



End Suction 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 dirty, non-abrasive, low-viscosity fluids.

Shaft Sealing

- Soft packing is used in standard production.
- It is possible to use mechanical seal according to customer request or type of liquid.



Applications

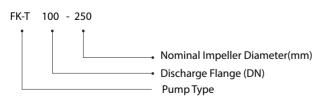
Water treatment and Pressurization	Power Plants					
Heating, Ventilating and Air Conditioning	Oil Industry					
Agricultural Irrigation and Drainage	Chemical Industry					
Food and Beverage Industry	Mining					
Iron and Steel Industry	Marine					
Building System	Fire Fighting					

Design Features

- FK-T series pumps have designed for pumping non-abrasive and small particulars liquids.
- FK-T series have a closed impeller, impeller blades located between the balancing holes to minimize the axial load is taken in dynamic load balancing.
- Sealing is provided by gland packing. Sealing is provided by also mechanical seal as customer request.
- Easy disassembly to pump and change impeller, bearings, and seals.
- All impellers are statically and dynamically balanced according to ISO 1940 class 6.3.
- FK-T comes in 29 basic models covering wide range of operational area.
- Direction of rotation is clockwise viewed from the driver end.
- Optionally, pumps can be manufactured with shaft bushing and/or wear rings.
- Basic models designed with varaity of motors (50Hz 60Hz) 1500 3000 RPM.



Pump Code











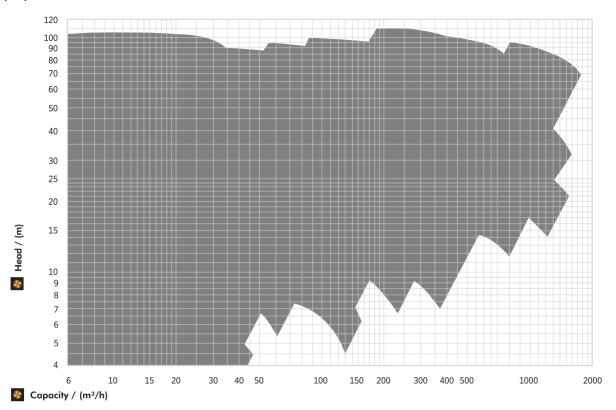
AISI/SAE/ASTM

Cast Iron	0.6025	EN-GJL-250 (GG 25)	A 48 Class 40-B		
Ductile Iron Casting	0.7040	EN-GJS-400-18-LT (GGG 40)	A 536 60-40-18		
		, ,			
Ductile Iron Casting	0.7043	EN-GJS-400-18-LT (GGG 40.3)	A 536 60-40-18		
Steel Casting	1.0619	GP 240 GHGS-C25	A216 WCB		
Chrome Nickel Steel Casting	1.4308	G-X5 Cr Ni 19-10	A 351 CF8		
Chrome Nickel Steel Casting (Low Carbon)	1.4309	G-X2 Cr Ni 19-11	A 351 CF3		
Chrome Nickel Molybdenum Steel Casting	1.4408	G-X5 Cr Ni Mo 19-11-2	A 351 CF8M		
Chrome Nickel Molybdenum Steel Casting (L.C.)	1.4409	G-X2 Cr Ni Mo 19-11-2	A 351 CF3M		
Austenitic Steel Casting	1.4500	G-X7 Cr Ni Mo Cu N 25-6-3-3	A 351 CN7M		
Austenitic - Ferritic Steel Casting (Dublex)	1.4517	G-X2 Cr Ni Mo Cu N 25-6-3-3	A 890 CD4MCuN		
Austenitic - Ferritic Steel Casting (S.D.)	1.4469	G-X2 Cr Ni Mo N 26-7-4	A 890 CE3MN		
Martensitic Stainless Steel Casting	1.4317	G-X4 Cr Ni 13-4	A 352 CA6NM		
Martensitic Stainless Steel Casting	1.4008	G-X7 Cr Ni Mo 12-1	A 217 CA15		
Bronze Casting (Tinned)	2.1050.01	G-Cu Sn 10	B 427 C90700		
Bronze Casting (Nickel Alloy)	2.0975.01	G-Cu Al 10 Ni	B 148 C95500		
Bronze Casting (Leaded)	2.1096.01	G-Cu Sn 5 Zn Pb	B 584 C83600		
Carbon Steel	1.0503	C 45	AISI 1045		
Chromium Steel	1.4021	X20 Cr13	A 276 Type 420		
Chrome Steel (Heat Treatment)	1.4021	X20 Cr13	A 276 Type 420+QT		
Chrome Nickel Steel	1.4301	X5 Cr Ni 18-10	A 276 Type 304		
Chrome Nickel Molydbenum Steel (L.C.)	1.4404	X2 Cr Ni Mo 17-12-2	A 276 Type 316L		
Duplex (Austenitic-Ferritic) Steel	1.4460	X3 Cr Ni Mo N 27-5-2	AISI 329		
Duplex (Austenitic-Ferritic) Steel	1.4462	X2 Cr Ni Mo N 22-5-3	UNS S32205		
Ductile Iron Casting	0.7050	EN-GJS-500- 7 -LT (GGG 50)	A 536 70-50-05		
		-			

