



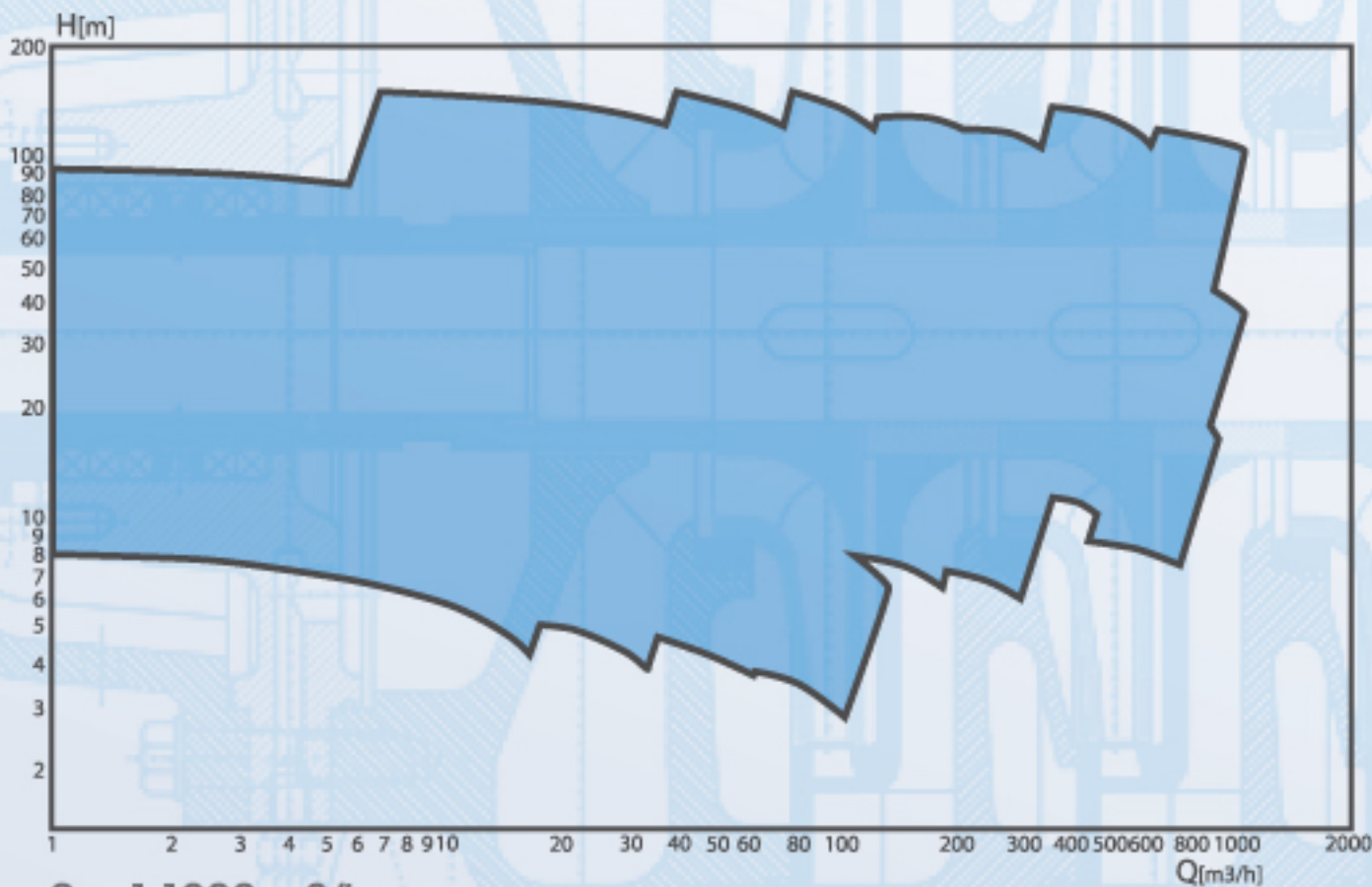
# PRODUCT RANGE

## REFERENCES





# END SUCTION PUMPS



Q = 1-1000 m<sup>3</sup>/h

H = 5-150 m

n = 1450 rpm, 1750 rpm, 2900 rpm, 3500 rpm

t max 140 °C

