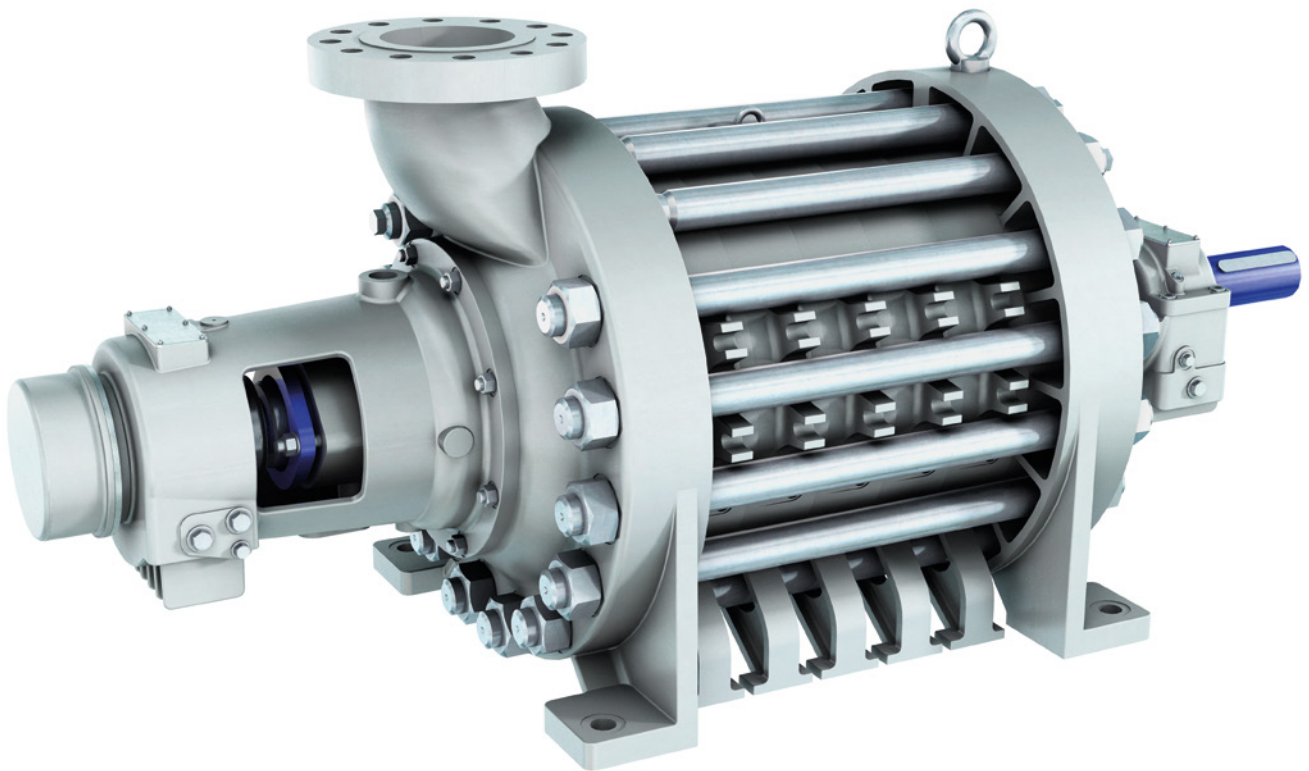


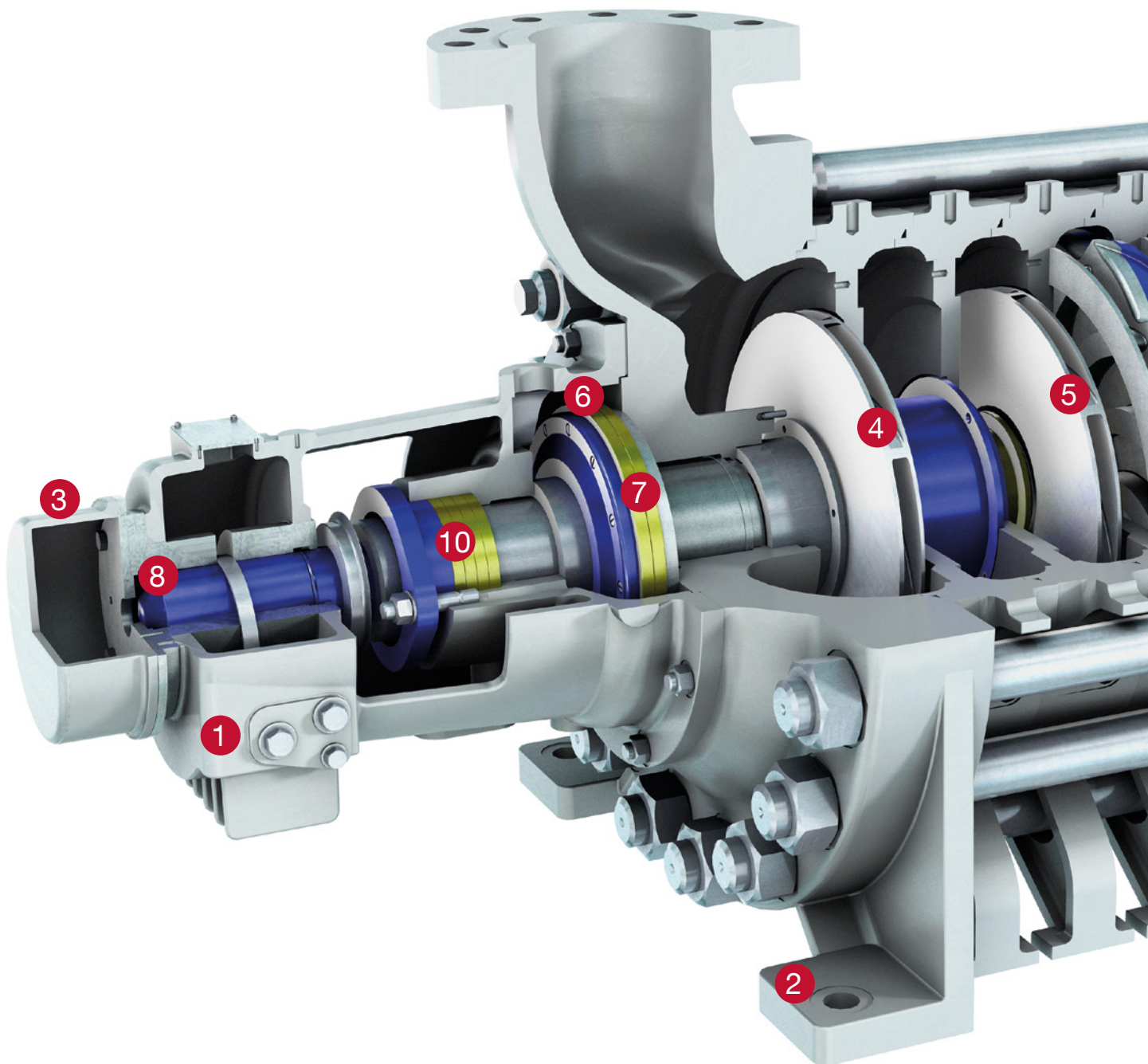
HPH and HPL High-Lift Centrifugal Pumps

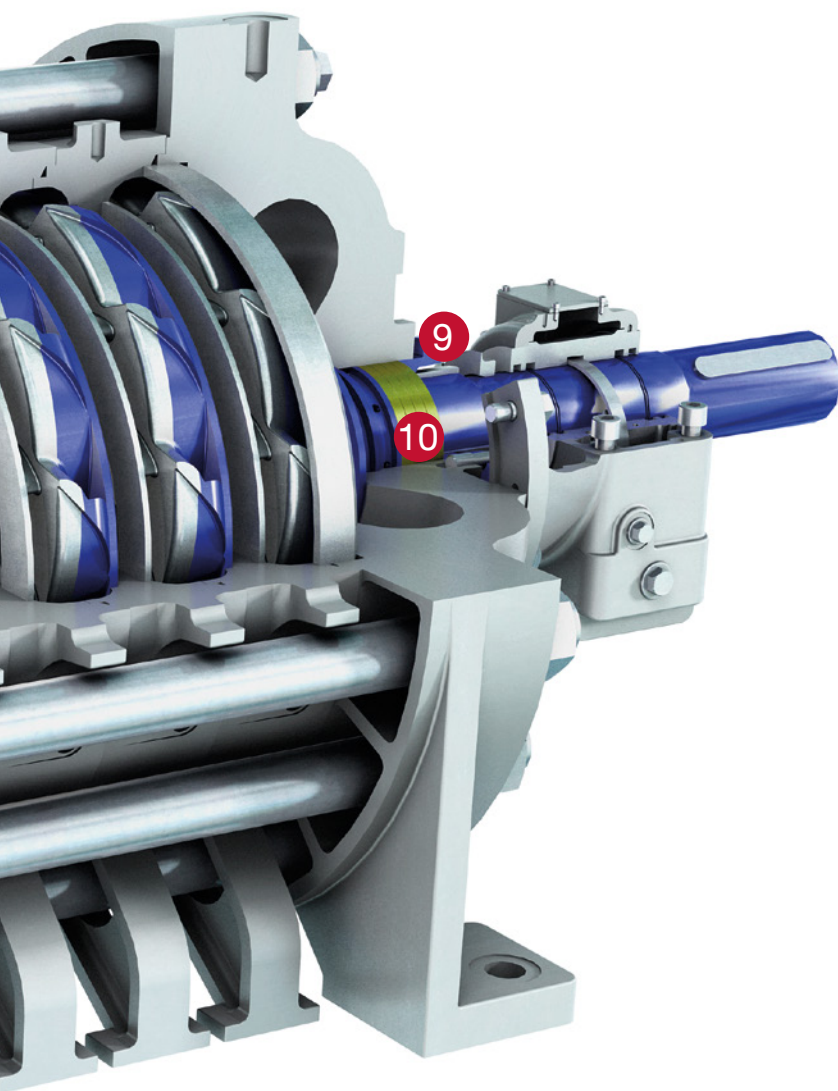


Main Applications

The HPH and HPL are multistage ring section pumps, designed for operation at two or four pole motor speed. They are suitable for pumping clear or slightly polluted water with abrasive particles and particularly fits the following applications:

- Mine dewatering
- Water transport
- Energy recovery capabilities (reverse running as a turbine)





Features and Benefits

- 1 Split bearing housing**
 - Ease of maintenance
