



FCK Series

Centrifugal Pump

FCK Single-stage Single-suction Open Type Centrifugal Pump



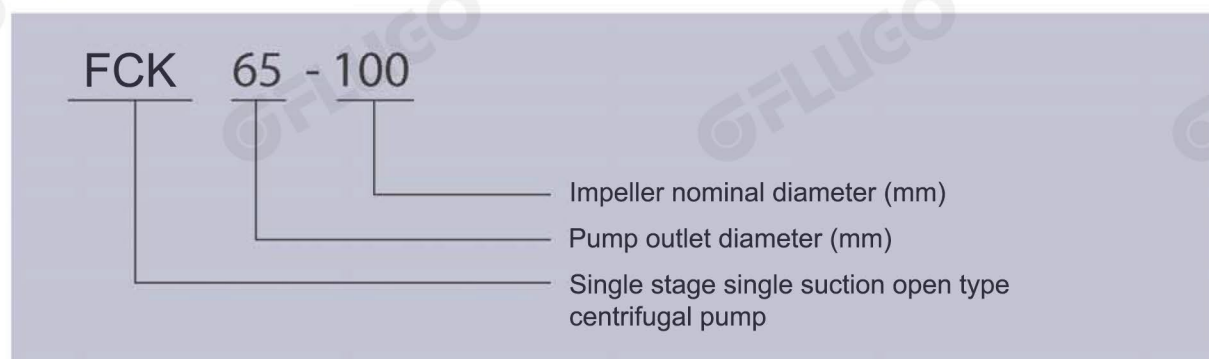
General

FCK type single stage suction open type centrifugal pump has semi-open structure of the impeller, which can transport liquid containing particles or other impurities.

FCK type pump with 1450 r/min and 2900 r/min two kinds of speed, in addition to the transport of water and physical chemistry Nature similar to the water of the liquid other impurities of the liquid.

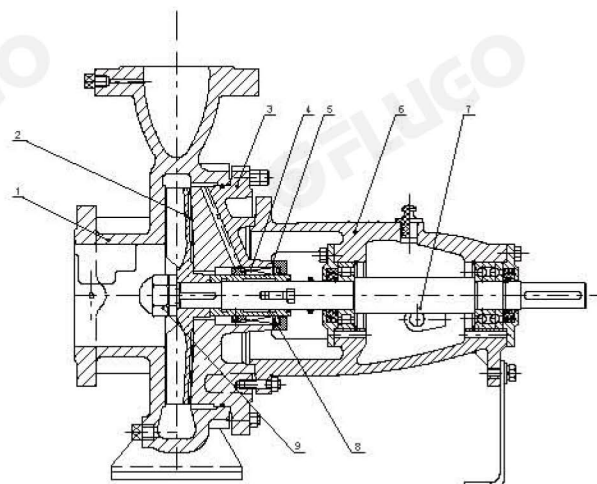
Applicable to industrial, urban water supply and drainage, irrigation, food, paper and other departments.

