

EN ISO 9905

Standart

PC

Waste Water and Process Pumps



ATEX



ST PC 00 10-10 EN

Liquids Handled

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

Technical Data

Discharge Nozzle _____ : DN 40 ... DN 300 mm

Capacity _____ : up to 1500 m³/h

Head _____ : up to 95 m

Speed _____ : up to 2950 rpm

Operating Temperature _____ : -10° C up to 110° C

Casing Pressure (Pmax) _____ : 10 bar (16 bar*)

(Pmax: Suction Pressure + Shutoff Head)

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

- 15 basic sizes covering wide range of operational area.
- Due to the back-pull-out design, the complete bearing assembly including impeller and shaft seal can be dismantled without removing the volute casing from the piping system.
- Suction and discharge flanges conforming to ISO 7005-2 / PN10 (PN16*)
- All impellers are dynamically balanced according to ISO 1940 Class 6.3.
- Axial thrust is balanced by back balancing ribs.

Applications

Pumping domestic and industrial raw sewage

- Sewage treatment plant
- Pumping rain water
- Drainage and dewatering works
- Dirty and muddy water
- Viscous and fibrous liquids
- Apartments, hotels, hospitals, resort villages, public buildings

Design Features

- Horizontal, radially split volute casing, single stage, end suction centrifugal pumps with enclosed or semi-open impeller.

Bearings

- Oil lubricated or life-time grease lubricated heavy duty bearings depending on construction and request.

Shaft Sealing

- Depending on the type of application different mechanical seals and soft packing is applicable.

Direction of Rotation

- The direction of rotation is clockwise (CW) viewed from the motor side.

