



Standardized Chemical Pumps

with hydrodynamic shaft seal

Automation products available:

- PumpExpert
- Hyamaster
- hyatronic

Fields of Application

CPK.D pumps are used for handling corrosive liquids in the chemical and petrochemical industry, in the food industry, in refineries, in varnishing systems, for heavy-oil and carbon refinement, particularly when double mechanical seals cannot be used because there is no suitable sealing liquid, and if there is no flushing liquid available to feed the packed gland or if the flushing liquid must not mix with the liquid handled.

Design

Horizontal, radially split volute casing pumps in process-type design, in accordance with ISO 2858, **with leakagefree, hydrodynamic shaft seal**, with radial impeller, single-flow, single-stage.

Designation

CPK C D 65 - 250

Type series _____
Material of parts in contact with liquid handled _____
Hydrodynamic shaft seal _____
Discharge nozzle DN _____
Nominal impeller dia. in mm _____

Operating Data

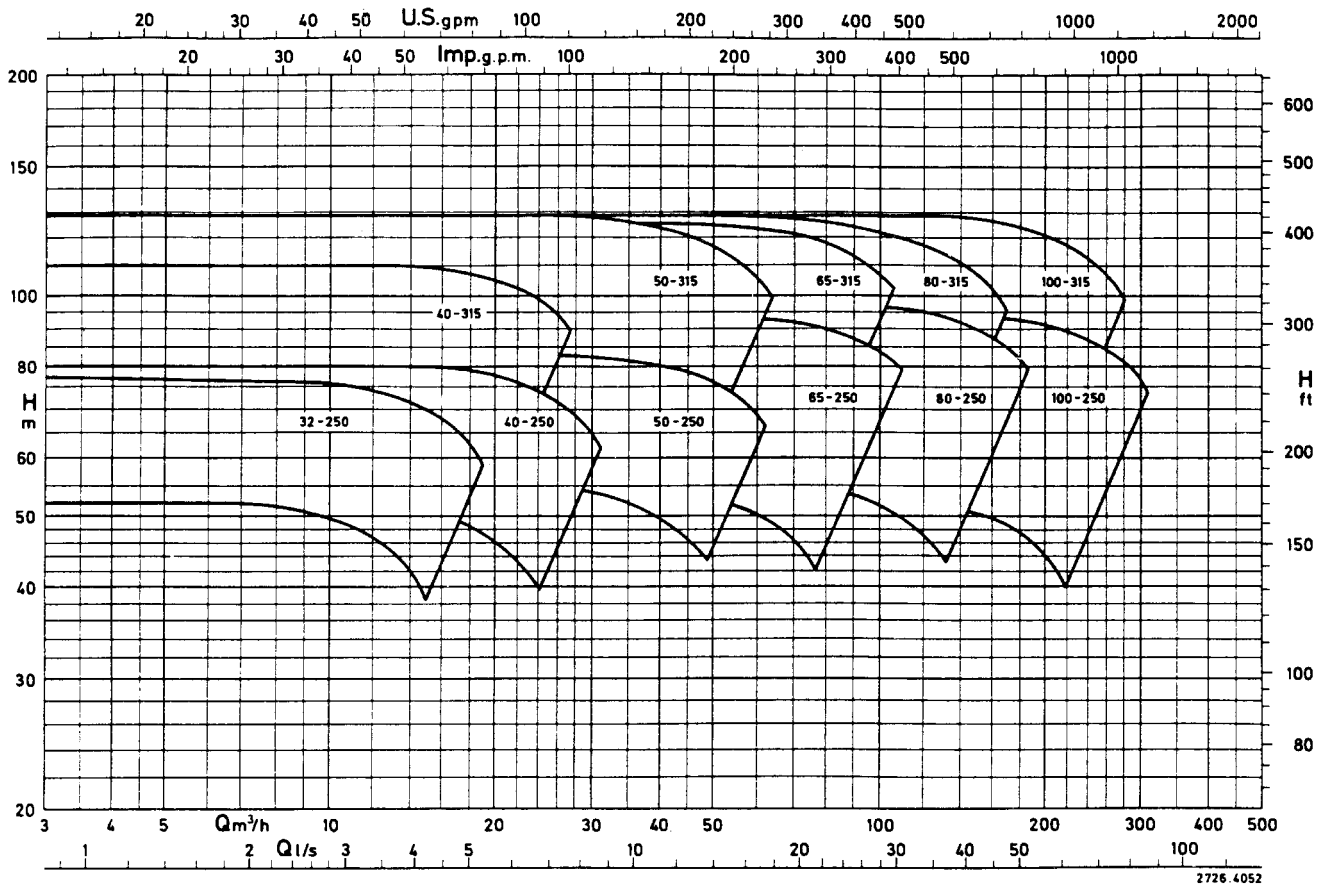
Capacity	Q	up to 305 l/s (1100 m ³ /h)
Head	H	up to 128 m
Nominal discharge nozzle dia.	DN	32 to 250