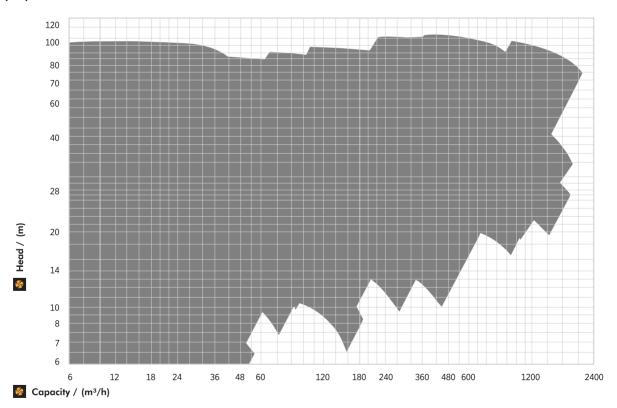


SELECTION CHARTS

(50) Hz



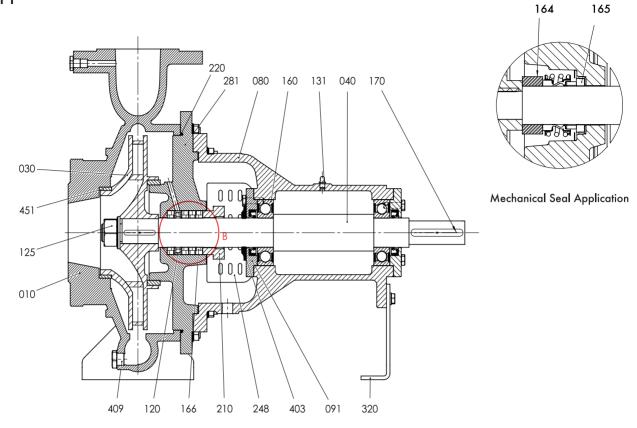
🚳 (60) Hz





SECTIONAL VIEW





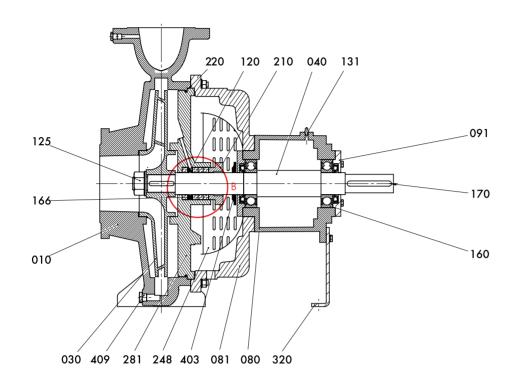
Part List

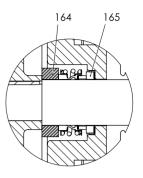
Volute Casing	010
Impeller	030
Shaft	040
Bearing Housing	080
Bearing Cover	091
Flushing Ring	120
Nut	125
Grease Nipple	131
Bearing	160
Mechanical Seal Setting Sleeve	164
Mechanical Seal	165
Soft Packing	166
Кеу	170
Connection Support	210
O-Ring	220
Protection Sheet	248
Seal Box	281
Supporting Feet	320
Throw Protection	403
Drain Plug	409
Wear Ring	451