P max 25 bar

# HYDRAULIC AND MECHANICAL DEVELOPMENT OF DIFFERENT PUMP TYPES

End Suction Pumps

Split Casing Pumps

Development of pumps for nuclear power plants

Multistage Pumps

Development of Heavy Duty

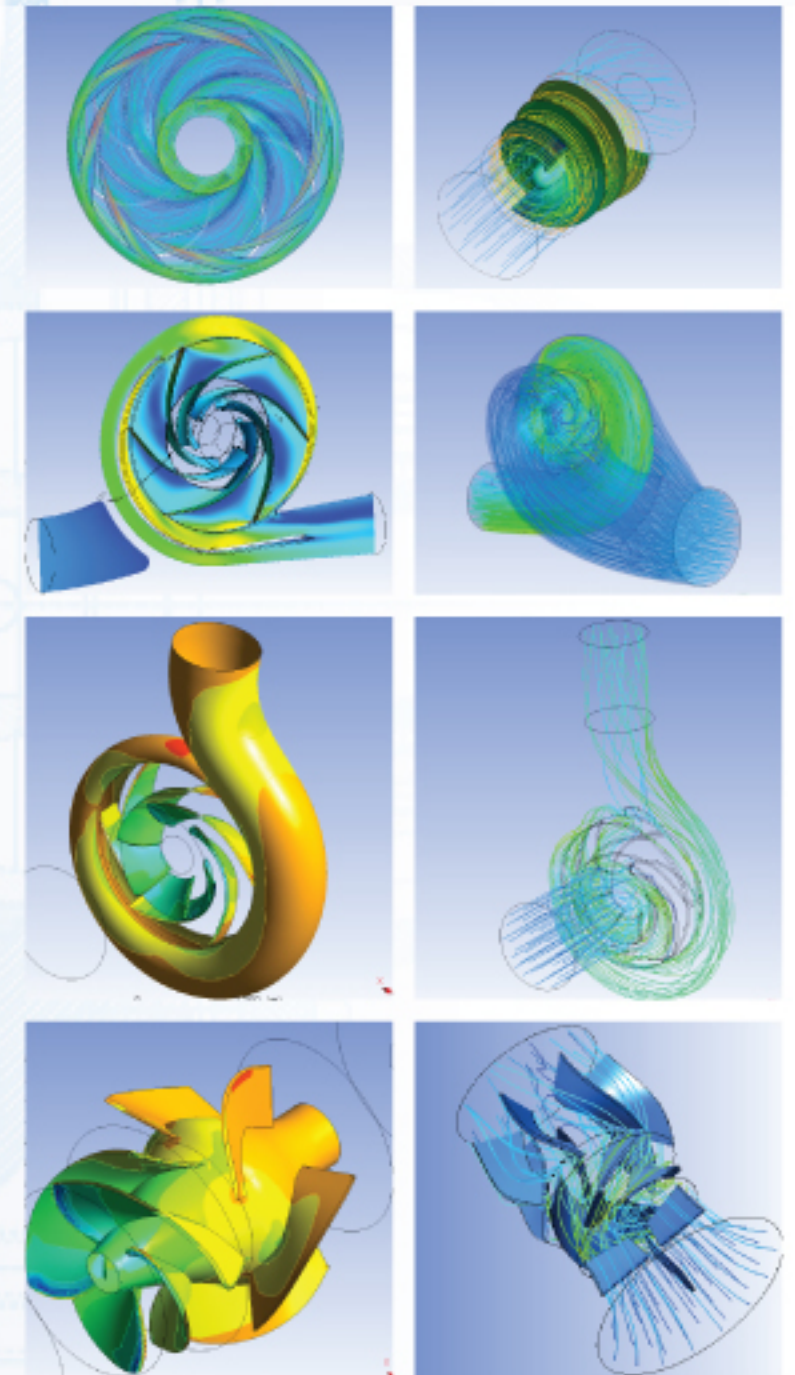
Process Pumps according to API standard

Mixed Flow Pumps

Axial Pumps

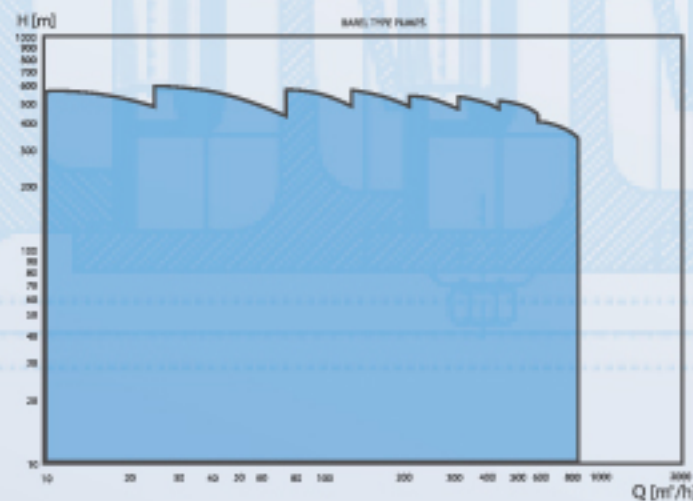
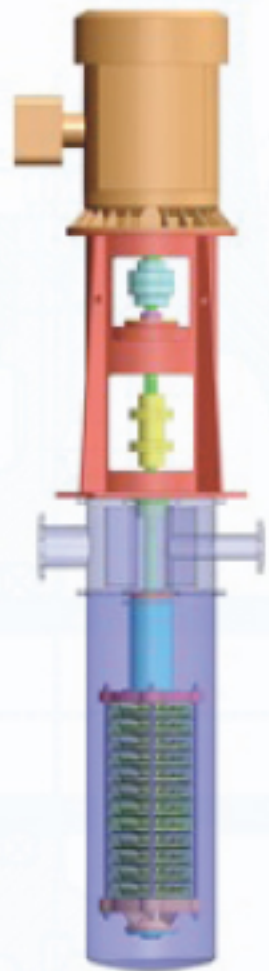
Sewage Pumps