Certification

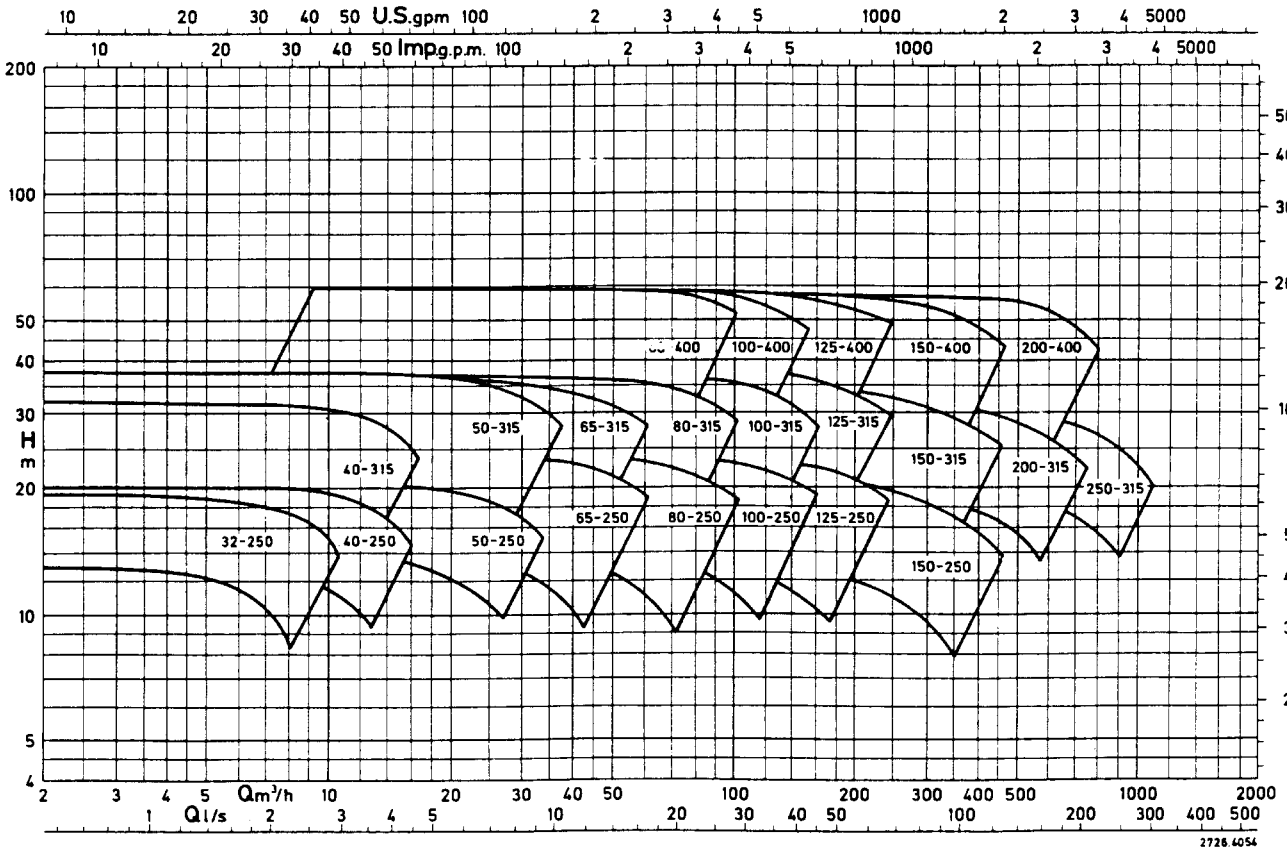
Certified quality management ISO 9001.

