



FK-AH SERIES

ISO 2858 Norm Centrifugal Pump

















































GENERAL INFORMATION

Discharge Flange	DN 32 - DN 250
Capacity	Up to 1900 m³/h
Head	UP to 100 m
Frequency	Three Phase 50 Hz - 60 Hz*
Maximum Operating Pressure	Up to 16 bar

Transferable Liquids

• Clean or slightly contaminated low-viscosity liquids without solid & fibrous particles.



Shaft Sealing

- Depending on request or requirement, pumps with soft packing or single, double and catridge type mechanical seals can be supplied.
- External seal cooling system may be used if required.



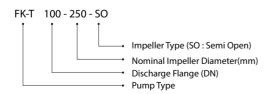
Applications

Food and Beverage Industry	Power Plants
Iron and Steel Industry	Oil Industry
Mining	Chemical Industry
Paper Industry	

Design Features

- Horizontal, radially split volute casing type, single stage, end suction centifugal pumps with closed or semi-open impeller.
- Heavy duty shaft not in touch with the medium handled (drt shaft) -Body sealing is ensured by flat gaskets that aren't displaced under pressure.
- Due to the back-pull-out design, the complete bearing assembly including impeller and casing cover
 can be dismantled without removing the volute casing from the piping system. (With spacer coupling
 application, also possible to take out the rotor group without dismantling the electric motor).
- All impellers are statically and dynamically balanced according to ISO 1940 class 6.3.
- FK-AH comes in 29 basic models covering wide range of operational area.
- Direction of rotation is clockwise viewed from the driver end.
- For closed impeller, axial thrust is balanced by impeller balancing holes system while for semi-open impellers, it's balanced by back ribs.
- Bearings of FK-AH type pumps are always oil lubricated.
- Basic models designed with varaity of motors (50Hz 60Hz) 1500 3000 RPM.

