

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES



FEATURES

- Heavy-duty cast iron body for increased durability
- Stainless steel impellers (DA1A and DA1B)
- Bronze impellers (DB1 through DB2/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

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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CENTRIFUGAL PUMPS

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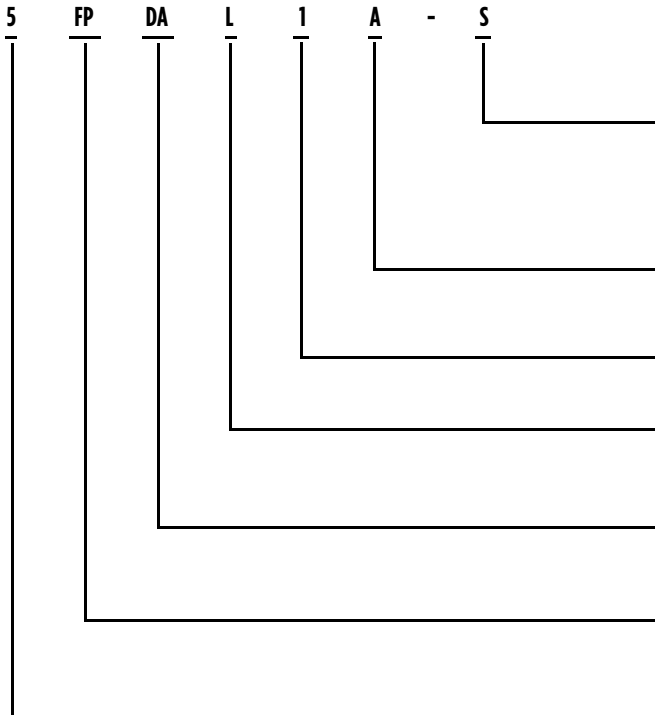
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NOMENCLATURE



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"
1800	DC4	Cast Iron	Cast Iron	Carbon/Ceramic/Nitrile/316 S.S.	250-625	100-300	20 - 50	4" x 4"
	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"

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES



MASTER PERFORMANCE

3600 RPM

DAIA	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	
5FPDAIA	1/2	4.13	0.91	Cast Iron	304 S.S.			40	35	30	25	17										28
7FPDAIA	3/4	4.69	0.91	Cast Iron	304 S.S.						41	38	30	17								36
1FPDAIA	1	5.06	0.91	Cast Iron	304 S.S.								41	37	26							43

DAIB	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

DBI	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
7FPDBI	3/4	4.25	0.99	Cast Iron	Bronze	61	58	54	49	46	41	29											31
1FPDBI	1	4.75	0.99	Cast Iron	Bronze			67	63	59	56	46	36	20									36
15FPDBI	1-1/2	5.19	0.99	Cast Iron	Bronze						72	65	58	50	39	28							47
2FPDBI	2	5.50	0.99	Cast Iron	Bronze							74	68	61	53	45	33						53
3FPDBI	3	6.13	0.99	Cast Iron	Bronze									78	73	67	61	54	46	37			65
5FPDBI	5	6.44	0.99	Cast Iron	Bronze												80	74	68	62	53	42	75

DBI-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
3FPDCI-1/2	3	5.06	0.92	Cast Iron	Bronze	130	120	108	92	70													43
5FPDCI-1/2	5	5.81	0.92	Cast Iron	Bronze			155	144	132	118	100	84	56									58
75FPDCI-1/2	7-1/2	6.63	0.92	Cast Iron	Bronze							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	Bronze								176	167	156	143	126	106					95	
15FPDC1-1/2	15	8.38	0.92	Cast Iron	Bronze															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	Bronze	175	160	145	125	100	65											22	
2FPDB2	2	4.00	0.94	Cast Iron	Bronze		185	170	160	145	125	100										25	
3FPDB2	3	4.50	0.94	Cast Iron	Bronze						175	165	140	90								32	
5FPDB2	5	5.13	0.94	Cast Iron	Bronze								235	210	190	160						43	
75FPDB2	7-1/2	5.81	0.94	Cast Iron	Bronze										260	240	225	200	160			58	
10FPDB2	10	6.44	0.94	Cast Iron	Bronze											310	290	275	260	185		74	
15FPDC2	15	7.25	0.91	Cast Iron	Bronze														350	305	205	100	
20FPDC2	20	7.94	0.91	Cast Iron	Bronze															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

DALIA	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	
3FPDALIA	1/3	5.06	N/A	Cast Iron	304 S.S.		20	19.5	19	18	16	14	10	10

