CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

FPS

FEATURES

- Heavy-duty cast iron body for increased durability
- Stainless steel impellers DA1A & DA1B
- Silicon Brass DB1, DB1-1/2, DB2, DC1-1/2, and DC2
- Cast iron impellers (DC4)
- 56C frame motors with shaft coupling design for easy removal (1/3 - 2 hp models)
- JM frame motors utilize a shaft sleeve/O-ring design for added protection against shaft damage
- Single- or three-phase motors with ODP and TEFC options available on selected models
- Seal features standard carbon/ceramic faces, nitrile elastomers, and 300 Series stainless components



SPECIFICATIONS

- Capacities to 650 gpm
- Heads to 300 feet
- 150 psi maximum working pressure
- 212 °F maximum temperature
- Clockwise rotation when viewed from motor end
- NPT pipe connections

APPLICATIONS

- Irrigation
- Commercial
- Construction
- Municipal
- Light Industrial
- General Services

Franklin Electric

CENTRIFUGAL PUMPS

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NOMENCLATURE

5 FP DA L 1 A - S

S = Single Phase
SE = Single Phase, TEFC
T = Three Phase, ODP
TE = Three Phase, TEFC
T5 = Three Phase, 575V, ODP
TE5 = Three Phase, 575V, TEFC

A = Low Flow
B = High Flow

1", 1-1/2", 2", 4" = Discharge Size NPT Inch

Blank = 3600 RPM
L = 1800 RPM

DA = 5.06" Max Dia. Impeller
DB = 6.43" Max Dia. Impeller
DC = 8" - 9" Max Dia. Impeller

FP = Franklin Pump

3 = 1/3 HP	15 = 1-1/2 HP	75 = 7.5 HP	25 = 25 HP
5 = 1/2 HP	2 = 2 HP	10 = 10 HP	30 = 30 HP
7 = 3/4 HP	3 = 3 HP	15 = 15 HP	40 = 40 HP
1 = 1 HP	5 = 5 HP	20 = 20 HP	50 = 50 HP

**TEFC 1/2 - 2 HP use upsized HP motors from what the nomenclature indicates*

RPM	Series	Volute	Impeller	Seal Type	Flow Range (GPM)	Head Range (ft)	HP Range	NPT Suc. x Disch.
3600	DA1A	Cast Iron	304 S.S.	Carbon/Ceramic/Nitrile/316 S.S.	20-42	40-98	1/2 - 1	1.25" x 1.00"
	DA1B	Cast Iron	304 S.S.	Carbon/Ceramic/Nitrile/316 S.S.	20-66	35-115	1/2 - 2	1.25" x 1.00"
	DB1	Cast Iron	Silicon Brass	Carbon/Ceramic/Nitrile/316 S.S.	20-80	30-170	3/4 - 5	1.50" x 1.00"
	DB1-1/2	Cast Iron	Silicon Brass	Carbon/Ceramic/Nitrile/316 S.S.	45-160	30-170	1 - 7-1/2	2" x 1.5"
	DC1-1/2	Cast Iron	Silicon Brass	Carbon/Ceramic/Nitrile/316 S.S.	65-180	50-300	3 - 15	2" x 1.5"
	DB2/DC2	Cast Iron	Silicon Brass	Carbon/Ceramic/Nitrile/316 S.S.	80-350	25-260	1-1/2 - 20	3" x 2"
	DC4	Cast Iron	Cast Iron	Carbon/Ceramic/Nitrile/316 S.S.	250-625	100-300	20 - 50	4" x 4"
1800	DAL1A	Cast Iron	304 S.S.	Carbon/Ceramic/Nitrile/316 S.S.	7-20	16-23	1/3	1.25" x 1.00"
	DAL1B	Cast Iron	304 S.S.	Carbon/Ceramic/Nitrile/316 S.S.	10-34	19-27	1/3	1.25" x 1.00"
	DBL1	Cast Iron	Silicon Brass	Carbon/Ceramic/Nitrile/316 S.S.	15-40	15-42	1/3 - 3/4	1.50" x 1.00"
	DBL1-1/2	Cast Iron	Silicon Brass	Carbon/Ceramic/Nitrile/316 S.S.	25-95	8-42	1/3 - 1	2" x 1.5"
	DCL1-1/2	Cast Iron	Silicon Brass	Carbon/Ceramic/Nitrile/316 S.S.	35-90	30-75	1 - 2	2" x 1.5"
	DBL2	Cast Iron	Silicon Brass	Carbon/Ceramic/Nitrile/316 S.S.	45-145	8-42	1/2 - 1-1/2	3" x 2"

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MASTER PERFORMANCE

3600 RPM

DA1A	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated																Max Press. (PSI)
						30	35	40	45	50	55	60	70	80	90	100	110	120	130	140	150	160	
5FPDA1A	1/2	4.13	0.91	Cast Iron	304 S.S.			40	35	30	25	17											28
7FPDA1A	3/4	4.69	0.91	Cast Iron	304 S.S.						41	38	30	17									36
1FPDA1A	1	5.06	0.91	Cast Iron	304 S.S.								41	37	26								43

DA1B	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated																Max Press. (PSI)
						30	35	40	45	50	55	60	70	80	90	100	110	120	130	140	150	160	
5FPDA1B	1/2	3.75	0.88	Cast Iron	304 S.S.	50	46	40	34	23													23
7FPDA1B	3/4	4.00	0.88	Cast Iron	304 S.S.			62	57	51	43	35											29
1FPDA1B	1	4.25	0.88	Cast Iron	304 S.S.					62	56	51	35										34
15FPDA1B	1-1/2	4.69	0.88	Cast Iron	304 S.S.							70	63	53	33								41
2FPDA1B	2	5.06	0.88	Cast Iron	304 S.S.									69	64	56	38						50

DB1	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated																Max Press. (PSI)
						30	35	40	45	50	55	60	70	80	90	100	110	120	130	140	150	160	
7FPDB1	3/4	4.25	0.99	Cast Iron	Silicon Brass	61	58	54	49	46	41	29											31
1FPDB1	1	4.75	0.99	Cast Iron	Silicon Brass			67	63	59	56	46	36	20									36
15FPDB1	1-1/2	5.19	0.99	Cast Iron	Silicon Brass						72	65	58	50	39	28							47
2FPDB1	2	5.50	0.99	Cast Iron	Silicon Brass							74	68	61	53	45	33						53
3FPDB1	3	6.13	0.99	Cast Iron	Silicon Brass									78	73	67	61	54	46	37			65
5FPDB1	5	6.44	0.99	Cast Iron	Silicon Brass												80	74	68	62	53	42	75

DB1-1/2	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated																Max Press. (PSI)
						50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	220	
3FPDC1-1/2	3	5.06	0.92	Cast Iron	Silicon Brass	130	120	108	92	70													43
5FPDC1-1/2	5	5.81	0.92	Cast Iron	Silicon Brass			155	144	132	118	100	84	56									58
75FPDC1-1/2	7-1/2	6.63	0.92	Cast Iron	Silicon Brass							180	170	160	150	130	110	80					77

DC1-1/2	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated																Max Press. (PSI)
						80	90	100	110	120	130	140	150	160	170	180	190	200	220	240	260	280	
10FPDC1-1/2	10	7.31	0.92	Cast Iron	Silicon Brass								176	167	156	143	126	106					95
15FPDC1-1/2	15	8.38	0.92	Cast Iron	Silicon Brass														184	167	140	100	129

DB2/DC2	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated																Max Press. (PSI)
						20	25	30	35	40	45	50	60	70	80	90	100	110	120	150	200	250	
15FPDB2	1-1/2	3.81	0.94	Cast Iron	Silicon Brass	175	160	145	125	100	65												22
2FPDB2	2	4.00	0.94	Cast Iron	Silicon Brass		185	170	160	145	125	100											25
3FPDB2	3	4.50	0.94	Cast Iron	Silicon Brass						175	165	140	90									32
5FPDB2	5	5.13	0.94	Cast Iron	Silicon Brass								235	210	190	160							43
75FPDB2	7-1/2	5.81	0.94	Cast Iron	Silicon Brass										260	240	225	200	160				58
10FPDB2	10	6.44	0.94	Cast Iron	Silicon Brass											310	290	275	260	185			74
15FPDC2	15	7.25	0.91	Cast Iron	Silicon Brass														350	305	205		100
20FPDC2	20	7.94	0.91	Cast Iron	Silicon Brass															365	275	130	113

DC4	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated																Max Press. (PSI)
						90	100	120	140	150	160	170	180	190	200	210	220	240	260	280	290	300	
20FPDC4-T	20	7.03	0.97	Cast Iron	Cast Iron	650	620	545	430	350	200												71
25FPDC4-T	25	7.47	0.97	Cast Iron	Cast Iron			650	595	550	500	450	350										82
30FPDC4-T	30	7.88	0.97	Cast Iron	Cast Iron					650	620	590	545	500	430	320							93
40FPDC4-T	40	8.44	0.97	Cast Iron	Cast Iron									640	605	560	515	375					112
50FPDC4-T	50	9.03	0.97	Cast Iron	Cast Iron												660	600	515	400	280		129

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MASTER PERFORMANCE

1800 RPM

DAL1A	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated									Max Press. (PSI)
						15	16	17	18	19	20	21	22	22	
3FPDAL1A	1/3	5.06	N/A	Cast Iron	304 S.S.		20	19.5	19	18	16	14	10		10

DAL1B	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated									Max Press. (PSI)
						19	20	21	22	23	24	25	26	27	
3FPDAL1B	1/3	5.06	N/A	Cast Iron	304 S.S.	35	34	32	31	30	28	24	18	10	11

DBL1	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated									Max Press. (PSI)
						10	15	20	25	30	35	40	45	50	
3FPDBL1	1/3	5.50	N/A	Cast Iron	Silicon Brass		39	32	25	12					14
5FPDBL1	1/2	6.13	N/A	Cast Iron	Silicon Brass			39	33	26	16				17
7FPDBL1	3/4	6.44	N/A	Cast Iron	Silicon Brass				40	35	30	21			19

DBL1-1/2	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated									Max Press. (PSI)
						10	15	20	25	30	35	40	45	50	
3FPBDL1-1/2	1/3	4.63	0.90	Cast Iron	Silicon Brass	64	50	24							10
5FPDBL1-1/2	1/2	5.13	0.90	Cast Iron	Silicon Brass		66	52	30						12
7FPDBL1-1/2	3/4	5.75	0.90	Cast Iron	Silicon Brass			84	70	54					16
1FPDBL1-1/2	1	6.44	0.90	Cast Iron	Silicon Brass				98	86	70	46			19

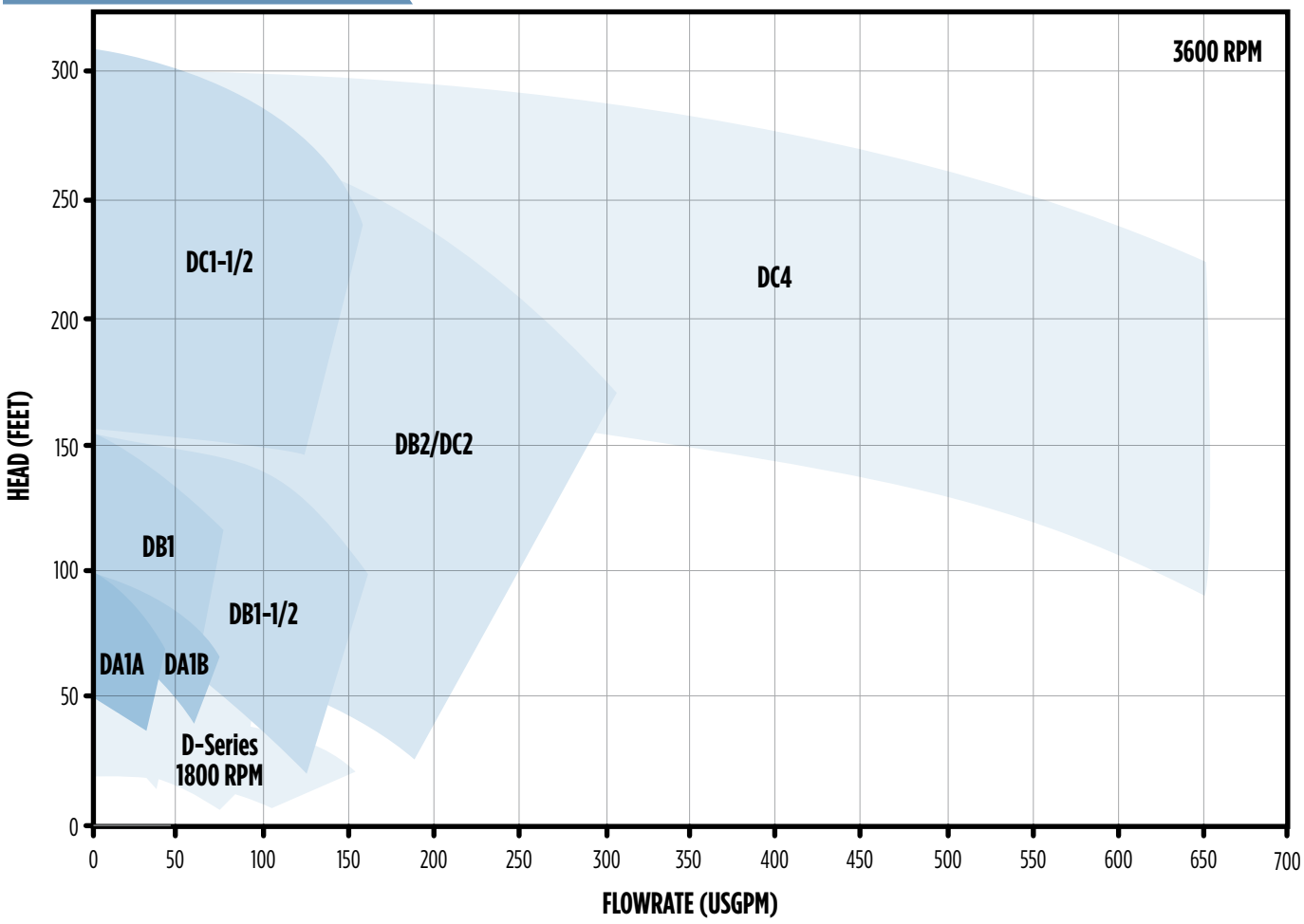
DCL1-1/2	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated									Max Press. (PSI)
						30	40	45	50	55	60	65	70	75	
1FPDCL1-1/2	1	6.63	0.94	Cast Iron	Silicon Brass	92	67	45							20
15FPDCL1-1/2	1-1/2	7.31	0.94	Cast Iron	Silicon Brass		90	81	68	48					25
2FPDCL1-1/2	2	8.38	0.94	Cast Iron	Silicon Brass						93	83	70	51	34

DBL2	HP	Imp. Dia.	PEI	Volute	Impeller	Capacity in GPM at Total Feet of Head Indicated									Max Press. (PSI)
						10	15	20	25	30	35	40	45	50	
5FPDBL2	1/2	4.50	0.91	Cast Iron	Silicon Brass	93	66								8
7FPDBL2	3/4	5.13	0.91	Cast Iron	Silicon Brass		112	88							11
1FPDBL2	1	5.81	0.91	Cast Iron	Silicon Brass			127	104	70					14
15FPDBL2	1-1/2	6.44	0.91	Cast Iron	Silicon Brass			156	144	128	108	69			18

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

PERFORMANCE RANGE



PUMP ENERGY INDEX

D Series	Basic Model	PEI_{CL} Number
3600 RPM	DA1A	0.91
	DA1B	0.88
	DB1	0.99
	DB1-1/2	0.90
	DC1-1/2	0.92
	DB2	0.94
	DC2	0.91
	DC4	0.97

D Series	Basic Model	PEI_{CL} Number
1800 RPM	DBL1-1/2	0.90
	DCL1-1/2	0.94
	DBL2	0.91
	DCL2	0.87

CENTRIFUGAL PUMPS

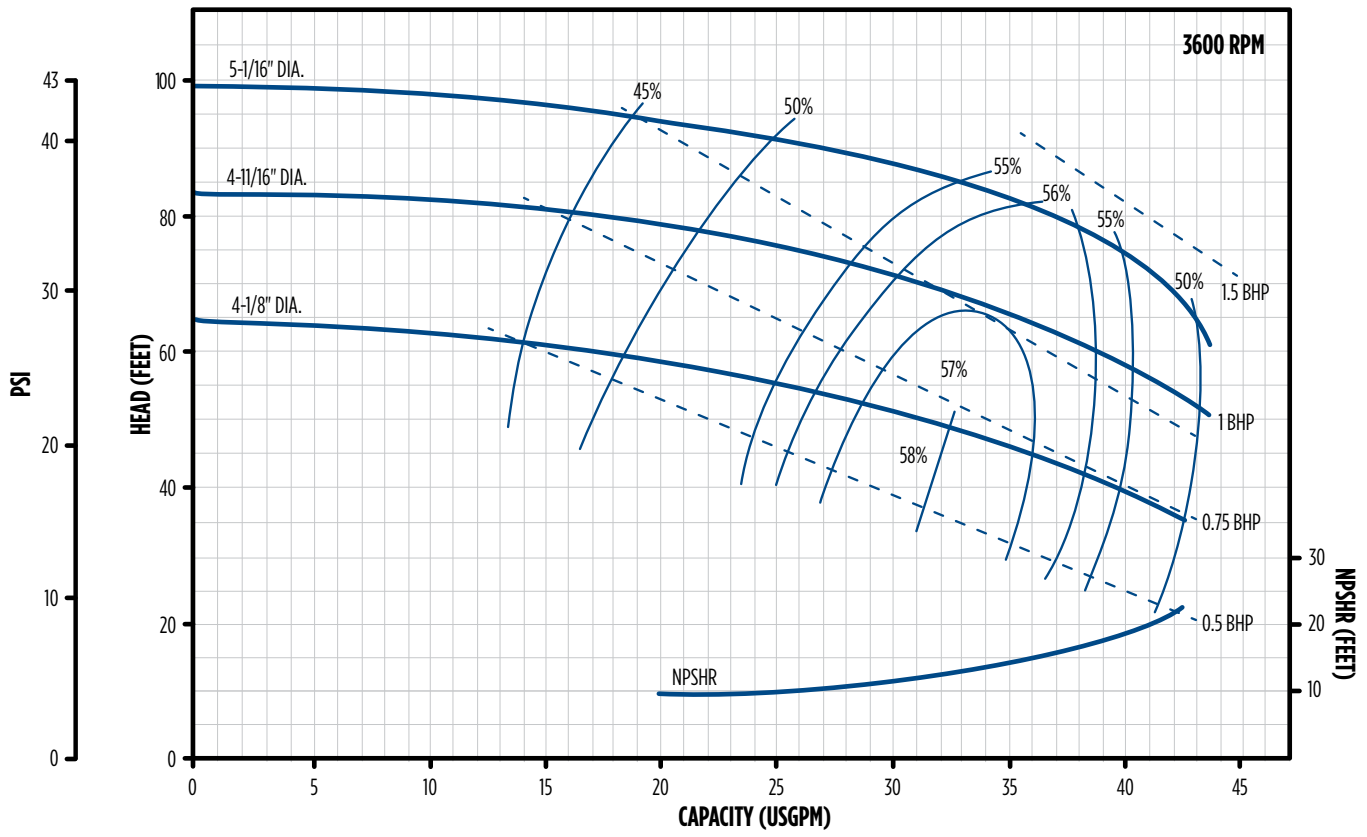
CLOSE-COUPLED D-SERIES

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PERFORMANCE

DA1A

Basic Model	PEI_{CL} Number
DA1A	0.91



Series	Enclosure	PH	Volts	HP	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DA1A 1.25 x 1 NPT 3600 RPM	ODP	1	115/230	1/2	4.13	93160020	5FPDA1A-S	33
				3/4	4.69	93160038	7FPDA1A-S	39
				1	5.06	93160046	1FPDA1A-S	44
		3	208-230/460	1/2	4.13	93160061	5FPDA1A-T	30
				3/4	4.69	93160079	7FPDA1A-T	35
				1	5.06	93160087	1FPDA1A-T	38
	TEFC*	1	115/230	3/4	4.13	93161020	5FPDA1A-SE	36
				1	4.69	93161038	7FPDA1A-SE	38
				1-1/2	5.06	93161046	1FPDA1A-SE	40
		3	230/460	3/4	4.13	93161061	5FPDA1A-TE	31
				1	4.69	93161079	7FPDA1A-TE	33
				1-1/2	5.06	93161087	1FPDA1A-TE	35
			575	3/4	4.13	93161062	5FPDA1A-TE5	31
				1	4.69	93161080	7FPDA1A-TE5	33
				1-1/2	5.06	93161088	1FPDA1A-TE5	35

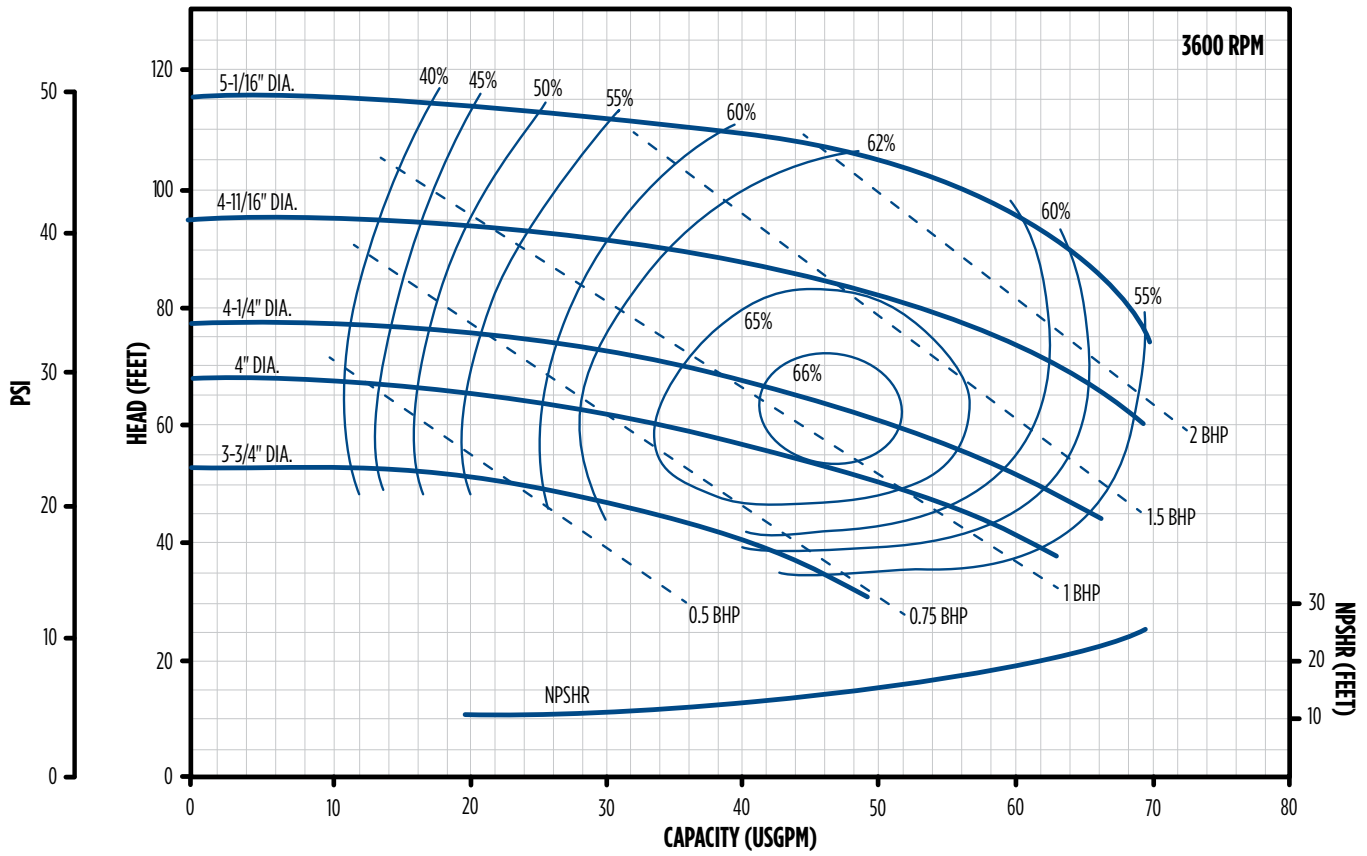
** T.E.F.C. 1/2 - 2 hp versions use upsized motors due to low service factor ratings. Example: 5FPDA1A-SE utilizes a 3/4 hp motor.*

DA1A Series are assembled with 56C frame motors. Refer to motor specification section for more information.