SECTIONAL VIEW

Form 2





Mechanical Seal Application

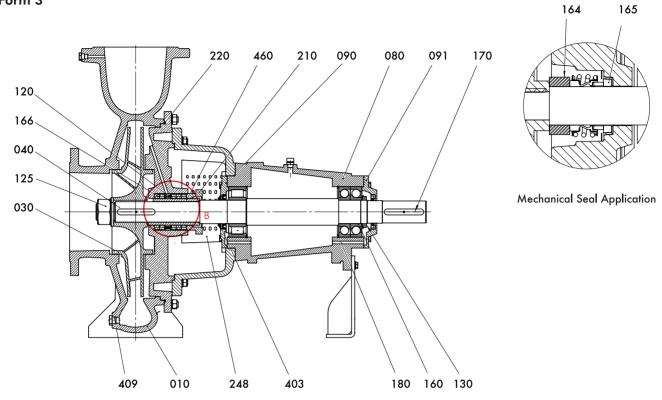
Application

Volute Casing	010
Impeller	030
Shaft	040
Bearing Housing	080
Interconnection Cage	081
Bearing Cover	091
Flushing Ring	120
Nut	125
Grease Nipple	131
Bearing	160
Mechanical Seal Setting Sleeve	164
Mechanical Seal	165
Soft Packing	166
Key	170
Connection Support	210
O-Ring	220
Protection Sheet	248
Seal Box	281
Supporting Feet	320
Throw Protection	403
Drain Plug	409



SECTIONAL VIEW





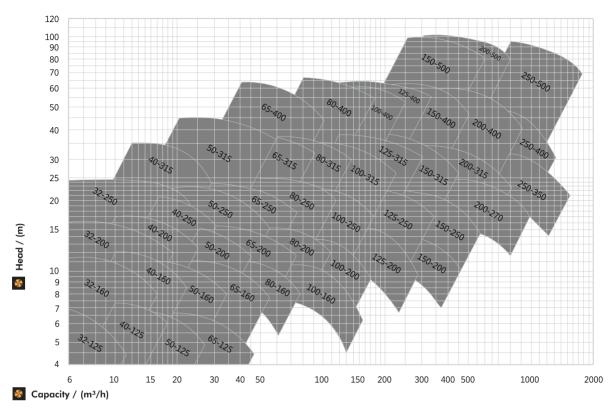
Part List

Volute Casing	010
Impeller	030
Shaft	040
Bearing Housing	080
Bearing Cover (Inside)	090
Bearing Cover (Coupling)	091
Flushing Ring	120
Nut	125
Bearing Setting Sleeve	130
Bearing	160
Mechanical Seal Setting Sleeve	164
Mechanical Seal	165
Soft Packing	166
Key	170
Ring	180
Connection Support	210
O-Ring	220
Protection Sheet	248
Throw Protection	403
Drain Plug	409
Shaft Sleeve	460

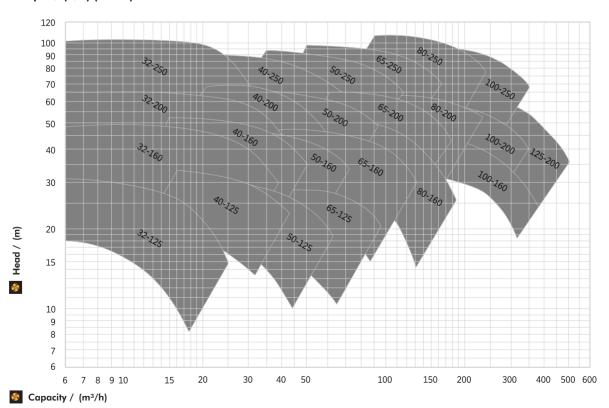


SELECTION CHARTS

3 1450 rpm / (d/d) (50 Hz)



