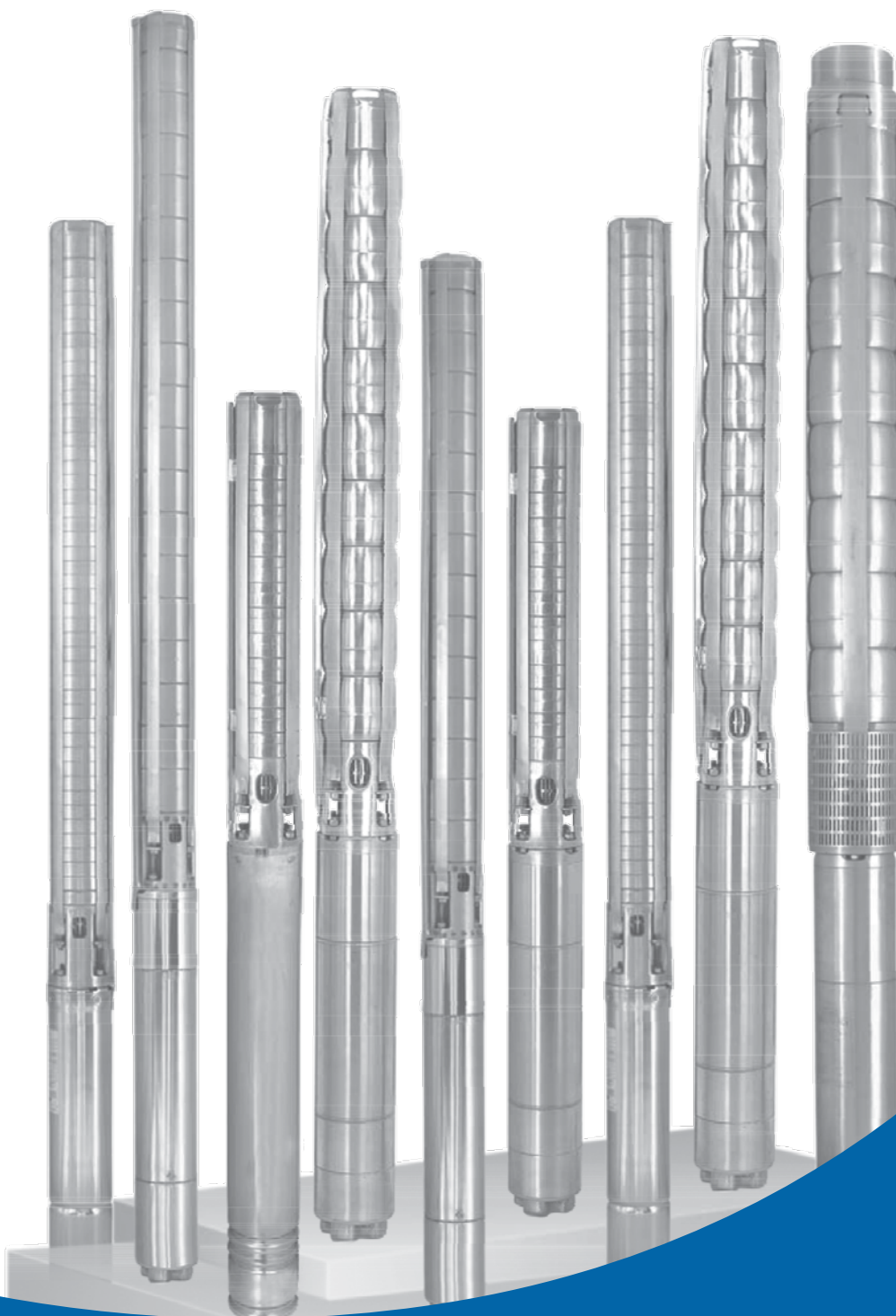




W series

6"–8"–10" Stainless Steel Submersible Pumps

Flow range up to 280 m³/h



50 Hz

W series Stainless Steel Submersible Pumps

The Sterling Pumps W series Stainless Steel Submersible Pumps have been designed for pumping water for a diverse range of pumping duties for water supply, irrigation and agricultural, mining, industrial and municipal and fire fighting applications.