PERFORMANCE

DA1B

Basic Model	PEI_{CL} Number
DA1B	0.88



Series	Enclosure	PH	Volts	HP	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DA1B 1.25 x 1 NPT 3600 RPM	ODP	1	115/230	1/2	3.75	93160137	5FPDA1B-S	33
				3/4	4.00	93160145	7FPDA1B-S	39
				1	4.25	93160152	1FPDA1B-S	44
				1-1/2	4.6875	93160160	15FPDA1B-S	46
				2	5.0625	93160178	2FPDA1B-S	47
		3	208-230/460	1/2	3.75	93160186	5FPDA1B-T	30
				3/4	4.00	93160194	7FPDA1B-T	35
				1	4.25	93160202	1FPDA1B-T	38
				1-1/2	4.6875	93160210	15FPDA1B-T	43
				2	5.0625	93160228	2FPDA1B-T	48
	TEFC*	1	115/230	3/4	3.75	93161137	5FPDA1B-SE	36
				1	4.00	93161145	7FPDA1B-SE	38
				1-1/2	4.25	93161152	1FPDA1B-SE	40
				2	4.6875	93161160	15FPDA1B-SE	46
			230	3	5.0625	93161178	2FPDA1B-SE	49
		3	208-230/460	3/4	3.75	93161186	5FPDA1B-TE	31
				1	4.00	93161194	7FPDA1B-TE	33
				1-1/2	4.25	93161202	1FPDA1B-TE	35
				2	4.6875	93161210	15FPDA1B-TE	45
				3	5.0625	93161228	2FPDA1B-TE	48
			575	3/4	3.75	93161187	5FPDA1B-TE5	31
				1	4.00	93161195	7FPDA1B-TE5	33
				1-1/2	4.25	93161203	1FPDA1B-TE5	35
				2	4.6875	93161211	15FPDA1B-TE5	45
				3	5.0625	93161229	2FPDA1B-TE5	48

** T.E.F.C. 1/2 - 2 hp versions use upsized motors due to low service factor ratings. Example: 5FPDA1B-SE utilizes a 3/4 hp motor.*

DA1B Series are assembled with 56C frame motors. Refer to motor specification section for more information.

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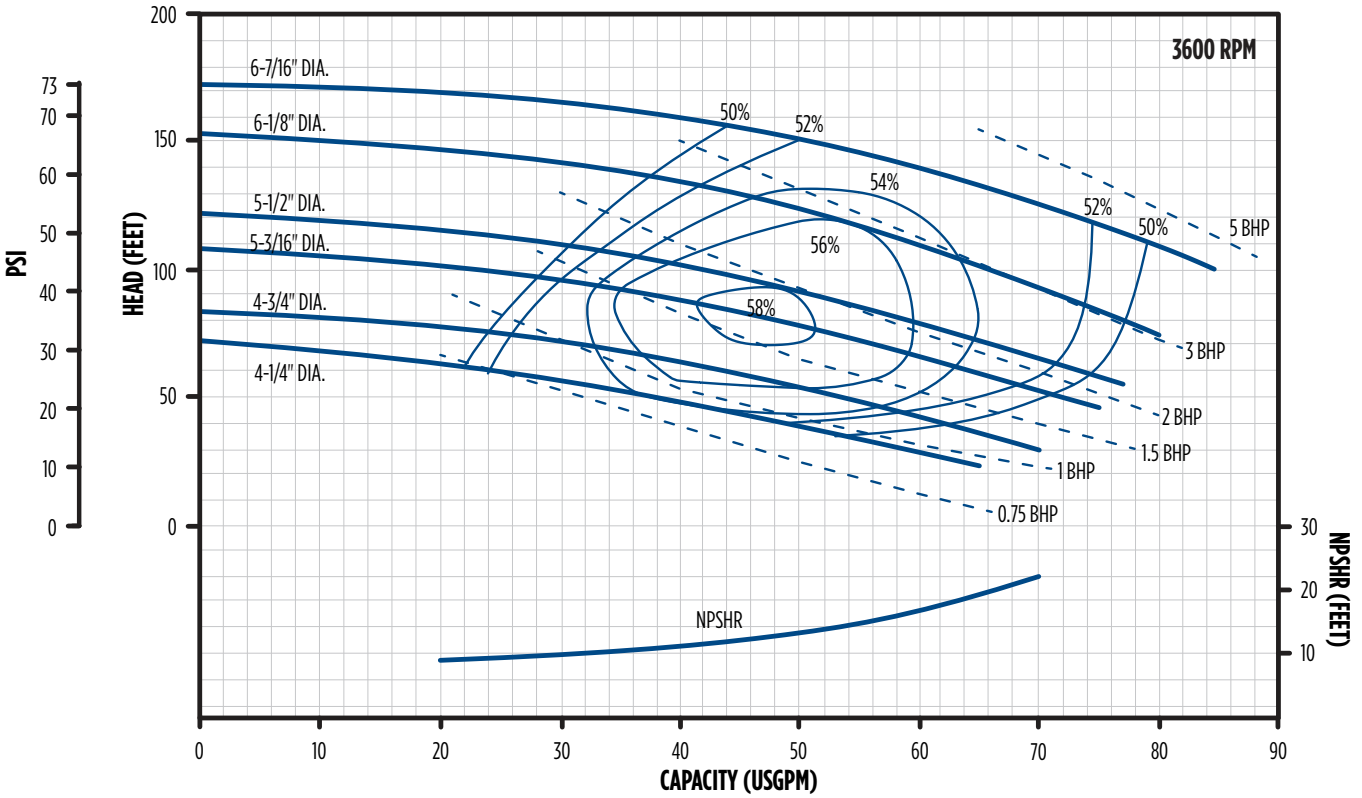
MENU

FPS

PERFORMANCE

DB1

Basic Model	PEI_{CL} Number
DB1	0.99



Series	Enclosure	PH	Volts	HP	Motor Fit Code**	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DB1 1.5 x 1 NPT 3600 RPM	ODP	1	115/230	3/4	56C	4.25	93160285	7FPDB1-S	49
				1	56C	4.75	93160293	1FPDB1-S	54
				1-1/2	56C	5.19	93160301	15FPDB1-S	56
				2	56C	5.50	93160319	2FPDB1-S	57
			230	3	JM-1	6.13	93160328	3FPDB1-S	54
				5	JM-1	6.44	93160335	5FPDB1-S	79
		3	208-230/460	3/4	56C	4.25	93160343	7FPDB1-T	45
				1	56C	4.75	93160350	1FPDB1-T	48
				1-1/2	56C	5.19	93160368	15FPDB1-T	53
				2	56C	5.50	93160376	2FPDB1-T	58
				3	JM-1	6.13	93160385	3FPDB1-T	61
				5	JM-1	6.44	93160392	5FPDB1-T	76
	TEFC*	1	115/230	1	56C	4.25	93161285	7FPDB1-SE	42
				1-1/2	56C	4.75	93161293	1FPDB1-SE	45
				2	56C	5.19	93161301	15FPDB1-SE	55
			230	3	56C	5.50	93161319	2FPDB1-SE	53
			115/230	3	JM-1	6.13	93161328	3FPDB1-SE	131
			230	5	JM-1	6.44	93161335	5FPDB1-SE	161
		3	208-230/460	1	56C	4.25	93161343	7FPDB1-TE	48
				1-1/2	56C	4.75	93161350	1FPDB1-TE	50
				2	56C	5.19	93161368	15FPDB1-TE	52
				3	56C	5.50	93161376	2FPDB1-TE	54
				3	JM-1	6.13	93161385	3FPDB1-TE	84
				5	JM-1	6.44	93161392	5FPDB1-TE	120
			575	1	56C	4.25	93161344	7FPDB1-TE5	48
				1-1/2	56C	4.75	93161351	1FPDB1-TE5	50
				2	56C	5.19	93161369	15FPDB1-TE5	52
				3	56C	5.50	93161377	2FPDB1-TE5	54
				3	JM-1	6.13	93161386	3FPDB1-TE5	84
				5	JM-1	6.44	93161393	5FPDB1-TE5	120

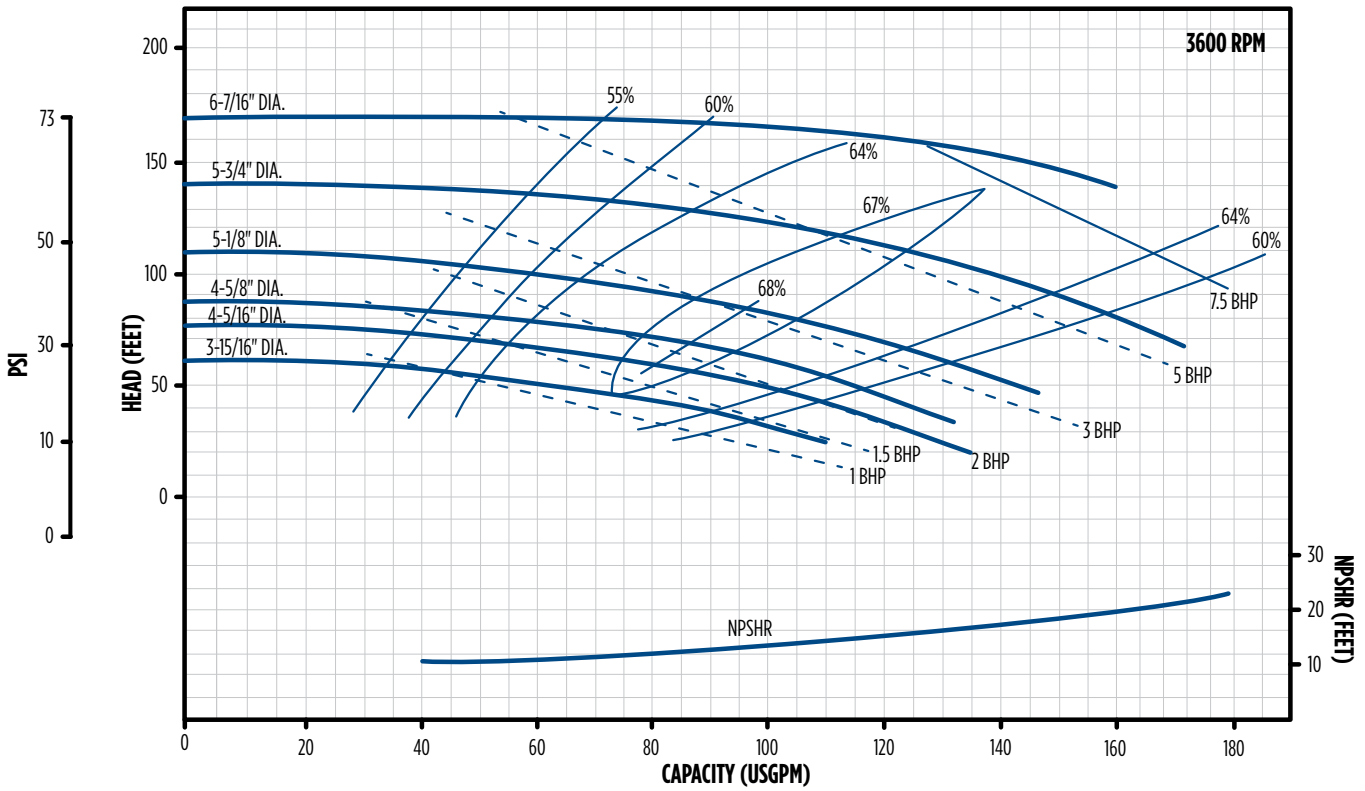
** T.E.F.C. 1/2 - 2 hp versions use upsized motors due to low service factor ratings. Example: 7FPDB1-SE utilizes a 1 hp motor.*

*** Refer to motor specification section for more information.*

PERFORMANCE

DB1-1/2

Basic Model	PEI_{CL} Number
DB1-1/2	0.90



Series	Enclosure	PH	Volts	HP	Motor Fit Code**	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DB1-1/2 2 x 1.5 NPT 3600 RPM	ODP	1	115/230	1	56C	3.94	93160467	1FPDB1-1/2-S	55
				1-1/2	56C	4.31	93160475	15FPDB1-1/2-S	57
				2	56C	4.63	93160483	2FPDB1-1/2-S	58
			230	3	JM-1	5.13	93160492	3FPDB1-1/2-S	57
				5	JM-1	5.75	93160509	5FPDB1-1/2-S	82
				7-1/2	JM-1	6.44	93160517	75FPDB1-1/2-S	118
				7-1/2	JM-2	6.44	93160518	75FPDB1-1/2-S	112
		3	208-230/460	1	56C	3.94	93160525	1FPDB1-1/2-T	49
				1-1/2	56C	4.31	93160533	15FPDB1-1/2-T	54
				2	56C	4.63	93160541	2FPDB1-1/2-T	59
				3	JM-1	5.13	93160559	3FPDB1-1/2-T	73
				5	JM-1	5.75	93160566	5FPDB1-1/2-T	79
				7-1/2	JM-1	6.44	93160574	75FPDB1-1/2-T	89
	TEFC*	1	115/230	1-1/2	56C	3.94	93161467	1FPDB1-1/2-SE	50
				2	56C	4.31	93161475	15FPDB1-1/2-SE	54
			230	3	56C	4.63	93161483	2FPDB1-1/2-SE	58
			115/230	3	JM-1	5.13	93161492	3FPDB1-1/2-SE	98
			208-230	5	JM-1	5.75	93161509	5FPDB1-1/2-SE	161
				7-1/2	JM-2	6.44	93161517	75FPDB1-1/2-SE	215
		3	208-230/460	1-1/2	56C	3.94	93161525	1FPDB1-1/2-TE	47
				2	56C	4.31	93161533	15FPDB1-1/2-TE	52
				3	56C	4.63	93161541	2FPDB1-1/2-TE	55
				3	JM-1	5.13	93161559	3FPDB1-1/2-TE	102
				5	JM-1	5.75	93161566	5FPDB1-1/2-TE	140
				7-1/2	JM-1	6.44	93161574	75FPDB1-1/2-TE	118
				7-1/2	JM-2	6.44	93161575	75FPDB1-1/2-TE	118
			575	1-1/2	56C	3.94	93161526	1FPDB1-1/2-TE5	47
				2	56C	4.31	93161534	15FPDB1-1/2-TE5	52
				3	56C	4.63	93161542	2FPDB1-1/2-TE5	55
				3	JM-1	5.13	93161560	3FPDB1-1/2-TE5	102
				5	JM-1	5.75	93161567	5FPDB1-1/2-TE5	140
				7-1/2	JM-2	6.44	93161576	75FPDB1-1/2-TE5	118

** T.E.F.C. 1/2 - 2 hp versions use upsized motors due to low service factor ratings. Example: 1FPDB1-1/2-SE utilizes a 1-1/2 hp motor.*

*** Refer to motor specification section for more information.*

CENTRIFUGAL PUMPS

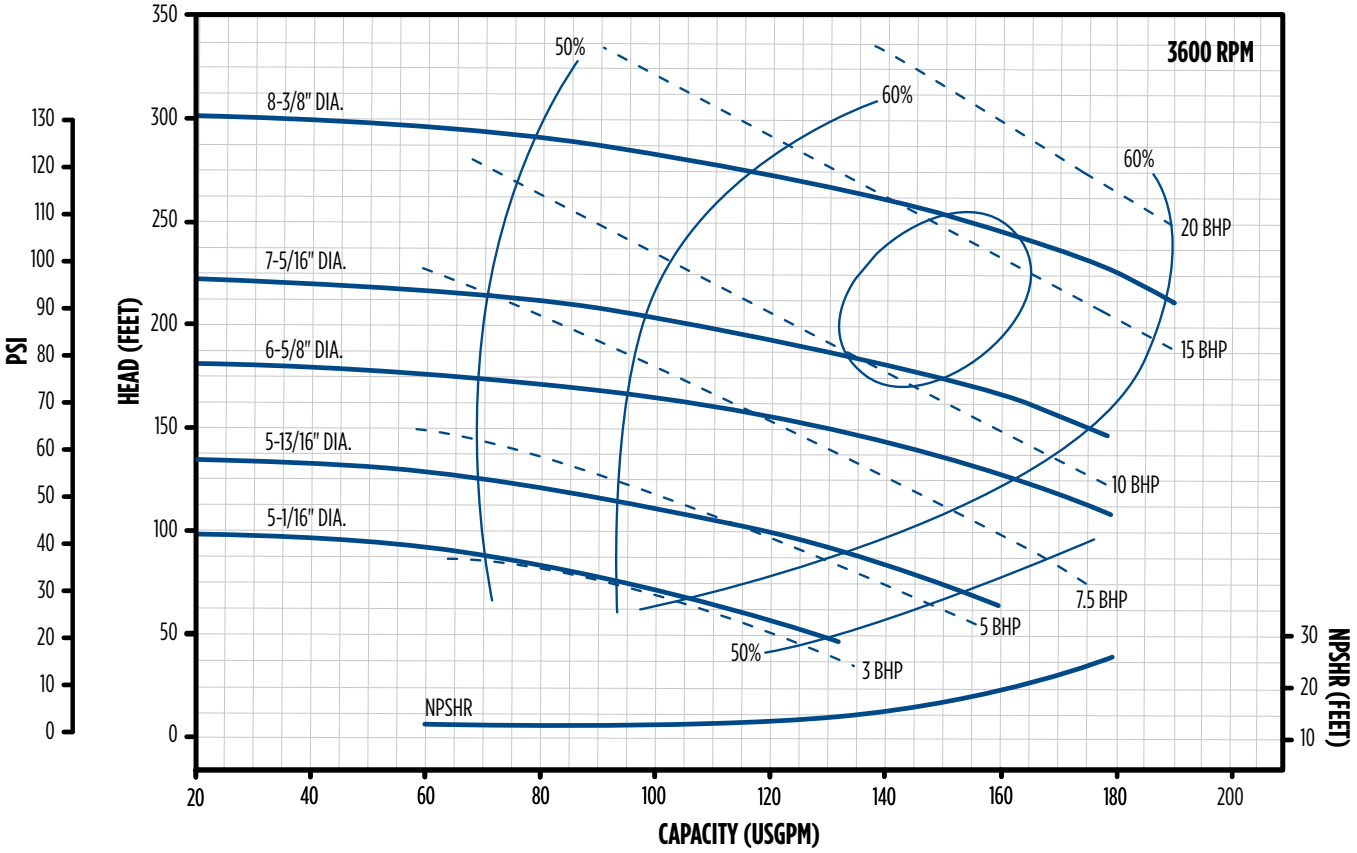
CLOSE-COUPLED D-SERIES

MENU

PERFORMANCE

DC1-1/2

Basic Model	PEI_{CL} Number
DC1-1/2	0.92



Series	Enclosure	PH	Volts	HP	Motor Fit Code**	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DC1-1/2 2 x 1.5 NPT 3600 RPM	ODP	1	230	3	JM-1	5.06	93160830	3FPDC1-1/2-S	122
				5	JM-1	5.81	93160848	5FPDC1-1/2-S	142
				7-1/2	JM-1	6.63	93160855	75FPDC1-1/2-S	156
				7-1/2	JM-2	6.63	93160856	75FPDC1-1/2-S	162
				10	JM-2	7.31	93161168	10FPDC1-1/2-S	190
		3	208-230/460	3	JM-1	5.06	93160863	3FPDC1-1/2-T	117
				5	JM-1	5.81	93160871	5FPDC1-1/2-T	98
				7-1/2	JM-1	6.63	93160889	75FPDC1-1/2-T	132
				10	JM-2	7.31	93160897	10FPDC1-1/2-T	171
				15	JM-2	8.38	93160905	15FPDC1-1/2-T	175
	TEFC	1	115/230	3	JM-1	5.06	93161830	3FPDC1-1/2-SE	146
			230	5	JM-1	5.81	93161848	5FPDC1-1/2-SE	181
				7-1/2	JM-2	6.63	93161855	75FPDC1-1/2-SE	193
				10	JM-2	7.31	93162168	10FPDC1-1/2-SE	206
		3	208-230/460	3	JM-1	5.06	93161863	3FPDC1-1/2-TE	127
				5	JM-1	5.81	93161871	5FPDC1-1/2-TE	136
				7-1/2	JM-1	6.63	93161889	75FPDC1-1/2-TE	140
				10	JM-2	7.31	93161897	10FPDC1-1/2-TE	209
				15	JM-2	8.38	93161905	15FPDC1-1/2-TE	194
			575	3	JM-1	5.06	93161864	3FPDC1-1/2-TE5	127
				5	JM-1	5.81	93161872	5FPDC1-1/2-TE5	136
				7-1/2	JM-2	6.63	93161891	75FPDC1-1/2-TE5	140
				10	JM-2	7.31	93161898	10FPDC1-1/2-TE5	209
				15	JM-2	8.38	93161906	15FPDC1-1/2-TE5	194

