

PC-V

WASTE WATER AND PROCESS PUMPS (SUMP DESIGN)



Handled Liquids

Domestic and industrial waste water, raw sewage, viscous and corrosive liquids, liquids with fibrous and solid substances.

Technical Data

Discharge Flange : DN 40 ... DN 300 mm

Capacity : up to 1600 m³/h

Head : up to 95 m

Speed : up to 1450 rpm

Operating Temperature : up to 95 °C *

Casing Pressure : 10 Bar

(*) The material of pumps differ according to the type of pumped liquid, operating temperature and pressure. Contact for detailed information.

- Closed, semi-open or free vortex type impeller design.
- Direction of rotation is clockwise viewed from driver end.
- Discharge flanges conform to EN 1092 - 2 / PN10 (PN16*).
- All impellers are dynamically balanced according to ISO 1940 Class 6.3.
- Axial thrust is balanced by impeller back ribs.
- Bearings of PC-V type pumps are grease lubricated.

Design Features

- Vertical shaft, single stage, end suction centrifugal sump pumps for industrial applications.
- Up to 4m. column length.
- Discharge pipe is extended upto base plate for easy installation.

Shaft Sealing

- No sealing is required.

Pump Designation

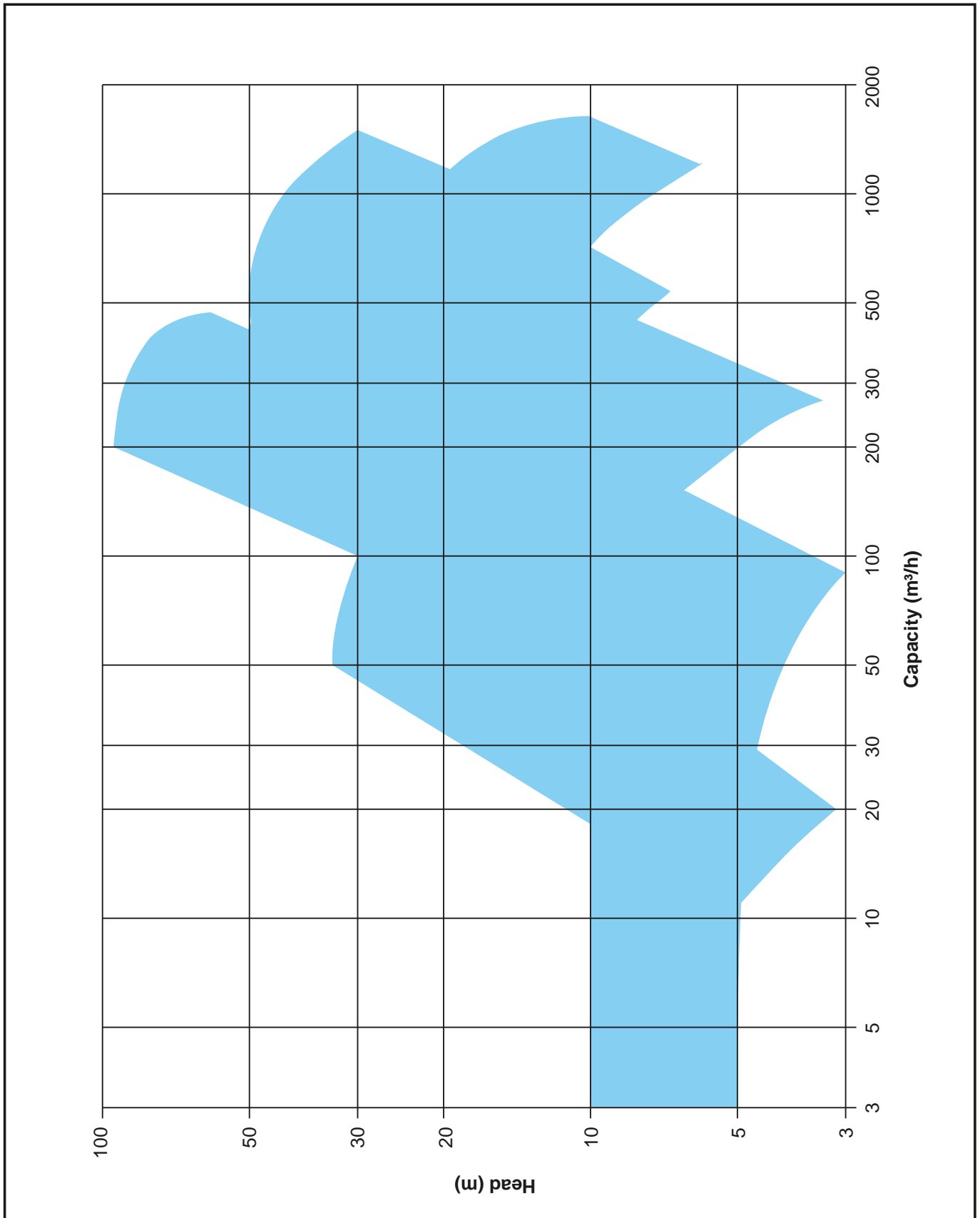
PC-V 100 - 270 - AB

Pump Type

Discharge Nozzle (DN-mm)