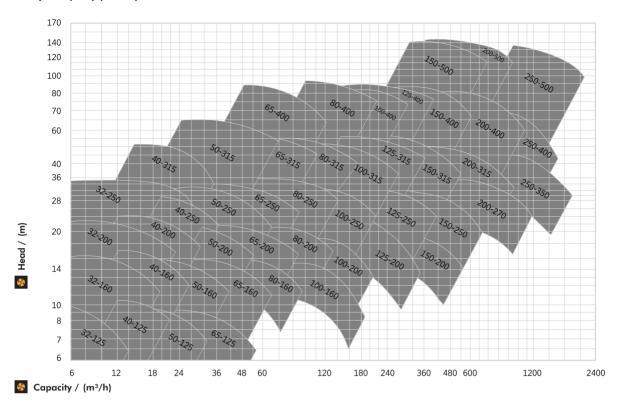
2900 rpm / (d/d) (50 Hz)



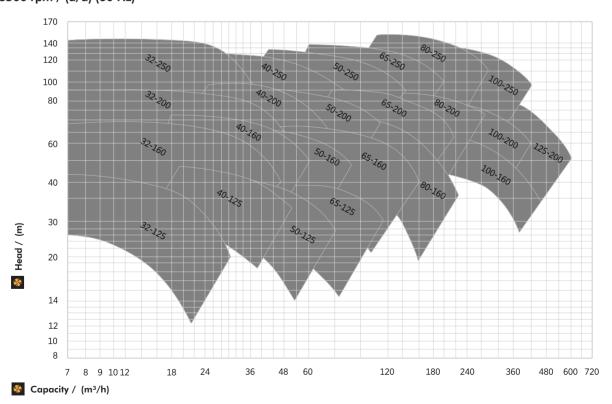


SELECTION CHARTS

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



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

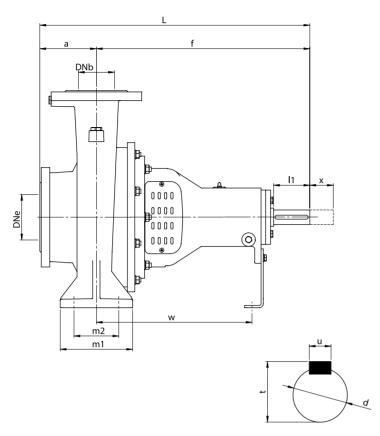


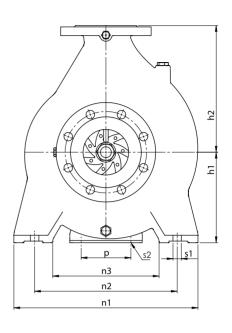


		Mechan	Soft Packing						
				Bea	ring				
Pump Type	Shaft	Mechanical Seal	Bearing Box	Coupling Side	Impeller Side	-Soft Packing Support	Soft Packing Lenght	Casing Suppo	
32-125	1 No.	MG1 30 mm	1 No.	2x6	306	1 No.	8-380 mm	1 No.	
32-160	1 No.	MG1 30 mm	2 No.	2x6	306	1 No.	8-380 mm	2 No.	
32-200	1 No.	MG1 30 mm	1 No.	2x6	306	1 No.	8-380 mm	3 No.	
32-250	2 No.	MG1 30 mm	2 No.	2x6	306	1 No.	8-380 mm	4 No.	
40-125	1 No.	MG1 30 mm	1 No.	2x6	306	1 No.	8-3380 mm	1 No.	
40-160	1 No.	MG1 30 mm	2 No.	2x6	306	1 No.	8-380 mm	2 No.	
40-200	1 No.	MG1 30 mm	1 No.	2x6	306	1 No.	8-380 mm	3 No.	
40-250	2 No.	MG1 30 mm	2 No.	2x6	306	1 No.	8-380 mm	4 No.	
40-315	3 No.	MG1 40 mm	3 No.	2x6	308	2 No.	10-500 mm	7 No.	
50-125	1 A No.	MG1 30 mm	1 No.	2x6	306	1 No.	8-380 mm	2 No.	
50-160	1 A No.	MG1 30 mm	2 No.	2x6	306	1 No.	8-380 mm	3 No.	
50-200	1 A No.	MG1 30 mm	1 No.	2x6	306	1 No.	8-380 mm	3 No.	
50-250	4 No.	MG1 30 mm	2 No.	2x6	306	1 No.	8-380 mm	4 No.	
50-315	5 No.	MG1 40 mm	3 No.	2x6	308	2 No.	10-500 mm	8 No.	
65-125	1 B No.	MG1 30 mm	1 No.	2x6	306	1 No.	8-380 mm	3 No.	
65-160	1 B No.	MG1 30 mm	2 No.	2x6	306	1 No.	8-380 mm	3 No.	
65-200	1 A No.	MG1 30 mm	1 No.	2x6	306	1 No.	8-380 mm	4 No.	
65-250	5 No.	MG1 40 mm	3 No.		308	2 No.	10-500 mm	7 No.	
65-315	5 No.	MG1 40 mm	3 No.		308	2 No.	10-500 mm	8 No.	
