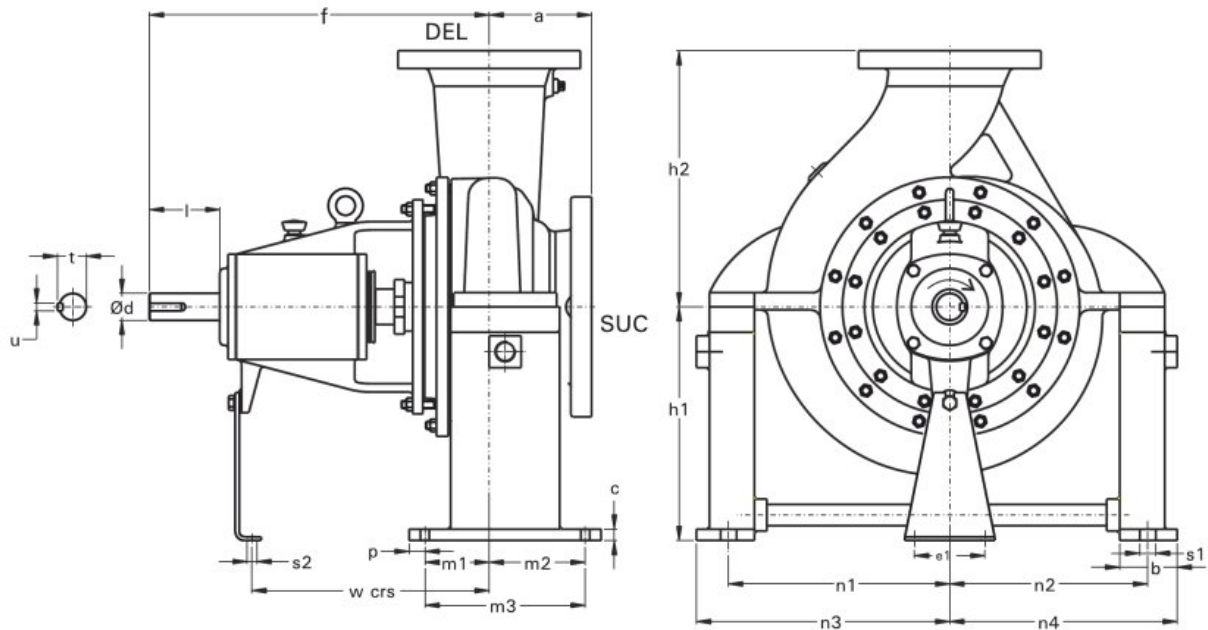


GENERAL OUTLIVE DIMENSIONS OF GK(P) CENTER LINE MOUNTED PUMPS:



PUMP SIZE	DRIVING UNIT	PUMP DIMENSIONS						FOOT DIMENSIONS																SHAFT END																
		DEL	SUC	a	f	h1	h2	b	c	m1	m2	m3	n1	n2	n3	n4	w	s1	s2	e1	p	Ød	l	t	u															
32/13	7	32	50	80	385	200	140	64	15	72	88	190	125	125	157	157	285						24	50	27	8														
32/16,32/16A							160						155	145	187	177																								
32/20,32/20A		40	65				180						170	165	202	197																								
40/13							140						135	125	167	157																								
40/16							160						170														165				202				197					
40/20,40/20A							180																																	
50/13		50	80				160																																	
50/16,50/16A							180																																	
50/20		65	100	100			200																																	
65/13							180																																	
25/26A	7A	25	50				225									14																								
32/26		32					225													220	220	252	252																	
40/26		40	65				250																																	
40/32							225																																	
50/26							280																																	
50/32	7A/10*	50	80	125			280	90				89.5	110.5	230	260	240	305	285	370	15	110	15	32	80	35	10														
65/16							200	64				72	88	190	210	175	242	207																						
65/20		65	100	100			225				89.5	110.5	230	260	230	305	275																							
65/26,65/26N							250				90	89.5	110.5	230	260	230	305	275																						
80/16		80	125				225	64	72	88	190	210	175	242	207																									
80/20							250	72	88	190	210	175	242	207																										
80/26		100					280				89.5	110.5	230	260	230	305	275	18																						
100/20							250				280	92.5	107.5	230	260	240	285	14																						
65/32	12	65	100	125		530	280	90				92.5	107.5	230	260	240	285	23				42	110	45	12															
80/32							315					315	18	100	150	300	310									295	355	340	23	25										
80/40,80/40N		80	125				365		355	15	92.5	107.5	230	260	230	305	275									18	15													
100/26							280		280	18	92.5	107.5	230	260	230	305	275									18	15													
100/32		100	125	140			315		315				310	295	355	340																								
100/40							365		355				310	295	355	340																								
125/26		125	150				315		355	18			100	150	300											23														
125/32							315		355				100	150	300																									
125/40,125/40N		150	200	160			365		400				355	315	400	360																								
150/32,150/32N							450		385				345	430	390																									
150/40									450				385	345	430	390																								

* REFER ENGINEERING

Note: These are tentative dimensions. Certified dimensions will be submitted against order.