Pump Designation

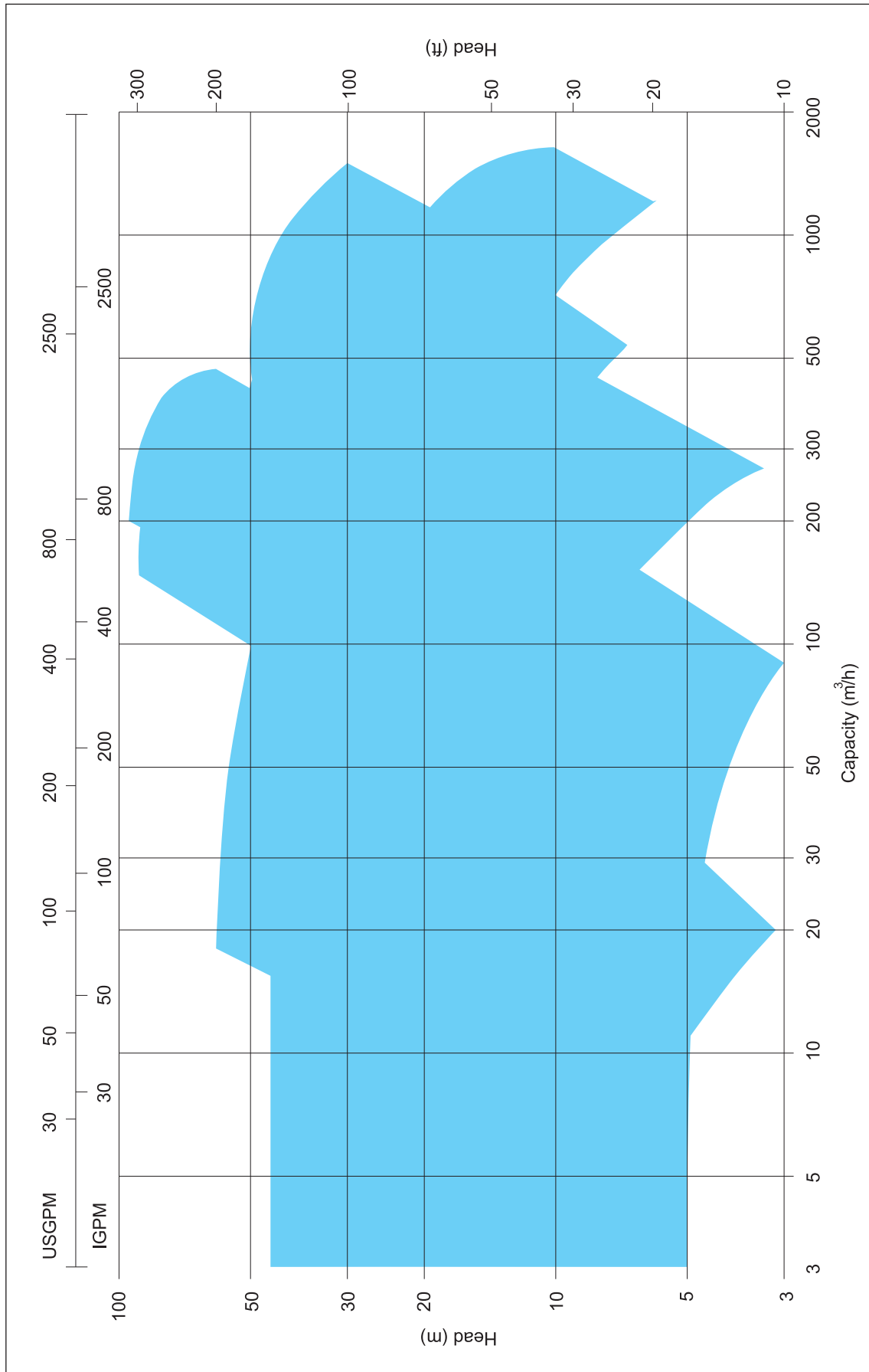
Pump Type _____

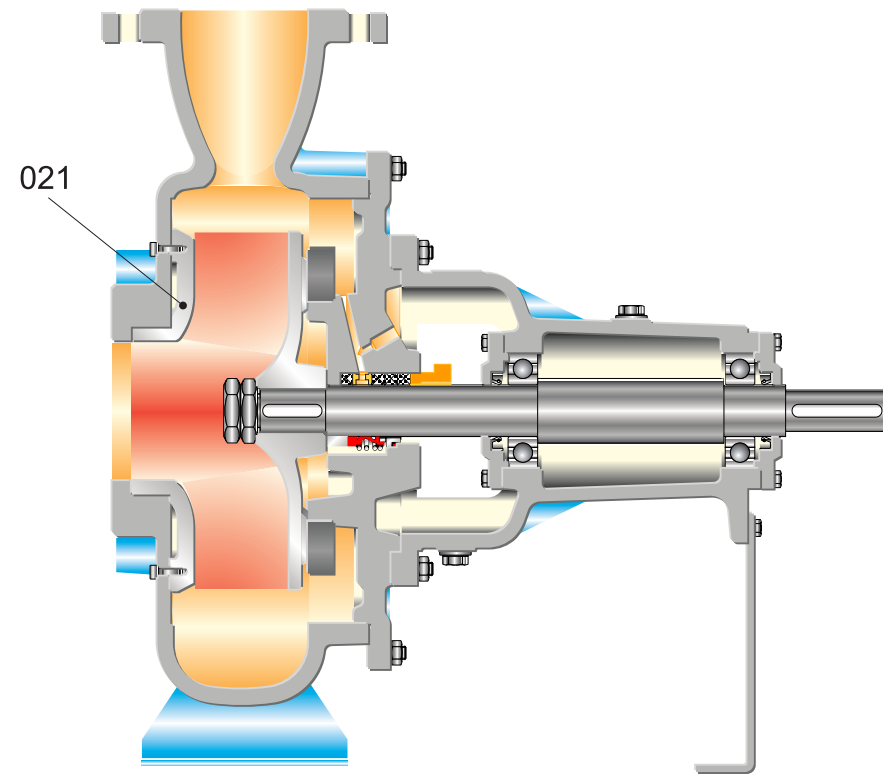
Discharge (DN in mm) _____

Nominal Impeller Diameter (mm) _____

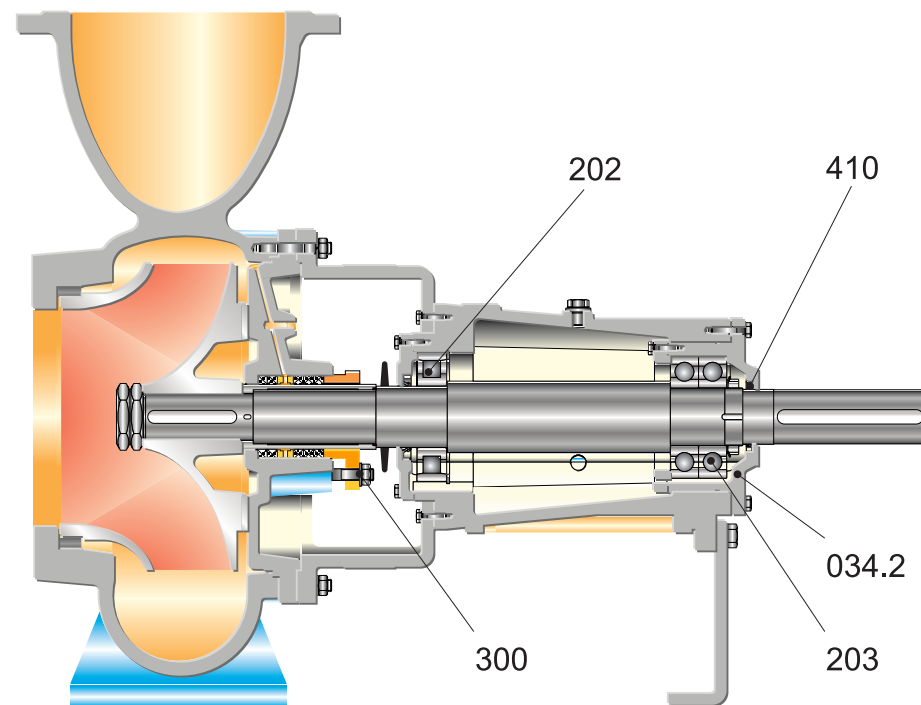
Impeller Type _____

PC 250 - 315 XX

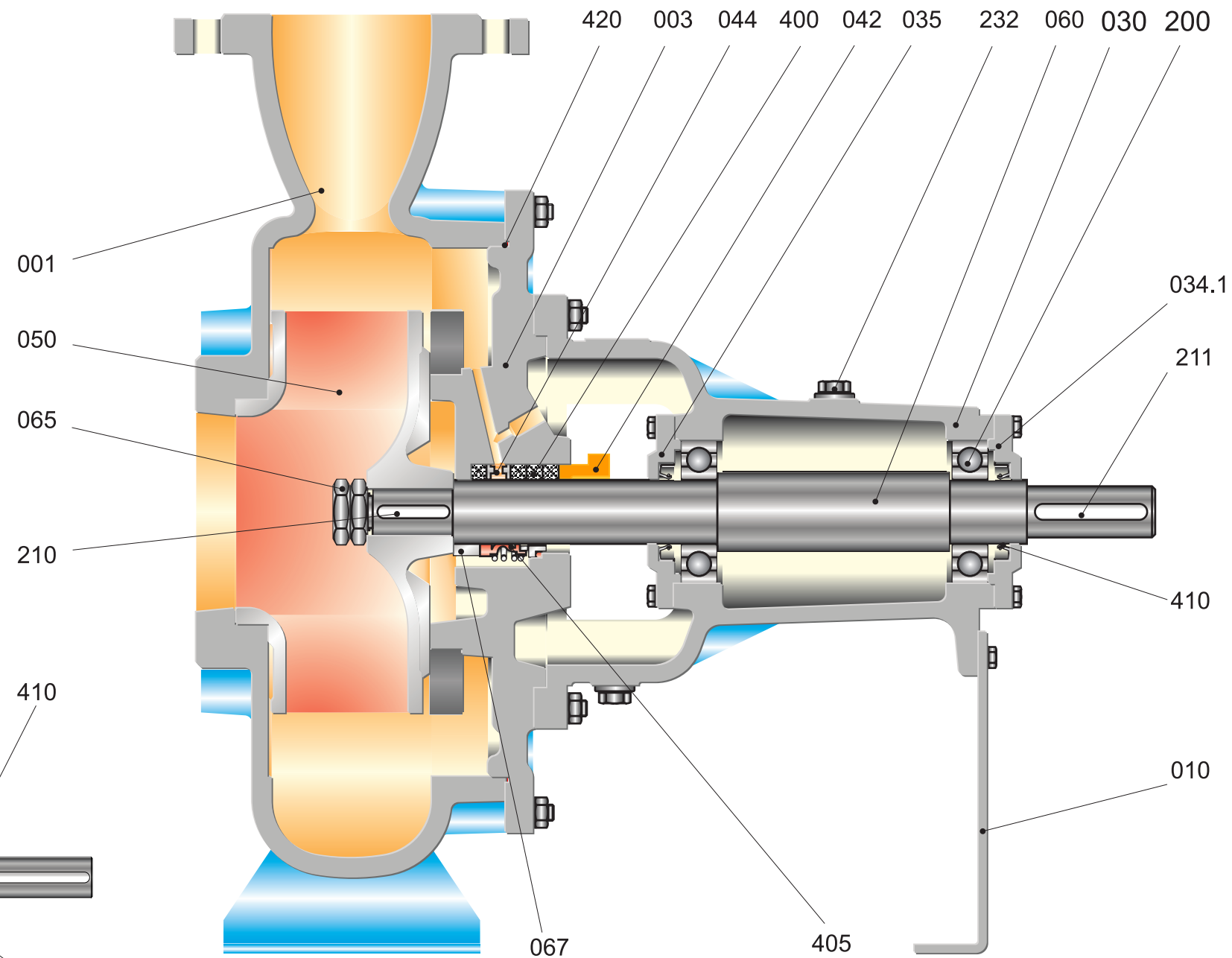




Semi-open Impeller Application