Pump Code







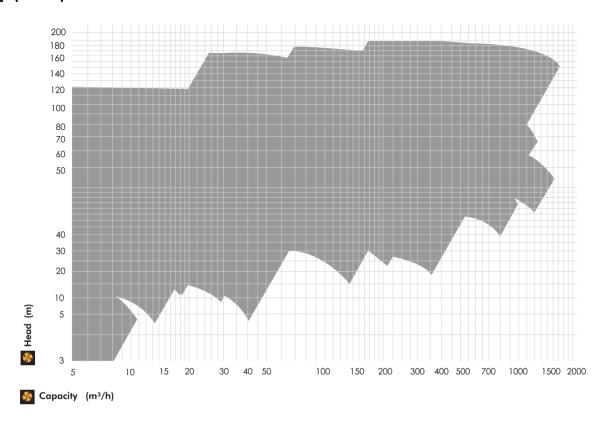




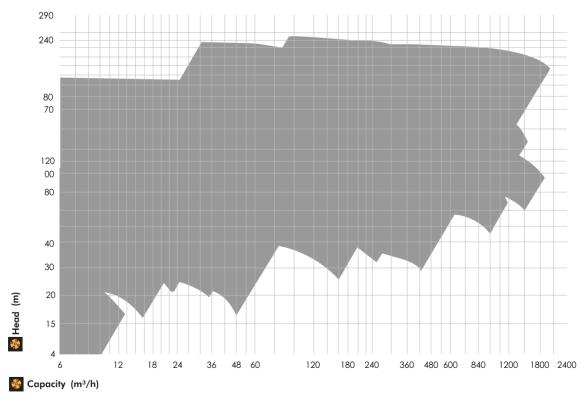
Cast Iron	0.6025	EN-GJL-250 (GG25)	A48 CLASS 40B			
Ductile Iron Casting	0.7040	EN-GJS-400-15 (GGG 40)	A536 60-40-18			
Ductile Iron Casting	0.7043	EN-GJS-400-18-LT (GGG40.3)	A536 60-40-18			
Steel Casting	1.0619	GP240GHGS-C25	A216 WCB			
Chrome Nickel Steel Casting	1.4308	GX5CrNi19-10	A351 CF8			
Chrome Nickel Steel Casting (Low Carbon)	1.4309	GX2CrNi19-11	A351 CF3			
Chrome Nickel Molybdenum Steel Casting	1.4408	GX5CrNiMo19-11-2	A351 CF8M			
Chrome Nickel Molybdenum Steel Casting (L.C)	1.4409	GX2CrNiMo 19-11-2	A351 CF3M			
Austenitic Steel Casting	1.4500	GX7NiCrMoCuNb 25-20	A351 CN7M			
Austenitic Ferritic Steel Casting (Dublex)	1.4517	GX2CrNiMoCuN 25-6-3-3	A890 CD4MCuN			
Austenitic Ferritic Steel Casting (S.Dublex)	1.4469	GX2CrNiMoN 26-7-4	A890 CE3MN			
Martensitic Stainless Steel Casting	1.4317	GX4CrNi 13-4	A352 CA6NM			
Martensitic Stainless Steel Casting	1.4008	GX7CrNiMo 12-1	A217 CA15			
Bronze Casting (Tinned)	2.1050.01	G-CuSn10	B427 C90700			
Bronze Casting (Nickel Alloy)	2.0975.01	G-CuAl10Ni	B148 C95500			
Bronze Casting (Leaded)	2.1096.01	G-CuSn5ZnPb	B584 C83600			
Chromium Steel	1.4021	X20Cr13	A276 Type 420			
Chromium Steel (Heat Treatment)	1.4021	X20Cr13	A276 Type 420+QT			
Chrome Nickel Steel	1.4301	X5CrNi 18-10	A276 Type 304			
Chrome Nickel Molybdenum Steel (L.Carbon)	1.4404	X2CrNiMo 17-12-2	A276 Type 316L			
Dublex (Austenitic Ferritic) Steel	1.4460	X3CrNiMoN 27-5-2	AISI 329			
Dublex (Austenitic Ferritic) Steel	1.4462	X2CrNiMoN 22-5-3	UNS S32205			
Ductile Iron Casting	0.7050	EN-GJS-500-7-LT (GGG 50)	A536 70-50-05			

SELECTION CHARTS

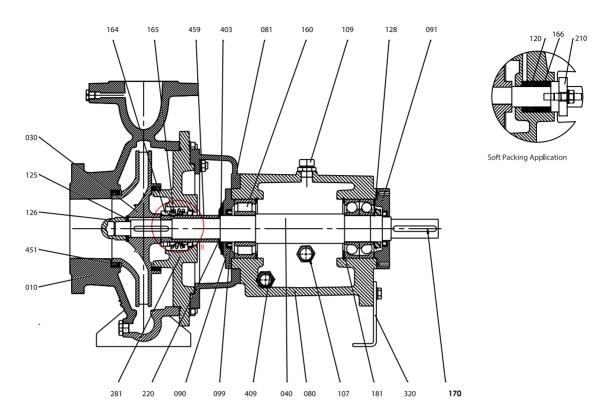
(50 Hz)



(60 Hz)



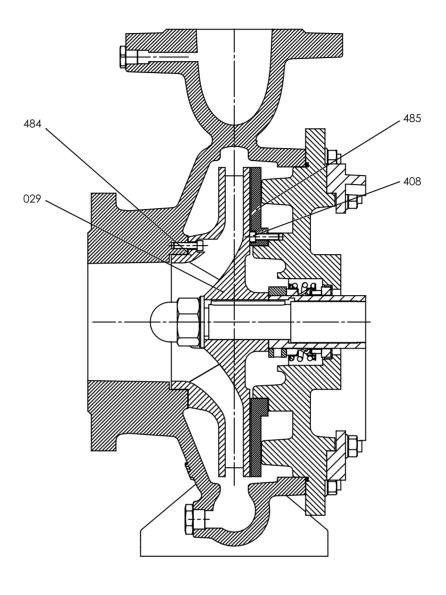
O For detailed curves, use our selection program.