Bottom Intake Pumps



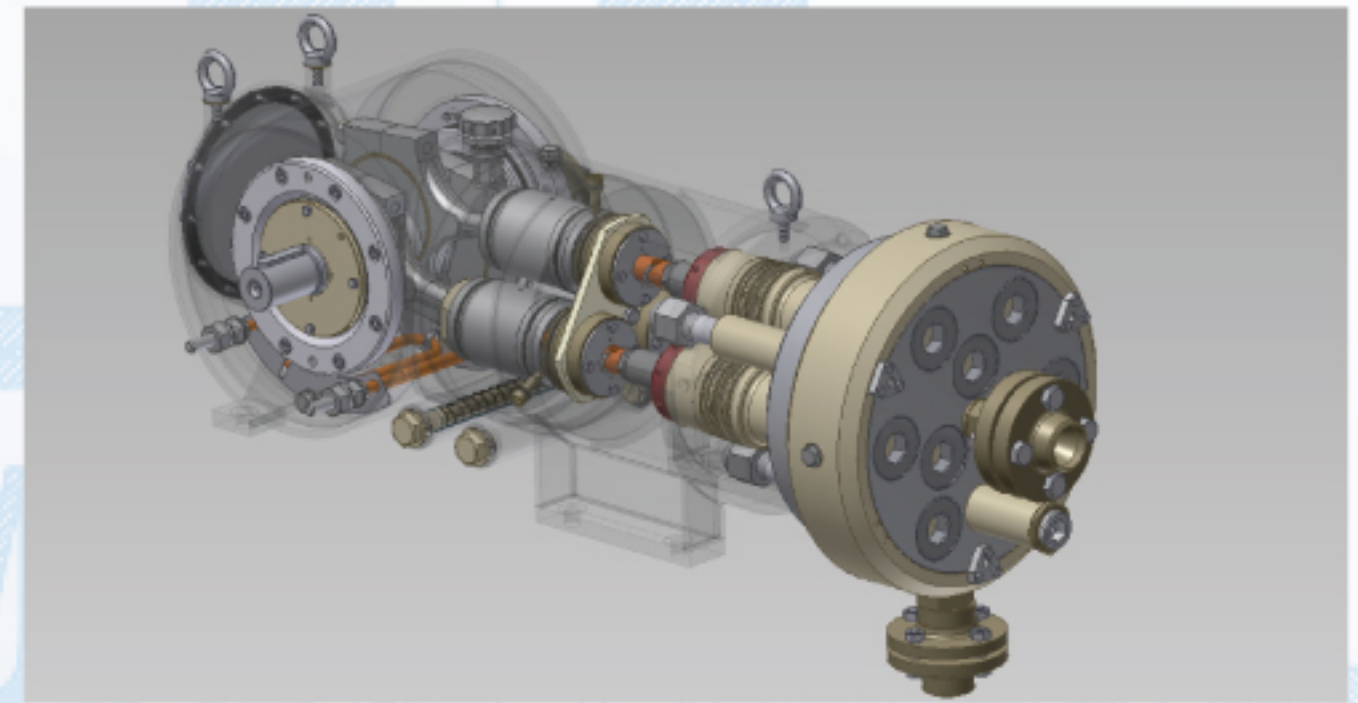


# CONDENSATE BAREL TYPE PUMPS



**Q = 10-850 m<sup>3</sup>/h**  
**H = up to 600 m**  
**n = 1450 rpm, 1750 rpm,**  
**2900 rpm, 3500 rpm**  
**t min -40 °C max 180 °C**  
**P max 64 bar**

# PLUNGER PUMPS



Pump type	p	Q
	bar	m <sup>3</sup> /h