*** Refer to motor specification section for more information.*

CENTRIFUGAL PUMPS

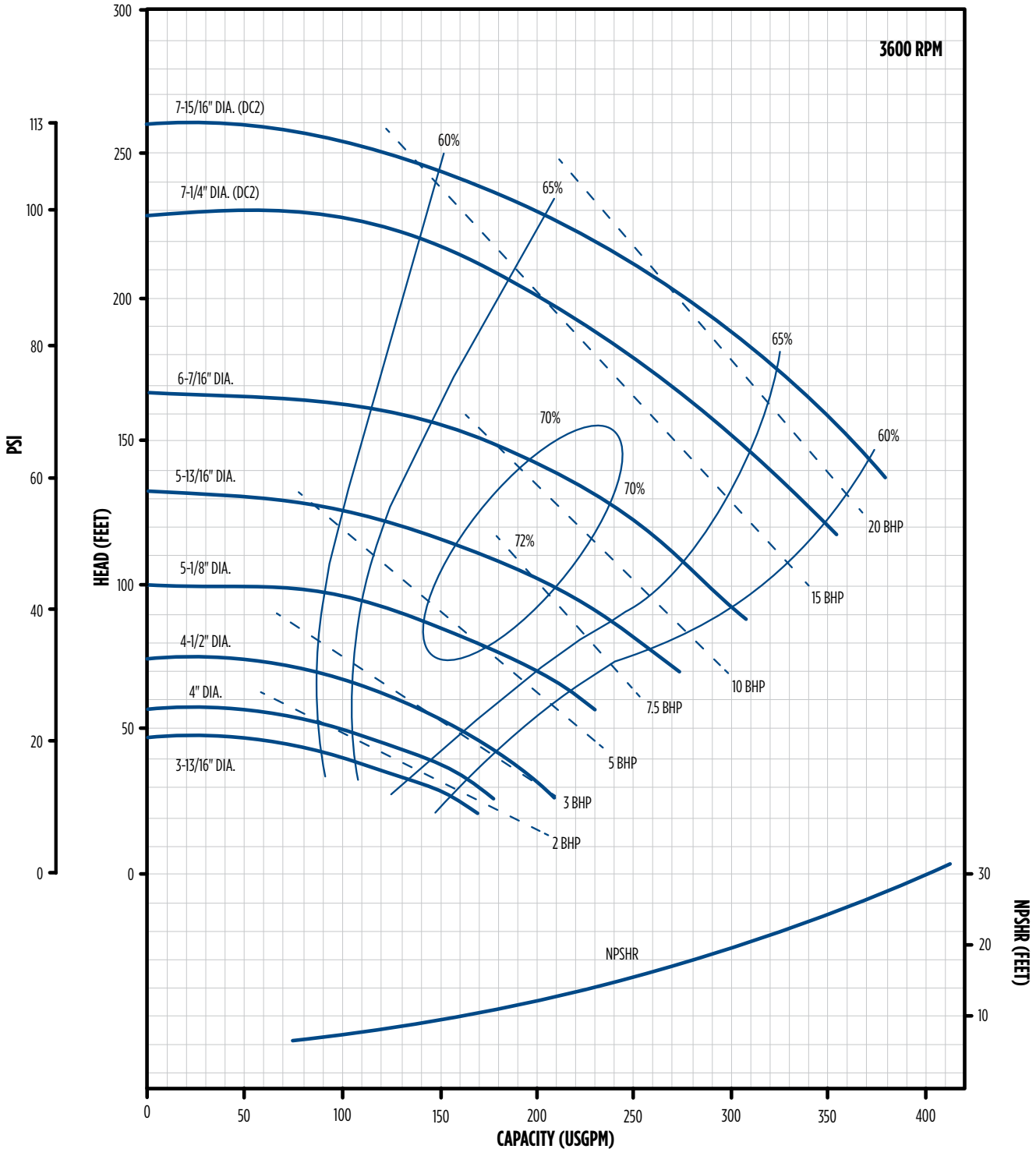
CLOSE-COUPLED D-SERIES

MENU

Basic Model	PEI_{CL} Number
DB2	0.94
DC2	0.91

PERFORMANCE

DB2/DC2



ORDER INFO

DB2/DC2

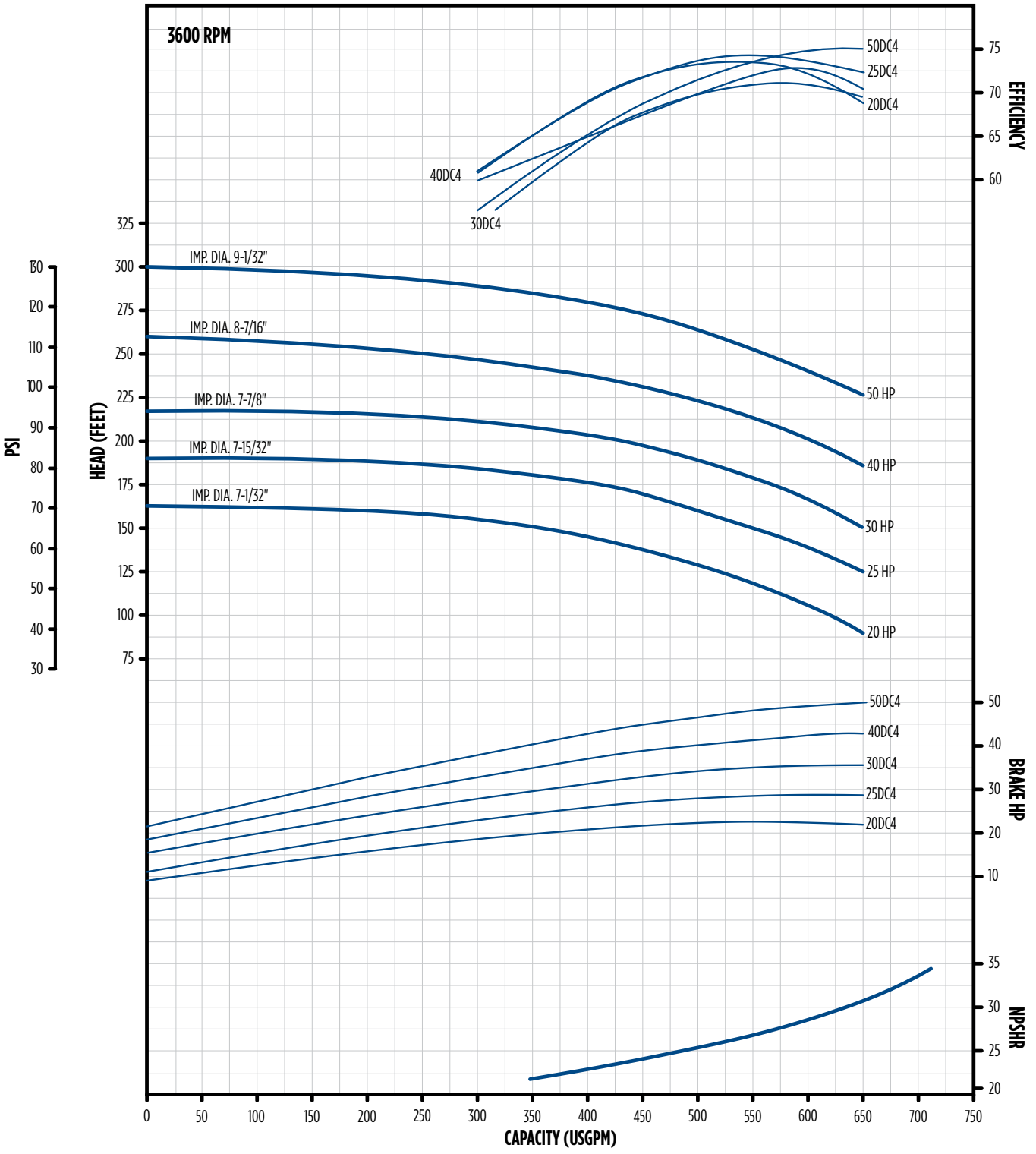
Series	Enclosure	PH	Volts	HP	Motor Fit Code**	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DB2/DC2 3 x 2 NPT 3600 RPM	ODP	1	115/230	1-1/2	56C	3.81	93160657	15FPDB2-S	57
				2	56C	4.00	93160665	2FPDB2-S	60
			230	3	JM-1	4.50	93160674	3FPDB2-S	128
				5	JM-1	5.13	93160681	5FPDB2-S	119
				7-1/2	JM-1	5.81	93160699	75FPDB2-S	144
				7-1/2	JM-2	5.81	93160700	75FPDB2-S	150
				10	JM-2	6.44	93161150	10FPDB2-S	171
		3	208-230/460	1-1/2	56C	3.81	93160707	15FPDB2-T	57
				2	56C	4.00	93160715	2FPDB2-T	60
				3	JM-1	4.50	93160724	3FPDB2-T	104
				5	JM-1	5.13	93160731	5FPDB2-T	110
				7-1/2	JM-1	5.81	93160749	75FPDB2-T	116
				10	JM-2	6.44	93160756	10FPDB2-T	146
				15	JM-2	7.25	93161051	15FPDC2-T	210
				20	JM-3	7.94	93161069	20FPDC2-T	243
DB2/DC2 3 x 2 NPT 3600 RPM	TEFC	1	115/230	2	56C	3.81	93161657	15FPDB2-SE	57
				3	JM-1	4.50	93161674	3FPDB2-SE	128
			230	3	56C	4.00	93161665	2FPDB2-SE	60
				5	JM-1	5.13	93161681	5FPDB2-SE	158
				7-1/2	JM-2	5.81	93161699	75FPDB2-SE	181
				10	JM-2	6.44	93162150	10FPDB2-SE	187
		3	230/460	2	56C	3.81	93161707	15FPDB2-TE	57
				3	56C	4.00	93161715	2FPDB2-TE	60
			208-230/460	3	JM-1	4.50	93161724	3FPDB2-TE	82
				5	JM-1	5.13	93161731	5FPDB2-TE	148
				7-1/2	JM-1	5.81	93161749	75FPDB2-TE	124
				7-1/2	JM-2	5.81	93161750	75FPDB2-TE	124
				10	JM-2	6.44	93161756	10FPDB2-TE	184
				15	JM-2	7.25	93162051	15FPDC2-TE	124
				20	JM-3	7.94	93162069	20FPDC2-TE	184
			575	2	56C	3.81	93161708	15FPDB2-TE5	229
				3	56C	4.00	93161716	2FPDB2-TE5	338
				3	JM-1	4.50	93161725	3FPDB2-TE5	57
				5	JM-1	5.13	93161732	5FPDB2-TE5	60
				7-1/2	JM-2	5.81	93161751	75FPDB2-TE5	82
				10	JM-2	6.44	93161757	10FPDB2-TE5	148
				15	JM-2	7.25	93162052	15FPDC2-TE5	229
				20	JM-3	7.94	93162070	20FPDC2-TE5	338

*** Refer to motor specification section for more information.*

PERFORMANCE

DC4

Basic Model	PEI_{CL} Number
DC4	0.97



ORDER INFO

DC4

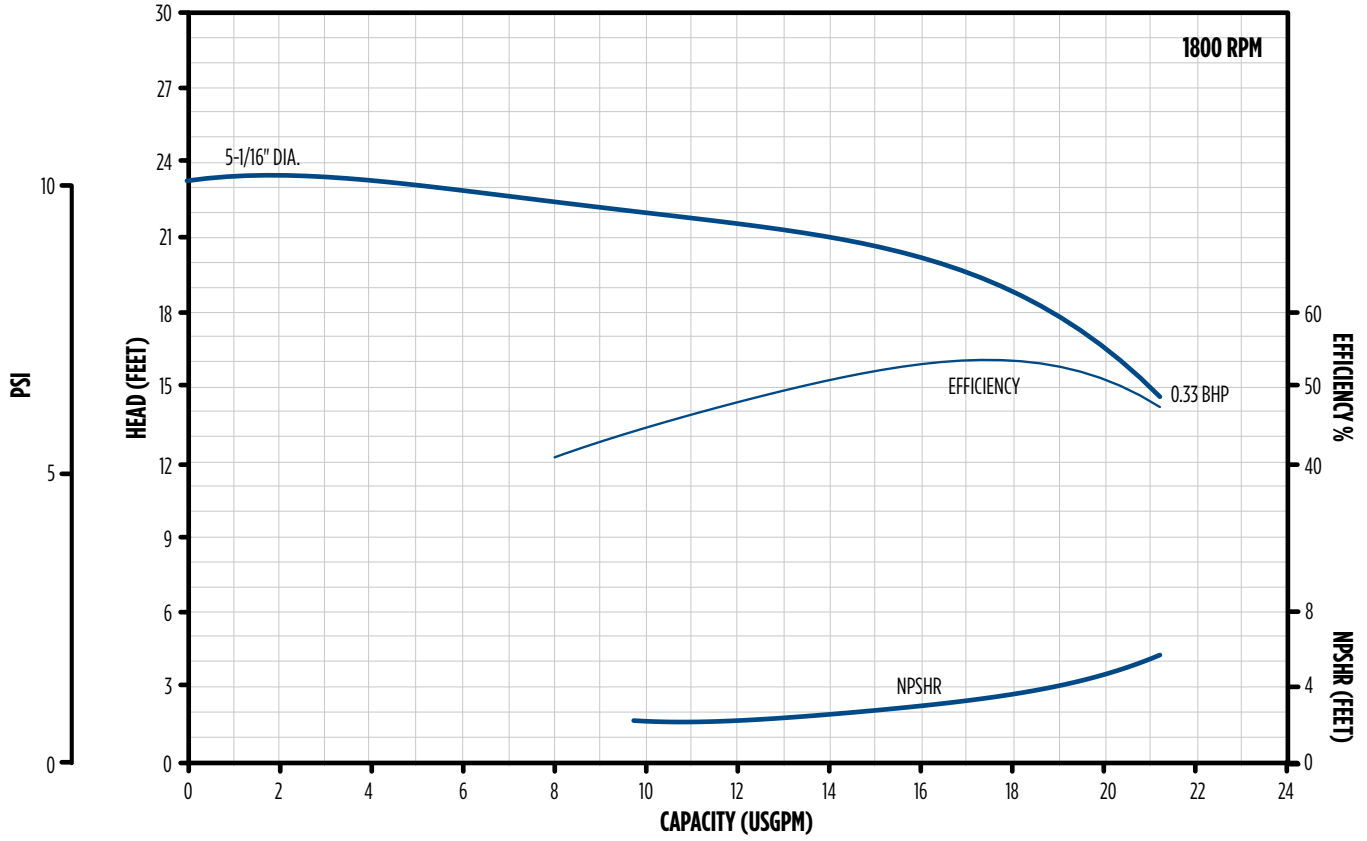
Series	Enclosure	PH	Volts	HP	Motor Fit Code**	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DC4 4 x 4 NPT 3600 RPM	ODP	3	208-230/460	20	JM-3	7.03	93167710	20FPDC4-T	312
				25	JM-3	7.47	93167728	25FPDC4-T	325
				30	JM-4	7.88	93167736	30FPDC4-T	389
				40	JM-4	8.44	93167744	40FPDC4-T	433
				50	JM-4	9.03	93167785	50FPDC4-T	593
	TEFC	3	208-230/460	20	JM-3	7.03	93168710	20FPDC4-TE	407
				25	JM-4	7.47	93168729	25FPDC4-TE	386
				30	JM-4	7.88	93168736	30FPDC4-TE	488
				40	JM-4	8.44	93168744	40FPDC4-TE	523
				50	JM-4	9.03	93168785	50FPDC4-TE	742
			575	20	JM-3	7.03	93168711	20FPDC4-TE5	407
				25	JM-4	7.47	93168730	25FPDC4-TE5	386
				30	JM-4	7.88	93168737	30FPDC4-TE5	488
				40	JM-4	8.44	93168745	40FPDC4-TE5	523
				50	JM-4	9.03	93168786	50FPDC4-TE5	742

*** Refer to motor specification section for more information.*

PERFORMANCE

DAL1A

Basic Model	PEI_{CL} Number
DAL1A	N/A



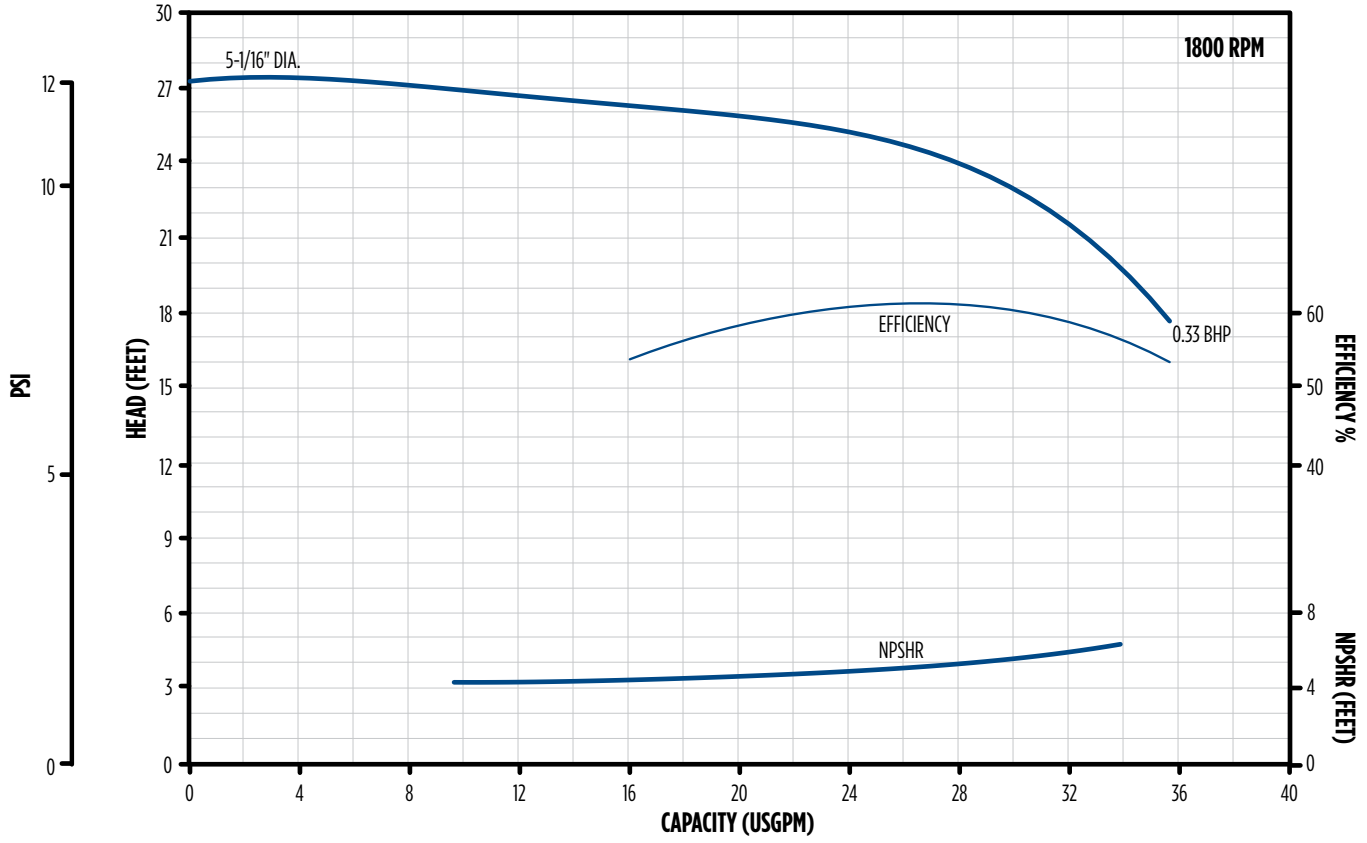
Series	Enclosure	PH	Volts	HP	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DAL1A 1.25 x 1 NPT 1800 RPM	TEFC	1	115/230	1/3	5.06	93162046	3FPDAL1A-SE	37
		3	230/460	1/3	5.06	93162087	3FPDAL1A-TE	37

DAL1A Series are assembled with 56C frame motors. Refer to motor specification section for more information.

PERFORMANCE

DAL1B

Basic Model	PEI_{CL} Number
DAL1B	N/A



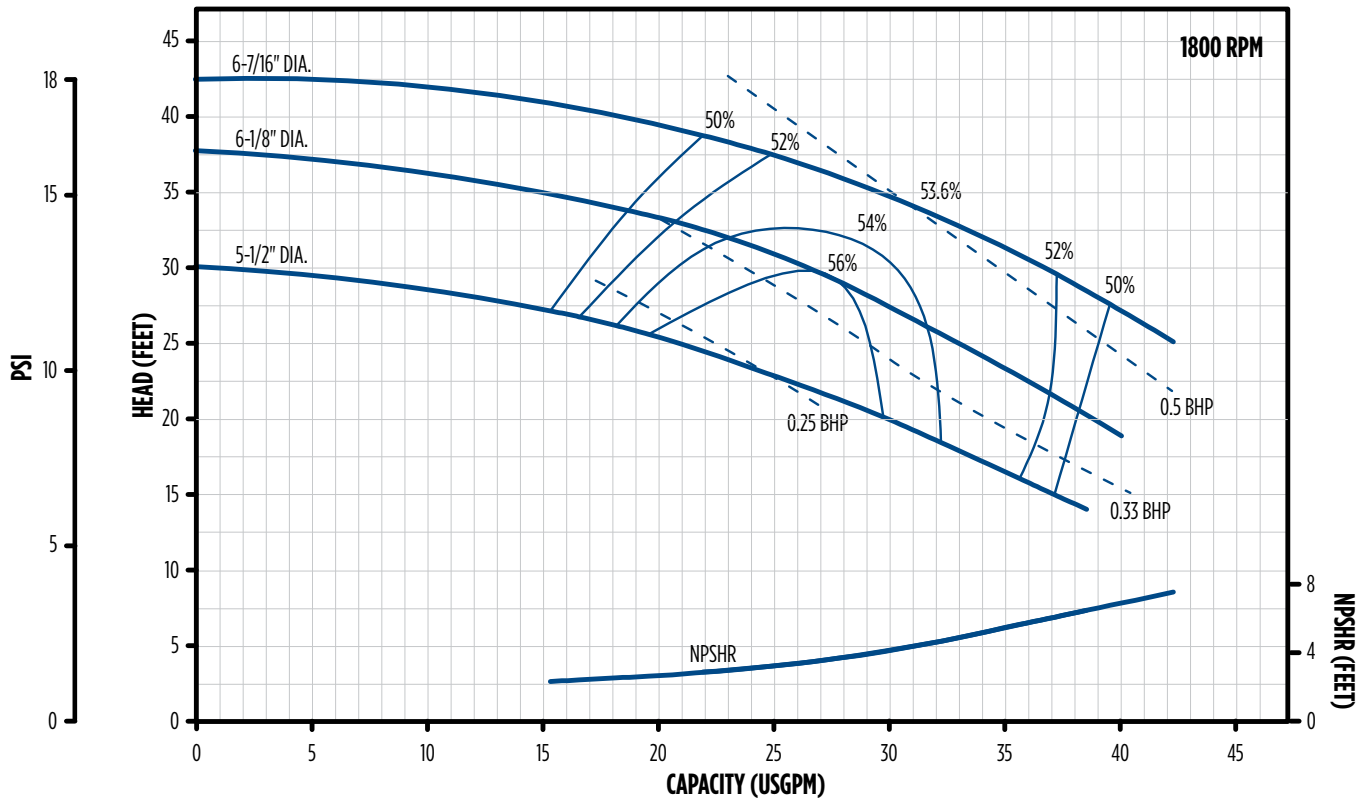
Series	Enclosure	PH	Volts	HP	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DAL1B 1.25 x 1 NPT 1800 RPM	TEFC	1	115/230	1/3	5.06	93162178	3FPDAL1B-SE	48
		3	230/460	1/3	5.06	93162228	3FPDAL1B-TE	48

DAL1B Series are assembled with 56C frame motors. Refer to motor specification section for more information.

PERFORMANCE

DBL1

Basic Model	PEI_{CL} Number
DBL1	N/A



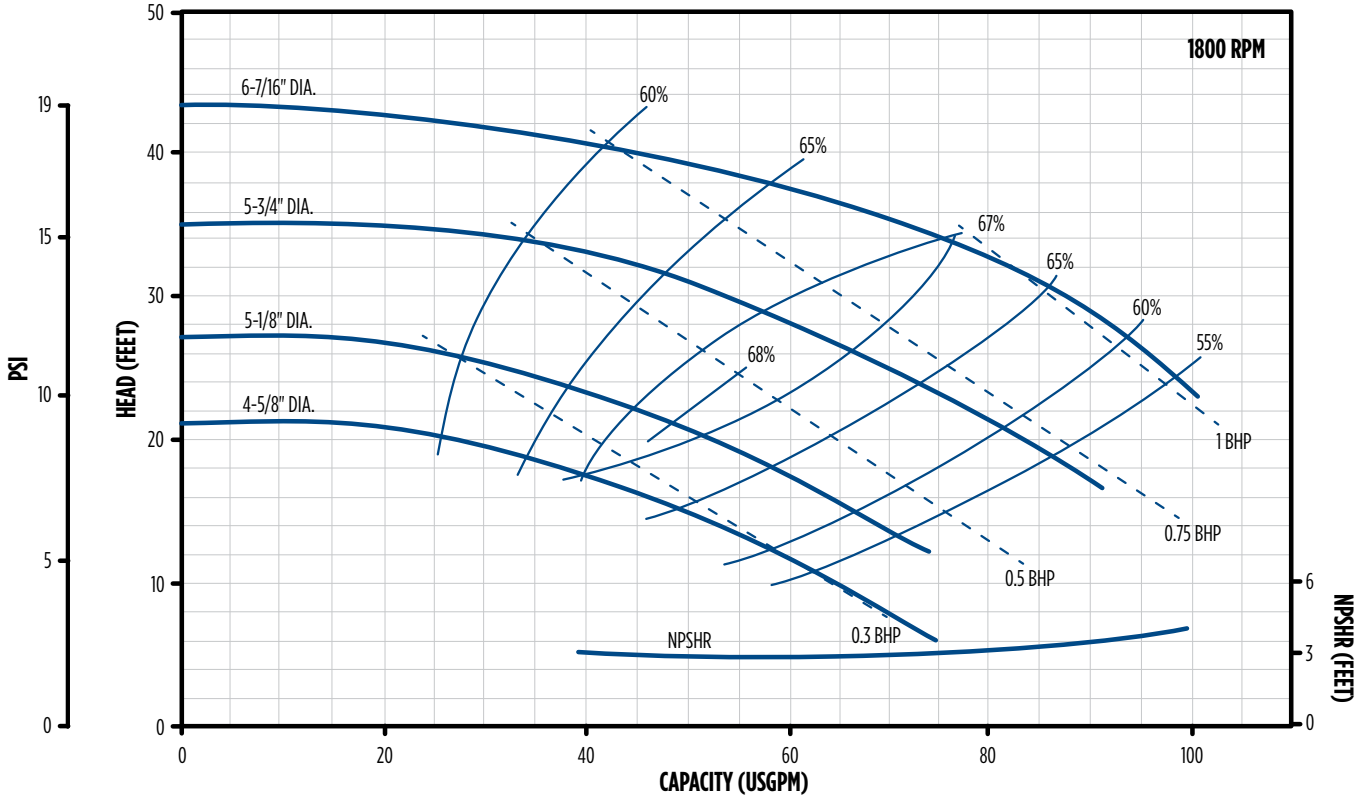
Series	Enclosure	PH	Volts	HP	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DBL1 1.5 x 1 NPT 1800 RPM	TEFC	1	115/230	1/3	5.50	93162319	3FPDBL1-SE	47
				1/2	6.13	93162327	5FPDBL1-SE	52
				3/4	6.44	93162335	7FPDBL1-SE	58
		3	230/460	1/3	5.50	93162376	3FPDBL1-TE	58
				1/2	6.13	93162384	5FPDBL1-TE	56
				3/4	6.44	93162392	7FPDBL1-TE	60

DBL1 Series are assembled with 56C frame motors. Refer to motor specification section for more information.