65-400	5 No.	MG1 40 mm	3 No.		308	2 No.	10-500 mm	10 No.	
80-160	1 A No.	MG1 30 mm	2 No.		306	1 No.	8-380 mm	4 No.	
80-200	5 No.	MG1 40 mm	3 No.	2x6		2 No.	10-500 mm	6 No.	
80-250	5 A No.	MG1 40 mm	3 No.		308	2 No.	10-500 mm	7 No.	
80-315	5 No.	MG1 40 mm	3 No.	2x6		2 No.	10-500 mm	9A No.	
80-400	6 No.	MG1 50 mm	4 No.		310	3 No.	12-630 mm	9B No.	
100-160	1 No.	MG1 30 mm	2 No.		306	1 No.	8-380 mm	5 No	
100-200	5 No.	MG1 40 mm	3 No.		308	2 No.	10-500 mm	7 No.	
100-250	5 A No.	MG1 40 mm	3 No.		308	2 No.	10-500 mm	8 No.	
100-230	5 A No.	MG1 40 mm	3 No.		308	2 No.	10-500 mm	9A No.	
100-400	6 No.	MG1 50 mm	4 No.		310	3 No.	12-630 mm	9B No.	
125-200	5 A No.	MG1 30 mm	3 No.		308	2 No.	10-500 mm	9A No.	
125-250	5 A No.	MG1 40 mm	3 No.		308	2 No.	10-500 mm	9A No	
125-230	6 A No.	MG1 40 mm	5 No.		310	3 No.	12-630 mm	9B No.	
		MG1 50 mm	4 No.				12-630 mm		
125-400	6 No.				310	3 No.		12 No.	
150-200	5 A No.	MG1 40 mm	3 No.		308	2 No.	10-500 mm	11 No.	
150-250	5 A No.	MG1 40 mm	3 No.		308	2 No.	10-500 mm	11 No.	
150-315	6 A No.	MG1 50 mm	5 No.		310	3 No.	12-630 mm	9B No.	
150-400	6 No.	MG1 50 mm	4 No.		310	3 No.	12-630 mm	12 No.	
150-500	7 No.	MG1 60 mm	6 No.		312	4 No.	12-940 mm	14 No.	
200-270	8 No.	MG1 50 mm	5 No.		310	3 No.	12-630 mm	13 No.	
200-315	9 No.	MG1 50 mm	5 No.	2x6		3 No.	12-630 mm	13 No.	
200-400	7 No.	MG1 60 mm	6 No.		312	4 No.	12-940 mm	14 No.	
200-500	10 No.	MG1 85 mm	7 No.	7315	NU 2315	5 No.	16-1335 mm	15 No.	
250-350	10 No.	MG1 85 mm	7 No.	7315	NU 2315	5 No.	16-1335 mm	15A No.	
250-400	7 No.	MG1 60 mm	6 No.	2x6	312	4 No.	12-940 mm	14 No.	
250-500	10 No.	MG1 85 mm	7 No.	7315	NU 2315	5 No.	16-1335 mm	15A No.	