Type Description

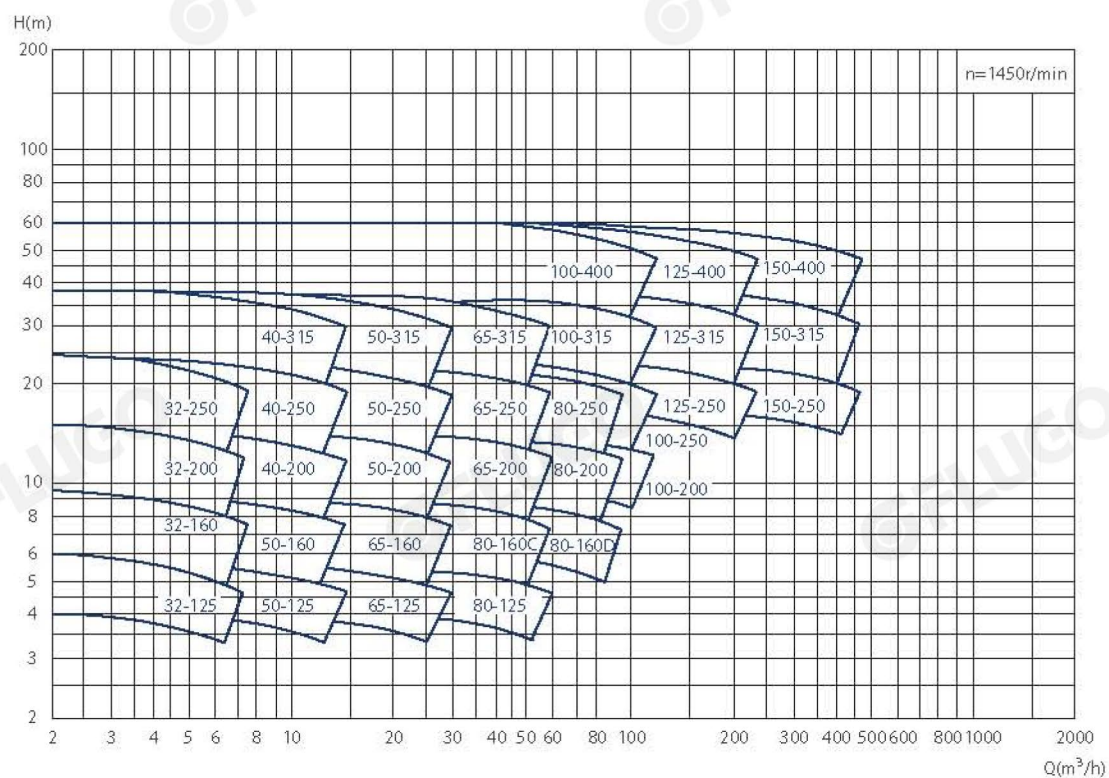
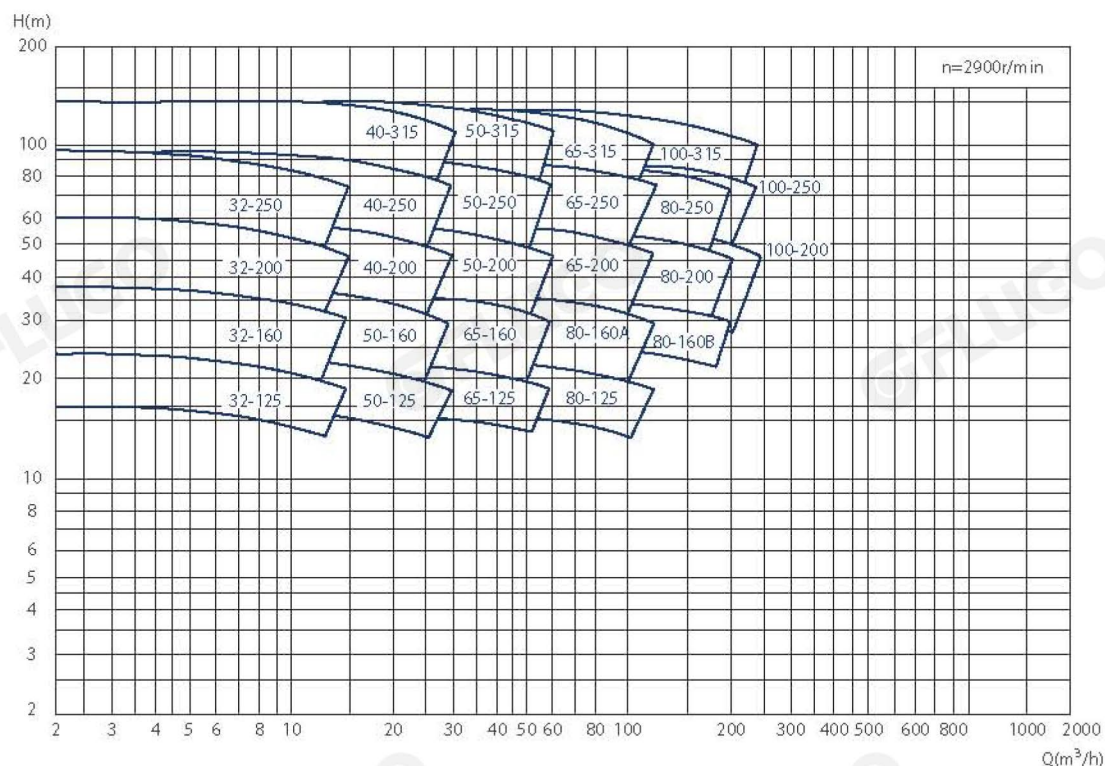


