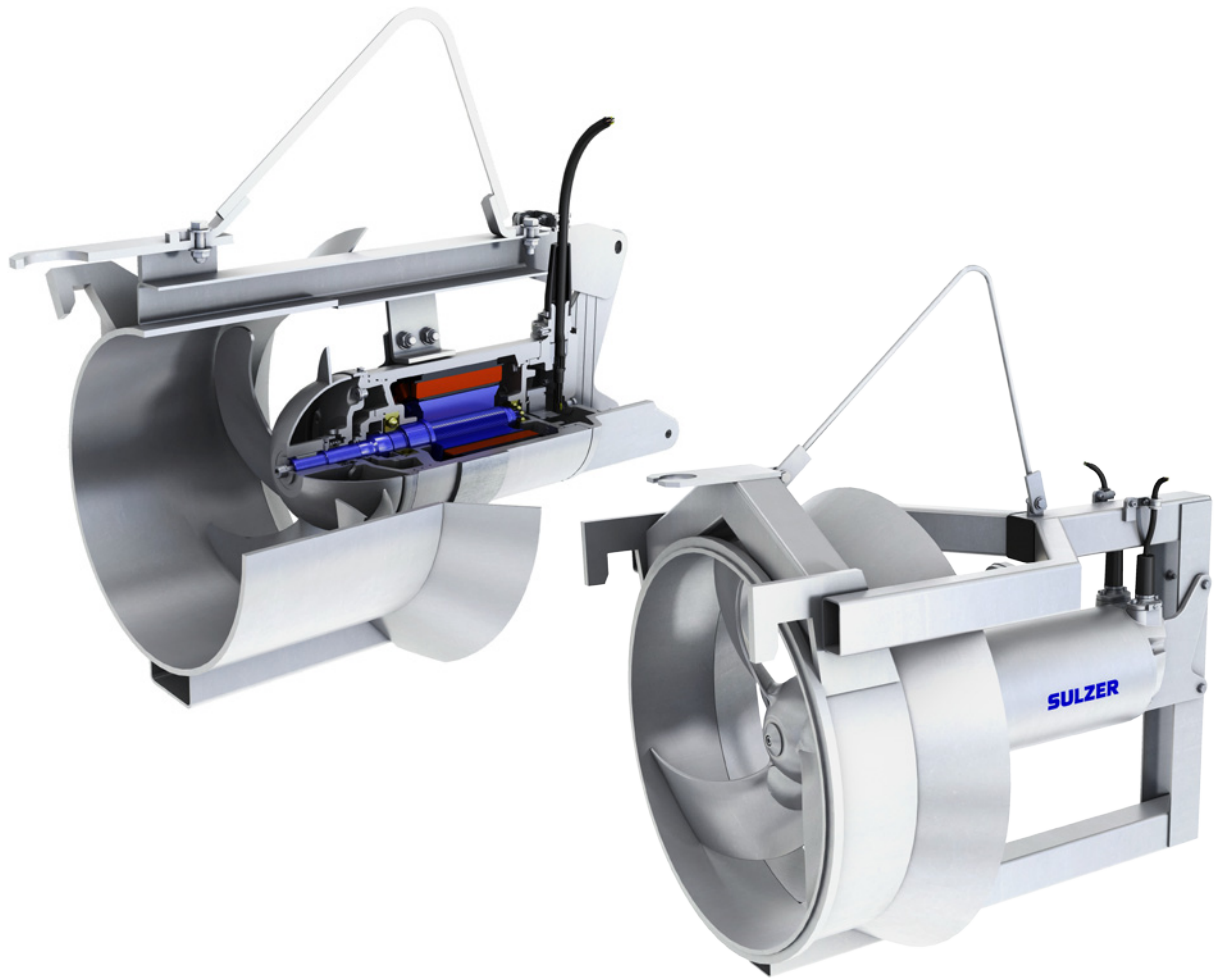


# Submersible Recirculation Pumps Type ABS XRCP



## Main Applications

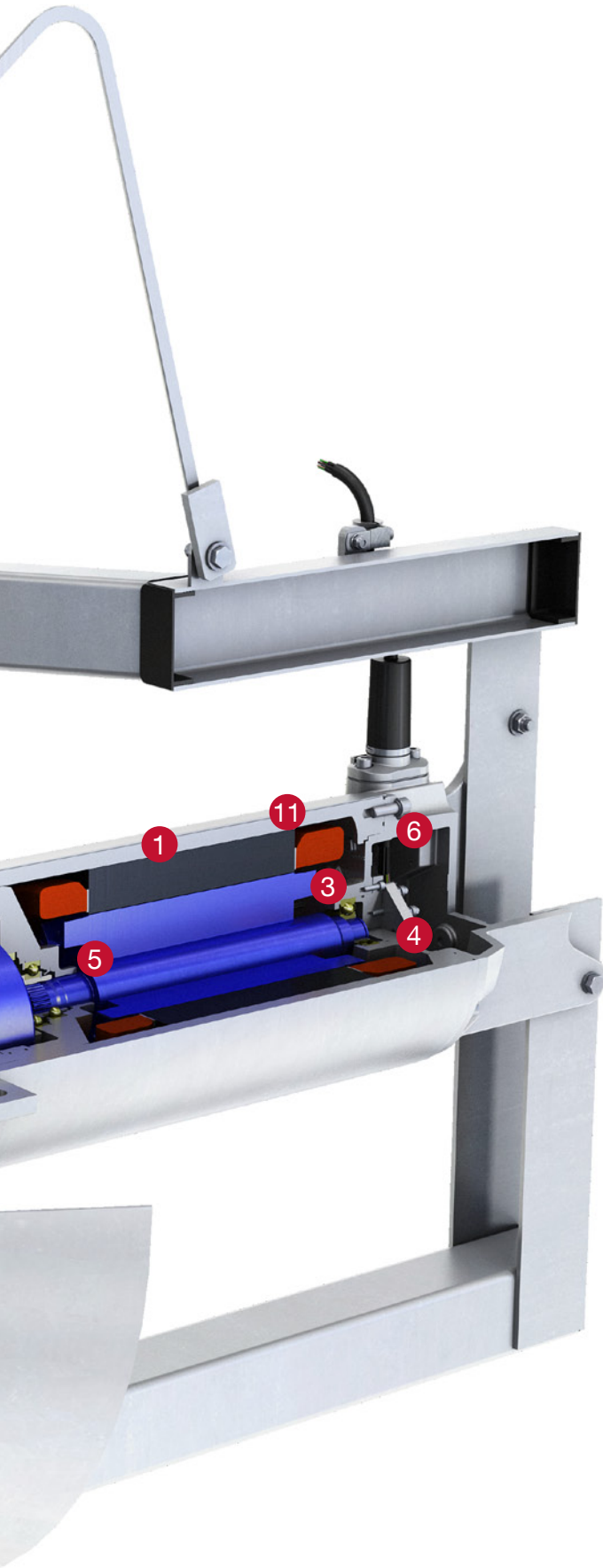
The submersible recirculation pump type ABS XRCP is a compact and easy-to-handle pump with a wide range of applications.

Its design makes it particularly suitable for pumping and recirculation of:

- Activated sludge in sewage treatment plants for:
  - Mixed liquor recirculation during nitrification and denitrification process
  - Tertiary treatment process
- Pumping of storm water
- Pumping of surface and river water
- Hazardous locations:
  - Certification for ATEX (Ex II 2G k Ex d IIB T4), FM and CSA available as an option

When you choose our submersible recirculation pump XRCP, you choose the market's best ongoing energy performance. You also get the best lifecycle cost, from initial purchase to ongoing operation.





## Features and Benefits

- 1 Premium-efficiency asynchronous IE3 motors in accordance with IEC 60034-30 or IE3 equivalent sensor less permanent – magnet motor using Variable Frequency Drives (VFD)**
  - Ensures the lowest possible energy consumption
  - Keeps operating temperature low for longer product life
- 2 Robust planetary gearbox**
  - Strongly designed for high reliability
  - Provides fatigue strength for long operating life
- 3 Large, long-lasting bearings**
  - Offer true reliability with a calculated lifetime of more than 100,000 operating hours
  - Need no maintenance – lubricated for life
- 4 Pre-loaded upper bearing for XRCP 250 to XRCP 500**
  - Prevents spinning through the design of the outer ring
  - Eliminates backlash
  - Ensures long bearing life
- 5 Large rotor shaft**
  - Keeps shaft deflection to a minimum through heavy-duty construction
- 6 Sealed connection chamber with quick-connection block**
  - Simplifies mixer maintenance
  - Safeguards the motor to ensure high reliability
- 7 Triple seal system with dual oil chamber**
  - Enhance motor and gearbox protection for full peace of mind
- 8 Enhanced mechanical seal protection system**
  - Keeps the mechanical seal clog-free
  - Greatly extends the life of the seal
- 9 Hydraulic-optimized stainless steel propeller**
  - Ensures the highest possible mixing performance
  - Reduces maintenance through self-cleaning
- 10 Multiple moisture sensor (DI) seal monitoring**
  - Secures full protection of motor and gearbox
- 11 TCS (Thermo Control System)**
  - Provides a warning or switches off the motor automatically before the permissible temperature limit is exceeded, whether due to high-temperature medium or another problem source