PERFORMANCE

DBL1-1/2

Basic Model	PEI_{CL} Number
DBL1-1/2	0.90



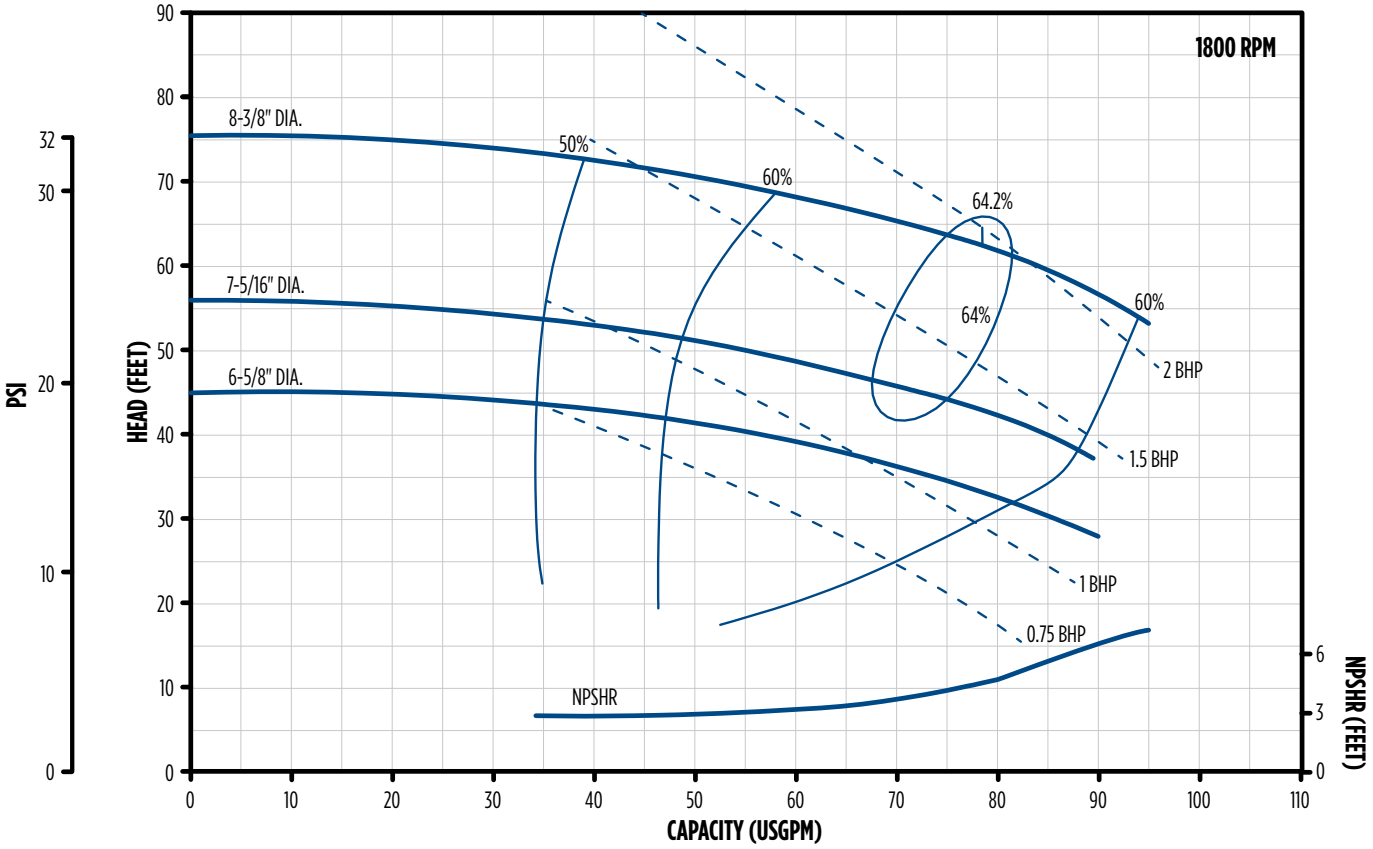
Series	Enclosure	PH	Volts	HP	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DBL1-1/2 2 x 1.5 NPT 1800 RPM	TEFC	1	115/230	1/3	4.63	93162483	3FPDBL1-1/2-SE	48
				1/2	5.13	93162492	5FPDBL1-1/2-SE	53
				3/4	5.75	93162509	7FPDBL1-1/2-SE	59
				1	6.44	93162517	1FPDBL1-1/2-SE	66
		3	230/460	1/3	4.63	93162541	3FPBDL1-1/2-TE	59
				1/2	5.13	93162559	5FPDBL1-1/2-TE	57
				3/4	5.75	93162566	7FPDBL1-1/2-TE	61
				1	6.44	93162574	1FPDBL1-1/2-TE	62

DBL1-1/2 Series are assembled with 56C frame motors. Refer to motor specification section for more information.

PERFORMANCE

DCL1-1/2

Basic Model	PEI_{CL} Number
DCL1-1/2	0.94



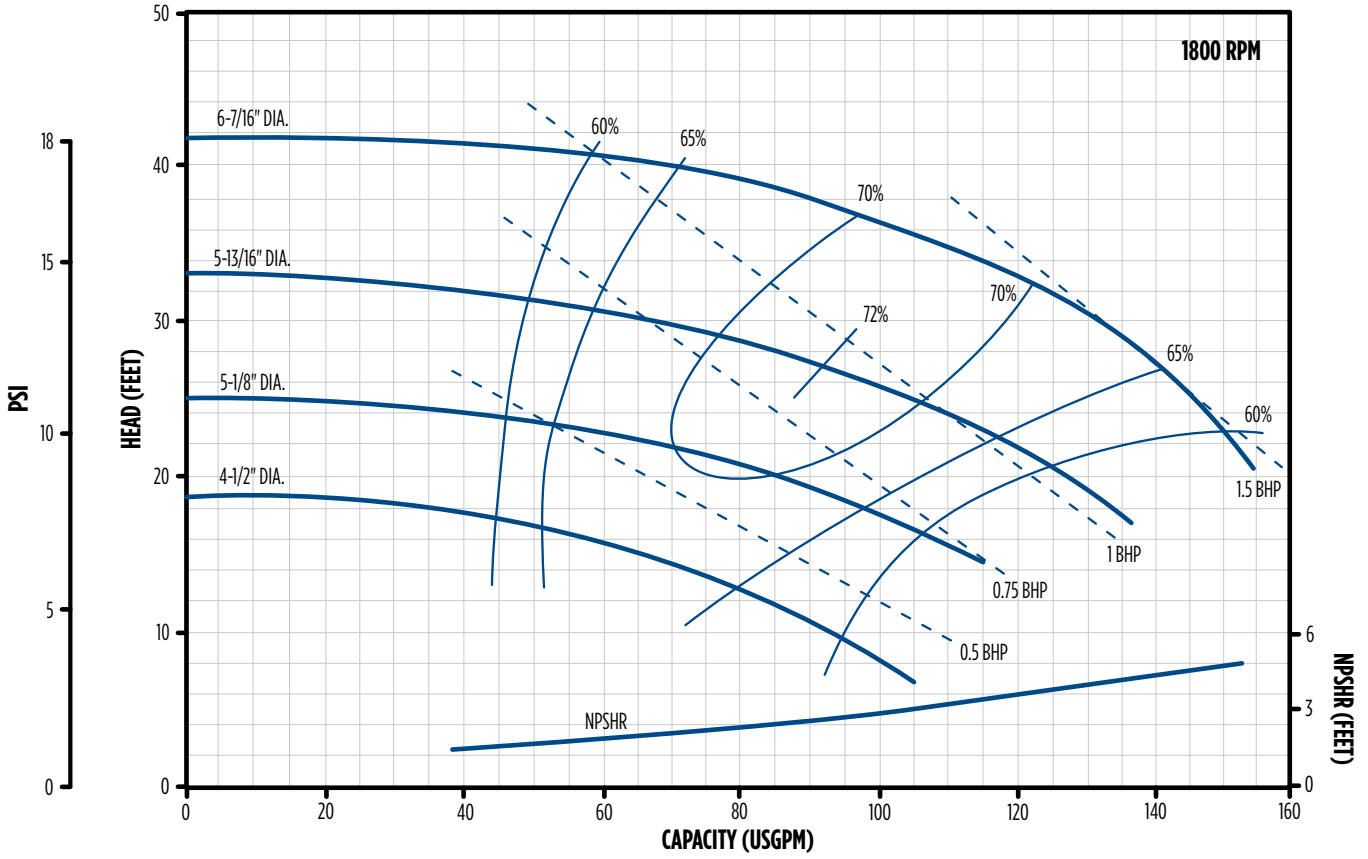
Series	Enclosure	PH	Volts	HP	Motor Fit Code**	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DCL1-1/2 2 x 1.5 NPT 1800 RPM	TEFC	3	230/460	1	JM-1	6.63	93162889	1FPDCL1-1/2-TE	83
				1-1/2	JM-1	7.31	93162897	15FPDCL1-1/2-TE	87
				2	JM-1	8.38	93162905	2FPDCL1-1/2-TE	93

*** Refer to motor specifications section for more information.*

PERFORMANCE

DBL2

Basic Model	PEI_{CL} Number
DBL2	0.91



Series	Enclosure	PH	Volts	HP	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DBL2 3 x 2 NPT 1800 RPM	TEFC	1	115/230	1/2	4.50	93162674	5FPDBL2-SE	58
				3/4	5.13	93162681	7FPDBL2-SE	64
				1	5.81	93162699	1FPDBL2-SE	71
				1-1/2	6.44	93163150	15FPDBL2-SE	79
		3	230/460	1/2	4.50	93162724	5FPDBL2-TE	62
				3/4	5.13	93162731	7FPDBL2-TE	66
				1	5.81	93162749	1FPDBL2-TE	67
				1-1/2	6.44	93162756	15FPDBL2-TE	73

DBL2 Series are assembled with 56C frame motors. Refer to motor specification section for more information.

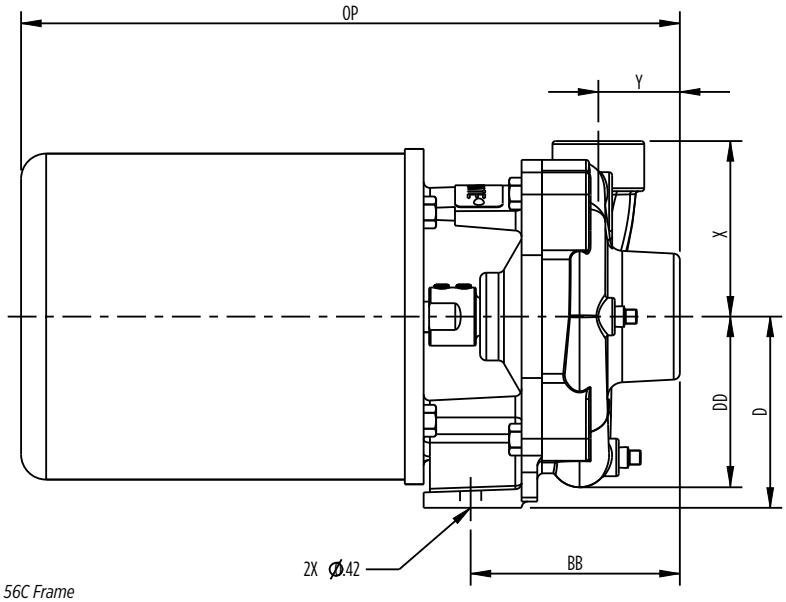
CENTRIFUGAL PUMPS

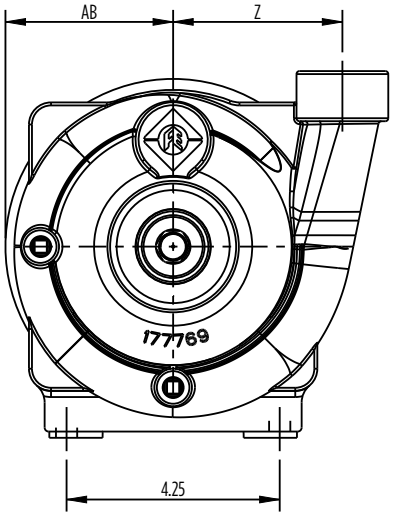
CLOSE-COUPLED D-SERIES

MENU

DIMENSIONS

DA 56C FRAME





56C Frame

Series	Suc x Dis. (NPT)	RPM	ENCL	Order Number	Model Description	HP	PH	D	X	Y	Z	AB	BB	DD	OP
DA1A	1-1/4" x 1"	3600	ODP	93160020	5FPDA1A-S	1/2	1	3.81	3.50	1.63	3.38	n/a	4.17	3.40	15.92
				93160061	5FPDA1A-T	1/2	3								13.72
				93160038	7FPDA1A-S	3/4	1								16.32
				93160079	7FPDA1A-T	3/4	3								14.22
				93160046	1FPDA1A-S	1	1								16.92
				93160087	1FPDA1A-T	1	3								14.47
			TEFC	93161020	5FPDA1A-SE	1.5	1	3.81	3.50	1.63	3.38	5.31	4.17	3.40	15.26
				93161061	5FPDA1A-TE	1.5	3					6.00			14.23
				93161038	7FPDA1A-SE	1	1					5.31			15.51
				93161061	5FPDA1A-TE	1	3					6.00			16.48
				93161046	1FPDA1A-SE	1.5	1					5.31			16.01
				93161087	1FPDA1A-TE	1.5	3					5.72			15.73
DAL1A	1-1/4" x 1"	1800	TEFC	93162046	3FPDAL1A-SE	1/3	1	3.81	3.5	1.63	3.38	5.19	4.17	3.40	16.83
				93162087	3FPDAL1A-TE	1/3	3					5.74			16.54
DA1B	1-1/4" x 1"	3600	ODP	93160137	5FPDA1B-S	1/2	1	3.81	3.50	1.63	3.38	n/a	4.17	3.40	15.92
				93160186	5FPDA1B-T	1/2	3								13.72
				93160145	7FPDA1B-S	3/4	1								16.32
				93160194	7FPDA1B-T	3/4	3								14.22
				93160152	1FPDA1B-S	1	1								16.92
				93160202	1FPDA1B-T	1	3								14.47
				93160160	15FPDA1B-S	1.5	1								17.42
				93160210	15FPDA1B-T	1.5	3								14.25
				93160178	2FPDA1B-S	2	1								15.79
				93160228	2FPDA1B-T	2	3								14.76
			TEFC	93161137	5FPDA1B-SE	3/4	1	3.81	3.50	1.63	3.38	5.31	4.17	3.40	15.26
				93161186	5FPDA1B-TE	3/4	3					6.00			14.23
				93161145	7FPDA1B-SE	1	1					5.31			15.51
				93161194	7FPDA1B-TE	1	3					6.00			16.48
				93161152	1FPDA1B-SE	1.5	1					5.31			16.01
				93161202	1FPDA1B-TE	1.5	3					5.72			15.73
				93161160	15FPDA1B-SE	2	1					5.72			16.66
				93161210	15FPDA1B-TE	2	3					5.75			16.65
				93161178	2FPDA1B-SE	3	1					5.76			17.52
				93161228	2FPDA1B-TE	3	3					5.74			17.51
DAL1B	1-1/4" x 1"	1800	TEFC	93162178	3FPDAL1B-SE	1/3	1	3.81	3.50	1.63	3.38	5.19	4.17	3.40	16.83
				93162087	3FPADL1B-TE	1/3	3					5.74			16.54

CENTRIFUGAL PUMPS

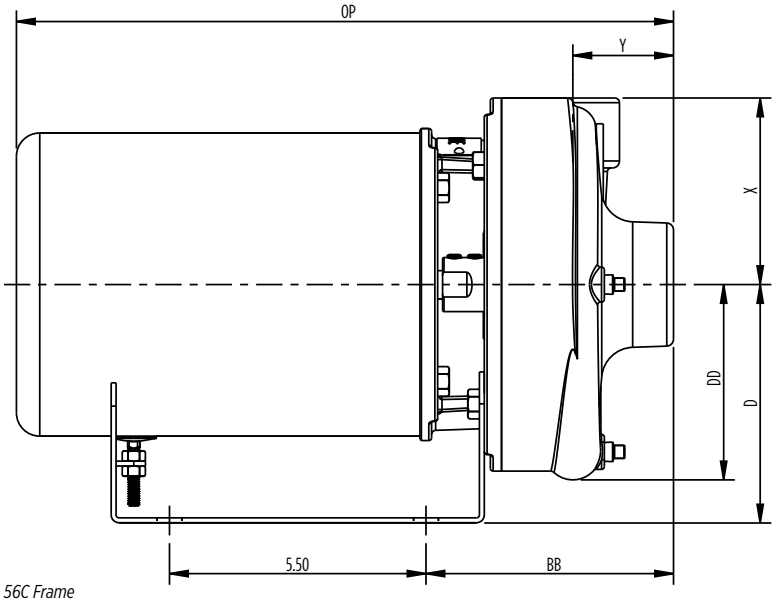
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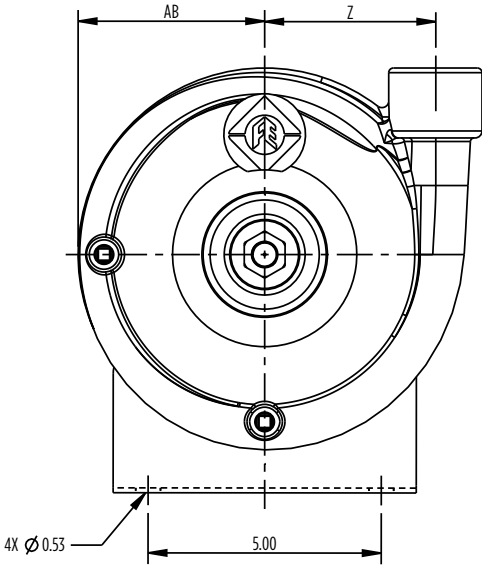
MENU

FPS

DIMENSIONS

DB 56C FRAME





56C Frame

Series	Suc x Dis. (NPT)	RPM	ENCL	Order Number	Model Description	HP	PH	D	X	Y	Z	AB	BB	DD	OP
DB1	1-1/2" x 1"	3600	ODP	93160285	7FPDB1-S	3/4	1	5.11	4.00	2.16	3.66	n/a	5.31	4.19	16.28
				93160343	7FPDB1-T	3/4	3								14.18
				93160293	1FPDB1-S	1	1								16.88
				93160350	1FPDB1-T	1	3								14.43
				93160301	15FPDB1-S	1.5	1								17.38
				93160368	15FPDB1-T	1.5	3								14.21
				93160319	2FPDB1-S	2	1								15.75
				93160376	2FPDB1-T	2	3								14.72
			TEFC	93161285	7FPDB1-SE	1	1					5.31			15.47
				93161343	7FPDB1-TE	1	3					6.00			16.44
				93161293	1FPDB1-SE	1.5	1					5.31			15.97
				93161350	1FPDB1-TE	1.5	3					6.00			15.69
				93161301	15FPDB1-SE	2	1					5.72			16.62
				93161368	15FPDB1-TE	2	3					5.75			16.61
				93161319	2FPDB1-SE	3	1					5.76			17.48
				93161376	2FPDB1-TE	3	3					5.74			17.47
DBL1	1-1/2" x 1"	1800	TEFC	93162319	3FPDBL1-SE	1/3	1	5.11	4.00	2.16	3.66	5.19	5.31	4.19	14.73
				93162376	3FPDBL1-TE	1/3	3					5.74			14.44
				93162327	5FPDBL1-SE	1/2	1					5.19			15.38
				93162384	5FPDBL1-TE	1/2	3					5.23			15.61
				93162335	7FPDBL1-SE	3/4	1					5.18			15.85
				93162392	7FPDBL1-TE	3/4	3					5.23			15.61
DB1-1/2	2" x 1-1/2"	3600	ODP	93160467	1FPDB1-1/2-S	1	1	5.11	4.50	2.37	3.91	n/a	5.37	4.53	16.94
				93160525	1FPDB1-1/2-T	1	3								14.49
				93160475	15FPDB1-1/2-S	1.5	1								17.44
				93160533	15FPDB1-1/2-T	1.5	3								14.27
				93160483	2FPDB1-1/2-S	2	1								15.81
				93160541	2FPDB1-1/2-T	2	3								14.78
			TEFC	93161467	1FPDB1-1/2-SE	1.5	1					5.31			16.03
				93161525	1FPDB1-1/2-TE	1.5	3					5.72			15.75
				93161475	15FPDB1-1/2-SE	2	1					5.72			16.68
				93161533	15FPDB1-1/2-TE	2	3					5.75			16.67
				93161483	2FPDB1-1/2-SE	3	1					5.76			17.54
				93161541	2FPDB1-1/2-TE	3	3					5.74			17.53