- 2 Robust construction**
 - Suitable for harsh mining conditions
- 3 Condition monitoring capabilities**
 - Effective scheduling of maintenance
- 4 Specialized wear coating**
 - Extended operating life
- 5 High velocity areas protected by replaceable plates**
 - Avoid need for expensive remachining of high cost casings
- 6 Balance disc**
 - Compensates hydraulic thrust - fitted with replaceable wear faces of different material on balance and counter
- 7 Balance disc monitoring**
 - Determines the internal condition of the pump by measuring the pressure in the balancing assembly
- 8 Exclusive Sulzer wear limit switch**
 - Monitors balance disc wear
- 9 Forged shaft**
 - Ensures stability
 - Prevents distortion common with shafts made from bar stock
- 10 Shaft sealing**
 - Gland packing or mechanical seals in single or double arrangement

HPH High-Lift Centrifugal Pump

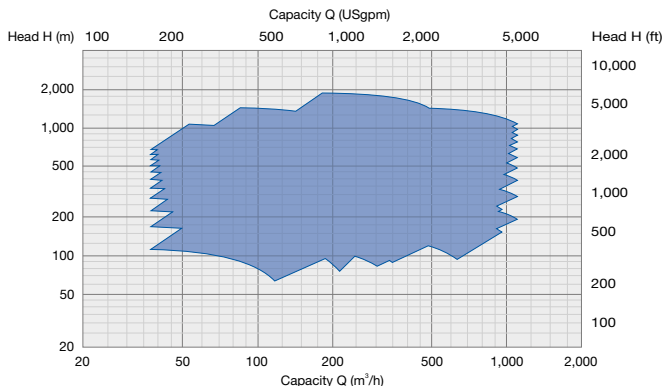


Operating data

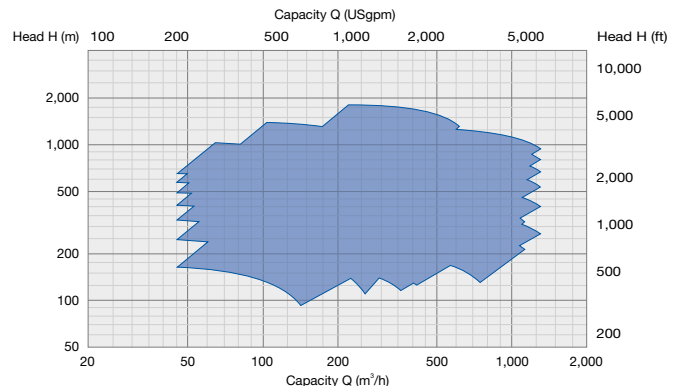
50 Hz	Pump sizes	60 Hz
24-60 model		24-60 model
130 to 1,000 m ³ /h	Capacities	680 to 5,000 USgpm
120 to 1,800 m	Heads	600 to 5,000 feet
180 bar	Pressures	2,610 psi
up to 105°C	Temperatures	up to 220°F