Part List

Volute Casing	010
Impe ll er	030
Shaft	040
Bearing Housing	080
Interconnection Part	081
Bearing Cover (Inside)	090
Bearing Cover (Outside)	091
Oil Seal	099
Oil Level Indiractor	107
Air Bleed Plug	109
Flushing Ring	120
Distance Ring	125
Closed End Nut	126
Safety Sheet	128
Bearing	160
Mechanical Seal Setting Sleeve	164
Mechanical Seal	165
Soft Packing	166
Key	170
Piston Ring	181
Connection Support	210
O-Ring	220
Seal Box	281
Supporting Feet	320
Throw Protection	403
Drain Plug	409
Wear Ring	451
Shaft Sleeve	459



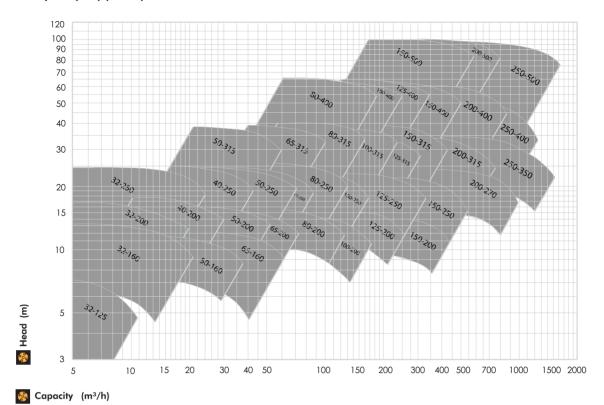


Part List

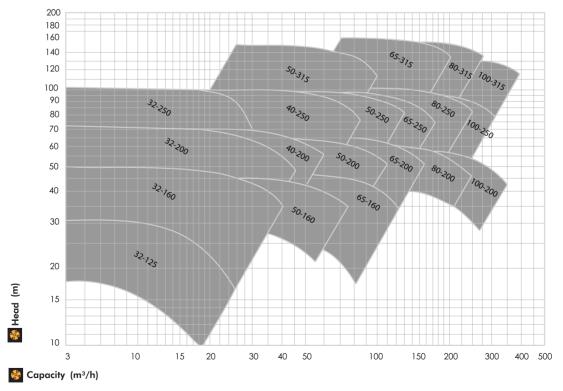
Impeller	029
Bolt	408
Front Wear Plate	484
Rear Wear Plate	485

SELECTION CHARTS

1450 rpm / (d/d) (50 Hz)



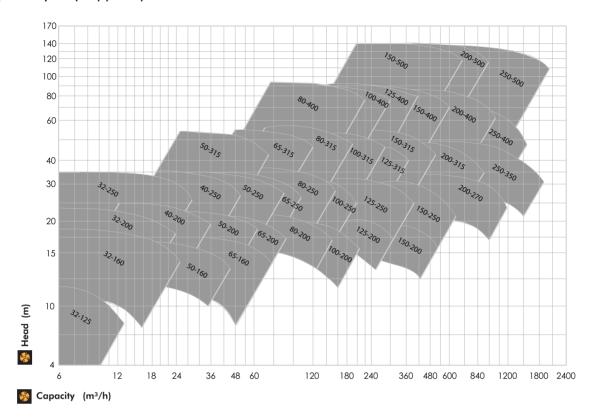
2900 rpm / (d/d) (50 Hz)



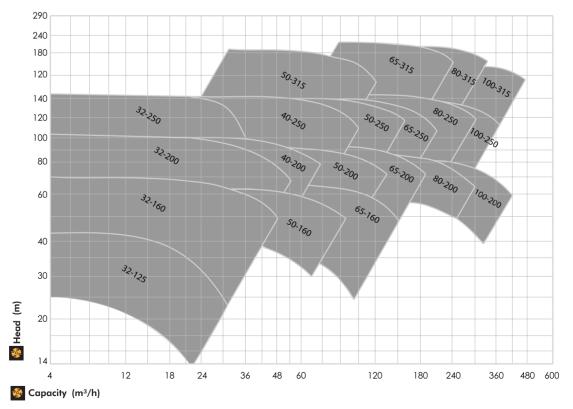
O For detailed curves, use our selection program.