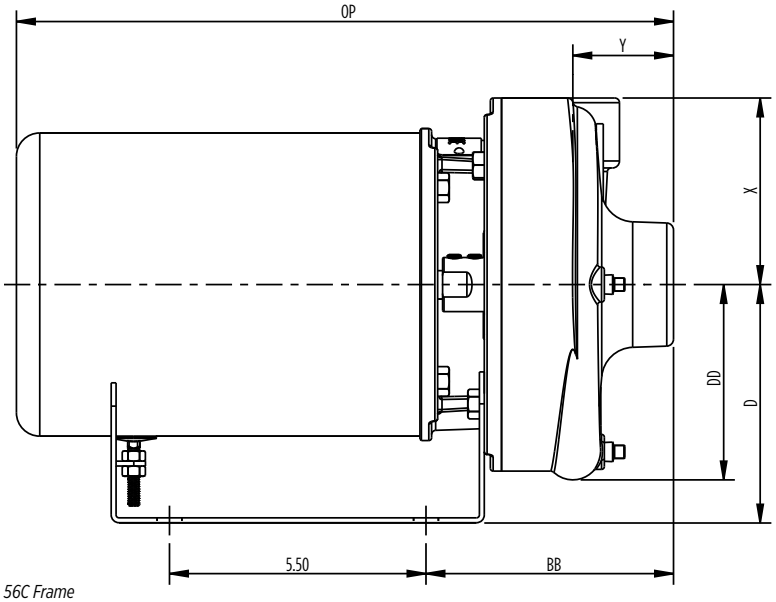
CENTRIFUGAL PUMPS

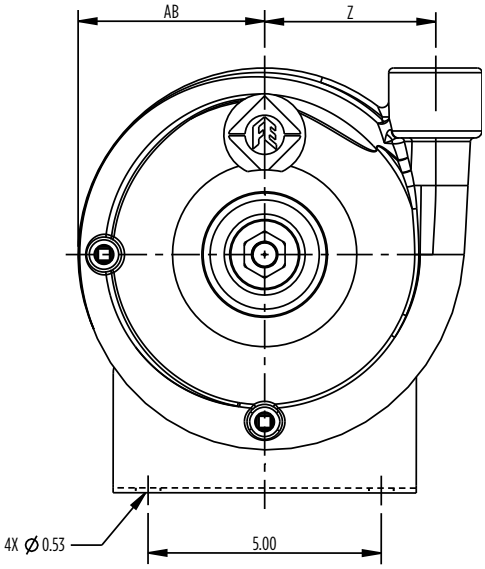
CLOSE-COUPLED D-SERIES

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DIMENSIONS

DB 56C FRAME



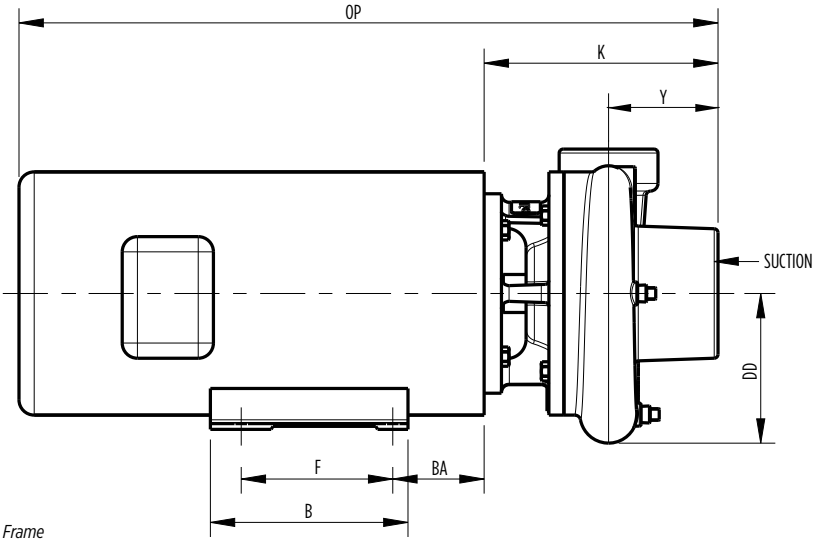


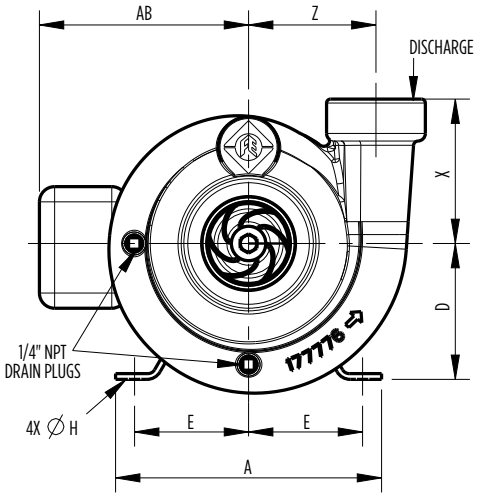
56C Frame

Series	Suc x Dis. (NPT)	RPM	ENCL	Order Number	Model Description	HP	PH	D	X	Y	Z	AB	BB	DD	OP
DBL1-1/2	2" x 1-1/2"	1800	TEFC	93162483	3FPDBL1-1/2-SE	0.33	1	5.11	4.50	2.37	3.91	5.19	5.37	4.53	14.79
				93162541	3FPDBL1-1/2-TE	0.33	3					5.74			14.50
				93162492	5FPDBL1-1/2-SE	0.5	1					5.19			15.41
				93162559	5FPDBL1-1/2-TE	0.5	3					5.23			15.67
				93162509	7FPDBL1-1/2-SE	0.75	1					5.18			15.91
				93162566	7FPDBL1-1/2-TE	0.75	3					5.23			15.67
				93162517	1FPDBL1-1/2-SE	1	1					5.74			16.69
				93162574	1FPDBL1-1/2-TE	1	3					5.23			15.67
DB2	3" x 2"	3600	ODP	93160657	15FPDB2-S	1.5	1	5.11	4.75	3.60	4.19	n/a	6.69	4.92	18.76
				93160707	15FPDB2-T	1.5	3								15.59
				93160665	2FPDB2-S	2	1								17.13
				93160715	2FPDB2-T	2	3								16.10
			TEFC	93161657	15FPDB2-SE	1.5	1	5.11	4.75	3.60	4.19	5.72	6.69	4.92	18.00
				93161707	15FPDB2-TE	1.5	3					5.75			17.99
				93161665	2FPDB2-SE	2	1					5.76			18.86
				93161715	2FPDB2-TE	2	3					5.74			18.85
DBL2	3" x 2"	1800	TEFC	93162674	5FPDBL2-SE	0.5	1	5.11	4.75	3.60	4.19	5.19	6.69	4.92	16.76
				93162724	5FPDBL2-TE	0.5	3					5.23			16.99
				93162681	7FPDBL2-SE	0.75	1					5.18			17.23
				93162731	7FPDBL2-TE	0.75	3					5.23			16.99
				93162699	1FPDBL2-SE	1	1					5.74			18.01
				93162749	1FPDBL2-TE	1	3					5.23			16.99
				93163150	15FPDBL2-SE	1.5	1					5.75			18.88
				93162756	15FPDBL2-TE	1.5	3					5.23			27.99

DIMENSIONS

DB 145-184JM FRAME





JM Frame

Series	Suc x Dis. (NPT)	RPM	ENCL	Order Number	Model Description	HP	PH	A	B	D	E	F	H	K	X	Y	Z	AB	BA	DD	OP
DB1	1-1/2" x 1"	3600	ODP	93160328	3FPDB1-S	3	1	8.75	6.50	4.50	3.75	5.50	0.44	6.31	4.00	2.16	3.66	n/a	3.63	4.19	18.18
				93160385	3FPDB1-T	3	3	6.50	6.50	3.50	2.75	5.00	0.34	6.31	4.00	2.16	3.66	n/a	2.75	4.19	17.44
				93160335	5FPDB1-S	5	1	8.75	6.50	4.50	3.75	5.50	0.44	6.31	4.00	2.16	3.66	n/a	3.63	4.19	19.18
				93160392	5FPDB1-T	5	3	8.75	6.50	4.50	3.75	4.50	0.41	6.31	4.00	2.16	3.66	6.88	3.63	4.19	19.5
			TEFC	93161328	3FPDB1-SE	3	1	6.54	6.50	3.50	2.75	5.00	0.34	6.31	4.00	2.16	3.66	5.87	2.75	4.19	19.74
				93161385	3FPDB1-TE	3	3	8.66	5.95	3.50	3.75	4.50	0.41	6.31	4.00	2.16	3.66	7.57	2.75	4.19	19.47
				93161335	5FPDB1-SE	5	1	8.63	6.50	4.50	3.75	5.50	0.45	6.31	4.00	2.16	3.66	6.87	3.50	4.19	21.61
				93161392	5FPDB1-TE	5	3	8.66	6.97	4.50	3.75	5.50	0.41	6.31	4.00	2.16	3.66	7.57	2.75	4.19	19.47
DB1-1/2	2" x 1-1/2"	3600	ODP	93160492	3FPDB1-1/2-S	3	1	8.75	6.50	4.50	3.75	5.50	0.44	6.38	4.50	2.37	3.91	n/a	3.63	4.53	18.25
				93160559	3FPDB1-1/2-T	3	3	6.50	6.50	3.50	2.75	5.00	0.34	6.38	4.50	2.37	3.91	n/a	2.75	4.53	17.51
				93160509	5FPDB1-1/2-S	5	1	8.75	6.50	4.50	3.75	5.50	0.44	6.38	4.50	2.37	3.91	n/a	3.63	4.53	19.25
				93160566	5FPDB1-1/2-T	5	3	8.75	6.50	4.50	3.75	4.50	0.41	6.38	4.50	2.37	3.91	6.88	3.63	4.53	19.57
				93160574	75FPDB1-1/2-T	7.5	3	8.75	6.50	4.50	3.75	5.50	0.41	6.38	4.50	2.37	3.91	6.88	3.63	4.53	19.57
			TEFC	93161492	3FPDB1-1/2-SE	3	1	6.54	6.50	3.50	2.75	5.00	0.34	6.38	4.50	2.37	3.91	5.87	2.75	4.53	19.81
				93161559	3FPDB1-1/2-TE	3	3	8.66	5.95	3.50	3.75	4.50	0.41	6.38	4.50	2.37	3.91	7.57	2.75	4.53	19.54
				93161509	5FPDB1-1/2-SE	5	1	8.63	6.50	4.50	3.75	5.50	0.45	6.38	4.50	2.37	3.91	6.87	3.50	4.53	21.68
				93161566	5FPDB1-1/2-TE	5	3	8.66	6.97	4.50	3.75	5.50	0.41	6.38	4.50	2.37	3.91	7.57	2.75	4.53	19.54
				93161574	75FPDB1-1/2-TE	7.5	3	8.63	6.50	4.50	3.75	5.50	0.41	6.38	4.50	2.37	3.91	6.87	3.50	4.53	21.69
DC1-1/2	2" x 1-1/2"	3600	ODP	93160830	3FPDC1-1/2-S	3	1	8.75	6.50	4.50	3.75	5.50	0.44	6.45	5.63	2.41	5.19	n/a	3.63	5.81	18.32
				93160863	3FPDC1-1/2-T	3	3	6.50	6.50	3.50	2.75	5.00	0.34	6.45	5.63	2.41	5.19	n/a	2.75	5.81	17.58
				93160848	5FPDC1-1/2-S	5	1	8.75	6.50	4.50	3.75	5.50	0.41	6.45	5.63	2.41	5.19	6.88	3.63	5.81	18.23
				93160871	5FPDC1-1/2-T	5	3	8.75	6.50	4.50	3.75	4.50	0.41	6.45	5.63	2.41	5.19	6.88	3.63	5.81	19.64
				93160889	75FPDC1-1/2-T	7.5	3	8.75	6.50	4.50	3.75	5.50	0.41	6.45	5.63	2.41	5.19	6.88	3.63	5.81	19.64
			TEFC	93161830	3FPDC1-1/2-SE	3	1	6.54	6.50	3.50	2.75	5.00	0.34	6.45	5.63	2.41	5.19	5.87	2.75	5.81	19.88
				93161863	3FPDC1-1/2-TE	3	3	8.66	5.95	4.50	3.75	4.50	0.41	6.45	5.63	2.41	5.19	7.57	2.75	5.81	19.61
				93161848	5FPDC1-1/2-SE	5	1	8.63	6.50	4.50	3.75	5.50	0.45	6.45	5.63	2.41	5.19	6.87	3.50	5.81	21.75
				93161871	5FPDC1-1/2-TE	5	3	8.66	6.97	4.50	3.75	5.50	0.41	6.45	5.63	2.41	5.19	7.57	2.75	5.81	19.61
				93161889	75FPDC1-1/2-TE	7.5	3	8.63	6.50	4.50	3.75	5.50	0.41	6.45	5.63	2.41	5.19	6.87	3.50	5.81	21.76
DCL1-1/2	2" x 1-1/2"	1800	TEFC	93162889	1FPDCL1-1/2-TE	1	3	6.50	5.94	3.50	2.75	5.00	0.34	6.45	5.63	2.41	5.19	5.73	2.88	5.81	17.63
				93162897	15FPDCL1-1/2-TE	1.5	3	6.50	5.94	3.50	2.75	5.00	0.34	6.45	5.63	2.41	5.19	5.73	2.88	5.81	17.63
				93162905	2FPDCL1-1/2-TE	2	3	6.50	5.94	3.50	2.75	5.00	0.34	7.69	4.75	3.60	5.19	5.73	2.88	5.81	17.63
DB2	3" x 2"	3600	ODP	93160674	3FPDB2-S	3	1	8.75	6.50	4.50	3.75	5.50	0.44	7.69	4.75	3.60	5.19	n/a	3.63	4.92	19.56
				93160724	3FPDB2-T	3	3	6.50	6.50	3.50	2.75	5.00	0.34	7.69	4.75	3.60	5.19	n/a	2.75	4.92	18.82
				93160681	5FPDB2-S	5	1	8.75	6.50	4.50	3.75	5.50	0.44	7.69	4.75	3.60	5.19	n/a	3.63	4.92	20.56
				93160731	5FPDB2-T	5	3	8.75	6.50	4.50	3.75	4.50	0.41	7.69	4.75	3.60	5.19	6.88	3.63	4.92	20.88
				93160749	75FPDB2-T	7.5	3	8.75	6.50	4.50	3.75	5.50	0.41	7.69	4.75	3.60	5.19	6.88	3.63	4.92	20.88
			TEFC	93161674	3FPDB2-SE	3	1	6.54	6.50	3.50	2.75	5.00	0.34	7.69	4.75	3.60	5.19	5.87	2.75	4.92	21.12
				93161724	3FPDB2-TE	3	3	8.66	5.95	3.50	3.75	4.50	0.41	7.69	4.75	3.60	5.19	7.57	2.75	4.92	20.85
				93161681	5FPDB2-SE	5	1	8.63	6.50	4.50	3.75	5.50	0.45	7.69	4.75	3.60	5.19	6.87	3.50	4.92	22.99
				93161731	5FPDB2-TE	5	3	8.66	6.97	4.50	3.75	5.50	0.41	7.69	4.75	3.60	5.19	7.57	2.75	4.92	20.85
				93161749	75FPDB2-TE	7.5	3	8.63	6.50	4.50	3.75	5.50	0.41	7.69	4.75	3.60	5.19	6.87	3.50	4.92	23.00

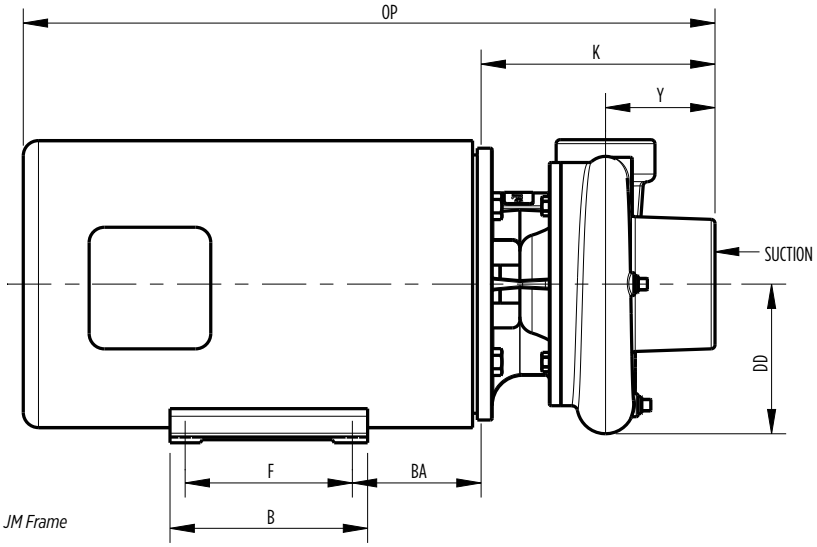
CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

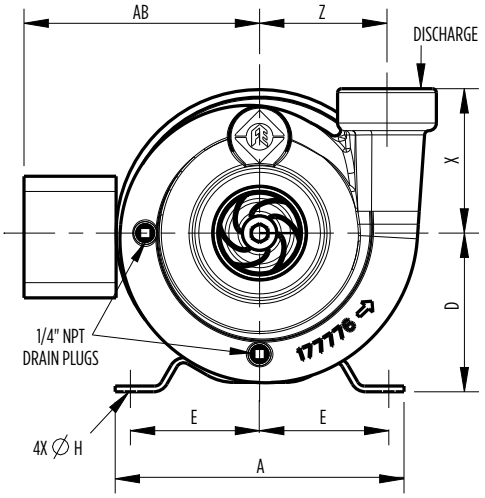
MENU

DIMENSIONS

DB 213-324JM FRAME



JM Frame



Series	Suc x Dis. (NPT)	RPM	ENCL	Order Number	Model Description	HP	PH	A	B	D	E	F	H	K	X	Y	Z	AB	BA	DD	OP
DB1-1/2	2" x 1-1/2"	3600	ODP	93160518	75FPDB1-1/2-S	7.5	1	9.50	8.00	5.25	4.25	7.00	0.43	6.38	4.50	2.37	3.91	7.93	4.50	4.53	20.32
			TEFC	93161517	75FPDB1-1/2-SE	7.5	1	9.50	8.00	5.25	4.25	7.00	0.41	6.38	4.50	2.37	3.91	8.05	4.50	4.53	17.64
				93161575	75FPDB1-1/2-TE	7.5	3	9.76	8.86	5.25	4.25	7.00	0.41	6.38	4.50	2.37	3.91	8.58	3.50	4.53	22.30
DC1-1/2	2" x 1-1/2"	3600	ODP	93160856	75FPDC1-1/2-S	7.5	1	9.50	8.00	5.25	4.25	7.00	0.43	6.45	5.63	2.41	5.19	7.93	4.50	5.81	20.39
				93161168	10FPDC1-1/2-S	10	1	9.50	8.00	5.25	4.25	7.00	0.44	6.45	5.63	2.41	5.19	12.78	4.25	5.81	23.37
				93160897	10FPDC1-1/2-T	10	3	9.50	6.50	5.25	4.25	5.50	0.41	6.45	5.63	2.41	5.19	7.60	4.25	5.81	19.95
				93160905	15FPDC1-1/2-T	15	3	9.50	8.00	5.25	4.25	7.00	0.41	6.45	5.63	2.41	5.19	8.84	4.25	5.81	21.45
			TEFC	93161855	75FPDC1-1/2-SE	7.5	1	9.50	8.00	5.25	4.25	7.00	0.41	6.45	5.63	2.41	5.19	8.05	4.50	5.81	17.71
				93161890	75FPDC1-1/2-TE	7.5	3	9.76	8.86	5.25	4.25	7.00	0.41	6.45	5.63	2.41	5.19	8.58	3.50	5.81	22.37
				93162168	10FPDC1-1/2-SE	10	1	9.76	8.86	5.25	4.25	7.00	0.41	6.45	5.63	2.41	5.19	8.07	3.50	5.81	22.60
				93161897	10FPDC1-1/2-TE	10	3	9.76	8.86	5.25	4.25	7.00	0.41	6.45	5.63	2.41	5.19	8.58	3.50	5.81	22.37
				93161905	15FPDC1-1/2-TE	15	3	9.76	8.86	5.25	4.25	7.00	0.41	6.45	5.63	2.41	5.19	8.58	3.50	5.81	22.37
DB2	3" x 2"	3600	ODP	93160700	75FPDB2-S	7.5	1	9.50	8.00	5.25	4.25	7.00	0.43	7.69	4.75	3.60	5.19	7.93	4.50	4.92	21.63
				93161150	10FPDB2-S	10	1	9.50	8.00	5.25	4.25	7.00	0.44	7.69	4.75	3.60	5.19	12.78	4.25	4.92	24.61
				93160756	10FPDB2-T	10	3	9.50	6.50	5.25	4.25	5.50	0.41	7.69	4.75	3.60	5.19	7.60	4.25	4.92	21.19
			TEFC	93161699	75FPDB2-SE	7.5	1	9.50	8.00	5.25	4.25	7.00	0.41	7.69	4.75	3.60	5.19	8.05	4.50	4.92	18.95
				93161750	75FPDB2-TE	7.5	3	9.76	8.86	5.25	4.25	7.00	0.41	7.69	4.75	3.60	5.19	8.58	3.50	4.92	23.61
				93162150	10FPDB2-SE	10	1	9.76	8.86	5.25	4.25	7.00	0.41	7.69	4.75	3.60	5.19	8.07	3.50	4.92	23.84
				93161756	10FPDB2-TE	10	3	9.76	8.86	5.25	4.25	7.00	0.41	7.69	4.75	3.60	5.19	8.58	3.50	4.92	23.61
DC2	3" x 2"	3600	ODP	93161051	15FPDC2-T	15	3	9.50	8.00	5.25	4.25	7.00	0.41	8.12	7.75	3.75	4.75	8.84	4.25	5.47	23.12
				93161069	20FPDC2-T	20	3	11.25	9.50	6.25	5.00	8.25	0.53	9.05	7.75	3.75	4.75	10.10	4.75	5.47	28.36
			TEFC	93162051	15FPDC2-TE	15	3	9.76	8.86	5.25	4.25	7.00	0.41	8.12	7.75	3.75	4.75	8.58	3.50	5.47	24.04
				93162069	20FPDC2-TE	20	3	12.13	11.73	6.25	5.00	10.00	0.53	9.05	7.75	3.75	4.75	10.48	4.25	5.47	29.90
DC4	5" x 4"	3600	ODP	93167710	20FPDC4-T	20	3	11.25	9.50	6.25	5.00	8.25	0.53	9.80	8.87	4.84	6.45	10.82	4.75	7.65	29.11
				93167728	25FPDC4-T	25	3	11.25	11.25	6.25	5.00	10.00	0.53	9.80	8.87	4.84	6.45	10.82	4.75	7.65	29.74
				93167736	30FPDC4-T	30	3	13.50	12.94	7.00	5.50	9.50	0.53	9.80	8.87	4.84	6.45	11.75	4.75	7.65	30.30
				93167744	40FPDC4-T	40	3	13.50	12.94	7.00	5.50	11.00	0.53	8.66	8.75	3.71	6.45	11.75	4.75	7.65	30.30
				93167785	50FPDC4-T	50	3	14.04	13.50	8.00	6.25	12.00	0.66	8.66	8.75	3.71	6.45	13.20	5.25	7.65	31.49
			TEFC	93168710	20FPDC4-TE	20	3	11.50	11.73	6.25	5.00	10.00	0.53	9.80	8.87	4.84	6.45	10.48	4.25	7.65	30.78
				93168729	25FPDC4-TE	25	3	13.78	11.58	7.00	5.50	9.50	0.53	9.80	8.87	4.84	6.45	11.07	4.75	7.65	31.72
				93168736	30FPDC4-TE	30	3	13.78	13.07	7.00	5.50	11.00	0.53	9.80	8.87	4.84	6.45	11.07	4.75	7.65	33.25
				93168744	40FPDC4-TE	40	3	15.16	13.07	8.00	6.25	10.50	0.66	8.66	8.75	3.71	6.45	12.58	5.25	7.65	32.70
				93168785	50FPDC4-TE	50	3	15.16	14.57	8.00	6.25	12.00	0.66	8.66	8.75	3.71	6.45	12.58	5.25	7.65	34.20

MOTOR SPECIFICATIONS 56C

Enclosure	RPM	Phase	Volts	HP	F.L.A.	Frame	Wt. (lbs)	Order No.
ODP	3600	1	115/230	0.5	9.6/4.8	56C	20	106026007
				0.75	12.8/6.4	56C	22	106026008
				1	13.2/6.6	56C	21	106026009
				1.5	14.4/7.7	56C	27	106026010
				2	19.6/9.8	56C	32	106026011
			208-230	3	14-12.8	56C	41	106026012
		3	208-230/460	0.5	2.1-2.2/1.1	56C	19	106023018
				0.75	2.7-2.8/1.4	56C	15	106023019
				1	3.6-3.8/1.9	56C	17	106023020
				1.5	5.0-5.0/2.5	56C	24	106023021
				2	6.1-5.6/2.8	56C	34	106023022
				3	8.6-8.4/4.2	56C	35	106023023
TEFC	3600	1	115/230	0.5	9.6/4.8	56C	29	VL3506
			115/208-230	0.75	10.0/5.2-5.0	56C	30	EC06
				1	12.8/6.6-6.4	56C	28	EC09
				1.5	16.6/9.0-9.3	56C	35	EC11
			115/230	2	9.6-9.0	56C	37	EC13
				3	13.7-13.0	56C	39	EC16B
		3	208-230/460	0.75	2.4-2.2/1.1	56C	27	U34S1ACR
				1	2.9-2.7/1.4	56C	30	U1P1DCR
				1.5	4.9-5.0/2.5	56C	32	T32P1ACR
				2	6.0-5.6/2.8	56C	35	T2P1ACR
				3	7.9-6.7/3.4	56C	40	T3P1ACR
			575	0.5	0.96	56C	21	VM3541-5
				0.75	1	56C	30	U34P1GCR
				1	1.1	56C	30	U1P1GCR
				1.5	1.6	56C	30	U32P1GFCR
				2	2	56C	30	U2P1GFCR
				3	2.8	56C	30	U3P1GFCR
	1800	1	115/208-230	0.33	6/3.6-3	56C	22	VL3501
				0.5	7.4/4.3-3.7	56C	27	VL3504
				0.75	8.4/5.4-4.2	56C	33	VL3507
				1	12.8/7-6.4	56C	40	VL3510
				1.5	12.4/6.8-6.2	56C	48	VL3514
		3	230/460	0.33	1.1/.55	56C	33	KENM3534
			208-230/460	0.5	1.68-1.54/.77	56C	31	VEM3538
				0.75	2.5-2.28/1.14	56C	35	VEM3542
				1	3.1-3/1.5	56C	36	VEM3546
				1.5	4.5-4.4/2.2	56C	42	VEM3554
				2	6.6-5.8/2.9	56C	46	VEM3558