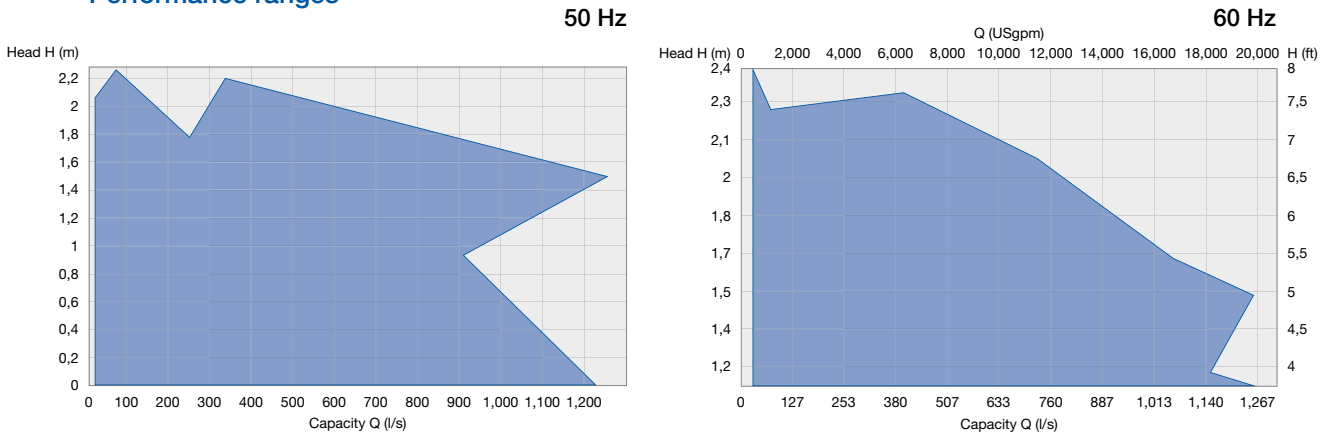
# Submersible Recirculation Pumps Type ABS XRCP



## Operating data

50 Hz		60 Hz
250 – 800 mm	<b>Discharge diameter</b>	250 – 800 mm 10 – 31 in
up to 30 kW	<b>Motor power</b>	up to 35 kW up to 47 hp
up to 93%	<b>Motor efficiency</b>	up to 94%
up to 1.25 m <sup>3</sup> /s	<b>Max. flow</b>	up to 1.25 m <sup>3</sup> /s up to 19,800 USgpm
up to 2.4 m	<b>Max. head</b>	up to 2.3 m up to 8.2 ft

## Performance ranges



## Materials

Pump part	EC (cast iron) only 250/800 PA	CR (stainless steel)
Motor housing	EN-GJL-250 painted	1.4404 (AISI 316L)
Motor shaft / propeller shaft	1.4021 (AISI 420) / EN GJS-700	1.4401 (AISI 316) / EN GJS-700
Propeller	1.4460 (AISI 329) / 1.4571 (AISI 316)*	1.4460 (AISI 329) / 1.4571 (AISI 316)*
Fasteners	1.4401 (AISI 316)	1.4401 (AISI 316)

\*2.0975

# We Do What We Say

## Customer partnership

- We are **reliable partners**
- We provide a **high level of service**
- We **make our customers more competitive**



## Committed people

- We drive **accountability**
- We are **open and transparent**
- We are **team players**



## Operational excellence

- We **focus on results**
- We take **initiative** and work within **established processes**
- We **act safely**



# A Global Specialist at Your Doorstep

Sulzer serves clients worldwide through a network of over 150 production and service sites and has a strong footprint in emerging markets.



● Sulzer headquarters,  
Winterthur, Switzerland



[www.sulzer.com](http://www.sulzer.com)

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