Construction is from stainless steel. The W series feature both radial and mixed flow impellers, stainless steel bowls, motor bracket, discharge head and all have integral check valves.

6" W series models

Nominal flow ratings	W17, W30, W46 and W60 (m³/h)
Maximum flow	Up to 78 m³/h
Maximum head	Up to 730 metres
Discharge threads	2-1/2" BSP W17, 3" BSP W30, 4" BSP W46 and W60
Impeller design	W17 - Radial, W30, W46 & W60 - Mixed Flow
Motors	0.55 kW 4" up to 45 kW 6", to NEMA standards
Material	AISI 304SS (316SS available)

8" W series models

Nominal flow ratings	W77 and W95 (m³/h)
Maximum flow	Up to 123 m³/h
Maximum head	Up to 407 metres
Discharge threads	4" BSP W77 and 6" BSP W95
Impeller design	W77 and W95 - Mixed Flow
Motors	5.5 kW 4" up to 93 kW 8", to NEMA standards
Material	AISI 304SS (316SS available)

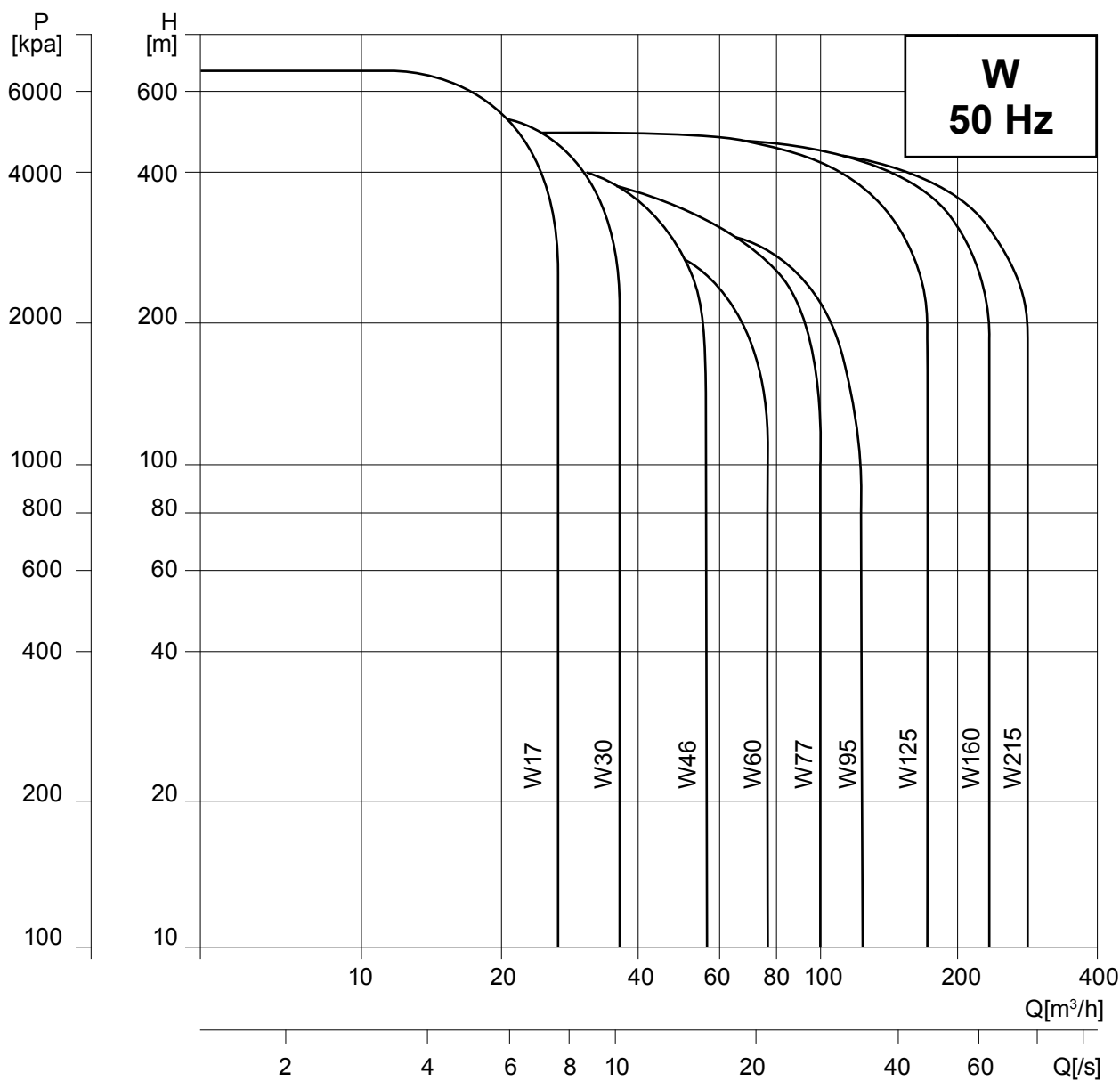
10" W series models

Nominal flow ratings	W125, W160 and W215 (m³/h)
Maximum flow	Up to 280 m³/h
Maximum head	Up to 505 metres
Discharge threads	6" BSP for W125, W160 and W215
Impeller design	W125, W160 and W215 - Mixed Flow
Motors	7.5 kW 6" up to 185 kW 10", to NEMA standards
Material	AISI 304SS (316SS available)

All W series models

Water temperature	0°C up to 45°C
Solids handling	Maximum sand/solids in water; 50 g/m³
Discharge option	NPT threads available
Pump/motor Performance	Based on 2,900 rpm, 2 pole 50 Hz
Max. starts per hour	20 at regular intervals
Direction of rotation	Clockwise as seen from the pump coupling side
