

**The ZS\_S side channel** centrifugal pumps are used for a very large range of applications, in particular for vacuum extraction, fluids with high steam pressure or raw materials in a storage tank centre. They can comply with the standard **DIN-24254** (*for the pumps in PN40*).

This pump technology has the advantage of being selfpriming (even on biphasic mixes) and does not stall in the event of cavitation, but it is not compatible with suspended particles.

Different types of **API-conformed tightness** are available and the mechanical seals conform with **DIN 24 960**.

0.3 m3/h to 35 m3/h

5 to 350 mCl

### LIMITS OF USE

- Flow rate:
- Total head:
- Operating temperature:
  - Operating pressure:

SELECTION CURVES

Speed:

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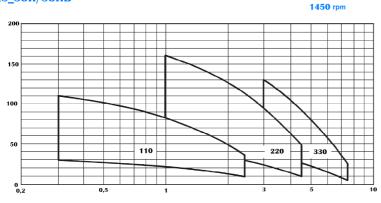
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- ATEX certification:
- < 1750 m ⟨€x⟩ II 2 G II E
- < 16 to < 40 bar < 1750 min-1 II 2 G II B T3/T4

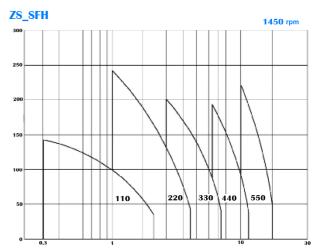
-20 to 120°C (-40 to 220°C for PN40)

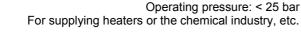


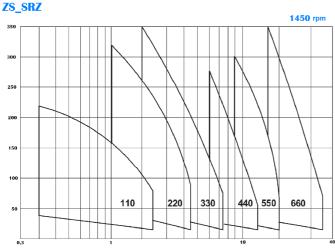
#### ZS\_SOH/SOHB

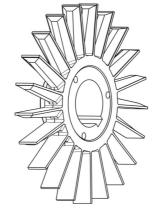


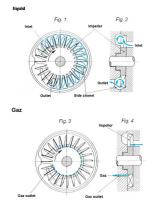
Operating pressure: < 16 bar For industries or general services, etc.











• Operating pressure: < 40 bar

- complies with DIN 24254

### **BUSINESS ACTIVITIES AND PRINCIPAL USE**

Chemical and fine chemicals industries - Pharmaceutical industry - Cosmetic industry - Paper-making industry - Automotive industry - Metalworking industry - Integration companies - Transferring corrosive liquids or solvents - Tank unloading - General use...

## **POMPES GROSCLAUDE**

### **SPECIFICATIONS**

#### **Basic components**

	Material code					
Composant	10	12	32	60	62	
Suction casing	Cast iron FT25	Cast iron FT25	SS 316L	Cast iron GS	Cast iron GS	
Discharge casing	Cast iron FT25	Cast iron FT25	SS 316L	Cast iron GS	Cast iron GS	
Stage casing	Cast iron FT25	Cast iron FT25	Duplex - 1.4470	Cast iron GS	Cast iron GS	
Side Channel casing	Cast iron FT25	Cast iron FT25	Duplex - 1.4470	Cast iron GS	Cast iron GS	
Foot	Cast iron GS	Cast iron GS	Cast iron GS	Cast iron GS	Cast iron GS	
Shaft	SS 420	SS 420	SS 316Ti	SS 420	SS 420	
Impeller	Cu Zn 40 Al 1	Z20CN17.2M	SS 316Cb	Cu Zn 40 Al 1	Z20CN17.2M	
Bearing support	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20	
Bearing cover open	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20	
Bearing cover closed	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20	
Casing gaskets	Teflon	Teflon	Teflon	Teflon	Teflon	
Bearing bush	Bronze	Carbon	Carbon	Bronze	Carbon	

#### Mechanical seal

Standardised mechanical seal (*DIN 24960*) Simple, double back to back, tandem or quenched assembly Non-compensated for outlet pressures less than 16 bar or compensated for pressures above . Friction face: Silicon carbide on carbon with the possibility to change on request

O-ring material: According to the type of liquid conveyed, we'll adapt the type of O-ring

7S SOHB.

W

ZS\_SOH...

w

ZS\_SFH...

ZS SFH...

WW

ZS\_SRZ...

WW

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### **OVERALL DIMENSIONS**

#### **Applications & Industries**

- For all applications where a self-priming pump is required. The pump is adapted for conveying clean, contaminated liquids or dissolved gases (or not), which do not contain abrasive substances.
  - Supplying heaters, construction of installations, chemical and petrochemical industries, machine building, ship building, agriculture, and residential solution for irrigation/watering and drainage.

Features

- The pumps come with oval counter flanges with threaded holes in 1"", 11/4" and 11/2"
- Maximum total head between 110 and 160 mCl since the pump is limited to 16 bar and 7.5 m<sup>3</sup>/h.

#### Applications & Industries

- For all applications where a self-priming pump is required. The pump is adapted for conveying clean, contaminated liquids or dissolved gases (or not), which do not contain abrasive substances.
- Supplying heaters, construction of installations, chemical and petrochemical industries, machine building, ship building, agriculture, and residential solution for irrigation/watering and drainage.

#### Features

- Pumps come with one block (ZS\_SFH...W) or two blocks (ZS\_SFH...WW)
- Maximum total head between 140 and 240 mCl since the pump is limited to 25 bar and 20 m<sup>3</sup>/h.

#### Applications

- The pumps in this series are made of standard, interchangeable hydraulic parts. They have a consistent performance level and comply with DIN 24254, which makes them interchangeable with other manufacturers' pumps.
- Combined with the ZS\_SFH pumps, they can be used for difficult chemical and engineering applications.

Features

- Range of pumps complying with DIN 24254 or DIN/EN 734
- Maximum total head between 220 and 350 mCl since the pump is limited to 40 bar and 36 m<sup>3</sup>/h

### PART NUMBER

	SRZ		33	2	w	G15	Т	- 32 -	3	- 4	1	- 27135
	Туре		Size	N° of stage	Ball bearing	Shaft seal - Mechanical seal	Mechanical seal gasket	Material code		Motor		Serial N°
зонв	Low pressure	PN16	11	1à4 ZS_SOH	W 1	G11 Unbalanced single	V FPM		Power (kW)	4 4 poles (# 1450 rpm)	Protection	
ОН	Low pressure + base plate	PN16	22	1à6 ZS_SFH	WW 2	G12 Balanced single	E EPDM				A ATEX	
FH	Medium pressure	PN25		1à8 ZS_SRZ		G15 Unbalanced double	T FPM jacket PTFE				I non-ATEX	
RZ	High pressure	PN40	66		•	G16 Balanced double						
				•		Q31 Unbalanced single						
						Q32 Balanced single						

# **POMPES GROSCLAUDE**

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#### Pump inlet and outlet connections

	Туре					
Size	ZS_SO	ZS_SF	ZS_SR			
110	1"	DN25 PN25	DN25 PN40			
220	11⁄4"	DN32 PN25	DN32 PN40			
330	11⁄2"	DINJ2 FIN2J	DIN32 FIN40			
440		DN40 PN25	DN40 PN40			
550	Not available	DN50 PN25	DN50 PN40			
660		Not available	DN65 PN40			