MOTOR SPECIFICATIONS
JM Frame

Enclosure	RPM	Phase	Volts	HP	F.L.A.	Motor Fit Code	Frame	AK Fit	Shaft U	Wt. (lbs)	Order No.
ODP	3600	1	115/208-230	3	28/14.7-14.0	JM-1	182JM	4.5	0.875	69	JML1406T
			230	5	21	JM-1	184JM	4.5	0.875	81	JML1409T
				7.5	37	JM-2	213JM	8.5	0.875	116	JML1509T
				10	46	JM-2	215JM	8.5	0.875	141	JML1511T
		3	208-230/460	3	8.0-7.6/3.8	JM-1	145JM	4.5	0.875	49	EJMM3158T
				5	12.4-11.8/5.9	JM-1	182JM	4.5	0.875	64	EJMM3212T
				7.5	18.4-17.4/8.7	JM-1	184JM	4.5	0.875	78	EJMM3219T
				10	26-24/12	JM-2	213JM	8.5	0.875	120	EJMM3312T
				15	37.4-35.4/17.7	JM-2	215JM	8.5	0.875	131	EJMM3314T
				20	50-47/23.5	JM-3	254JM	8.5	1.250	185	EJMM2514T
				25	62-56/28	JM-3	256JM	8.5	1.250	207	EJMM2516T
				30	74-66/33	JM-4	284JM	12.5	1.250	309	EJMM2534T
				40	99-90/45	JM-4	286JM	12.5	1.250	321	EJMM2538T
			230/460	50	116/58	JM-4	324JM	12.5	1.250	421	EJMM2542T
				60	136/68	JM-4	326JM	12.5	1.250	478	EJMM2546T
			208-230/460	3	8.3-7.4/3.7	JM-1	145JM	4.5	0.875	35	DJ3P1DM
				5	13.8-12.5/6.2	JM-1	182JM	4.5	0.875	50	DJ5P1DM
				7.5	20.3-18.1/9.1	JM-1	184JM	4.5	0.875	60	DJ7P1DM
				10	27.1-24.3/12.2	JM-2	213JM	8.5	0.875	90	DJ10P1DM
				15	40-36/18	JM-2	215JM	8.5	0.875	105	DJ15P1DM
			230/460	20	46/23.1	JM-3	254JM	8.5	1.250	150	DJ20P1EM
				25	57/28.7	JM-3	256JM	8.5	1.250	160	DJ25P1EM
			208-230/460	30	79-68/34	JM-4	284JM	12.5	1.250	225	DJ30P1EM
				40	104-90/45	JM-4	286JM	12.5	1.250	250	DJ40P1EM
				50	130-117/59	JM-4	324JM	12.5	1.250	385	DJ50P1EM
				60	152-134/67	JM-4	326JM	12.5	1.250	460	DJ60P1EM

MOTOR FIT CODES WITH DIMENSIONS

Motor Fit Code	Flange Rabbet, AK	Shaft End Diameter, U	Shaft Length	Fits Motor Frame
56C	4.5	0.625	2.060	56C
JM-1	4.5	0.875	4.250	143-145-182-184
JM-2	8.5	0.875	4.250	213-215
JM-3	8.5	1.250	5.250	254-256
JM-4	12.5	1.250	5.250	284-286-324-326
JM-5	12.5	1.625	5.250	364-365

MOTOR SPECIFICATIONS
JM Frame

Enclosure	RPM	Phase	Volts	HP	F.L.A.	Motor Fit Code	Frame	AK Fit	Shaft U	Wt. (lbs)	Order No.
TEFC	3600	1	115/208-230	3	26.0/14.0-13.0	JM-1	145JM	4.5	0.875	62	JML3606T
			208-230	5	23.0-21.9	JM-1	184JM	4.5	0.875	92	JML3608T
				7.5	33.4-29.8	JM-2	215JM	8.5	0.875	143	37E309W579
				10	43.2-38.8	JM-2	215JM	8.5	0.875	155	37F838W578
			115/230	3	32.0/16.0	JM-1	184JM	4.5	0.875	82	UJ3C1P18M
			208-230	5	19.6	JM-1	184JM	4.5	0.875	80	UJ5C1K18M
				7.5	30.3	JM-2	215JM	8.5	0.875	133	UJ7C1K21M
				10	40	JM-2	215JM	8.5	0.875	210	UJ10C1K21M
		3	208-230/460	3	7.9-7.2/3.6	JM-1	145JM	4.5	0.875	54	EJMM3559T
			230/460	5	12.8-11.6/5.8	JM-1	184JM	4.5	0.875	79	EJMM3613T
				7.5	18.5-16.8/8.4	JM-1	184JM	4.5	0.875	101	EJMM3616T
				7.5	19-18/9	JM-2	213JM	8.5	0.875	125	EJMM3709T
			208-230/460	10	24.9-23.2/11.6	JM-2	215JM	8.5	0.875	130	EJMM3711T
				15	36.8-34/17	JM-2	215JM	8.5	0.875	169	EJMM3713T
				20	50-46/23	JM-3	254JM	8.5	1.250	281	EJMM4106T
				25	62-58/29	JM-4	284JM	12.5	1.250	351	EJMM4107T
			230/460	30	68/34	JM-4	284JM	12.5	1.250	406	EJMM4108T
			208-230/460	40	100-90/45	JM-4	286JM	12.5	1.250	487	EJMM4109T
				50	124-112/56	JM-4	324JM	12.5	1.250	590	EJMM4114T
				60	144-132/66	JM-4	326JM	12.5	1.250	624	12J043Y164G3
				5	13.4-12.2/6.1	JM-1	184JM	4.5	0.875	70	UJ5P1DM
				7.5	19.9-19/9.5	JM-1	184JM	4.5	0.875	70	UJ7P1DFM
				7.5	19.9-17.8/8.9	JM-2	213JM	8.5	0.875	105	UJ7P1DM
				10	26.4-23.5/11.7	JM-2	215JM	8.5	0.875	120	UJ10P1DM
				15	39-36/18	JM-2	215JM	8.5	0.875	120	UJ15P1DFM
				15	39-35/17.7	JM-3	254JM	8.5	1.250	180	UJ15P1DM
				20	51-46/23	JM-3	254JM	8.5	1.250	230	UJ20P1DM
				25	64-57/28.3	JM-3	256JM	8.5	1.250	230	UJ25P1DFM
				25	65-57/28.4	JM-4	284JM	12.5	1.250	280	UJ25P1DM
			575	3	2.9	JM-1	145JM	4.5	0.875	50	EJMM3559T-5
				5	4.7	JM-1	184JM	4.5	0.875	74	EJMM3613T-5
				7.5	6.8	JM-2	213JM	8.5	0.875	96	EJMM3616T-5
				10	9.5	JM-2	215JM	8.5	0.875	118	EJMM3711T-5
				15	13.4	JM-2	215JM	8.5	0.875	169	EJMM3713T-5
				20	17.7	JM-3	256JM	8.5	1.250	269	39-0000-0518
				25	23	JM-4	284JM	12.5	1.250	362	10-0003593
				30	27.3	JM-4	286JM	12.5	1.250	392	10-0003594
				40	35	JM-4	324JM	12.5	1.250	547	12-0003592
				50	44	JM-4	326JM	12.5	1.250	584	12-0003591
	1800	3	208-230/460	1	3.1-3/1.5	JM-1	143JM	4.5	0.875	40	EJMM3546T
				1.5	4.5-4.4/2.2	JM-1	145JM	4.5	0.875	44	EJMM3554T
			230/460	2	5.8/2.9	JM-1	145JM	4.5	0.875	50	EJMM3558T

MOTOR FIT CODES WITH DIMENSIONS

Motor Fit Code	Flange Rabbet, AK	Shaft End Diameter, U	Shaft Length	Fits Motor Frame
56C	4.5	0.625	2.060	56C
JM-1	4.5	0.875	4.250	143-145-182-184
JM-2	8.5	0.875	4.250	213-215
JM-3	8.5	1.250	5.250	254-256
JM-4	12.5	1.250	5.250	284-286-324-326
JM-5	12.5	1.625	5.250	364-365

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

FPS

PUMP END KITS

3600 RPM

Series	Seal Type	Frame	AK	Shaft Diameter	Motor Code	Order No.	Description	Kit Trim	Wt. (lbs)	HP	S.F.	Trim Required
DAIA 1 x 1.25 NPT	MECH	56C	4.5	0.625	56C	93167413R012	FPDA1A-K1	4.125	15	1/2	1.60	4.125
						93167413R013	FPDA1A-K1	4.688	15	3/4	1.50	4.688
						93167413R011	FPDA1A-K1	5.063	15	1	1.40	5.063
DAIB 1 x 1.25 NPT	MECH	56C	4.5	0.625	56C	93167413R025	5FPDA1B-K1	3.750	15	1/2	1.60	3.750
						93167413R024	7FPDA1B-K1	4.000	15	3/4	1.50	4.000
						93167413R023	1FPDA1B-K1	4.250	15	1	1.40	4.250
						93167413R022	15FPDA1B-K1	4.675	15	1-1/2	1.30	4.675
						93167413R021	2FPDA1B-K1	5.063	15	2	1.20	5.063
DB1 1 x 1.5 - 6 NPT	MECH	56C	4.5	0.625	56C	93167413R032	FPDB1-K1	6.125	25	3/4	1.50	4.250
										1	1.40	4.750
										1-1/2	1.30	5.188
										2	1.20	5.500
										3	1.15	6.125
		143-184JM	4.5	0.875	JM-1	93167413R053	FPDB1-K2	6.437	33	3	1.15	6.125
										5	1.15	6.440
DB1-1/2 1.5 x 2 - 6 NPT	MECH	56C	4.5	0.625	56C	93167413R072	FPDB1-1/2-K1	5.125	30	1	1.40	3.937
										1-1/2	1.30	4.312
										2	1.20	4.625
										3	1.15	5.125
		143-184JM	4.5	0.875	JM-1	93167413R083	FPDB1-1/2-K2	6.437	40	3	1.15	5.125
										5	1.15	5.750
										7-1/2	1.15	6.437
		213JM	8.5	0.875	JM-2	93167413R093	FPDB1-1/2-K3	6.437	45	7-1/2	1.15	6.437
DC1-1/2 1.5 x 2 - 8 NPT	MECH	143-184JM	4.5	0.875	JM-1	93167413R133	FPDC1-1/2-K2	5.813	45	3	1.15	5.063
										5	1.15	5.813
		184JM	4.5	0.875	JM-1	93167413R143	FPDC1-1/2-K2A	6.625	45	7-1/2	1.15	6.625
		213-215JM	8.5	0.875	JM-2	93167413R163	FPDC1-1/2-K3A	6.625	55	7-1/2	1.15	6.625
						93167413R173	FPDC1-1/2-K3	8.375	55	10	1.15	7.312
										15	1.15	8.375
DB2 2 x 3 - 8 NPT	MECH	56C	4.5	0.625	56C	93167413R102	FPDB2-K1	4.500	40	1-1/2	1.30	3.812
										2	1.20	4.000
										3	1.15	4.500
		143-184JM	4.5	0.875	JM-1	93167413R113	FPDB2-K2	5.812	50	3	1.15	4.500
										5	1.15	5.125
										7-1/2	1.15	5.812
		213-215JM	8.5	0.875	JM-2	93167413R123	FPDB2-K3	6.437	60	7-1/2	1.15	5.812
										10	1.15	6.437
DC2 2 x 3 - 8 NPT	MECH	213-215JM	8.5	0.875	JM-2	93167413R193	FPDC2-K3A	7.250	65	15	1.15	7.250
		254-256JM	8.5	1.25	JM-3	93167413R204	FPDC2-K4	7.938	70	20	1.15	7.938
DC4 4 x 4 - 9 NPT	MECH	254-256JM	8.5	1.25	JM-3	93167413R277	FPDC4-K4	7.469	145	20	1.15	7.031
										25	1.15	7.469
		284-326JM	12.5	1.25	JM-4	93167413R288	FPDC4-K5	9.031	155	25	1.15	7.469
										30	1.15	7.875
										40	1.15	8.437
										50	1.15	9.031

INSTALLING MOTOR ON PUMP ENDS

Pump end kits are shipped with maximum diameter impeller for the largest horsepower rating within the range of motor frame sizes that pump kit is intended to fit. Any impeller trimming and re-balancing is the responsibility of the assembler.

If you purchase a pump end kit without a factory supplied motor, you are responsible for ensuring that the motor driver has a sufficient horsepower and service factor rating to adequately handle the pump horsepower load across the spectrum of the operating curve.

PUMP END KITS

1800 RPM

Series	Seal Type	Frame	AK	Shaft Diameter	Motor Code	Order No.	Description	Kit Trim	Wt. (lbs)	HP	S.F.	Trim Required
DAL1A 1 x 1.25 NPT	MECH	56C	4.5	0.625	56C	93167413R011	FPDA1A-K1	5.063	15	1/3	1.35	5.063
DAL1B 1 x 1.25 NPT	MECH	56C	4.5	0.625	56C	93167413R021	FPDA1B-K1	5.063	15	1/3	1.35	5.063
DBL1 1 x 1.5 - 6 NPT	MECH	56C	4.5	0.625	56C	93167413R242	FPDBL1-K1	6.438	25	1/3	1.35	5.500
										1/2	1.25	6.125
										3/4	1.25	6.438
DBL1-1/2 1.5 x 2 - 6 NPT	MECH	56C	4.5	0.625	56C	93167413R252	FPDBL1-1/2-K1	6.438	30	1/3	1.35	4.625
										1/2	1.25	5.125
										3/4	1.25	5.750
										1	1.15	6.438
DBL2 2 x 3 - 8 NPT	MECH	56C	4.5	0.625	56C	93167413R262	FPDBL2-K1	5.125	40	1/2	1.25	4.500
										3/4	1.25	5.125
						93167413R272	FPDBL2-K2	6.438	40	1	1.15	5.813
										1-1/2	1.15	6.438
DCL1-1/2 1.5 x 2 - 8 NPT	MECH	143-184JM	4.5	0.875	JM-1	93167413R292	FPDC1-1/2-K2B	8.375	45	1	1.15	6.625
										1-1/2	1.15	7.313
										2	1.15	8.375

INSTALLING MOTOR ON PUMP ENDS

Pump end kits are shipped with maximum diameter impeller for the largest horsepower rating within the range of motor frame sizes that pump kit is intended to fit. Any impeller trimming and re-balancing is the responsibility of the assembler.

If you purchase a pump end kit without a factory supplied motor, you are responsible for ensuring that the motor driver has a sufficient horsepower and service factor rating to adequately handle the pump horsepower load across the spectrum of the operating curve.

MATERIALS AND PARTS

DA1A (3600 RPM), DAL1A (1800 RPM)

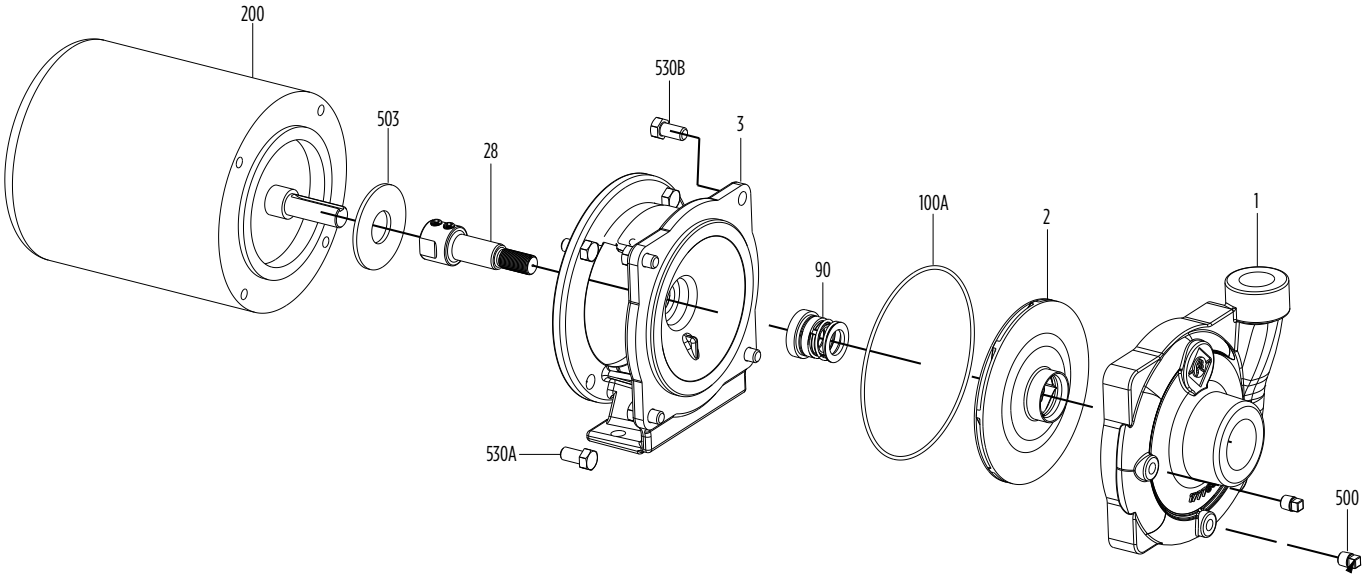


Fig. No.	Part Description	Repair No.	Materials
1	Volute Case (NPT) w/plugs	305717001	Cast Iron, ASTM-A48 CL30
2	Impeller 1/2 hp 3600 rpm 4.13" trim (9/16-18 Thd)	305717003	304 Stainless Steel
2	Impeller 3/4 hp 3600 rpm 4.70" trim (9/16-18 Thd)	305717004	304 Stainless Steel
2	Impeller 1 hp 3600 rpm, 1/3 hp 1800 rpm 5.06" trim (9/16-18 Thd)	305717005	304 Stainless Steel
3	Motor Bracket	305717006	Cast Iron, ASTM-A48 CL30
28	Coupling (includes set screws)	305447022	Brass
90	Mechanical Shaft Seal	305463203	Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal	305613902	SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal	305613901	SiCxSiCxFKMx18-8SS
100A	Volute Case O-Ring (2-pack)	305463209	Nitrile
200	Motor 56C	See Motor Specifications	See Motor Specifications
500	Pipe Plug (4-pack)	305463009	Zinc-plated Steel
503	Slinger	305453050	Nitrile
530A	Motor Bracket Hex Cap Screw	305463030	Zinc-plated Steel
530B	Volute Case Hex Cap Screw	305463030	Zinc-plated Steel

Motor Fitment					
Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	1800	0.33	56C	4.5	0.625
	3600	0.5 - 1.0	56C	4.5	0.625

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

MATERIALS AND PARTS

DA1B (3600 RPM), DAL1B (1800 RPM)

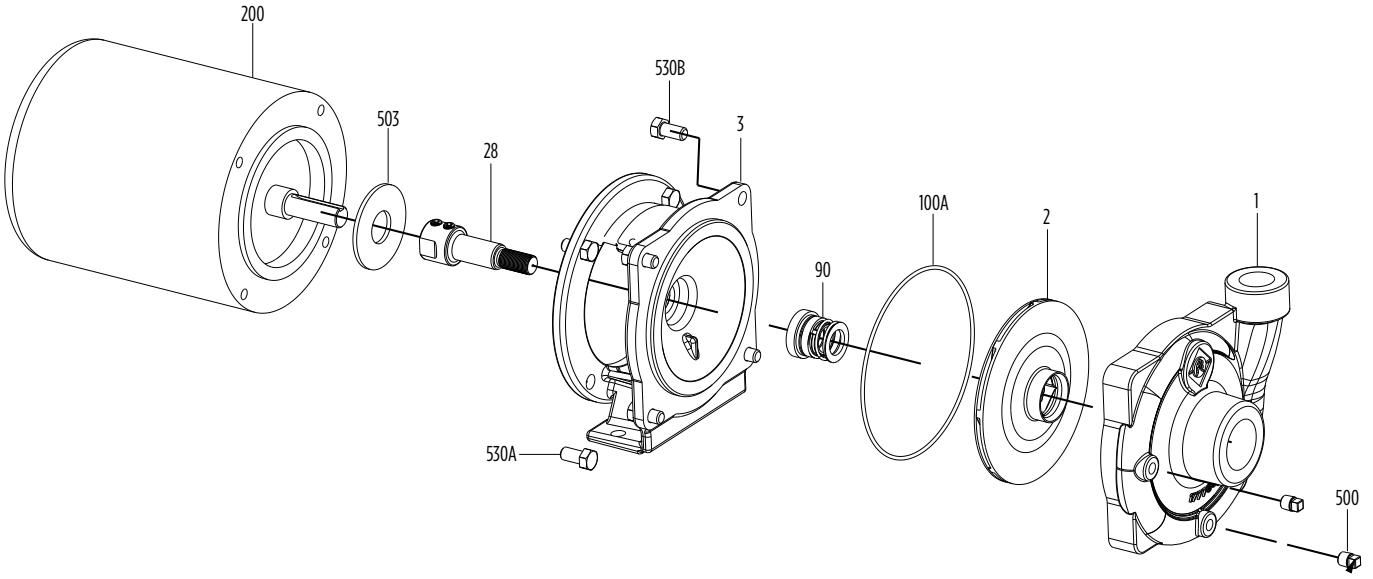


Fig. No.	Part Description	Repair No.	Materials
1	Volute Case (NPT) w/plugs	305717001	Cast Iron, ASTM-A48 CL30
2	Impeller, 1/2 hp 3600 RPM, 3.75" trim (9/16-18 Thd)	305717007	304 Stainless Steel
2	Impeller, 3/4 hp 3600 RPM, 4.00" trim (9/16-18 Thd)	305717008	304 Stainless Steel
2	Impeller, 1 hp 3600 RPM, 4.25" trim (9/16-18 Thd)	305717009	304 Stainless Steel
2	Impeller, 1-1/2 hp 3600 RPM, 4.69" trim (9/16-18 Thd)	305717010	304 Stainless Steel
2	Impeller, 2 hp 3600 RPM, 1/3 hp 1800 RPM, 5.06" trim (9/16-18 Thd)	305717011	304 Stainless Steel
3	Motor Bracket	305717006	Cast Iron, ASTM-A48 CL30
28	Coupling (includes set screws)	305447022	Brass
90	Mechanical Shaft Seal	305463203	Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal	305613902	SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal	305613901	SiCxSiCxFKMx18-8SS
100A	Volute Case O-Ring (2-pack)	305463209	Nitrile
200	Motor 56C	See Motor Specifications	See Motor Specifications
500	Pipe Plug (4-pack)	305463009	Zinc-plated Steel
503	Slinger	305453050	Nitrile
530A	Motor Bracket Hex Cap Screw (4-pack)	305463030	Zinc-plated Steel
530B	Volute Case Hex Cap Screw (4-pack)	305463030	Zinc-plated Steel