Pump curves	Curve tolerances to ISO 9006, Annex A and are inclusive of inlet and check valve losses. For more detail, refer to individual curves

W series submersible pumps family curves



W series Ordering-Nomenclature

Example: W95/2-BB

Series	W
Nominal flow in m³/h	95
Number of stages	2
First reduced diameter Impeller	A, B or C
Second reduced diameter impeller	A, B or C
Constructions	Blank = 304SS, N = 316SS

Construction Features

Non-return valve

All pumps are equipped with a reliable non-return valve which prevents back flow in connection with pump stoppage.

Furthermore, the short closing time of the non-return valve means that the risk of destructive water hammer is reduced to a minimum.

The valve casing is designed for optimum hydraulic properties, to minimize the pressure loss across the valve and thus contributes to the high efficiency of the pump.

Bearings with sand channels

All bearings are water-lubricated and have a squared shape enabling sand particles, if any, to leave the pump together with the pumped liquid.

Stop ring

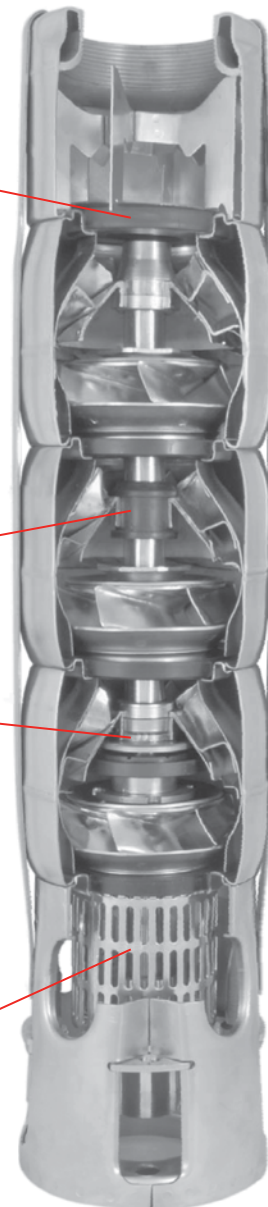
The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up.

The stop ring, which is designed as a thrust bearing, limits axial movements of the pump shaft.

The stationary part of the stop ring is secured in the upper intermediate chamber. The rotating part is fitted above the split cone.

Inlet strainer

The inlet strainer prevents particles over a certain size from entering the pump.



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