Performance ranges

50 Hz



60 Hz



Materials

Pump part	Material			
	Bronze-SG	Stainless steel	Duplex	Chrome steel internals
Casing	0.7040 (ASTM A536 Gr 40)	1.4408 (ASTM A743 GR CF8M)	1.4468+AT (ASTM A890 GR 3A)	0.7040 (ASTM A536 Gr 40)
Impellers	BS 1400 PB1 (ASTM B427 C90700)	1.4408 (ASTM A743 GR CF8M)	1.4468+AT (ASTM A890 GR 3A)	1.4317 (ASTM A487GR CA6NM)
Shaft	1.7225 (ASTM A193 Gr B7)	1.4462+AT (ASTM A276 GR S32760)	1.4462+AT (ASTM A276 GR S32760)	1.7225 (ASTM A193 Gr B7)

HPL High-Lift Centrifugal Pump

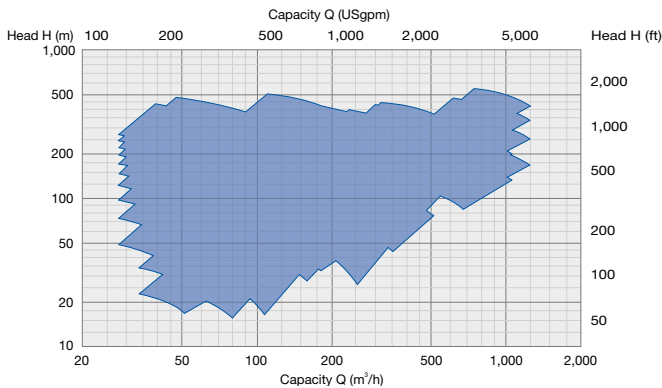


Operating data

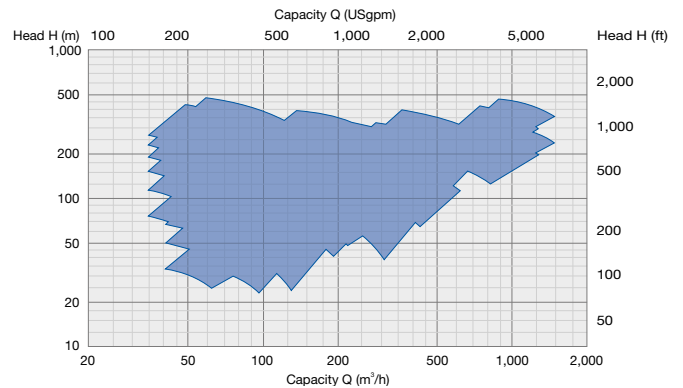
50 Hz	Pump sizes	60 Hz
18-54 model	18-54 model	18-54 model
36 to 1,000 m ³ /h	Capacities	170 to 5,000 USgpm
40 to 400 m	Heads	190 to 1,300 feet
40 bar	Pressures	560 psi
up to 105°C	Temperatures	up to 220°F

Performance ranges

50 Hz



60 Hz



Materials

Pump part	Material			
	Bronze-SG	Stainless steel	Duplex	Chrome steel internals
Casing	0.7040 (ASTM A536 Gr 40)	1.4408 (ASTM A743 GR CF8M)	1.4468+AT (ASTM A890 GR 3A)	0.7040 (ASTM A536 Gr 40)
Impellers	BS 1400 PB1 (ASTM B427 C90700)	1.4408 (ASTM A743 GR CF8M)	1.4468+AT (ASTM A890 GR 3A)	1.4317 (ASTM A487GR CA6NM)
Shaft	1.7225 (ASTM A193 Gr B7)	1.4462+AT (ASTM A276 GR S32760)	1.4462+AT (ASTM A276 GR S32760)	1.7225 (ASTM A193 Gr B7)



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