Selection Charts

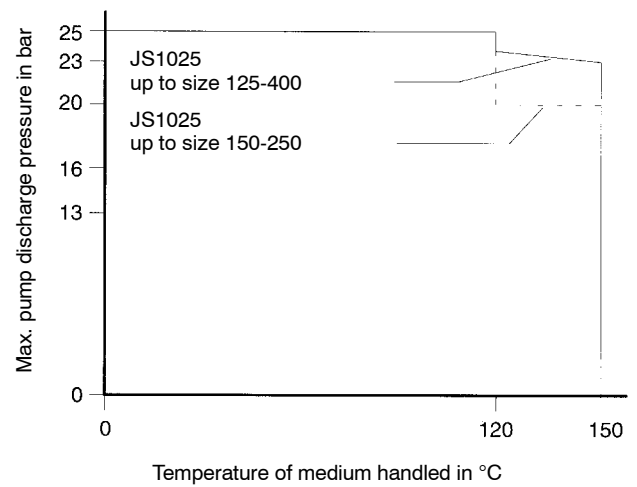
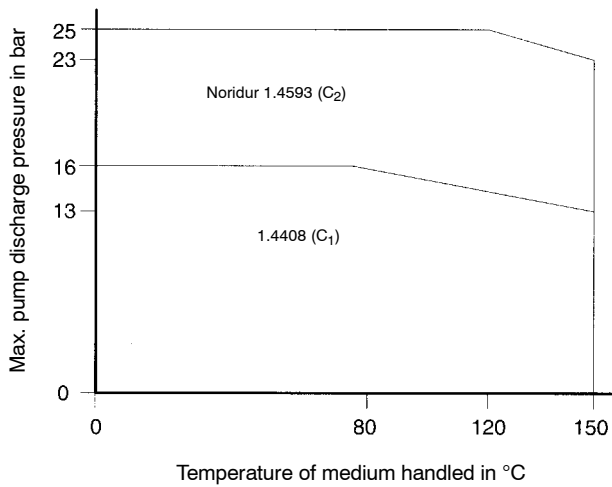
n = 2900 1/min



n = 1450 1/min



Pressure and Temperature Limits



The diagram refers to the components under pressure, i.e. the pump casing and discharge cover.
The design pressure depends on the hydrodynamic shaft seal and is usually lower than shown in the diagram.