16 PT	400	1
	320	1,25
	250	1,6
	200	2

Pump type	p	Q
	bar	m <sup>3</sup> /h
40 PT	400	3,2
	250	5
	160	8
	100	12,5

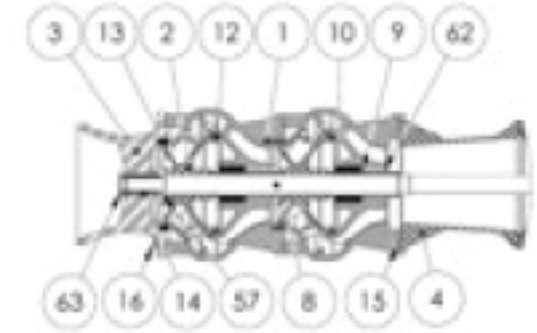
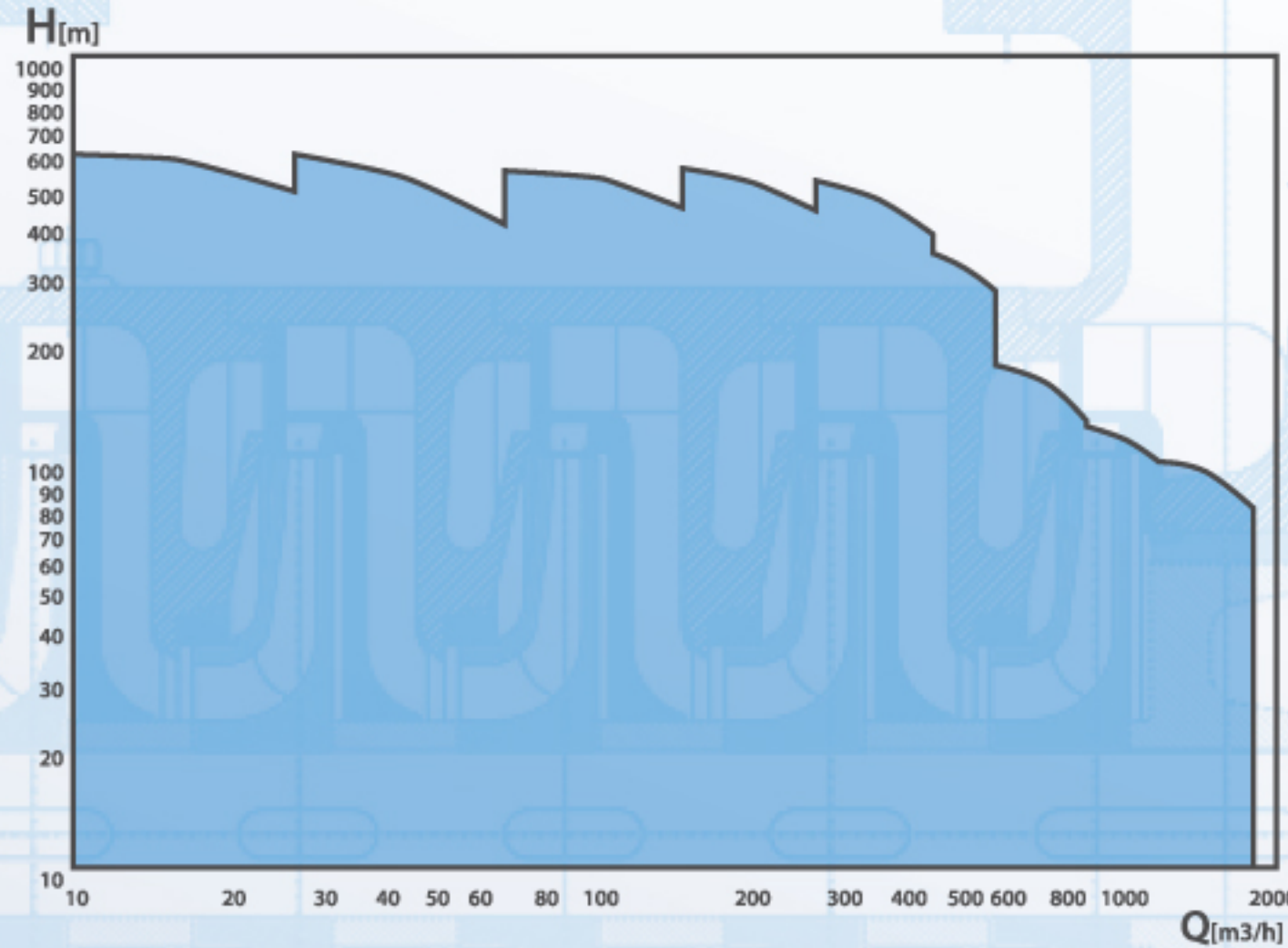
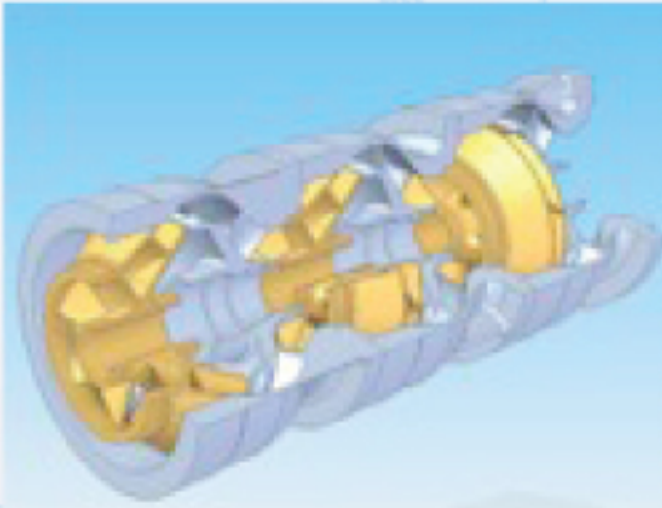
Pump type	p	Q
	bar	m <sup>3</sup> /h
60 PT	400	5
	250	8
	160	12,5
	100	20