Construction

NO.	NAME	MATERIAL	
		GB	JIS
1	Pump casing	HT250	FC250
2	Impeller	0Cr18Ni9Ti	SUS304
3	Pump casing	HT250	FC250
4	Mechanical seal	C-SIC	C-SIC
5	Mechanical seal cover	HT250	FC250
6	Suspension	HT250	FC250
7	Shaft	2Cr13	SUS420J1
8	Shaft sleeve	0Cr18Ni9Ti	SUS304
9	Impeller nut	0Cr18Ni9Ti	SUS304



Performance Chart



Performance Parameters

(2P)

Type	Speed (r/min)	Capacity		Head(m)	Eff(%)	Power(kW)		Npshr(m)
		m³/h	l/s			(pa) Shaft power	Motor power	
FCK32-125	2900	7.5	2.08	22	47	0.69	2.2	2.0
		12.5	3.47	20	60	1.13		2.0
		15	4.17	18.5	60	1.26		2.5
FCK32-160	2900	7.5	2.08	33	44	1.53	3	2.0
		12.5	3.47	32	54	2.02		2.0
		15	4.17	30.5	56	2.23		2.5
FCK32-200	2900	7.5	2.08	51.2	38	2.75	5.5	2.0
		12.5	3.47	50	48	3.54		2.0
		15	4.17	48.4	51	3.88		2.5
FCK32-250	2900	7.5	2.08	80.6	28.5	5.77	11	2.0
		12.5	3.47	80	38	7.16		2.0
		15	4.17	79.3	41	7.9		2.5
FCK50-125	2900	15	4.17	21.8	58	1.54	3	2.0
		25	6.94	20	69	1.97		2.5
		30	8.33	18.5	68	2.22		3.0
FCK50-160	2900	15	4.17	35	55	2.60	5.5	2.0
		25	6.94	32	65	3.35		2.0
		30	8.33	30	64	3.82		2.5
FCK40-200	2900	15	4.17	51.3	48	4.37	7.5	2.0
		25	6.94	50	60	5.67		2.0
		30	8.33	48.4	61	6.48		2.5
FCK40-250	2900	15	4.17	82	37	3.05	15	2.0
		25	6.94	80	50	10.89		2.0
		30	8.33	78	53	12.02		2.5

Performance Parameters

(2P)

Type	Speed (r/min)	Capacity		Head(m)	Eff(%)	Power (kW)		Npshr(m)
		(m³/h)	l/s			(pa) Shaft power	Motor power	
FCK40-315	2900	15	4.17	127	28	18.5	30	2.5
		25	6.94	125	40	21.3		2.5
		30	8.33	123	44	22.8		3.0
FCK65-125	2900	30	8.33	225	64	2.87	5.5	3.0
		50	13.9	20	75	3.69		3.0
		60	16.7	18	74	3.98		3.5
FCK65-160	2900	30	8.33	35.5	61	4.76	7.5	2.5
		50	13.9	32	73	5.97		2.5
		60	16.7	28.5	72	6.46		3.0
FCK50-200	2900	30	8.33	53	55	7.87	15	2.5
		50	13.9	50	96	9.87		2.5
		60	16.7	47	71	10.8		3.0
FCK50-250	2900	30	8.33	84	52	13.2	22	2.5
		50	13.9	80	63	17.3		2.5
		60	16.7	75	64	19.2		3.0
FCK50-315	2900	30	8.33	128	41	25.5	37	2.5
		50	13.9	125	54	31.5		2.5
		60	16.7	123	57	35.3		3.0
FCK80-125	2900	60	16.7	24	67	5.86	11	4.0
		100	27.8	20	78	7.00		4.5
		120	33.3	16.5	74	7.28		5.0
FCK80-160A	2900	60	16.7	36	70	8.4	15	3.5
		100	27.8	32	78	11.2		4.0
		120	33.3	29	75	12.6		5.0
FCK65-200	2900	60	16.7	54	65	13.6	22	3.0
		100	27.8	50	76	17.9		3.6
		120	33.3	47	77	19.9		4.8
FCK65-250	2900	60	16.7	87	61	23.4	37	3.5
		100	27.8	80	72	30.3		3.8
		120	33.3	74.5	73	33.3		4.8
FCK65-315	2900	60	16.7	133	55	39.6	75	3.0
		100	27.8	125	66	51.6		3.6
		120	33.3	118	67	57.5		4.2
FCK80-160B	2900	96	26.7	37	69	14.0	22	5.0
		160	44.4	32	79	17.7		5.6
		192	53.3	27	75	18.8		6.2
FCK80-200	2900	96	26.7	56.5	69	21.4	37	4.5
		160	44.4	50	79	27.6		5.2
		192	53.3	45	78	30.2		5.7
FCK80-250	2900	96	26.7	89	65	35.8	55	4.5
		160	44.4	80	77	45.3		4.8
		192	53.3	72	74	50.7		6.1
FCK100-200	2900	120	33.3	57.5	67	28.0	45	4.5
		200	55.5	50	81	33.6		4.5
		240	66.7	44.5	80	36.4		5.0
FCK100-250	2900	120	33.3	87	66	43.0	75	3.8
		200	55.6	80	78	55.9		4.2
		240	66.7	72	75	62.8		5.0
FCK100-315	2900	120	33.3	132.5	60	72.1	110	4.0
		200	55.6	125	75	90.8		4.5
		240	66.7	120	77	101.9		5.0