SELECTION CHARTS

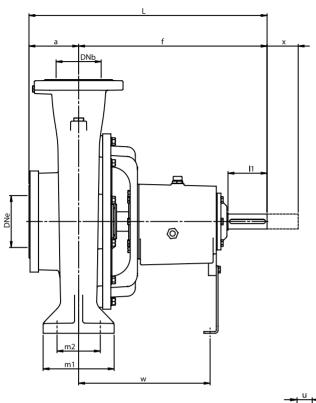
1750 rpm / (d/d) (60 Hz)

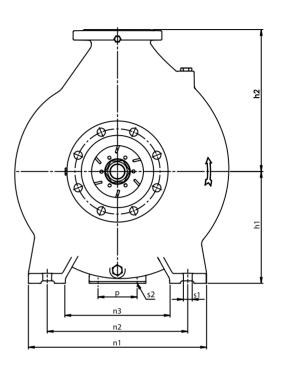


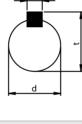
3500 rpm / (d/d) (60 Hz)



O For detailed curves, use our selection program.







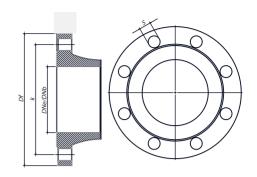
												Din	nensic	ns (m	m)							
/ Pump T	ype		Outside Dimensions						Supporting Foot Dimensions										naft Dir	mensic	ns	Spacing
ISO 2858	Other	DNe	DNb	а	f	L	h1	h2	ml	m2	n1	n2	n3	sl	р	s2	w	d	l1	t	U	x /
32-125		50	32	80	385	465	112	140	100	70	190	140	90	14	110	14	285	24	50	27	8	100
32-160		50	32	80	385	465	132	160	100	70	240	190	140	14	110	14	285	24	50	27	8	100
32-200		50	32	80	385	465	160	180	100	70	240	190	140	14	110	14	295	24	50	27	8	100
32-250		50	32	100	500	600	180	225	125	95	320	250	190	14	110	14	370	32	80	35	10	100
40-200		65	40	100	385	485	160	180	100	70	265	212	165	14	110	14	285	24	50	27	8	100
40-250		65	40	100	500	600	180	225	125	95	320	250	190	14	110	14	370	32	80	35	10	100
50-160		80	50	100	385	485	160	180	100	70	265	212	165	14	110	14	285	24	50	27	8	100
50-200		80	50	100	385	485	160	200	100	70	265	212	165	14	110	14	285	24	50	27	8	100
50-250		80	50	125	500	625	180	225	125	95	320	250	190	14	110	14	370	32	80	35	10	100
50-315		80	50	125	500	625	225	280	125	95	345	280	215	14	110	14	370	32	80	35	10	100
65-160		100	65	100	500	600	160	200	125	95	280	212	150	14	110	14	370	32	80	35	10	140
65-200		100	65	100	500	600	180	225	125	95	320	250	190	14	110	14	370	32	80	35	10	140
65-250		100	65	125	500	625	200	250	160	120	360	280	200	19	110	14	370	32	80	35	10	140
65-315		100	65	125	530	625	225	280	160	120	400	315	240	19	110	14	370	42	110	45	12	140