Pump type	p	Q
	bar	m <sup>3</sup> /h
80 PT	400	10
	250	16
	160	25
	125	32

**Q = 1-32 m<sup>3</sup>/h**  
**t max 140 °C**  
**P max 400 bar**



# SUMERSIBLE AND VERTICAL PUMPS



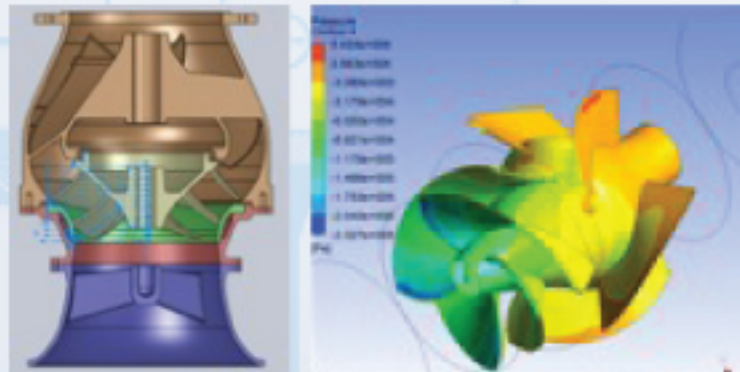
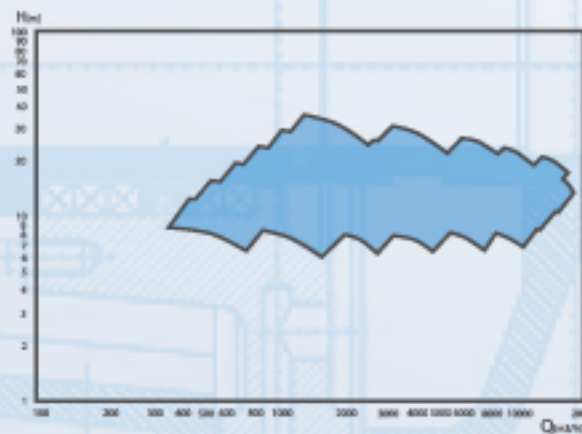
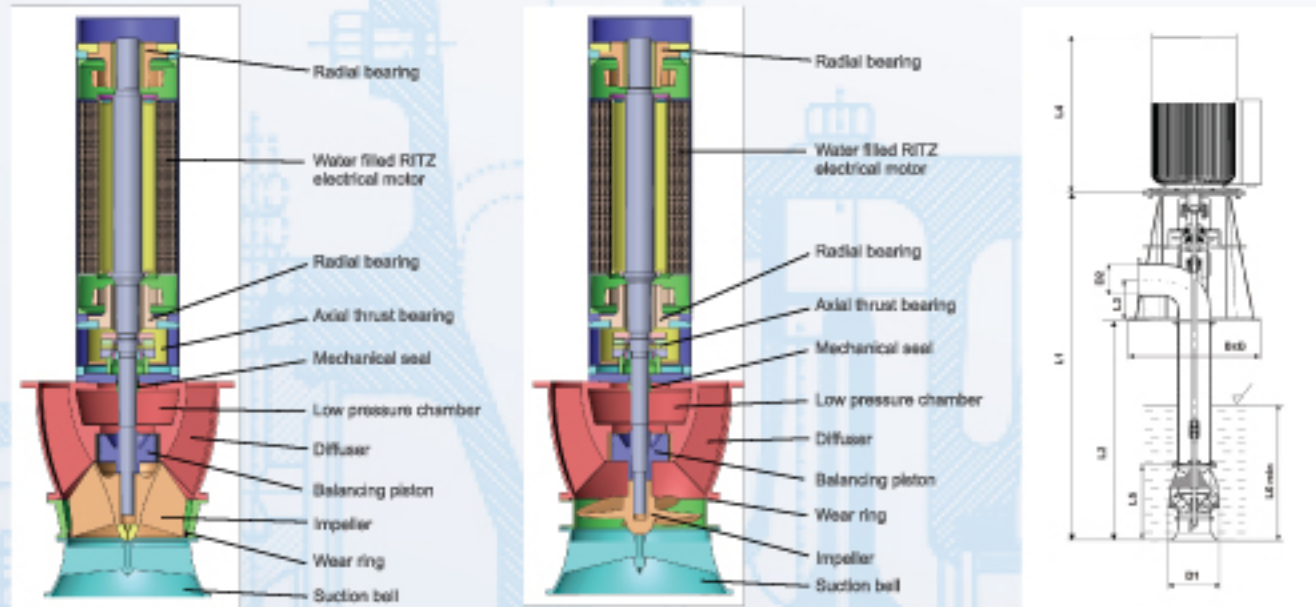
$Q = 10-1800 \text{ m}^3/\text{h}$   
 $H = \text{up to } 600 \text{ m}$   
 $n = 2900 \text{ rpm}, 3500 \text{ rpm},$   
 $t \text{ max } 80 \text{ }^\circ\text{C}$   
 $P \text{ max } 64 \text{ bar}$

$Q = 10-2000 \text{ m}^3/\text{h}$   
 $H = \text{up to } 600 \text{ m}$   
 $n = 1450 \text{ rpm}, 1750 \text{ rpm},$   
 $2900 \text{ rpm}, 3500 \text{ rpm},$   
 $t \text{ max } 140 \text{ }^\circ\text{C}$   
 $P \text{ max } 64 \text{ bar}$