Performance Parameters

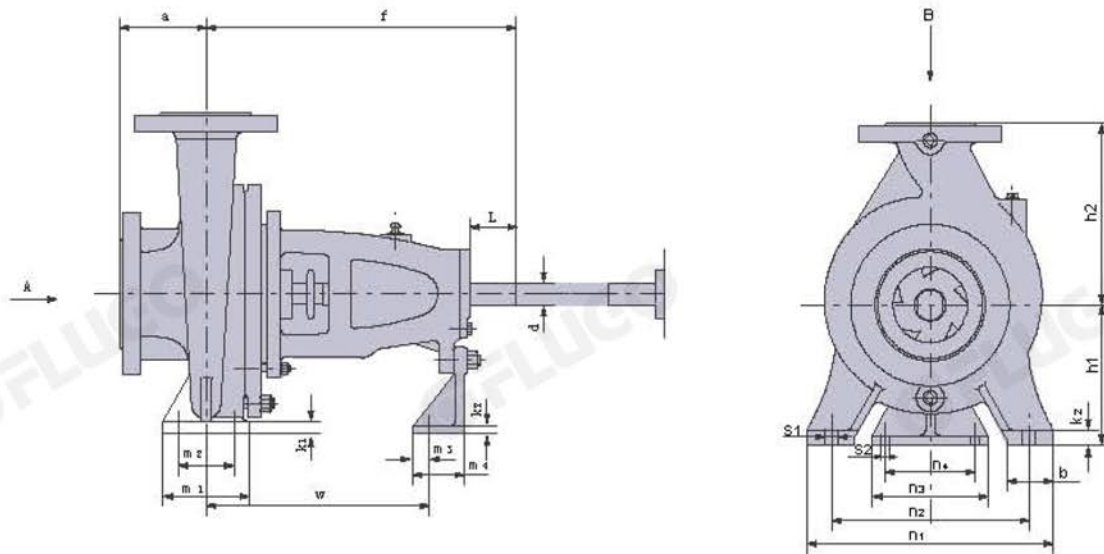
(4P)

Type	Speed (r/min)	Capacity		Head(m)	Eff(%)	Power (kW)		Npshr(m)
		(m³/h)	l/s			(pa) Shaft power	Motor power	
FCK32-125	1450	3.75	1.04	4	43	0.13	0.55	2.0
		6.3	1.74	5	54	0.16		2.0
		7.5	2.08	4.6	55	0.17		2.5
FCK32-160	1450	3.75	1.04	8.5	35	0.25	0.55	2.0
		6.3	1.75	8	48	0.29		2.0
		7.5	2.08	7.5	49	0.31		2.5
FCK32-200	1450	3.75	1.04	12.8	33	0.41	0.75	2.0
		6.3	1.74	12.5	42	0.51		2.0
		7.5	2.08	12.1	44	0.56		2.5
FCK32-250	1450	3.75	1.04	20.15	23	0.91	1.5	2.0
		6.3	1.74	20	32	1.07		2.0
		7.5	2.08	19.8	35	1.14		2.5
FCK50-125	1450	7.5	2.08	5.35	53	0.21	0.55	2.0
		12.5	3.47	5	64	0.27		2.0
		15	4.17	4.7	65	0.30		2.5
FCK50-160	1450	7.5	2.08	8.8	50	0.36	0.75	2.0
		12.5	3.47	8.0	60	0.45		2.0
		15	4.17	7.2	60	0.49		2.5
FCK40-200	1450	7.5	2.08	13.2	43	0.63	1.1	2.0
		12.5	3.47	12.5	55	0.77		2.0
		15	4.17	11.8	57	0.85		2.5
FCK40-250	1450	7.5	2.08	20.5	35	1.23	2.2	2.0
		12.5	3.47	20	46	1.48		2.0
		15	4.17	19.5	48	1.65		2.5
FCK40-315	1450	7.5	2.08	32.2	25	2.63	4	2.5
		12.5	3.47	32	37	2.94		2.5
		15	4.17	31.7	41	3.16		3.0
FCK65-125	1450	15	4.17	5.6	55	0.42	0.75	2.5
		25	6.94	5	71	0.48		2.5
		30	8.33	4.5	72	0.51		3.0
FCK65-160	1450	15	4.17	9	55	0.67	1.5	2.5
		25	6.94	8	69	0.79		2.5
		30	8.33	7.2	68	0.86		3.0
FCK50-200	1450	15	4.17	13.2	51	1.06	2.2	2.5
		25	6.94	12.5	65	1.31		2.5
		30	8.33	11.8	67	1.44		3.0
FCK50-250	1450	15	4.17	21	49	1.75	3	2.5
		25	6.94	20	60	2.27		2.5
		30	8.33	18.8	61	2.52		3.0
FCK50-315	1450	15	4.17	32.5	39	3.4	5.5	2.5
		25	6.94	32	52	4.19		2.5
		30	8.33	31.5	56	4.6		3.0
FCK80-125	1450	30	8.33	6	64	0.77	1.5	2.5
		50	13.9	5	75	0.91		2.5
		60	16.7	4	71	0.92		3.0
FCK80-160C	1450	30	8.33	9.2	67	1.12	2.2	2.0
		50	13.9	8.0	75	1.45		2.5
		60	16.7	6.8	71	1.57		3.5