Nominal Impeller Diameter (mm)

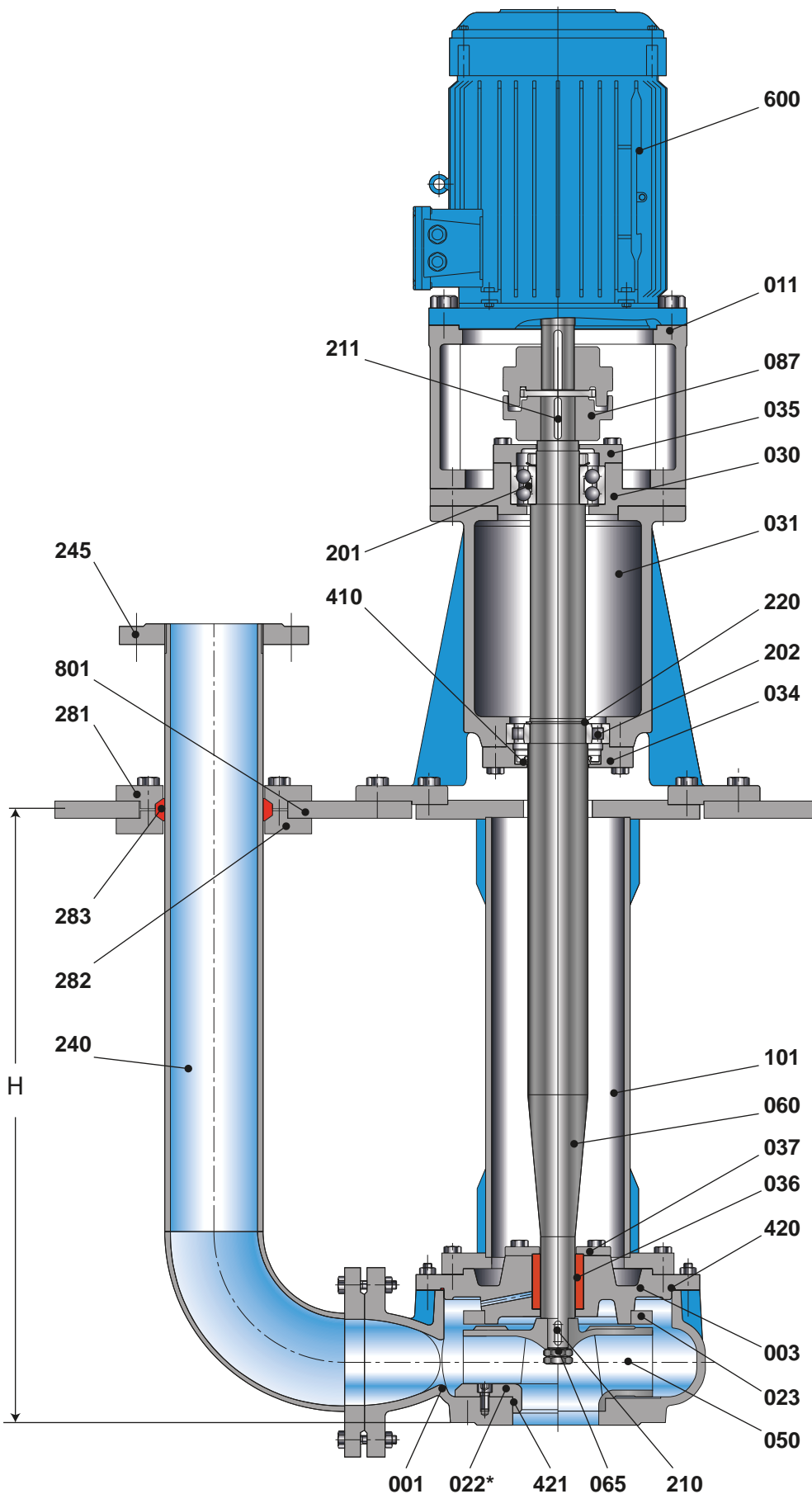
Impeller Type



Sectional Drawing (up to "H" 1.5 m. column length)

PC-V

Part List



001	Volute Casing
003	Casing Cover
011	Motor Pedestal
023	Back Wear Plate
022*	Wear Ring (front)
030	Bearing Housing (top)
031	Bearing Housing (bottom)
034	Bearing Cover (bottom)
035	Bearing Cover (top)
036	Sleeve Bearing
037	Sleeve Bearing Cover
050	Impeller
060	Shaft
065	Impeller Nut
087	Flexible Coupling
101	Column Pipe
201	Double Row Ball Bearing
202	Cylindrical Roller Bearing
210	Impeller Key
211	Coupling Key
220	Circlip
240	Discharge Pipe
245	Discharge Flange
281	Top Fixing Flange
282	Bottom Fixing Flange
283	Rubber Gasket
410	Oil Seal
420	O-Ring
421	O-Ring
600	Electric Motor
801	Base Plate