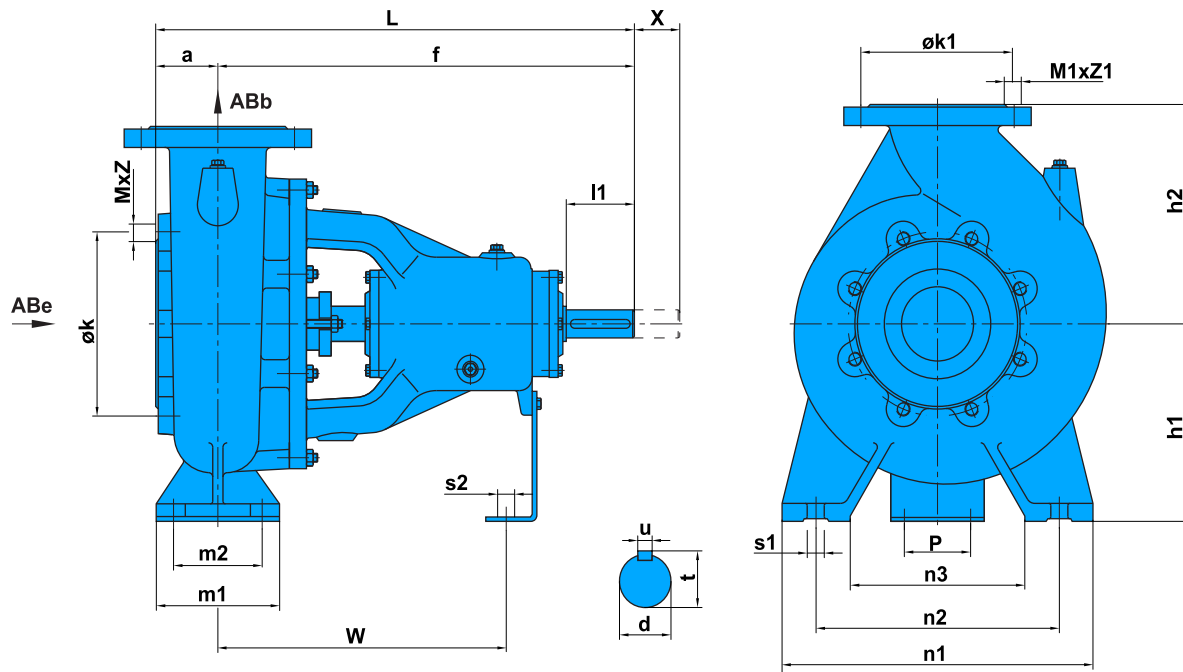


Heavy Duty Bearing Application



Parça Listesi

- 001 — Volute casing
- 003 — Casing cover
- 010 — Frame foot
- 021 — Wear plate
- 030 — Bearing housing
- 034.1 — Bearing cover
- 034.2 — Bearing pedestal
- 035 — Bearing cover
- 042 — Stuffing box gland
- 044 — Lantern ring
- 050 — Impeller
- 060 — Pump shaft
- 065 — Impeller nut
- 067 — Spacer sleeve
- 200 — Ball bearing
- 202 — Cylindrical roller bearing
- 203 — Angular contact ball bearing
- 210 — Impeller key
- 211 — Coupling key
- 232 — Oil filling plug
- 300 — Gland stud and nut
- 400 — Stuffing box packing
- 405 — Mechanical seal
- 410 — Oil seal
- 420 — O-Ring