MATERIALS

MATERIAL OF CONSTRUCTION

Component Description	Standard MOC	Option 1	Option 2	Option 3	Option 4	Option 5
Pump Casing	Cast Iron - IS 210-FG 260	Duplex ASTM A240M -UNS S31803	ASTM-A890/890M-CE3MN-5A Super Duplex (UNS 32760)	Alloy 20 ASTM B473 UNS8020-ALLOY20	ASTM A494 - Hastelloy B	ASTM A494 - Hastelloy C
Casing Cover	Cast Iron - IS 210-FG 260					
Pump Shaft	Stainless Steel ASTM A276 Type 316 and 316L	Duplex ASTM A240M -UNS S31803	ASTM-A276 UNS 32760 (UNS 32760)	Alloy 20 ASTM B473 UNS8020-	MONEL BS3076-NA18 (K-Monel 500)	
Bearing Housing	Cast Iron - IS 210-FG 260					

MATERIAL STANDARDS - GENERAL INFORMATION

Material Type	Indian Standard (IS)	American standard (ASTM)	DIN
Cast Iron			
Cast Iron	IS 210 Gr. FG 260	ASTM A48 Class 40	(0.6025)DIN 1691 GG25
Spheroidal Graphite Cast Iron			
SG Iron (Ductile Iron)	IS 1865 Gr 400/15	A536, 60-40-18	(0.7040)DIN1693 GGG40
SG Iron (Ductile Iron)	IS 1865 Gr 500/7	A536, 65-45-12	(0.7050)DIN1693 GGG50
Carbon steel			
Carbon steel (Wrought)	IS 1570 (part II) Gr. 40C8	ASTM A107 Gr. 1040	(1.1186)C40E/CK40
Carbon steel (Wrought)	IS 1570 (part II) Gr. 20C8	ASTM A107 Gr. 1020	(1.0402)C22
MS Steel	MS IS 2062 - Fe 410 W A	ASTM-A283 GR.D	DIN 1700 GR ST4-2 FABRICATED STEEL44
Cast Steel Grades			
Cast steel		ASTMA 216 Gr. WCB	1.0619(GS-C25)
Cast Stainless Steel			
Stainless Steel CF8M	IS 3444 Gr. 4	ASTMA 351 Gr. CF8M	1.4408(GX5CrNiMo19-11-2)
Stainless Steel CF8M	IS 3444 Gr. 4	ASTMA 743 Gr. CF8M	1.4408(GX5CrNiMo19-11-2)
Stainless Steel CF3M	IS 3444 Gr. 16	ASTMA 351 Gr. CF3M	1.4409(GX2CrNiMo19-11-2)
Stainless Steel CF3M	IS 3444 Gr. 16	ASTMA 743 Gr. CF3M	1.4409(GX2CrNiMo19-11-2)
Stainless Steel CF8	IS 3444 Gr. 1	ASTMA 351 Gr. CF8	1.4301(X5CrNi18-10)
Stainless Steel CF3	IS 3444 Gr. 15	ASTMA 351 Gr. CF3	1.4306(X2CrNi19 11)
Cast Chromium StainlessSteel			
Stainless Steel CA15	IS 3444 Gr. 10	ASTMA 217 Gr. CA15	1.4106&1.448(DIN17445 GX12Cr14)
Stainless Steel CA15	IS 3444 Gr. 10	ASTMA 743 Gr. CA15	1.4106&1.448(DIN17445 GX12Cr14)
Stainless Steel CA6NM	IS 3444 Gr. 24	ASTMA 487 Gr. CA6NM	1.4313&1.4317(GX5CrNiMo13-4)
Stainless Steel CA6NM	IS 3444 Gr. 24	ASTMA 743 Gr. CA6NM	1.4313&1.4317(GX5CrNiMo13-4)
Chromium StainlessSteel Round Bar Material			
Stainless steel 410	IS 1570 (part V) Gr. X12Cr12	ASTMA 276 type 410	1.4006(X10Cr13)
Stainless steel 420	IS 1570 (part V) Gr. X20Cr13	ASTMA 276 type 420	1.4021(X20Cr13)
Stainless steel 431	IS 1570 (part V) Gr. X15Cr16Ni2	ASTMA 276 type 431	1.4057(X20CrNi17)
Stainless steel 316	IS 1570 (part V) Gr. X04Cr17Ni12Mo2	ASTMA 276 type 316	1.4401(X5CrNiMo17122)
Stainless steel 316L	IS 1570 (part V) Gr. X02Cr17Ni12Mo2	ASTMA 276 type316L	1.4404(X2CrNiMo1810)
Cast Duplex Steel			
Duplex Steel 1A		ASTMA 890 Gr. CD4MCu	25Cr-5Ni-Mo-Cu
Duplex Steel 2A		ASTMA 890 Gr. CE8MN	24Cr-10Ni-Mo-N
Duplex Steel 3A		ASTMA 890 Gr. CD6MN	25Cr-5Ni-Mo-N
Super Duplex steel 4A		ASTMA 890 Gr. CD3MN	25Cr-7Ni-Mo-N
Super Duplex steel 5A		ASTMA 890 Gr. CE3MN	24Cr-10Ni-Mo-N
Non Ferious Materials			
Bronze	IS 318 Gr. LTB2 (CuSn5Zn5Pb5C)	ASTMB 584 - C90500	DIN 1705 Rg 5
Phosphor Bronze	IS 28 Gr. 1 (CuSn11PC)		
70% Free Bronze	IS 28 Gr. 1 (CuSn10C)		

