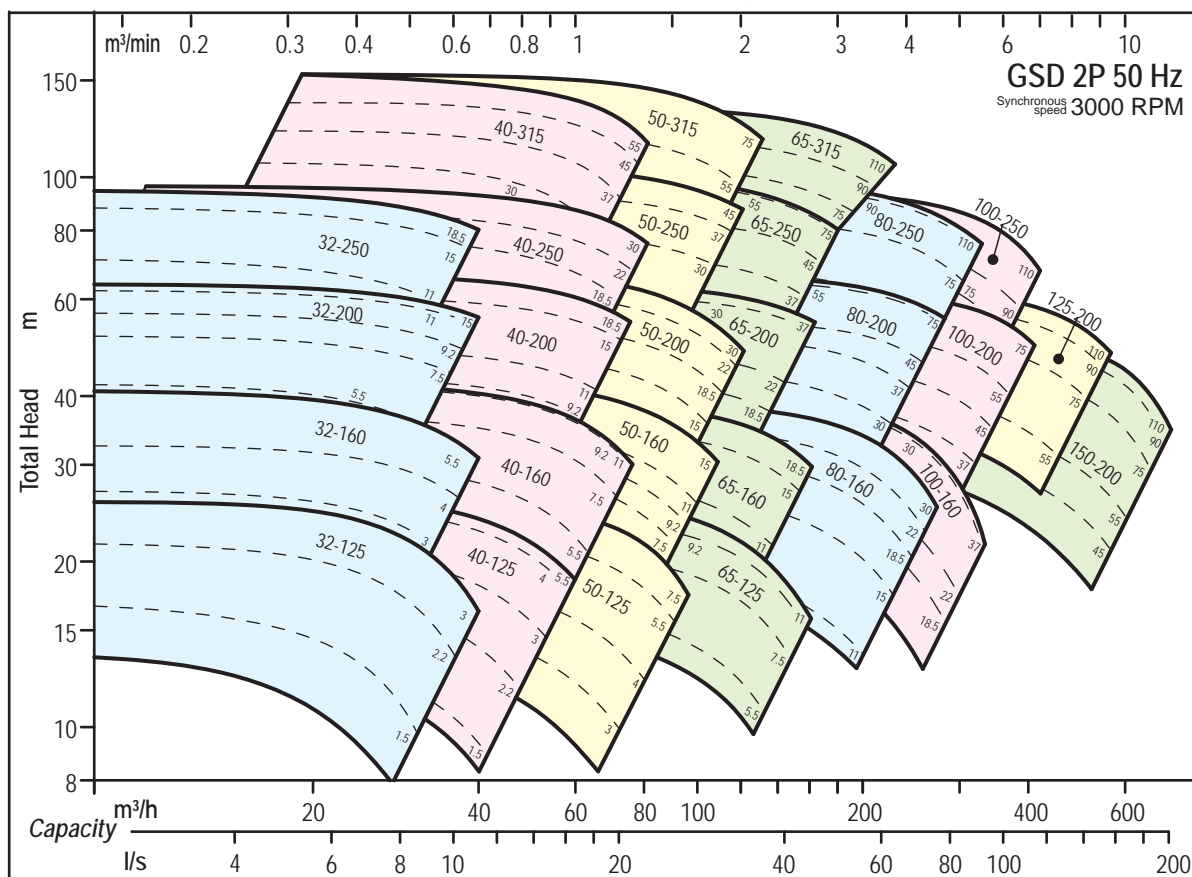


PERFORMANCE CHART

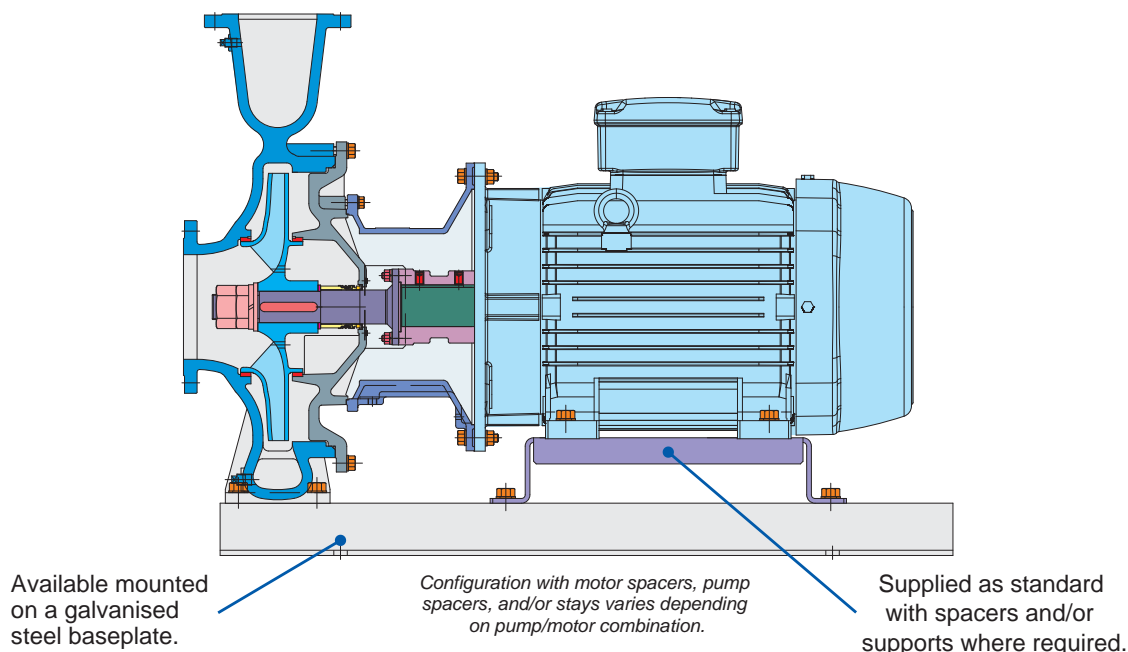
Model code: 80-250

Discharge size - mm

Nominal impeller diameter - mm



The GSD is a versatile high quality compact close coupled motor pump, and with 237 pump end/motor combinations available there are models suitable for many applications and duties wherever water needs to be transferred or boosted.



SPECIFICATIONS

		Standard	Option
Pump	Type	Close coupled end suction motor pump to EN733 (Pump end dimensions) [#]	
	Flanges	DIN/EN PN 16 (EN 1092-1)	
Scope	Pump discharge	32 mm to 150 mm	
	Motor power	2 Pole: 1.5 to 110 kW 4 Pole: 1.1 to 75 kW	
	Performance	2 pole: (Q) 8 - 800 m³/hr (H) 10 - 150 m hd 4 pole: (Q) 4 - 650 m³/hr (H) 3 - 70 m hd	
Liquid handled	Type	Water	
	Temperature	-10° to +120°C	
Max. allowable working pressure (MAWP)		16 Bar*	
Max. allowable suction pressure (MASP)**		<16 Bar-Pump shut-off pressure (PSP)	
Construction	Impeller	Closed centrifugal	
	Shaft	Stub shaft & hub	
	Mechanical seal	Single spring, rubber bellows (to EN12756)	
Materials	Casing	Cast iron (FC250)	
	Impeller	Bronze (CAC 406)	
	Casing wear ring	Bronze (CAC 406)	
	Shaft	420 Stainless steel (<i>wetted part</i>)	
	Mechanical Seal	SiC/Carbon/EPDM	
	Back cover	Cast iron (FC250)	
	Motor bracket	Cast iron (FC250)	
	Spacers	Refer page 11	
Motor	Type	WEG W21	
	Efficiency Std	IE3 (or E2)	
	Enclosure	IP55	
	Insulation class	Class F	
	Motor frame material	Aluminium (up to 200 Fr.) Cast Iron (225 Fr. & above)	
Supply		Motor pump c/w spacers where required.	On galvanised steel baseplate