Performance Parameters

Type	Speed (r/min)	Capacity		Head(m)	Eff(%)	Power (kW)		Npshr(m)
		(m³/h)	l/s			(pa) Shaft power	Motor power	
FCK65-200	1450	30	8.33	13.5	60	1.84	4	2.0
		50	13.9	12.5	73	2.33		2.0
		60	16.7	16.7	74	2.61		2.5
FCK65-250	1450	30	8.33	21.3	55	3.16	5.5	2.0
		50	13.9	20	68	4.00		2.0
		60	16.7	19	70	4.44		2.5
FCK65-315	1450	30	8.33	34	51	5.44	11	2.0
		50	13.9	32	63	6.92		2.0
		60	16.7	30	64	7.67		2.5
FCK80-160D	1450	48	13.3	9.3	63	1.9	4	5.0
		80	22.2	8	75	2.3		5.6
		96	26.6	6.65	71	2.4		6.2
FCK80-200	1450	48	13.3	14.1	63	2.9	5.5	4.5
		80	22.2	12.5	75	3.6		5.2
		96	26.6	11.3	73	4.0		5.7
FCK80-250	1450	48	13.3	22.3	60	4.8	11	4.5
		80	22.2	20	72	6.0		4.8
		96	26.6	18	70	6.7		6.1
FCK100-200	1450	60	16.7	14.5	62	3.83	7.5	2.5
		100	27.8	12.5	76	4.48		2.5
		120	33.3	11.0	75	4.79		3.0
FCK100-250	1450	60	16.7	21.5	63	5.59	11	2.5
		100	27.8	20	76	7.17		2.5
		120	33.3	18.5	77	7.84		3.0
FCK100-315	1450	60	16.7	33.5	58	9.4	15	2.5
		100	27.8	32	73	11.9		2.5
		120	33.3	30.5	74	13.5		3.0
FCK100-400	1450	60	16.7	52	53	16.1	30	2.5
		100	27.8	50	65	21		2.5
		120	33.3	48.5	67	23.6		3.0
FCK125-250	1450	120	33.3	22.6	71	10.4	18.5	3.0
		200	55.6	20	81	13.5		3.0
		240	66.7	17.0	77	14.5		3.5
FCK125-315	1450	120	33.3	34	70	15.86	30	2.5
		200	55.6	32	79	22.08		2.5
		240	66.7	29	80	23.71		3.0
FCK125-400	1450	120	33.3	53	62	27.9	40	2.0
		200	55.6	50	75	36.3		2.8
		240	66.7	46	74	40.6		3.5
FCK150-250	1450	240	66.7	22.1	70	20.6	37	3.6
		400	111.1	20	83	26.2		4.6
		460	127.8	18.4	79	29.2		4.9
FCK150-315	1450	240	66.7	37	70	34.6	55	3.0
		400	111.1	32	82	42.5		3.5
		460	127.8	28.5	80	44.6		4.0
FCK150-400	1450	240	66.7	55	74	48.6	90	3.0
		400	111.1	50	81	67.2		3.8
		460	127.8	45	76	74.2		4.5