											D	imensi	ions (r	mm)								
Pump	Туре	Outside Dimensions					Supporting Foot Dimensions								Shaft Dimensions				Spacing			
ISO 2858	Other	DNe	DNb	а	f	L	h1	h2	ml	m2	nl	n2	n3	sl	р	s2	w	d	l1	t	U	×
80-200		125	80	125	500	625	180	250	125	95	345	280	215	14	110	14	370	32	80	35	10	140
80-250		125	80	125	500	625	225	280	160	120	400	315	240	19	110	14	370	32	80	35	10	140
80-315		125	80	125	530	655	250	315	160	120	400	315	240	19	110	14	370	42	110	45	15	140
80-400		125	80	125	530	655	280	355	160	120	435	355	275	19	110	14	370	42	110	45	15	140
100-200		125	100	125	500	625	200	280	160	120	360	280	200	19	110	14	370	32	80	35	10	140
100-250		125	100	140	530	670	225	280	160	120	400	315	240	19	110	14	370	42	110	45	12	140
100-315		125	100	140	530	670	250	315	160	120	400	315	240	19	110	14	370	42	110	45	12	140
100-400		125	100	140	530	670	280	355	200	150	500	400	300	23	110	14	370	42	110	45	12	140
	125-200	150	125	140	500	640	250	315	160	120	400	315	240	19	110	14	370	32	80	35	10	140
125-250		150	125	140	530	670	250	355	160	120	400	315	240	19	110	14	370	42	110	45	12	140
125-315		150	125	140	530	670	280	355	200	150	500	400	300	23	110	14	370	42	110	45	12	140
125-400		150	125	140	530	670	315	400	200	150	500	400	300	23	110	14	370	42	110	45	12	140
	150-200	200	150	160	545	705	280	355	200	150	550	450	350	23	140	14	381	2	110	45	10	180
150-250		200	150	160	530	690	280	375	200	150	500	400	300	23	140	14	366	42	110	45	12	180
150-315		200	150	160	670	830	315	400	200	150	550	450	350	23	140	19	500	48	110	51,5	14	180
150-400		200	150	160	670	830	315	450	200	150	550	450	350	23	140	19	500	48	110	51,5	14	180
	150-500	200	150	200	730	930	400	525	250	200	720	600	435	27	140	19	495	55	110	59	16	140
	200-270	250	200	200	630	830	355	450	250	200	600	500	360	23	140	20	410	42	110	51,6	14	200
	200-315	250	200	200	684	884	355	450	250	200	600	500	360	23	140	20	520	48	110	45	14	180
	200-200	250	200	180	725	905	400	500	250	200	600	500	360	23	140	20	490	55	110	59	16	180
	200-400	250	200	180	725	905	400	500	250	200	600	500	360	27	140	20	500	55	110	59	16	200
	200-500	250	200	210	925	1135	400	525	300	240	720	600	435	27	140	20	640	70	140	74,5	20	180
	250-350	300	250	230	740	970	400	525	300	240	720	600	435	27	140	20	515	55	110	59	16	200
	250-400	300	250	230	750	980	400	525	300	240	720	600	435	27	140	20	515	55	110	59	16	200
	250-500	300	250	225	940	1165	450	630	300	240	720	600	435	27	140	20	670	70	140	74,5	20	200

⁽x): Without removing the electric motor and the pump's volute the pump shows the minimum spacing required between the motor and the pump shaft to remove the bearing and rotor assembly. (intermediate bushing coupling application)

FLANGE DIMENSIONS

DNe / DNb	Suction & Discharge (PN 16)										
DINE / DINB	Df	k	S	n							
32	140	100	19	4							
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							



→ TS EN 1092-2

SEAL SOLUTIONS

Packing Type	Packing Specifications								
racking type	Temperature	Pressure							
MG1	t = -20 °C +85 °C t = +85 °C +100 °C (*)	p1 = 16 bar (230 PSI) p1 = 16 bar (230 PSI) (*)							
H12N	t = +100 °C +140 °C	p1 = 25 bar (363 PSI)							
M7N	t = -20 °C +220 °C	p1 = 25 bar (363 PSI)							
C-4 D1: / V C-1	t = -20 °C +100 °C	p1 = 10 bar (145 PSI)							
Soft Packing / Yumuşak Salmastra	t = -20 °C +140 °C (*)	p1 = 25 bar (230 PSI) (*)							
CARTEX - DN	t = -20 °C +220 °C	p1 = 25 bar (363 PSI)							

(*) Optional

*Note: Above datas mentioned according to BURGMANN Brand. Packing can be changed according to customer request.

 $\ensuremath{^*\text{Different}}$ seal application can be used according to liquid specification.