* 16 Bar rating to ISO5199

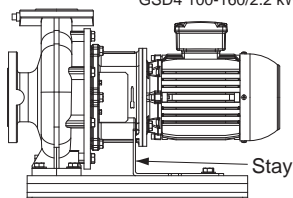
[#] Except model 150-315

** MASP < MAWP - PSP

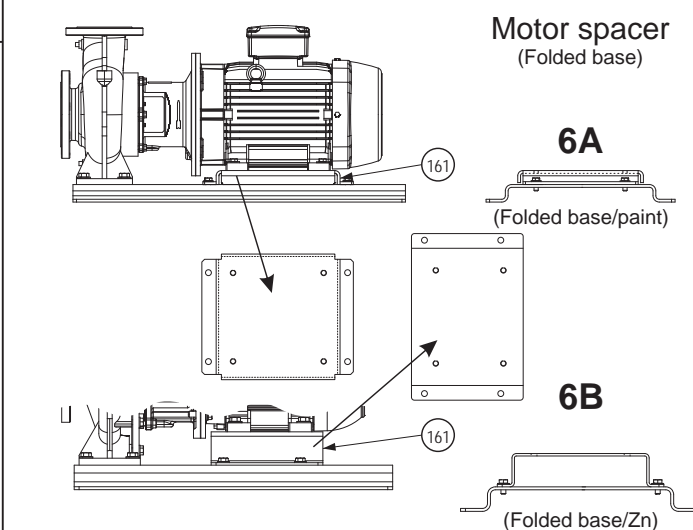
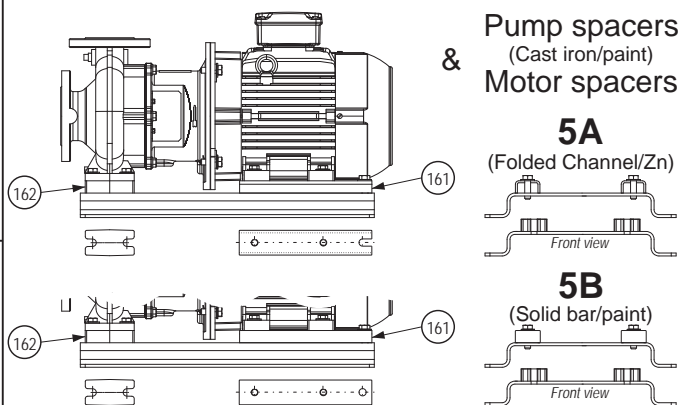
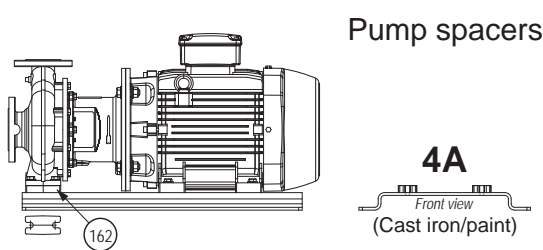
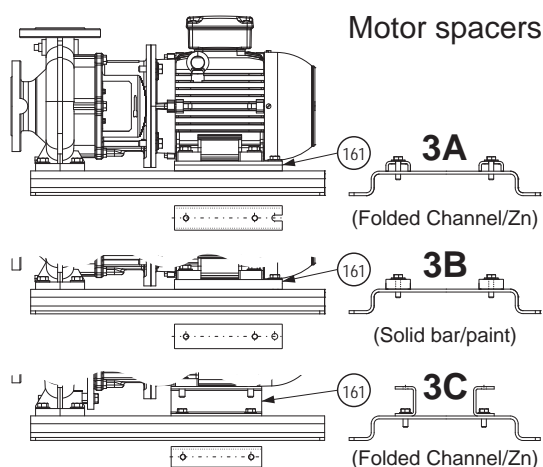
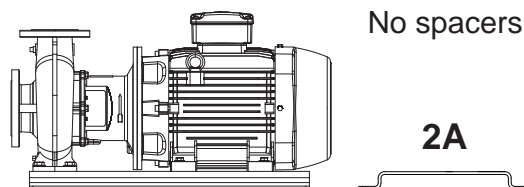
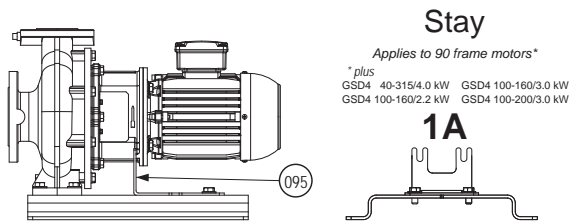
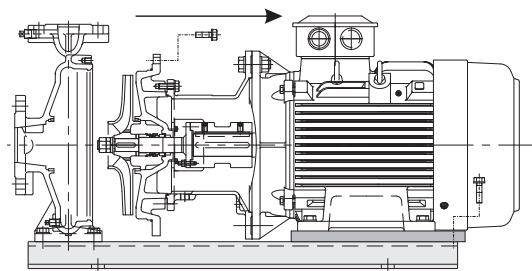
CONFIGURATIONS

Pumpsets with motors over 90 frame* are fitted with spacers for ease of installation and maintenance. There are various types and combinations of spacers depending on the model. The motors are bolted to the motor spacers, so that the complete rotating element with motor and spacers is a single rigid assembly that can be "slid" back for ease of maintenance and reassembly.

* following models use a stay instead of motor spacers
 GSD4 40-315/4.0 kW GSD4 100-160/3.0 kW
 GSD4 100-160/2.2 kW GSD4 100-200/3.0 kW



All models with 90 frame motors (and the 4 models above) have a single stay as shown on the drawing.



Specifications: Stays, Motor spacers, Pump spacers

Item	Description	Material	Finish	Style	Qty.	Applies to
095	Stay	Folded steel	Paint	-	1	1A
161	Motor spacer	Steel bar	Paint	Rectangular	2	3B,5B
			Zn plated	Channel (down)	2	3A,5A
		Folded steel	Zn plated	Channel (side)	2	3C
			Paint	Baseplate	1	6A
			Zn plated	Baseplate	1	6B
162	Pump spacer	Cast iron	Paint	-	2,4,6	4A,5A,5B

* Dimensional details are provided for reference only.

* All specifications are subject to change without prior notice.



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