





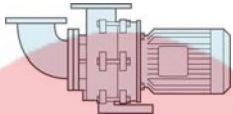
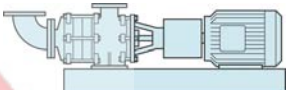
Range of application

In contrast to non-selfpriming centrifugal pumps – where pump and suction pipe should well be filled with the liquid to be transported and carefully ventilated before putting into operation – selfpriming pumps are able to evacuate the pipe line automatically. For this purpose the selfpriming pumps only require a small amount of auxiliary liquid which is retained in the pump also during stops.

Selfpriming pumps offer a high degree of operational reliability.

While priming there must be no considerable counter pressure on the delivery side and it has to be ascertained that the air can escape.

The use of selfpriming pumps is recommended for working conditions the necessitate often starting with empty suction pipe or in case that air or gas inclusions are unavoidable.

Structural form	 EBu	 E	 SUB	 SP / SU
Design	Horizontal centrifugal pump unit-construction type. Pump and motor positively centered by lantern.	Horizontal centrifugal pump segmental type. Pump and motor on common bed plate.	Horizontal centrifugal pump, single-stage, unit-construction type. Particular compact design.	Horizontal centrifugal pump segmental type. Pump and motor on common bed plate.
Shaft sealing temperature limits dependent on liquid to be pumped	Mechanical seal up to 15 bar, -25 °C up to 90 °C	E Gland packing up to 15 bar, -40 °C up to 90 °C E_u Mechanical seal up to 15 bar, -40 °C up to 90 °C	Mechanical seal up to 10 bar, -25 °C up to 90 °C (110 °C)	SP Gland packing up to 16 bar, -40 °C up to 90 °C (110 °C) SU Mechanical seal up to 16 bar, -40 °C up to 90 °C (110 °C)
Shaft bearing	Liquid lubricated sleeve bearing.	External ball bearing and liquid lubricated sleeve bearing.	Common pump-/ motor shaft.	External ball bearing and liquid lubricated sleeve bearing.
Shaft coupling	Positively centered	Flexible	--	Flexible
Principle of suction	Liquid/ air mixture formation.	Liquid/ air mixture formation.	Liquid/ air mixture formation. The bend fitted to the suction flange retains the auxiliary liquid during stop.	Integrated jet pump. The bend fitted to the suction flange retains the auxiliary liquid during stop.
Materials	Standard execution N	All-bronze GBz – only SUB	Stainless Steel CR – only SUB 700	
Casings	0.6025 (GG25)	2.1050.01 (G-CuSn10)	1.4581 (GX5CrNiMoNb 19 11 2)	
Impeller	2.1052.01 (G-CuSn12) SUB 700 / SP·SU 7.. : 0.6025 (GG25)	2.1052.01 (G-CuSn12)	1.4517 (GX3CrNiMoCuN 25 6 3 3)	
Shaft	1.4057 (X22CrNi16 2)	1.4057 (X22CrNi16 2)	1.4462 (X2CrNiMoN 22 5 3)	
Standard drive	IEC-three-phase A. C. motors, insulation class F, enclosure IP 55, up to 4,0 kW 230 / 400 V, from 5,5 kW 400 VΔ, 50 Hz Special executions on request..			