(*) Optional

Technical Data

PC-V

Material Options

Part List	0.6025	0.7040	1.0619	1.4308	1.4309	1.4408	1.4409	1.4500	1.4517	1.4469	1.4317	2.1050.01	2.0975.01	1.0037	1.0503	1.4021	1.4301	1.4306	1.4401	1.4404	1.4462	
Volute Casing	●	○	○	○	○	○	○	○	○	○	○	○	○									
Casing Cover	●	○	○	○	○	○	○	○	○	○	○	○	○									
Impeller	●	○	○	○	○	○	○	○	○	○	○	○	○									
Shaft															●	○	○	○	○	○	○	○
Bearing Housing	●	○																				
Column Pipe														●			○	○	○	○	○	○
Front Wear Plate	○	○	○	○	○	○	○	○	○	○	○	○	○					○	○	○	○	○
Back Wear Plate	●	○	○	○	○	○	○	○	○	○	○	○	○									

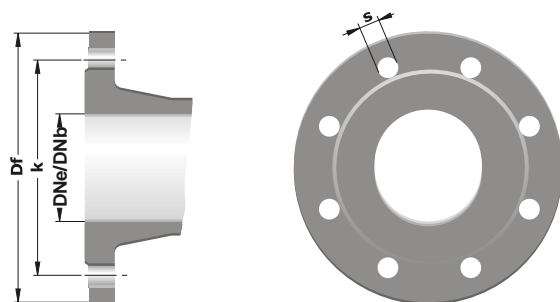
● Standart manufacturing
○ Optional

Material Equivalents

Descriptions	DIN 17007	EN-DIN	ASTM
Cast iron	0.6025	GJL-250 (GG 25)	A 48 Class 40-B
Nodular cast iron	0.7040	GJS-400-15 (GGG 40)	A 536 Gr. 60-40-18
Cast steel	1.0619	GP240GH (GS-C 25)	A 216 Gr. WCB
Chrome nickel cast steel	1.4308	G-X5 Cr Ni 19-10	A 351/743/744 Gr. CF8
Chrome nickel cast steel (low carbon)	1.4309	G-X2 Cr Ni 19-11	A 351/743/744 Gr. CF3
Chrome nickel molybdenum cast steel	1.4408	G-X5 Cr Ni Mo 19-11-2	A 351/743/744 Gr. CF8M
Chrome nickel molybdenum cast steel (low carbon)	1.4409	G-X2 Cr Ni Mo 19-11-2	A 351/743/744 CF3M
Austenitic cast steel	1.4500	G-X7 Cr Ni Mo Cu Nb 25-20	A 351/743/744 (CN7M)
Austenitic-ferritic cast steel (duplex)	1.4517	G-X2 Cr Ni Mo Cu N 25-6-3-3	A 890 Gr. 1B (CD4MCuN)
Austenitic-ferritic cast steel (super duplex)	1.4469	G-X2 Cr Ni Mo N 26-7-4	A 890 Gr. 5A (CE3MN)
Martenzitic Stainless Cast Steel	1.4317	GX4 Cr Ni 13-4	A 351/743/744 (CA6NM)
Cast bronze (tin alloy)	2.1050.01	G-Cu Sn 10	B 584 C 90700
Cast bronze (nickel alloy)	2.0975.01	G-Cu Al 10 Ni	B 148 C 95800
Steel	1.0037	St 37	A 29 1015
Carbon steel	1.0503	C 45	A 29/108/576 1045
Chrome steel	1.4021	X20 Cr 13	A 276 Type 420
Chrome nickel steel	1.4301	X5 Cr Ni 18-10	A 276 Type 304
Chrome nickel steel (low carbon)	1.4306	X2 Cr Ni 19-11	A 276 Type 304L
Chrome nickel molybdenum steel	1.4401	X5 Cr Ni Mo 17-12-2	A 276 Type 316
Chrome nickel molybdenum steel (low carbon)	1.4404	X2 Cr Ni Mo 17-12-2	A 276 Type 316 L
Duplex (austenitic-ferritic) steel	1.4462	X2 Cr Ni Mo N 22-5-3	A 276 S 31803

Flange Dimensions

Flange Dimensions (PN 16)				
DNe/DNb	Df	k	s	n
40	150	110	19	4
50	165	125	19	4
65	185	145	19	4
80	200	160	19	8
100	220	180	19	8
125	250	210	19	8
150	285	240	23	8
200	340	295	23	12
250	405	355	28	12
300	460	410	28	12



" n " number of holes