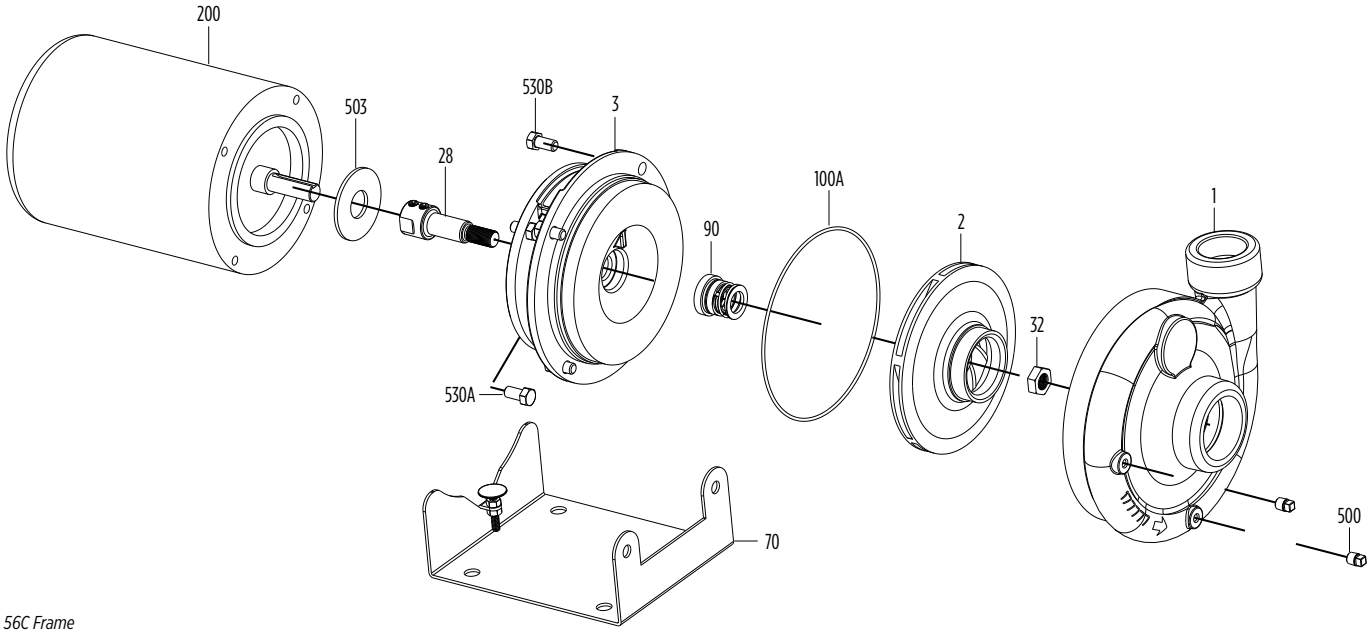
Motor Fitment

Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	1800	0.33	56C	4.5	0.625
	3600	0.5 - 2.0	56C	4.5	0.625

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

MATERIALS AND PARTS

DB1 (3600 RPM) & DBL1 (1800 RPM)



56C Frame

Fig. No.	Part Description	Repair No.	Materials
1	Volute Case (NPT) w/plugs	305447001	Cast Iron, ASTM-A48 CL30
2	Impeller, 3/4 hp 3600 RPM, 4.25" trim (9/16-18 Thd)	305447017	Silicon Brass, ASTM B584
2	Impeller, 1 hp 3600 RPM, 4.75" trim (9/16-18 Thd)	305447018	Silicon Brass, ASTM B584
2	Impeller, 1-1/2 hp 3600 RPM, 5.19" trim (9/16-18 Thd)	305447019	Silicon Brass, ASTM B584
2	Impeller, 2 hp 3600 RPM, 1/3 hp 1800 RPM, 5.50" trim (9/16-18 Thd)	305447020	Silicon Brass, ASTM B584
2	Impeller, 3 hp 3600 RPM, 1/2 hp 1800 RPM, 6.13" trim (9/16-18 Thd)	305447025	Silicon Brass, ASTM B584
2	Impeller, 3/4 hp 1800 RPM, 6.44" trim (9/16-18 Thd)	305447026	Silicon Brass, ASTM B584
3	Motor Bracket	305447021	Cast Iron, ASTM-A48 CL30
28	Coupling (includes set screws)	305447028	416 Stainless Steel
32	Impeller Jam Nut	305447023	18-8 Stainless Steel
70	Base Assembly	305447024	Various
90	Mechanical Shaft Seal	305463203	Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal	305613902	SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal	305613901	SiCxSiCxFKMx18-8SS
100A	Volute Case O-Ring (2-pack)	305463004	Nitrile
200	Motor 56C	See Motor Specifications	See Motor Specifications
500	Pipe Plug (4-pack)	305463009	Zinc-plated Steel
503	Slinger	305453050	Nitrile
530A	Motor Bracket Hex Cap Screw (4-pack)	305463030	Zinc-plated Steel
530B	Volute Case Hex Cap Screw (4-pack)	305463030	Zinc-plated Steel

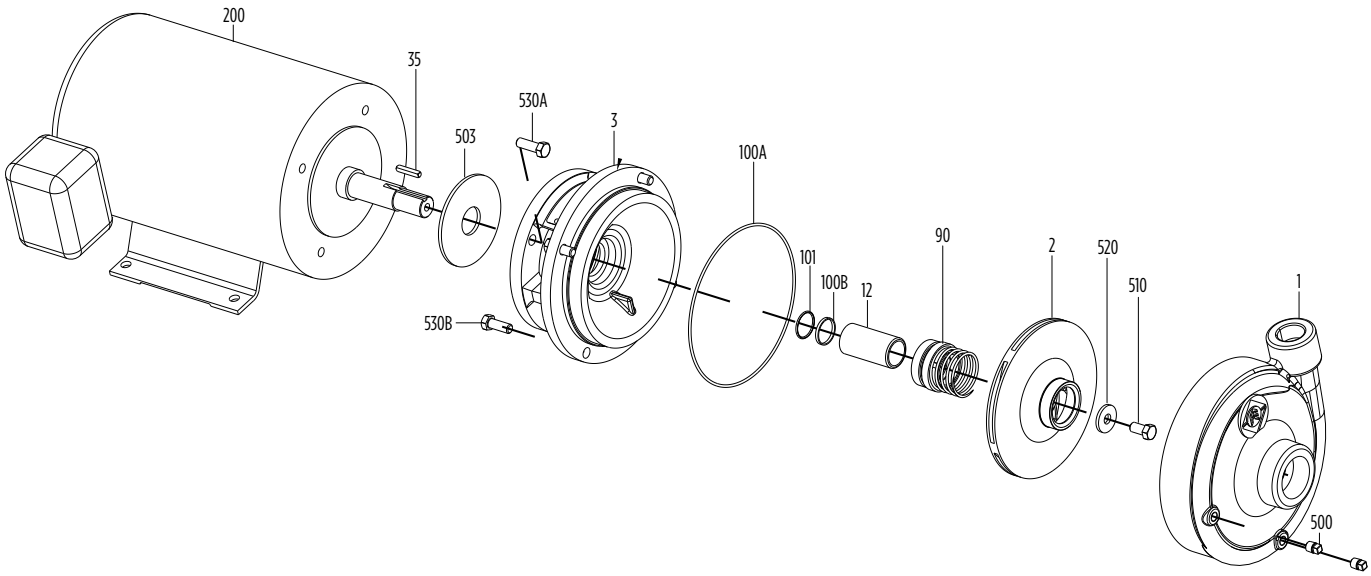
NOTE: Refer to Bracket/Volute Kits page 39 for pumps built prior to August 2008

Motor Fitment					
Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	1800	0.33 - 0.75	56C	4.5	0.625
	3600	0.75 - 2.0	56C	4.5	0.625

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

MATERIALS AND PARTS

DB1 (3600 RPM)



JM Frame

Fig. No.	Part Description	Repair No.	Materials
1	Volute Case (NPT) w/plugs	305447001	Cast Iron, ASTM-A48 CL30
2	Impeller, 3 hp, 6.13" trim (0.875 bore)	305447010	Silicon Brass, ASTM B584
2	Impeller, 5 hp, 6.44" trim (0.875 bore)	305447011	Silicon Brass, ASTM B584
3	Motor Bracket	305447014	Cast Iron, ASTM-A48 CL30
12	Shaft Sleeve	305447015	416 Stainless Steel
35	Impeller Shaft Key	305463001	301 Stainless Steel
90	Mechanical Shaft Seal	305463002	Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal	305613903	SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal	305613904	SiCxSiCxFKMx18-8SS
100A	Volute Case O-Ring (2-pack)	305463004	Nitrile
100B	Sleeve O-Ring (2-pack)	305463200	Nitrile
101	Sleeve Seal	305447016	Nitrile
200	Motor JM Frame	See Motor Specifications	See Motor Specifications
500	Pipe Plug (4-pack)	305463009	Zinc-plated Steel
503	Water Slinger	305447008	Neoprene
510	Impeller Hex Cap Screw	305463201	410 Stainless Steel
520	Impeller Washer	305447009	300 Series Stainless Steel
530A	Motor Bracket Hex Cap Screw (12-pack)	305463010	Zinc-plated Steel
530B	Volute Case Hex Cap Screw (4-pack)	305463202	Zinc-plated Steel

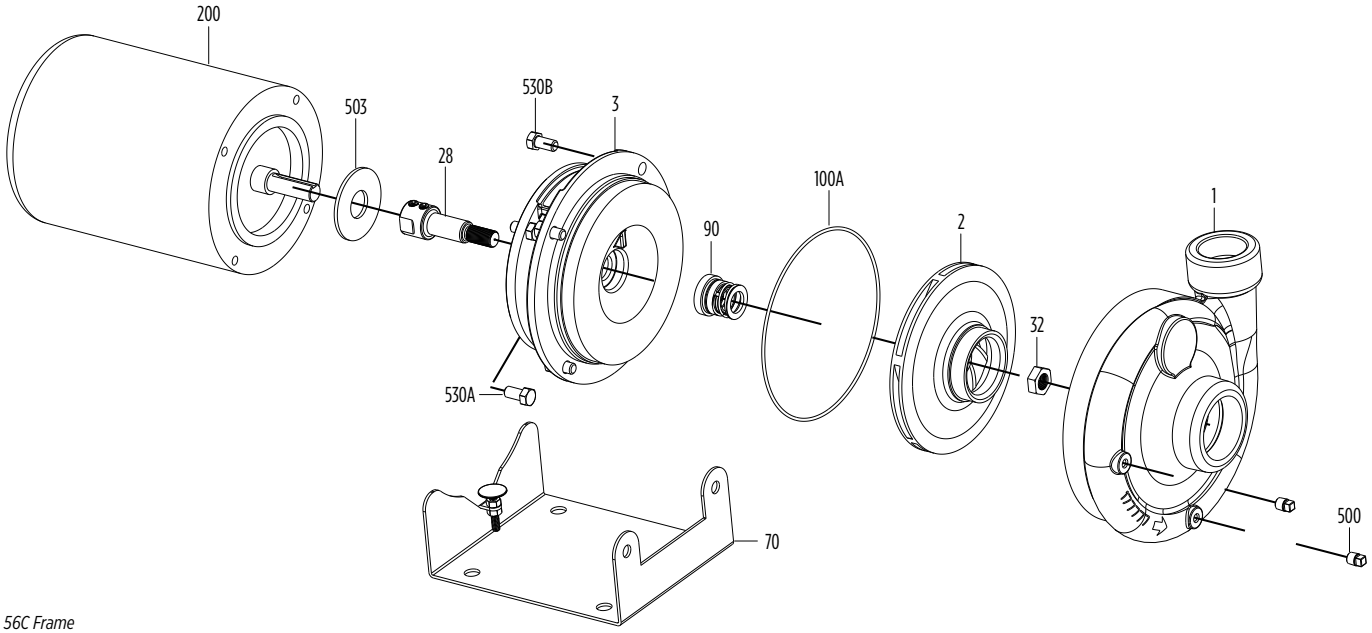
NOTE: Refer to Bracket/Volute Kits page 39 for pumps built prior to August 2008

Motor Fitment					
Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	3600	3.0 - 5.0	145 - 184JM	4.5	0.875

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

MATERIALS AND PARTS

DB1-1/2 (3600 RPM), DBL1-1/2 (1800 RPM)



56C Frame

Fig. No.	Part Description	Repair No.	Materials
1	Volute Case (NPT) w/plugs	305448001	Cast Iron, ASTM-A48 CL30
2	Impeller, 1 hp 3600 RPM, 3.94" trim (9/16-18 Thd)	305448021	Silicon Brass, ASTM B584
2	Impeller, 1-1/2 hp 3600 RPM, 4.31" trim (9/16-18 Thd)	305448022	Silicon Brass, ASTM B584
2	Impeller, 2 hp 3600 RPM, 1/3 hp 1800 RPM, 4.59" trim (9/16-18 Thd)	305448023	Silicon Brass, ASTM B584
2	Impeller, 3 hp 3600 RPM, 1/2 hp 1800 RPM, 5.13" trim (9/16-18 Thd)	305448024	Silicon Brass, ASTM B584
2	Impeller, 3/4 hp 1800 RPM, 5.75" trim (9/16-18 Thd)	305448026	Silicon Brass, ASTM B584
2	Impeller, 1 hp 1800 RPM, 6.44" trim (9/16-18 Thd)	305448025	Silicon Brass, ASTM B584
3	Motor Bracket	305447021	Cast Iron, ASTM-A48 CL30
28	Coupling (includes set screws)	305447028	DDA 360 Brass or 304 Stainless Steel
32	Impeller Jam Nut	305447023	18-8 Stainless Steel
70	Base Assembly	305447024	Various
90	Mechanical Shaft Seal	305463203	Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal	305613902	SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal	305613901	SiCxSiCxFKMx18-8SS
100A	Volute Case O-Ring (2-pack)	305463004	Nitrile
200	Motor 56C	See Motor Specifications	See Motor Specifications
500	Pipe Plug (4-pack)	305463009	Zinc-plated Steel
503	Slinger	305453050	Nitrile
530A	Motor Bracket Hex Cap Screw (4-pack)	305463030	Zinc-plated Steel
530B	Volute Case Hex Cap Screw (4-pack)	305463030	Zinc-plated Steel

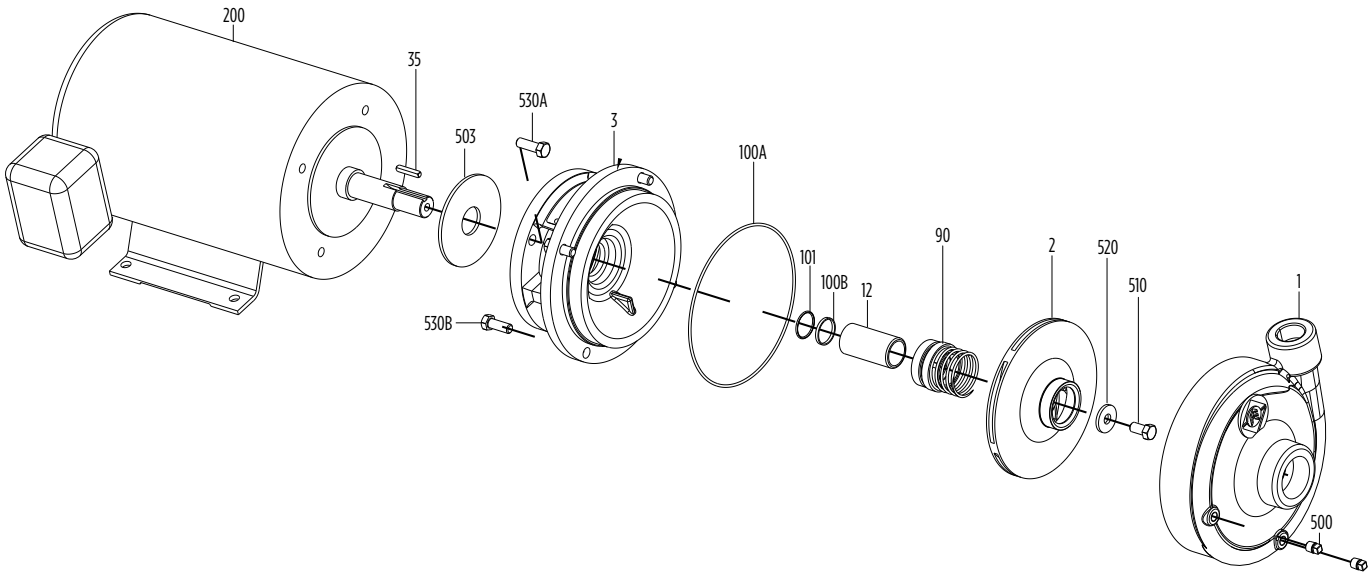
NOTE: Refer to Bracket/Volute Kits page 39 for pumps built prior to August 2008

Motor Fitment					
Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	1800	0.33 - 1.0	56C	4.5	0.625
	3600	1.0 - 2.0	56C	4.5	0.625

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

MATERIALS AND PARTS

DB1-1/2 (3600 RPM)



JM Frame

Fig. No.	Part Description	Repair No.		Materials
		4.5AK	8.5AK	
1	Volute Case (NPT) w/plugs	305448001		Cast Iron, ASTM-A48 CL30
2	Impeller, 3 hp 5.13" trim (.875 bore)	305448015	n/a	Silicon Brass, ASTM B584
2	Impeller, 5 hp 5.75" trim (.875 bore)	305448016	n/a	Silicon Brass, ASTM B584
2	Impeller, 7-1/2 hp 6.44" trim (.875 bore)	305448017		Silicon Brass, ASTM B584
3	Motor Backet	305447014	305450021	Cast Iron, ASTM-A48 CL30
12	Shaft Sleeve	305447015		416 Stainless Steel
35	Impeller Shaft Key	305463001		301 Stainless Steel
90	Mechanical Shaft Seal	305463002		Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal	305613903		SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal	305613904		SiCxSiCxFKMx18-8SS
100A	Volute Case O-Ring (2-pack)	305463004		Nitrile
100B	Sleeve O-Ring (2-Pack)	305463200		Nitrile
101	Sleeve Seal	305447016		Nitrile
200	Motor JM Frame	See Motor Specifications		See Motor Specifications
500	Pipe Plug (4-pack)	305463009		Zinc-plated Steel
503	Water Slinger	305447008	305450007	Neoprene
510	Impeller Hex Cap Screw	305463201		410 Stainless Steel
520	Impeller Washer	305447009		300 Series Stainless Steel
530A	Motor Bracket Hex Cap Screw (4-Pack)	305463202	305463026	Zinc-plated Steel
530B	Volute Case Hex Cap Screw (12-Pack)	305463010		Zinc-plated Steel

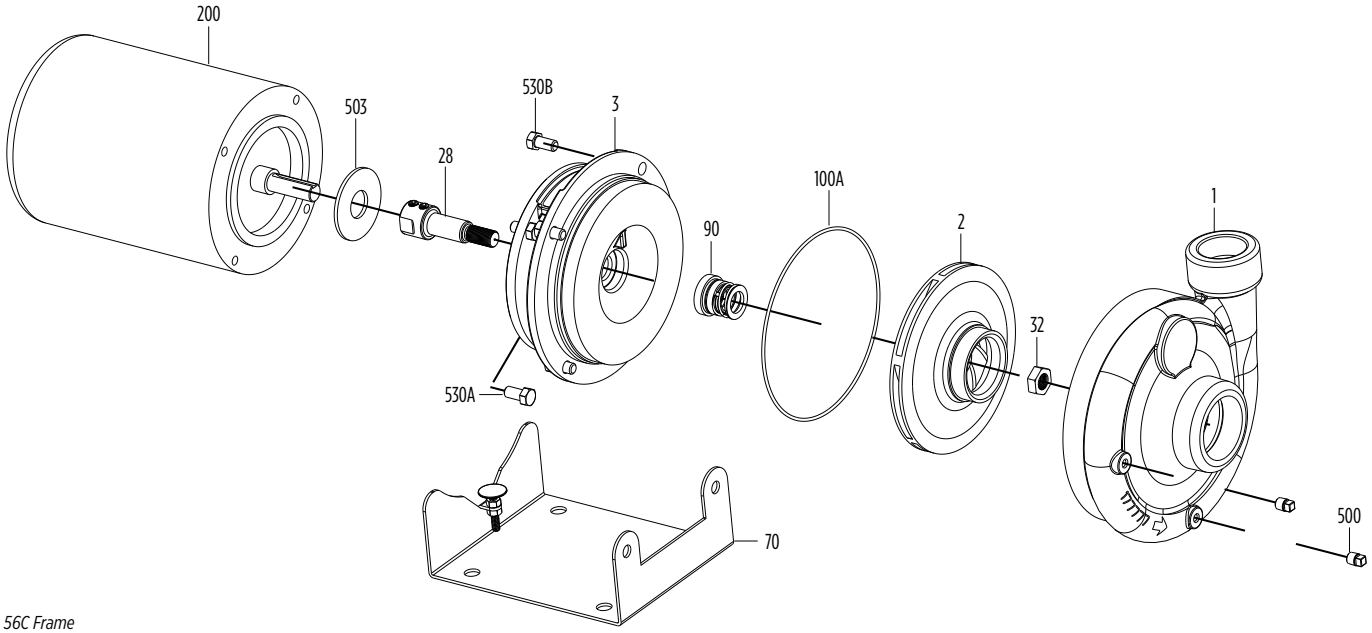
NOTE: Refer to Bracket/Volute Kits page 39 for pumps built prior to August 2008

Motor Fitment					
Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	3600	3 - 7.5	143 - 184JM	4.5	0.875
		7.5	213 - 215JM	8.5	0.875

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

MATERIALS AND PARTS

DB2 (3600 RPM), DBL2 (1800 RPM)



56C Frame

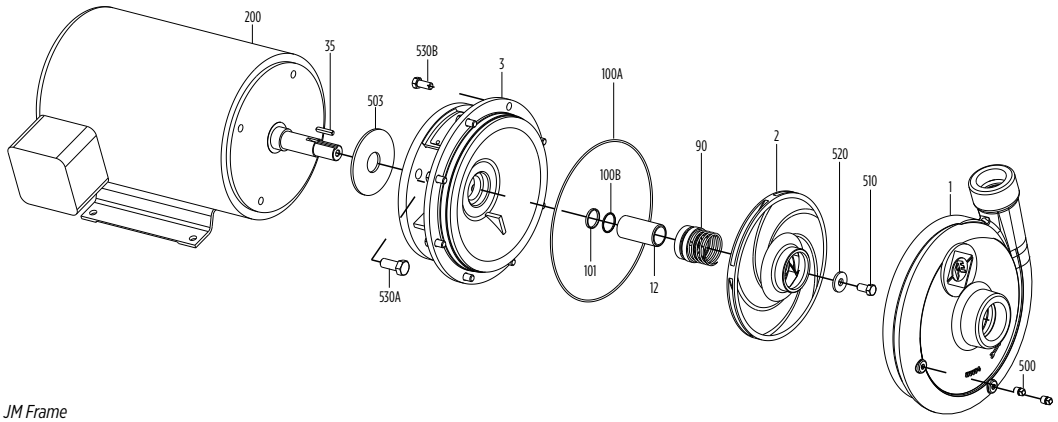
Fig. No.	Part Description	Repair No.	Materials
1	Volute Case 3hp-10hp (NPT) w/plugs	305450001	Cast Iron, ASTM-A48 CL30
2	Impeller, 1.5 hp 3600 rpm, 3.812" trim (9/16-18 Thd)	305450017	Silicon Brass, ASTM B584
2	Impeller, 2 hp 3600 rpm, 4.000" trim (9/16-18 Thd)	305450018	Silicon Brass, ASTM B584
2	Impeller, 3 hp 3600 rpm, 1/2 hp 1800 rpm, 4.500" trim (9/16-18 Thd)	305450024	Silicon Brass, ASTM B584
2	Impeller, 3/4 hp 1800 rpm, 5.125" trim (9/16-18 Thd)	305450026	Silicon Brass, ASTM B584
2	Impeller, 1 hp 1800 rpm, 5.812" trim (9/16-18 Thd)	305450037	Silicon Brass, ASTM B584
2	Impeller, 1.5 hp 1800 rpm, 6.438" trim (9/16-18 Thd)	305450038	Silicon Brass, ASTM B584
3	Motor Backet	305447021	Cast Iron, ASTM-A48 CL30
28	Coupling (includes set screws)	305447028	416 Stainless Steel
32	Impeller Jam Nut	305447023	301 Stainless Steel
70	Base Assembly	305447024	316 Stainless Steel
90	Mechanical Shaft Seal	305463203	Carbon/Ceramic/Buna/316SS
Option A	Mechanical Shaft Seal	305613902	SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal	305613901	SiCxSiCxFKMx18-8SS
100A	Volute Case O-Ring (2-pack)	305463004	Nitrile
200	Motor 56C	See Motor Specifications	See Motor Specifications
500	Pipe Plug (4-pack)	305463009	Cad-plated steel
503	Slinger	305453050	Nitrile
530A	Motor Bracket Hex Cap Screw	305463030	Zinc-plated Steel
530B	Volute Case Hex Cap Screw	305463030	Zinc-plated Steel