PUMP DIMENSIONS





															Dir	nensic	ns (r	nm)						
Pump	о Туре	Form	Outside Dimensions						Supporting Foot Dimensions									Sł	naft Dir	mensic	Spancing	Weight		
EN 733	Other	TOITI	DNe	DNb	а	f	L	h1	h2	ml	m2	nl	n2	n3	sl	р	s2	w	d	11	t	U	x	(kg)
32-125		F1	50	32	80	360	440	112	140	100	70	190	140	90	14	110	14	260	24	50	27	8	100	30
32-160		F1	50	32	80	360	440	132	160	100	70	240	190	140	14	110	14	260	24	50	27	8	100	35
32-200		F1	50	32	80	360	440	160	180	100	70	240	190	140	14	110	14	260	24	50	27	8	100	40
	32-250	F1	50	32	100	360	460	180	225	125	95	320	255	190	14	110	14	260	24	50	27	8	100	52
40-125		F1	65	40	80	360	440	112	140	100	70	210	160	110	14	110	14	260	24	50	27	8	100	31
40-160		F1	65	40	80	360	440	132	160	100	70	240	190	140	14	110	14	260	24	50	27	8	100	37
40-200		F1	65	40	100	360	460	160	180	100	70	265	212	165	14	110	14	260	24	50	27	8	100	44
40-250		F1	65	40	100	360	460	180	225	125	95	320	250	190	14	110	14	260	24	50	27	8	100	55
	40-315	F1	65	40	100	460	560	200	250	125	95	345	280	190	14	110	14	335	32	80	35	10	110	77
50-125		F1	65	50	100	360	460	132	160	100	70	240	190	140	14	110	14	260	24	50	27	8	100	35
50-160		F1	65	50	100	360	460	160	180	100	70	265	212	165	14	110	14	260	24	50	27	8	100	43
50-200		F1	65	50	100	360	460	160	200	100	70	265	212	165	14	110	14	260	24	50	27	8	100	45
50-250		F1	65	50	100	360	460	180	225	125	95	320	250	190	14	110	14	260	24	50	27	8	100	60
	50-315	F1	80	50	125	470	595	225	280	125	95	345	280	190	19	110	14	340	32	80	35	10	140	88
65-125		F1	80	65	100	360	460	160	180	125	95	280	212	150	14	110	14	260	24	50	27	8	100	38
65-160		F1	80	65	100	360	460	160	200	125	95	280	212	150	14	110	14	260	24	50	27	8	100	47
65-200		F1	80	65	100	360	460	180	225	125	95	320	250	190	14	110	14	260	24	50	27	8	140	62
65-250		F1	80	65	100	470	570	200	250	160	120	360	280	200	19	110	14	340	32	80	35	10	140	82
65-315		F1	80	65	125	470	595	225	280	160	120	400	315	240	19	110	14	340	32	80	35	10	140	97
	65-400	F1	100	65	125	470	595	260	355	160	120	435	355	275	19	110	14	340	32	80	35	10	140	118