Installation Dimensions



(mm)

Type	Installation Dimensions																			
	a	f	h1	h2	b	m1	m2	m3	m4	n1	n2	n3	n4	K1	K2	W	S1	S2	d	L
FCK32-125	80	385	122	140	50	100	70	19	60	190	140	110	145	14	10	285	M12	M12	28	50
FCK32-160	80	385	132	160	50	100	70	19	60	240	190	110	145	14	10	285	M12	M12	28	50
FCK32-200	80	385	160	180	50	100	70	19	60	240	190	110	145	16	10	285	M12	M12	28	50
FCK32-250	100	500	180	225	65	125	95	25	65	320	250	110	145	20	14	370	M12	M12	28	80
FCK40-200	100	385	160	180	50	100	70	19	60	265	212	110	145	16	10	285	M12	M12	28	50
FCK40-250	100	500	180	225	65	125	95	25	65	320	250	110	145	20	14	370	M12	M12	28	80
FCK40-315	125	500	200	250	65	125	95	25	65	345	280	110	145	20	14	370	M12	M12	38	80
FCK50-125	80	385	112	140	50	100	70	19	60	210	160	110	145	14	10	285	M12	M12	28	50
FCK50-160	80	385	132	160	50	100	70	19	60	240	190	110	145	16	10	285	M12	M12	28	50
FCK50-200	100	385	160	200	50	100	70	19	60	265	212	110	145	16	10	285	M12	M12	28	50
FCK50-250	125	500	180	225	65	125	95	25	65	320	250	110	145	20	14	370	M12	M12	28	80
FCK50-315	125	500	225	280	65	125	95	25	65	345	280	110	145	20	14	370	M12	M12	38	80
FCK65-125	100	385	132	160	50	100	70	19	60	240	190	110	145	16	10	285	M12	M12	28	50
FCK65-160	100	385	160	180	50	100	70	19	60	265	212	110	145	16	10	285	M12	M12	28	50
FCK65-200	100	500	180	225	65	125	95	25	65	320	250	110	145	20	14	370	M12	M12	28	80
FCK65-250	125	500	200	250	80	160	120	25	65	360	280	110	145	20	14	370	M16	M12	38	80
FCK65-315	125	530	225	280	80	160	120	28	65	400	315	110	145	20	14	370	M16	M12	38	110
FCK80-125	100	385	160	180	65	125	95	19	60	280	212	110	145	16	10	285	M12	M12	28	50
FCK80-160/A(C)	100	500	160	200	65	125	95	24	60	280	212	110	145	20	10	370	M12	M12	28	80
FCK80-160/B(D)	125	500	180	225	65	125	95	25	65	320	250	110	145	20	10	370	M12	M12	28	80
FCK80-200	125	500	180	250	65	125	95	25	65	345	280	110	145	20	14	370	M12	M12	38	80
FCK80-250	125	500	225	280	80	160	120	28	65	400	315	110	145	20	14	370	M16	M12	38	110
FCK100-200	125	500	200	280	80	160	120	25	65	360	280	110	145	20	14	370	M16	M12	38	80
FCK100-250	140	530	225	280	80	160	120	28	65	400	315	110	145	20	14	370	M16	M12	38	110
FCK100-315	140	530	250	315	80	160	120	28	65	400	315	110	145	25	14	370	M16	M12	38	110
FCK100-400	140	530	280	355	100	200	150	28	65	500	400	110	145	25	14	370	M20	M12	48	110
FCK125-250	140	530	250	355	80	160	120	28	65	400	315	110	145	25	14	370	M16	M12	38	110
FCK125-315	140	530	280	355	100	200	150	28	65	500	400	110	145	25	14	370	M20	M12	48	110
FCK125-400	140	350	315	400	100	200	150	28	65	500	400	110	145	25	14	370	M20	M12	48	110
FCK150-250	160	350	280	375	100	200	150	28	65	500	400	110	145	25	14	370	M20	M12	48	110
FCK150-315	160	670	315	400	100	200	150	38	80	550	450	140	200	30	30	500	M20	M16	48	110
FCK150-400	160	670	315	450	100	200	150	38	80	550	450	140	200	30	30	500	M20	M16	48	110



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Authorized Distributor