NOTE: Refer to Bracket/Volute Kits page 39 for pumps built prior to August 2008

Motor Fitment					
Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	1800	0.5 - 1.5	56C	4.5	0.625
	3600	1.5- 2.0	56C	4.5	0.625

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

MATERIALS AND PARTS
DB2/DC2 (3600 RPM)



JM Frame

Fig. No.	Part Description	Repair No. 4.5AK* (3–7-1/2 hp)	Repair No. 8.5AK* (7-1/2–20 hp)	Materials of Construction
1	Volute Case 3hp-10hp (NPT) w/plugs	305450001		Cast Iron, ASTM-A48 CL30
1	Volute Case 15hp-20hp (NPT) w/plugs	n/a	305450002	Cast Iron, ASTM-A48 CL30
2	Impeller, 3 hp 4.50" trim (.875 bore)	305450008	n/a	Silicon Brass, ASTM B584
2	Impeller, 5 hp 5.13" trim (.875 bore)	305450009	n/a	Silicon Brass, ASTM B584
2	Impeller, 7-1/2hp 5.81" trim (.875 bore)	305450010		Silicon Brass, ASTM B584
2	Impeller, 10 hp 6.44" trim (.875 bore)	n/a	305450019	Silicon Brass, ASTM B584
2	Impeller, 15 hp 7.25" trim (.875 bore)	n/a	305450020	Silicon Brass, ASTM B584
2	Impeller, 20 hp 7.94" trim (1.250 bore)	n/a	305450014	Silicon Brass, ASTM B584
3	Motor Backet 4.5 AK	305447014	n/a	Cast Iron, ASTM-A48 CL30
3	Motor Backet 8.5 AK 7.5 & 10 hp	n/a	305450021	Cast Iron, ASTM-A48 CL30
3	Motor Backet 15 hp	n/a	305449017	Cast Iron, ASTM-A48 CL30
3	Motor Backet 20 hp	n/a	305450025	Cast Iron, ASTM-A48 CL30
12	Shaft Sleeve 3 hp-15 hp	305447015		416 Stainless Steel
12	Shaft Sleeve 20 hp	n/a	305450022	416 Stainless Steel
35	Impeller Shaft Key 3 hp-15 hp	305463001		301 Stainless Steel
35	Impeller Shaft Key 20 hp	n/a	305450006	316 Stainless Steel
90	Mechanical Shaft Seal 3 hp-15 hp	305463002		Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal 3 - 15 hp	305613903		SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal 3 - 15 hp	305613904		SiCxSiCxFKMx18-8SS
90	Mechanical Shaft Seal 20 hp	n/a	305463204	Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal 20 hp	n/a	305613906	SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal 20 hp	n/a	305613905	SiCxSiCxFKMx18-8SS
100A	Volute Case O-Ring 3 hp-10 hp (2-Pack)	305463004		Nitrile
100A	Volute Case O-Ring 15 hp-20 hp (2-Pack)	n/a	305463018	Nitrile
100B	Sleeve O-Ring 3 hp-15 hp (2-Pack)	305463200		Nitrile
100B	Sleeve O-Ring 20 hp (2-Pack)	n/a	305463205	Nitrile
101	Sleeve Seal 3 hp-15 hp	305447016		Nitrile
101	Sleeve Seal 20 hp	n/a	305463206	Nitrile
200	Motor JM Frame	See Motor Specifications		See Motor Specifications
500	Pipe Plug (4-pack)	305463009		Zinc-plated Steel
503	Water Slinger	305450007		Neoprene
503	Water Slinger 20 hp	n/a	305447008	Neoprene
510	Impeller Hex Cap Screw	305463201		410 Stainless Steel
510	Impeller Hex Cap Screw 15 hp-20 hp	n/a	305463185	17-4 Stainless Steel
520	Impeller Washer	305447009		18-8 Stainless Steel
520	Impeller Washer 15 hp-20 hp	n/a	305450015	18-8 Stainless Steel
530A	Motor Bracket Hex Cap Screw 3 hp-15 hp (12-Pack)	305463010	305463026	Zinc-plated Steel
530A	Motor Bracket Hex Cap Screw 20 hp (4-Pack)	n/a	305463207	Zinc-plated Steel
530B	Volute Case Hex Cap Screw (4-Pack)	305463202	305463030	Zinc-plated Steel
530B	Volute Case Hex Cap Screw 15 hp (4-Pack)	n/a	305463064	Zinc-plated Steel

NOTE: Refer to Bracket/Volute Kits page 39 for pumps built prior to August 2008

** DC2 (15 - 20 hp)*

Motor Fitment

Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	3600	3 - 7.5	143 - 184JM	4.5	0.875
		7.5 - 15	213 - 215JM	8.5	0.875
		20	254JM	8.5	1.25

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

MATERIALS AND PARTS

DC1-1/2 (3600 RPM) , DCL1-1/2 (1800 RPM)

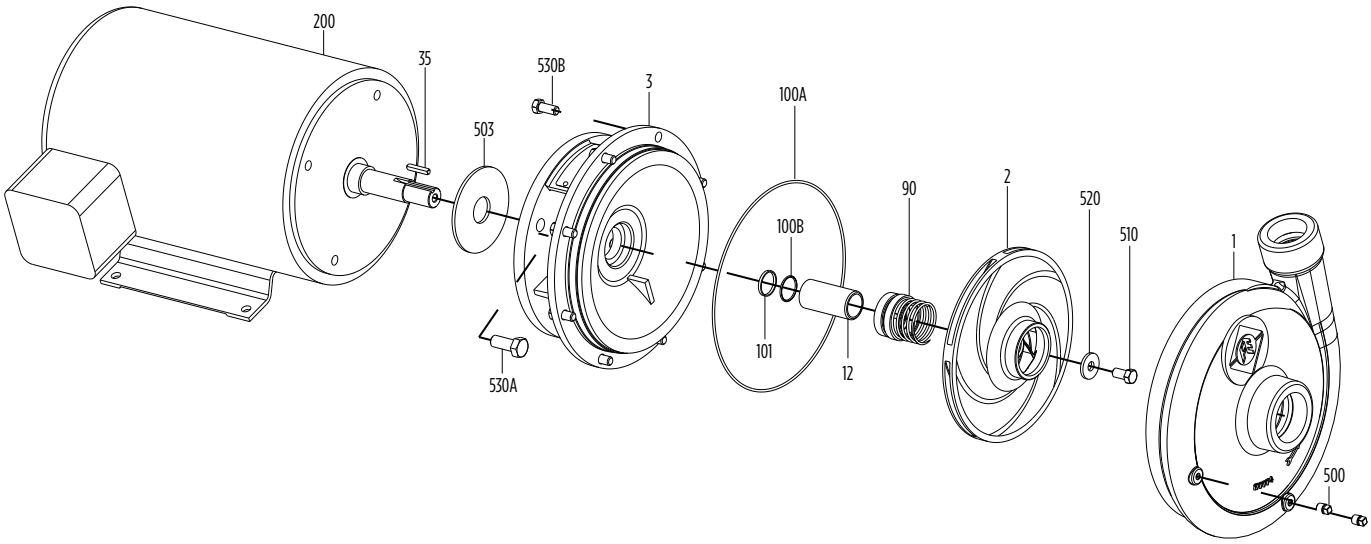


Fig. No.	Part Description	Repair No.		Materials
		4.5AK* (1–7-1/2 hp)	8.5AK* (7-1/2–15 hp)	
1	Volute Case (NPT) w/plugs	305449001		Cast Iron, ASTM-A48 CL30
2	Impeller, 3 hp 3600 rpm 5.06" trim (.875 bore)	305449007	n/a	Silicon Brass, ASTM B584
2	Impeller, 5 hp 3600 rpm 5.81" trim (.875 bore)	305449008	n/a	Silicon Brass, ASTM B584
2	Impeller, 7-1/2 hp 3600 rpm, 1 hp 1800 rpm, 6.63" trim (.875 bore)	305449009		Silicon Brass, ASTM B584
2	Impeller, 10 hp 3600 rpm, 1.5 hp 1800 rpm, 7.31" trim (.875 bore)	305449014		Silicon Brass, ASTM B584
2	Impeller, 15 hp 3600 rpm, 2 hp 1800 rpm, 8.38" trim (.875 bore)	305449015		Silicon Brass, ASTM B584
3	Motor Backet	305449016	305449017	Cast Iron, ASTM-A48 CL30
12	Shaft Sleeve	305447015		416 Stainless Steel
35	Impeller Shaft Key	305463001		301 Stainless Steel
90	Mechanical Shaft Seal	305463002		Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal	305613903		SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal	305613904		SiCxSiCxFKMx18-8SS
100A	Volute Case O-Ring (2-pack)	305463018		Nitrile
100B	Sleeve O-Ring (2-Pack)	305463200		Nitrile
101	Sleeve Seal	305447016		Nitrile
200	Motor JM Frame	See Motor Specifications		See Motor Specifications
500	Pipe Plug (4-pack)	305463009		Zinc-plated Steel
503	Water Slinger	305450007		Neoprene
503	Water Slinger 20 hp	n/a	305447008	Neoprene
510	Impeller Hex Cap Screw	305463201		410 Stainless Steel
520	Impeller Washer	305447009		300 Series Stainless Steel
530A	Motor Bracket Hex Cap Screw (12-Pack)	305463010	305463026	Zinc-plated Steel
530B	Volute Case Hex Cap Screw (12-Pack)	305463010		Zinc-plated Steel

NOTE: Refer to Bracket/Volute Kits page 39 for pumps built prior to August 2008

Motor Fitment					
Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	1800	1.0 - 2.0	143 - 145JM	4.5	0.875
	3600	3 - 7.5	143 - 184JM	4.5	0.875
		7.5 - 15	213 - 215JM	8.5	0.875

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

MATERIALS AND PARTS

DB3 (3600 RPM)

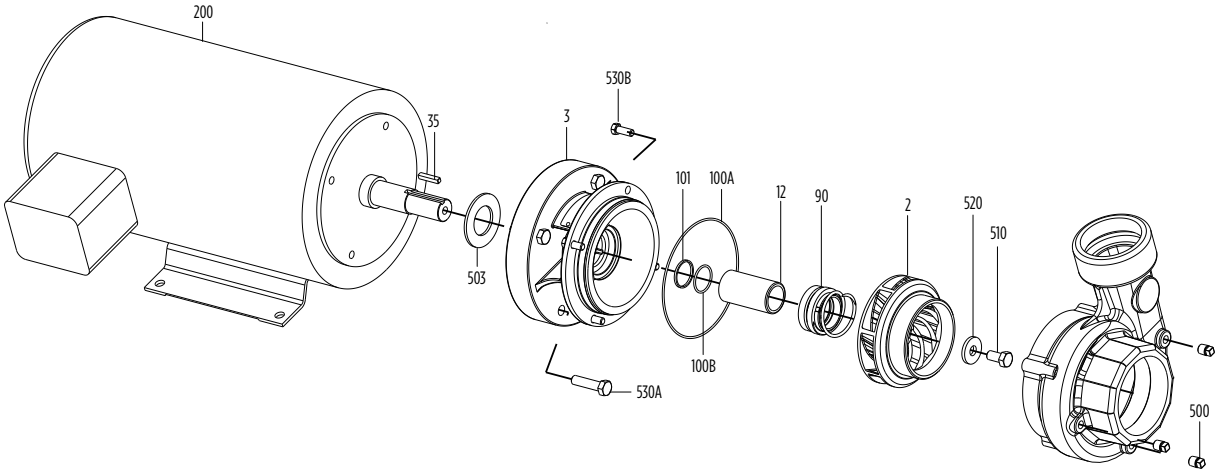


Fig. No.	Part Description	Repair No.		Materials
		4.5AK* (5–7-1/2 hp)	8.5AK* (7-1/2–20 hp)	
1	Volute Case 5hp-20hp (NPT) w/plugs	305451001		Cast Iron, ASTM-A48 CL30
2	Impeller. 5 hp, 4.50" trim (.875 bore)	305451004	n/a	Cast Iron, ASTM-A48 CL30
2	Impeller, 7-1/2hp, 4.94" rim (.875 bore)	305451005		Cast Iron, ASTM-A48 CL30
2	Impeller, 10 hp, 5.31" trim (.875 bore)**	n/a	305451010**	Cast Iron, ASTM-A48 CL30
2	Impeller, 15 hp, 5.75" trim (.875 bore)	n/a	305451011	Cast Iron, ASTM-A48 CL30
2	Impeller, 20 hp, 6.00" trim (1.250 bore)	n/a	305451009	Cast Iron, ASTM-A48 CL30
3	Motor Bracket 5 hp - 15 hp	305447014	305450021	Cast Iron, ASTM-A48 CL30
3	Motor Bracket 20 hp	n/a	305451012	Cast Iron, ASTM-A48 CL30
4	Wear Ring (Suction)	305451002		SAE 660 Bronze
12	Shaft Sleeve	305447015		416 Stainless Steel
12	Shaft Sleeve 20 hp	n/a	305451013	416 Stainless Steel
35	Impeller Shaft Key	305463001		301 Stainless Steel
35	Impeller Shaft Key 20 hp	n/a	305450006	301 Stainless Steel
90	Mechanical Shaft Seal 5 - 15 hp	305463002		Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal 5 - 15 hp	305613903		SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal 5 - 15 hp	305613904		SiCxSiCxFKMx18-8SS
90	Mechanical Shaft Seal 20 hp	n/a	305463204	Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal 20 hp	n/a	305613906	SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal 20 hp	n/a	305613905	SiCxSiCxFKMx18-8SS
100A	Volute Case O-Ring (2-pack)	305463004		Nitrile
100B	Sleeve O-Ring (2-Pack)	305463200		Nitrile
100B	Sleeve O-Ring (2-Pack)	n/a	305463205	Nitrile
101	Sleeve Seal	305447016		Nitrile
101	Sleeve Seal 20 hp	n/a	305463206	Nitrile
200	Motor JM Frame	See Motor Specifications		See Motor Specifications
500	Pipe Plug (4-pack)	305463020		Zinc-plated Steel
503	Water Slinger	305450007		Neoprene
503	Water Slinger 20 hp	n/a	305447008	Neoprene
510	Impeller Hex Cap Screw	305463201		410 Stainless Steel
510	Impeller Hex Cap Screw 20 hp	n/a	305463019	17-4 Stainless Steel
520	Impeller Washer	305447009		18-8 Stainless Steel
520	Impeller Washer 20 hp	n/a	305450015	18-8 Stainless Steel
530A	Motor Bracket Hex Cap Screw	305463202	305463026	Zinc-plated Steel
530A	Motor Bracket Hex Cap Screw	n/a	305463207	Zinc-plated Steel
530B	Volute Case Hex Cap Screw	305463010		Zinc-plated Steel

NOTE: Refer to Bracket/Volute Kits page 39 for pumps built prior to August 2008
** DB3 is a discontinued pump series (D.O.E.) but repair parts still available*
*** No longer available*

Motor Fitment					
Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	3600	5.0 - 7.5	182 - 184JM	4.5	0.875
		10 - 15	213 - 215JM	8.5	0.875
		20	254JM	8.5	1.25

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

MENU

MATERIALS AND PARTS

DC4 (3600 RPM)

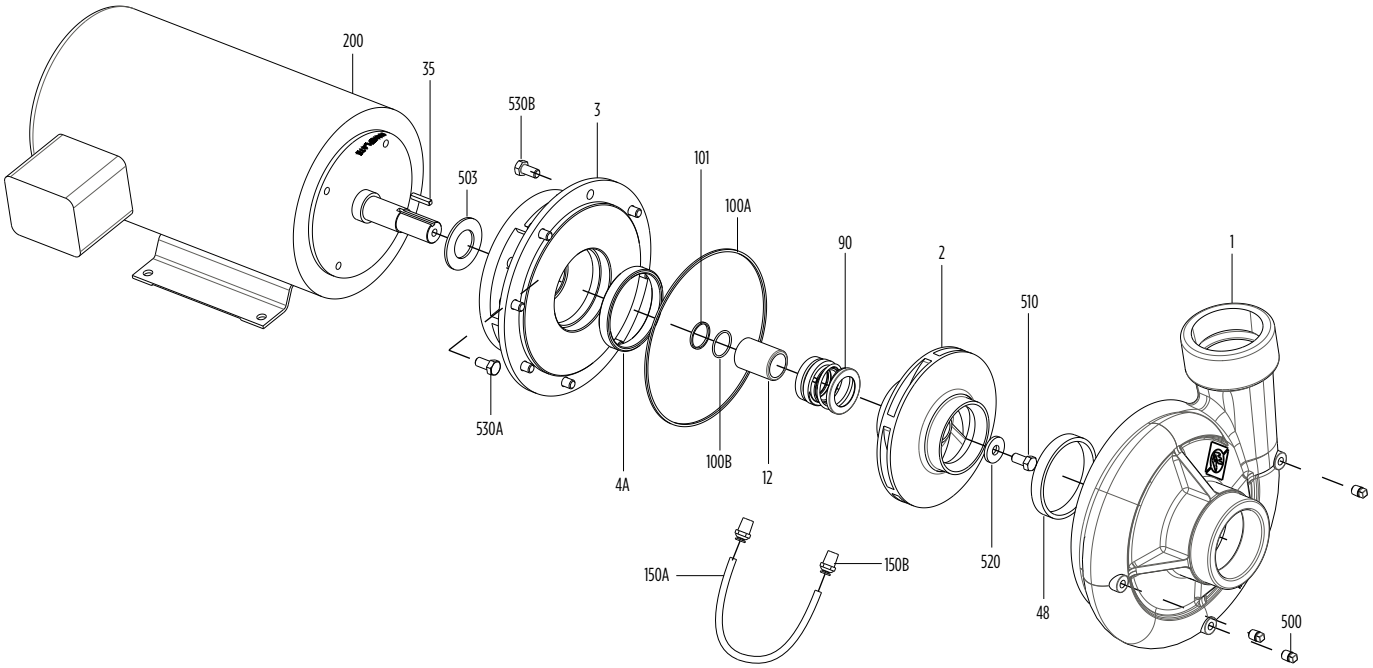


Fig. No.	Part Description	Repair No.		Materials of Construction
		8.5AK* (20–25 HP)	12.5AK* (30–50 HP)	
1	Volute Case 4" x 4" (NPT)	305452001		Cast Iron, ASTM-A48 CL30
2	Impeller, 20 hp, 7.03" trim	305452014	n/a	Cast Iron, ASTM-A48 CL30
2	Impeller, 25hp, 7.47" trim	305452015	n/a	Cast Iron, ASTM-A48 CL30
2	Impeller, 30 hp, 7.88" trim	n/a	305452016	Cast Iron, ASTM-A48 CL30
2	Impeller, 40 hp 8.44" trim	n/a	305452017	Cast Iron, ASTM-A48 CL30
2	Impeller, 50 hp, 9.03" trim	n/a	305452018	Cast Iron, ASTM-A48 CL30
3	Motor Backet	305452021	305452022	Cast Iron, ASTM-A48 CL30
4A/B	Wear Ring (Suction/Hub)	305452005		SAE 660 Bronze
12	Shaft Sleeve	305452009		416 Stainless Steel
35	Impeller Shaft Key	305450006		316 Stainless Steel
90	Mechanical Shaft Seal	305463204		Carbon/Ceramic/Nitrile/316 Stainless Steel
Option A	Mechanical Shaft Seal	305613906		SiCxSiCxEPDMx18-8SS
Option B	Mechanical Shaft Seal	305613905		SiCxSiCxFKMx18-8SS
100A	Volute Case Square-Ring (2-pack)	305463021		Nitrile
100B	Sleeve O-Ring (2-pack)	305463205		Nitrile
101	Sleeve Seal	305463206		Nitrile
150A	Tubing, Balance	305463022		Polypropylene
150B	Hose Connector (2-pack)	305463023		Bronze
200	Motor JM Frame	See Motor Specifications		See Motor Specifications
500	Pipe Plug (4-pack)	305463020		Zinc-plated Steel
503	Water Slinger	305447008		Neoprene
510	Impeller Hex Cap Screw	305463019		17-4 Stainless Steel
520	Impeller Washer	305450015		18-8 Stainless Steel
530A	Motor Bracket Hex Cap Screw (12-pack)	305463026	305463208	Zinc-plated Steel
530B	Volute Case Hex Cap Screw (12 pack)	305463026		Zinc-plated Steel

Motor Fitment					
Figure No.	RPM	HP	Frame	AK	Shaft Dia
200	3600	20 - 25	254 - 256JM	8.5	1.25
		30 - 50	284 - 326JM	12.5	1.25

Refer to motor specifications page for replacement information
Motor Frame can be determined by the pump order number and or motor nameplate

ALTERNATE SILICON CARBIDE SEALS

Shaft Sleeve O.D.	Stationary Socket		Seal Working Height	HP Range	Motor Frame Sizes	D Series Where Used	Materials of Construction		Replacement Part
	Diameter	Depth							
3/4"	1-3/8"	13/32"	7/8"	1/3 - 3	56C with Shaft Coupling	DA1A,DAL1A, DA1B,DAL1B, DB1, DBL1, DB1-1/2, DBL1-1/2, DB2, DBL2	Standard	CarbonxCeramicxEPDMx18-8SS	305463203
							Alt. 1	SiCxSiCxEPDMx18-8SS	305613902
							Alt. 2	SiCxSiCxFKMx18-8SS	305613901
1-1/4"	1-7/8"	7/16"	1-5/8"	3 - 15	143-215JM	DB1, DB1-1/2, DC1-1/2, DCL1-1/2, DB2, DB3	Standard	CarbonxCeramicxEPDMx18-8SS	305463002
							Alt. 1	SiCxSiCxEPDMx18-8SS	305613903
							Alt. 2	SiCxSiCxFKMx18-8SS	305613904
1-3/4"	2-1/2"	1/2"	2"	20 - 50	254-326JM	DC2, DB3, DC4	Standard	CarbonxCeramicxEPDMx18-8SS	305463204
							Alt. 1	SiCxSiCxEPDMx18-8SS	305613906
							Alt. 2	SiCxSiCxFKMx18-8SS	305613905

CROSS-REFERENCE

NEW BRACKET/VOLUTE KITS

Series	AK	HP	Frame Size	Old Bracket No.	Old Volute No.	New Bracket Volute Kit No.
DB1 (56C)	4.5	3/4 - 3	56C	177736901	03076403	305429901
DB1-1/2 (56C)		1 - 3			03076700	305429903
DB2 (56C)		3 - 5			03076601	305429907
DB1		3 - 5	145JM/182JM/184JM	177735901	03076403	305429902
DB1-1/2		3 - 7-1/2			03076700	305429904
DB2		3 - 7-1/2			03076601	305429908
DB3		5 - 7-1/2			03084001	305429912
DC1-1/2		3 - 7-1/2	145JM/182JM/184JM	177741901	03076502	305429905
DC1-1/2	8.5	10 - 15	213JM/215JM	177739901	03076502	305429906
DB2		15			03076205	305429910
DB2		10	213JM/215JM	177737901	03076601	305429909
DB3		10 - 15			03084001	305429913
DB2		20	254JM	177740901	03076205	305429911
DB3		20	254JM	177738901	03084001	305429914

NOTE: Pumps built prior to August 2008; if replacement is required for the bracket or volute, the new bracket/volute kit must be ordered; all of the other components of the pump are interchangeable. Old bracket and volute models cannot be mixed with the newly-designed bracket and volute (with the exception of the DA1A/B and the DC4 Series). All of the new volutes have the FE logo cast in them. The newly designed components will be phased in as the inventory of the current design is depleted.

NOTES

CLOSE-COUPLED D-SERIES

NOTES

CLOSE-COUPLED D-SERIES

NOTES

CLOSE-COUPLED D-SERIES


Franklin Electric