Pump Type	ABe	ABb	PUMP DIMENSIONS (mm)																			FLANGE DIMENSIONS			
			a	f	L	h1	h2	m1	m2	n1	n2	n3	s1	P	s2	W	d	l1	t	u	x	k	MxZ	k1	M1xZ
PC 40-160	50	40	82	348	430	160	180	100	70	240	190	140	14	110	14	247	24	50	27.3	8	120	125	M16x4	110	18x4
PC 50-160	65	50	100	350	450	160	180	100	70	270	212	160	14	110	14	270	24	50	27.3	8	120	145	M16x4	125	18x4
PC 50-200	65	50	105	360	465	160	200	100	95	270	210	160	14	110	14	270	24	50	27.3	8	120	145	M16x4	125	18x4
PC 65-200	80	65	108	372	480	180	225	125	95	330	255	190	14	110	14	260	24	50	27.3	8	120	160	M16x8	145	18x4
PC 80-160	100	80	83	384	467	180	180	120	85	310	250	190	14	110	14	288	24	50	27.3	8	120	180	M16x8	160	18x8
PC 80-200	100	80	83	488	571	180	220	125	90	350	280	215	18	110	14	358	32	80	35.3	10	140	180	M16x8	160	18x8
PC 80-315	100	80	55	480	535	250	310	125	95	400	315	240	18	110	14	350	32	80	35.3	10	140	180	M16x8	160	18x8
PC 100-240	125	100	82	492	574	225	250	160	110	370	280	205	20	110	14	357	32	80	35.3	10	140	210	M16x8	180	18x8
PC 100-270	125	100	97	500	597	275	310	160	110	430	345	270	20	110	14	371	32	80	35.3	10	140	210	M16x8	180	18x8
PC 100-315	125	100	97	500	597	275	310	160	110	430	345	270	20	110	14	371	32	80	35.3	10	140	210	M16x8	180	18x8
PC 150-315	150	150	119	638	682	280	355	200	150	500	400	300	23	110	14	445	42	110	45.3	12	190	240	M20x8	240	23x8
PC 200-315	200	200	165	707	872	355	450	250	200	600	500	360	24	110	14	543	48	110	51.3	12	250	295	M20x8	295	23x8
PC 200-400	200	200	142	757	899	380	530	250	200	600	500	360	24	140	20	536	55	110	59.3	16	235	295	M20x8	295	23x8
PC 250-315	200	250	145	1003	1148	335	475	300	230	680	540	400	27	140	20	753	70	140	74.9	20	265	295	M20x8	350	23x12
PC 300-400	300	300	201	974	1175	400	560	300	240	720	600	435	27	140	20	730	75	140	79.9	20	285	400	M20x12	400	23x12

* Dimensions may differ according to bearing type (normal, heavy-duty, etc.). Rights reserved to change without notice.

Material Options

Parts List	0.6025	0.7040	1.0619	1.4308	1.4309	1.4408	1.4409	2.1050.01	2.1090.01	1.4138	1.0501	1.1191	1.4021	1.4301	1.4306	1.4401	1.4404
Volute casing	●	○	○	○	○	○	○	○	○								
Casing cover	●	○	○	○	○	○	○	○	○								
Impeller	●	○	○	○	○	○	○	○	○								
Shaft											●	○	○	○	○	○	○
Bearing housing	●	○	○	○	○	○	○	○	○								
Wear ring (Casing)	●	○	○	○	○	○	○	○	○	○							
Wear plate	○	○	○	○	○	○	○	○	○								
Shaft protecting sleeve											○	○	○	○	○	○	○
Mechanical seal (*)																	
EN 12756 / DIN 24960																	

(*) Optional :Depending on customer requirement or request different types and brands of mechanical seals are applicable.

● Standard manufacturing

○ Optional

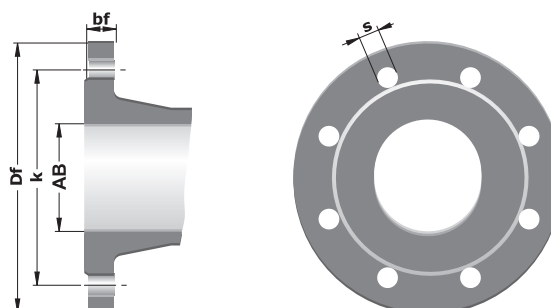
Material Equivalents

Description	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 Gr. CF3M
Cast bronze	2.1050.01	G-Cu Sn 10	B 584 C 90700
Cast bronze	2.1090.01	G-Cu Sn 7 Zn Pb	B 584 C 93200
Chrome molybdenum cast steel	1.4138	G-X120 Cr Mo 29-2	-
Carbon steel	1.0501	C 35	A 29/108/576 1035
Carbon steel	1.1191	C 45 E (Ck 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

Flange Dimensions

Flange Dimensions (PN 10)					
AB	Df	k	s	n	bf
40	150	110	19	4	18
50	165	125	19	4	20
65	185	145	19	4	20
80	200	160	19	8	22
100	220	180	19	8	24
125	250	210	19	8	26
150	285	240	23	8	26
200	340	295	23	8	26
250	495	350	23	12	28
300	445	400	23	12	28

" n " number of holes





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