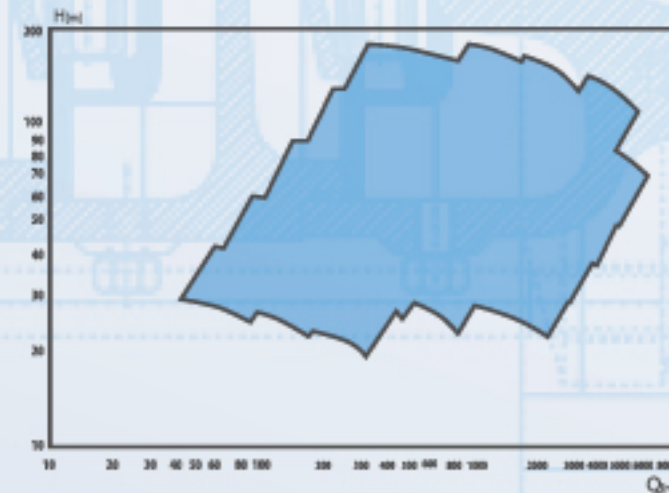


# VERTICAL PUMPS UP TO 20.000 m<sup>3</sup>/h



Q = 400-20.000 m<sup>3</sup>/h  
 H = up to 40 m  
 n = 1450 rpm, 1750 rpm, 2900 rpm, 3500 rpm  
 t max 140 °C  
 P max 6 bar

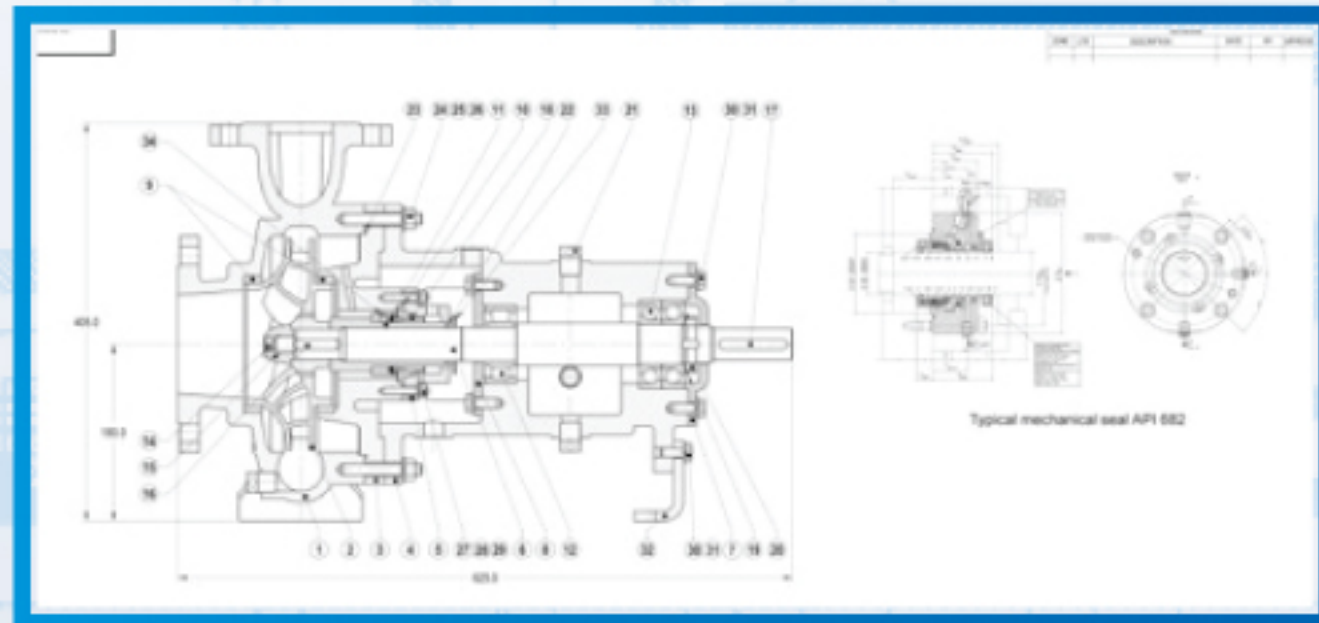
# SPLIT CASING PUMPS



Q = 40-6000 m<sup>3</sup>/h  
 H = up to 180 m  
 t min -40°C max 180 °C  
 P max 40 bar