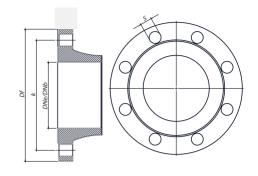


												Dir	nensi	ons (n	nm)									
Pump	Туре	_		Outside Dimensions Supporting Foot Dimensions Shaff Dim							mensio	ons	Spancing	g Weight										
EN 733	Other	Form	DNe	DNb	а	f	L	h1	h2	m1	m2	nl	n2	n3	sl	р	s2	w	d	11	t	U	х	(kg)
80-160		F1	100	80	125	360	485	180	225	125	95	320	250	190	14	110	14	260	24	50	27	8	140	51
80-200		F1	100	80	125	470	595	180	250	125	95	345	280	215	14	110	14	340	32	80	35	10	140	73
80-250		F1	100	80	125	470	595	200	280	160	120	400	315	240	19	110	14	340	32	80	35	10	140	90
80-315		F1	100	80	125	470	595	250	315	160	120	400	315	240	19	110	14	340	32	80	35	10	140	103
	80-400	F2	100	80	125	530	655	280	355	160	120	440	355	270	19	110	19	370	42	110	45	12	140	156
	80-400 EFF	F2	100	80	125	535	660	280	355	160	120	440	355	270	19	110	14	370	42	110	45	12	140	152
	100-160	Fl	125	100	125	370	495	200	280	160	120	360	280	200	19	110	14	275	24	50	27	8	140	67
100-200		F1	125	100	125	470	595	200	280	160	120	360	280	200	19	110	14	340	32	80	35	10	140	82
100-250		F1	125	100	140	470	610	225	280	160	120	400	315	240	19	110	14	340	32	80	35	10	140	90
100-315		F1	125	100	140	470	610	250	315	160	120	400	315	240	19	110	14	340	32	80	35	10	140	110
100-400		F2	125	100	140	530	670	280	355	200	150	500	400	300	23	110	14	370	42	110	45	12	140	170
100-400 EFF		F2	125	100	140	530	670	280	355	200	150	500	400	300	23	110	14	370	42	110	45	12	140	175
	125-200	F1	150	125	140	470	610	250	315	160	120	400	315	240	19	110	14	340	32	80	35	10	140	100
125-250		F1	150	125	140	470	610	250	355	160	120	400	315	240	19	110	14	340	32	80	35	10	140	112
125-315		F2	150	125	140	530	670	280	355	200	150	500	400	300	23	110	14	370	42	110	45	12	140	167
125-400		F2	150	125	140	530	670	315	400	200	150	500	400	300	23	110	14	370	42	110	45	12	140	202
125-400 EFF		F2	150	125	140	530	670	315	400	200	150	500	400	300	23	110	14	370	42	110	45	12	140	195
	150-200	F1	200	150	160	470	630	280	355	200	150	505	400	300	23	110	14	340	32	80	35	10	190	135
	150-250	F1	200	150	160	470	630	280	380	200	150	510	400	300	23	110	14	340	32	80	35	10	170	148
150-315		F2	200	150	160	530	690	280	400	200	150	550	450	350	23	110	14	370	42	110	45	12	140	182
150-400		F2	200	150	160	530	690	315	450	200	150	550	450	350	23	110	14	370	42	110	45	12	140	210
150-400 EFF		F2	200	150	160	530	690	315	450	200	150	550	450	350	23	110	14	370	42	110	45	12	140	207
	150-500	F2	200	150	200	730	930	400	525	250	200	720	600	435	27	140	20	530	55	110	58	16	170	400
	200-270	F2	250	200	195	565	760	355	450	250	210	600	500	350	25	140	20	365	42	110	45	12	230	230
	200-315	F2	250	200	200	550	750	355	450	250	200	600	500	360	23	110	14	360	42	110	45	12	190	240
	200-400	F2	250	200	180	725	910	400	500	250	200	600	500	360	27	140	20	510	55	110	58	16	205	360
	200-500	F3	250	200	210	925	1135	400	525	300	240	725	600	430	27	140	20	645	70	140	73	20	255	560
	250-350	F3	300	250	255	960	1215	450	550	300	260	650	515	375	27	160	20	675	70	140	73	20	275	470
	250-400	F2	300	250	230	750	980	400	525	300	265	720	600	430	27	140	20	535	55	110	58	16	205	420
	250-500	F3	300	250	225	940	1165	450	630	300	240	725	600	400	27	160	20	655	70	140	73	20	255	670



FLANGE DIMENSIONS

Pump Type		Suction & Discharge (PN 16)										
тотпр турс	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 ○ "n" Number of Holes

SEAL SOLUTIONS

Proding Tops	Packing Specifications	
Packing 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)
Soft Packing / Yumuşak Salmastra	t = -20 °C +100 °C	p1 = 10 bar (145 PSI)
Soii racking / Turnuşak Salmastra	t = -20 °C +140 °C (*)	p1 = 25 bar (230 PSI) (*)
CARTEX - DN	t = -20 °C +220 °C	p1 = 25 bar (363 PSI)

(*) Optionel

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

*Different seal application can be used according to liquid specification.