Materials

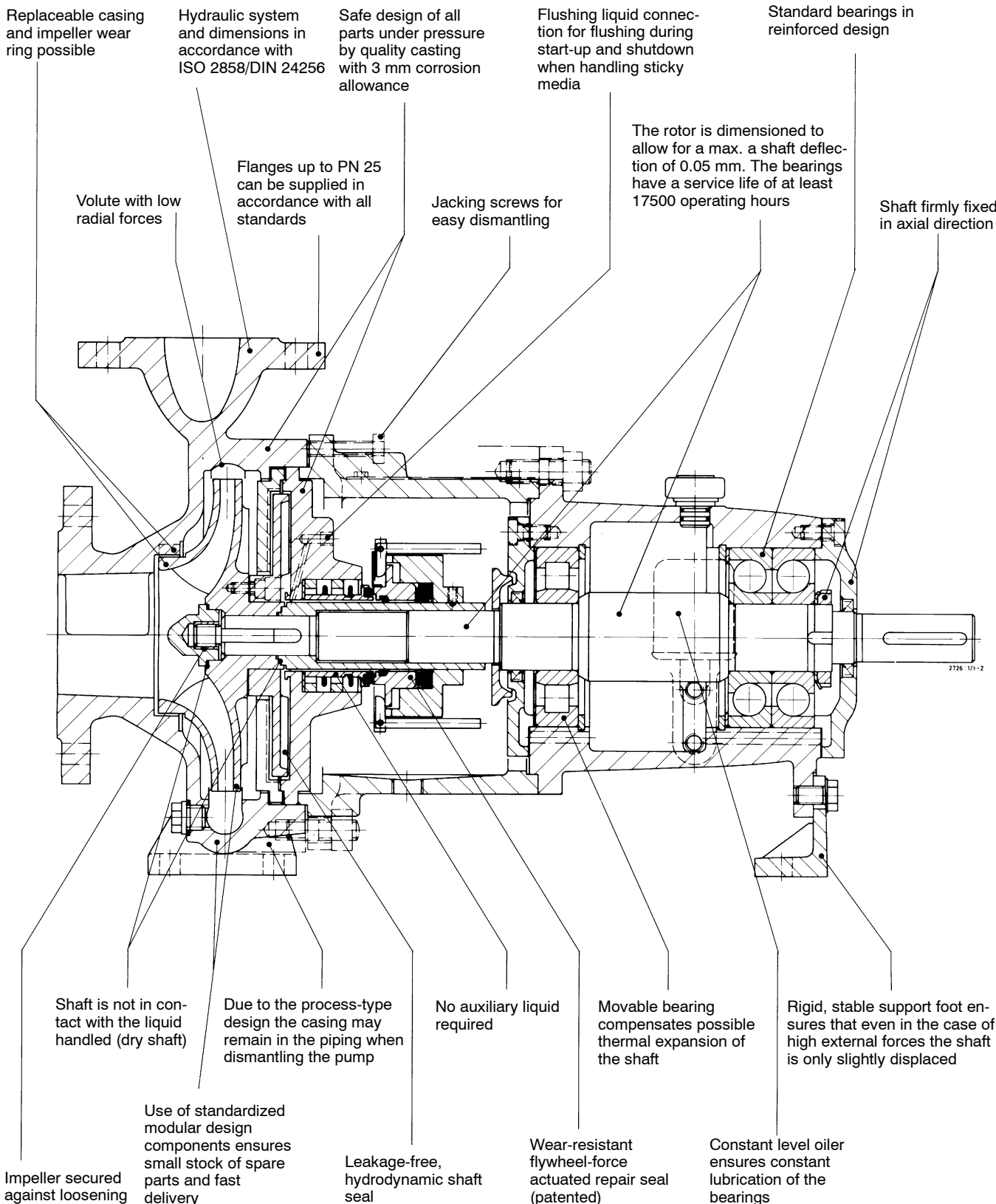
Part No.	Designation	Material variant		
		S	C ₁	C ₂
102	Volute casing	JS1025 ¹⁾	1.4408	Noridur 1.4593
160.02	Cover	1.4571	1.4571	1.4571
160.09	Intermediate cover	Noridur 1.4593	Noridur 1.4593	Noridur 1.4593
163	Discharge cover	JS1030 ²⁾	Noridur 1.4593	Noridur 1.4593
183	Support foot	JS1030 ²⁾	JS1030 ²⁾	JS1030 ²⁾
210	Shaft	C 45+N	C 45+N	C 45+N
230.01	Impeller	JL1040 ³⁾	1.4408	Noridur 1.4593
230.02	Auxiliary impeller for stuffing box pressure reduction	JL1040 ³⁾	Noridur 1.4593	Noridur 1.4593
330	Bearing bracket	JL1040 ³⁾	JL1040 ³⁾	JL1040 ³⁾
344	Bearing bracket lantern	JL1040 ³⁾	JL1040 ³⁾	JL1040 ³⁾
504.04	Spacer ring	1.4571	1.4571	1.4571
520.10	Sleeve	1.4571	1.4571	1.4571
524.01	Shaft protecting sleeve	Noridur 1.4593	Noridur 1.4593	Noridur 1.4593
897.01	Guide piece	1.4571	1.4571	1.4571
922	Impeller nut	1.4571	1.4571	1.4571

1) GJS-400-18-LT to EN 1563

2) GJS-400-15 to EN 1563

3) GJL-250 to EN 1561

Design Features



Subject to technical modification without prior notice.

1.12..2005

2726.1/6-10