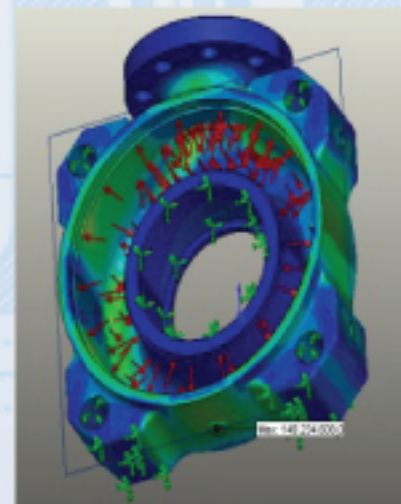
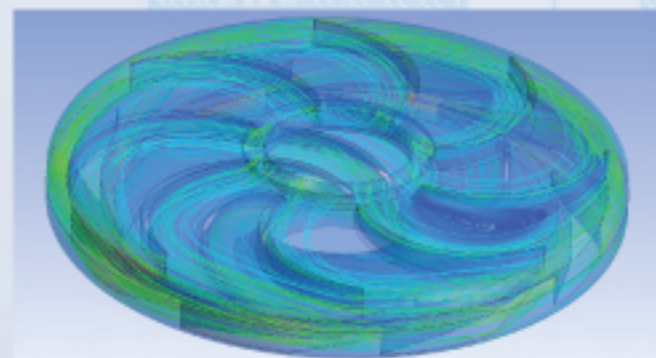
# HEAVY DUTY PROCESS PUMPS, API PUMPS, PUMPS FOR NUCLEAR POWER PLANTS



Hydraulically and mechanical development of pumps for heavy duty process application, refinery services according to API standard, for high pressure and temperature application.

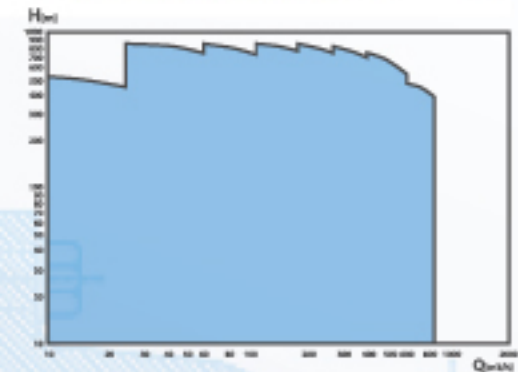
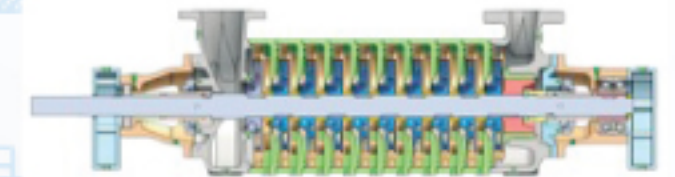
Stress analyzes, rotor dynamic analyzes for different loads, forces, moments and number of revolutions.

Water hammer calculations and design the protection devices.

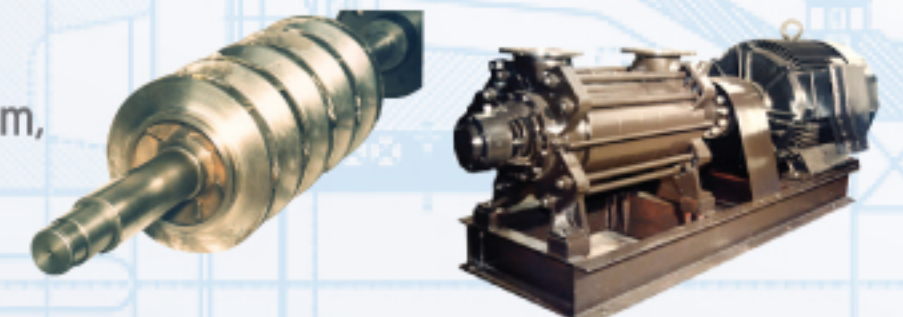


DELIVERY CASING UP TO 125 BAR

# MULTISTAGE PUMPS



Q = 10-850 m<sup>3</sup>/h  
H up to 1000 m  
n = 1450 rpm, 1750 rpm,  
2900 rpm, 3500 rpm  
t max 180 °C  
P max 100 bar



# SELF PRIMING MULTISTAGE PUMPS FOR OIL AND PETROL

Q = 10-500 m<sup>3</sup>/h  
H up to 300 m  
n = 1450 rpm, 1750 rpm,  
2900 rpm, 3500 rpm  
t max 50 °C  
P max 40 bar