DALIB	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	
3FPDALIB	1/3	5.06	N/A	Cast Iron	304 S.S.	35	34	32	31	30	28	24	18	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	
3FPDBL1	1/3	5.50	N/A	Cast Iron	Bronze		39	32	25	12				14
5FPDBL1	1/2	6.13	N/A	Cast Iron	Bronze			39	33	26	16			17
7FPDBL1	3/4	6.44	N/A	Cast Iron	Bronze				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	
3FPBDL1-1/2	1/3	4.63	0.90	Cast Iron	Bronze	64	50	24						10
5FPBDL1-1/2	1/2	5.13	0.90	Cast Iron	Bronze		66	52	30					12
7FPBDL1-1/2	3/4	5.75	0.90	Cast Iron	Bronze			84	70	54				16
1FPBDL1-1/2	1	6.44	0.90	Cast Iron	Bronze				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	
1FPDCL1-1/2	1	6.63	0.94	Cast Iron	Bronze	92	67	45						20
15FPDCL1-1/2	1-1/2	7.31	0.94	Cast Iron	Bronze		90	81	68	48				25
2FPDCL1-1/2	2	8.38	0.94	Cast Iron	Bronze						93	83	70	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	
5FPDBL2	1/2	4.50	0.91	Cast Iron	Bronze	93	66							8
7FPDBL2	3/4	5.13	0.91	Cast Iron	Bronze		112	88						11
1FPDBL2	1	5.81	0.91	Cast Iron	Bronze			127	104	70				14
15FPDBL2	1-1/2	6.44	0.91	Cast Iron	Bronze			156	144	128	108	69		18

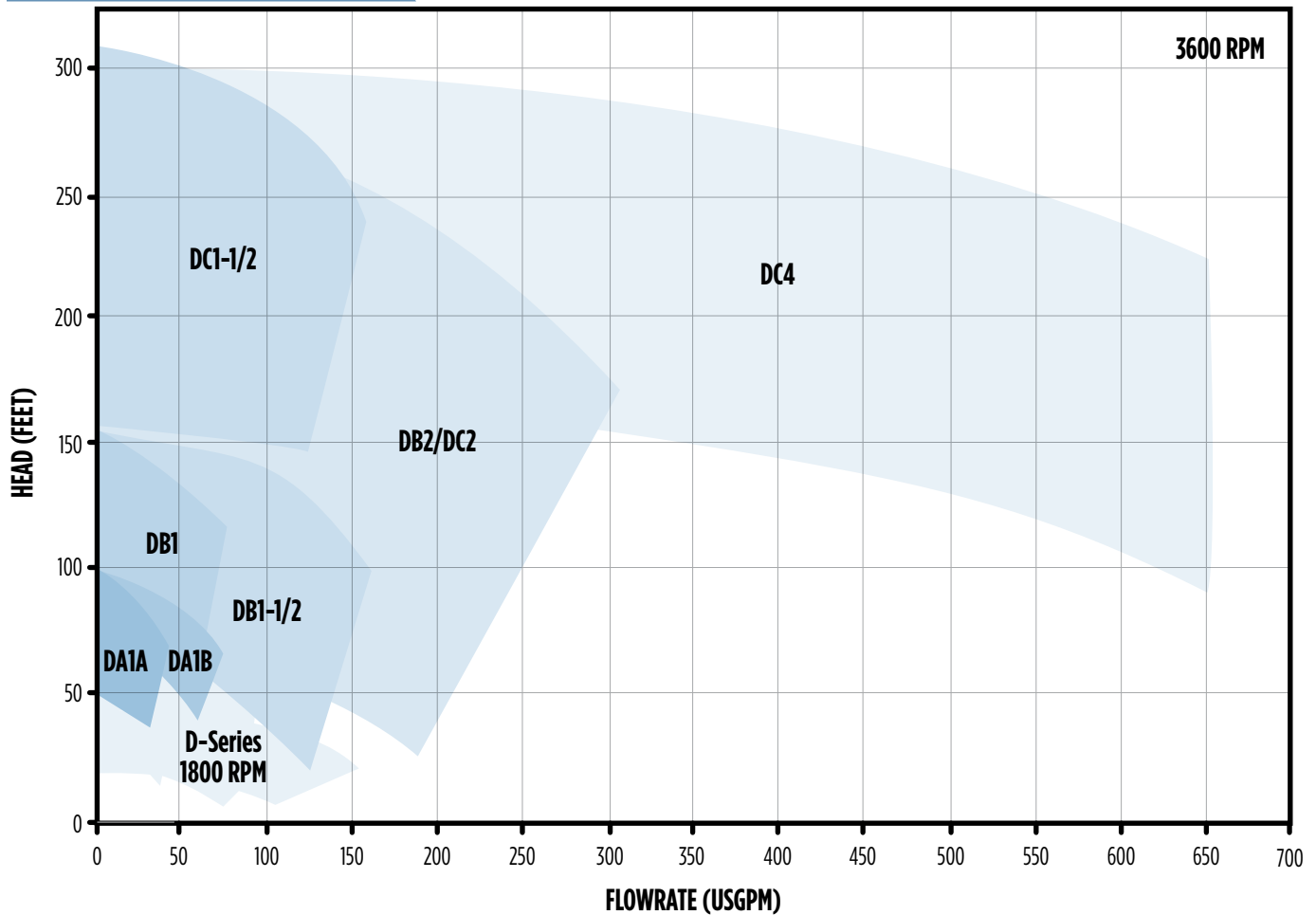
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PERFORMANCE RANGE



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

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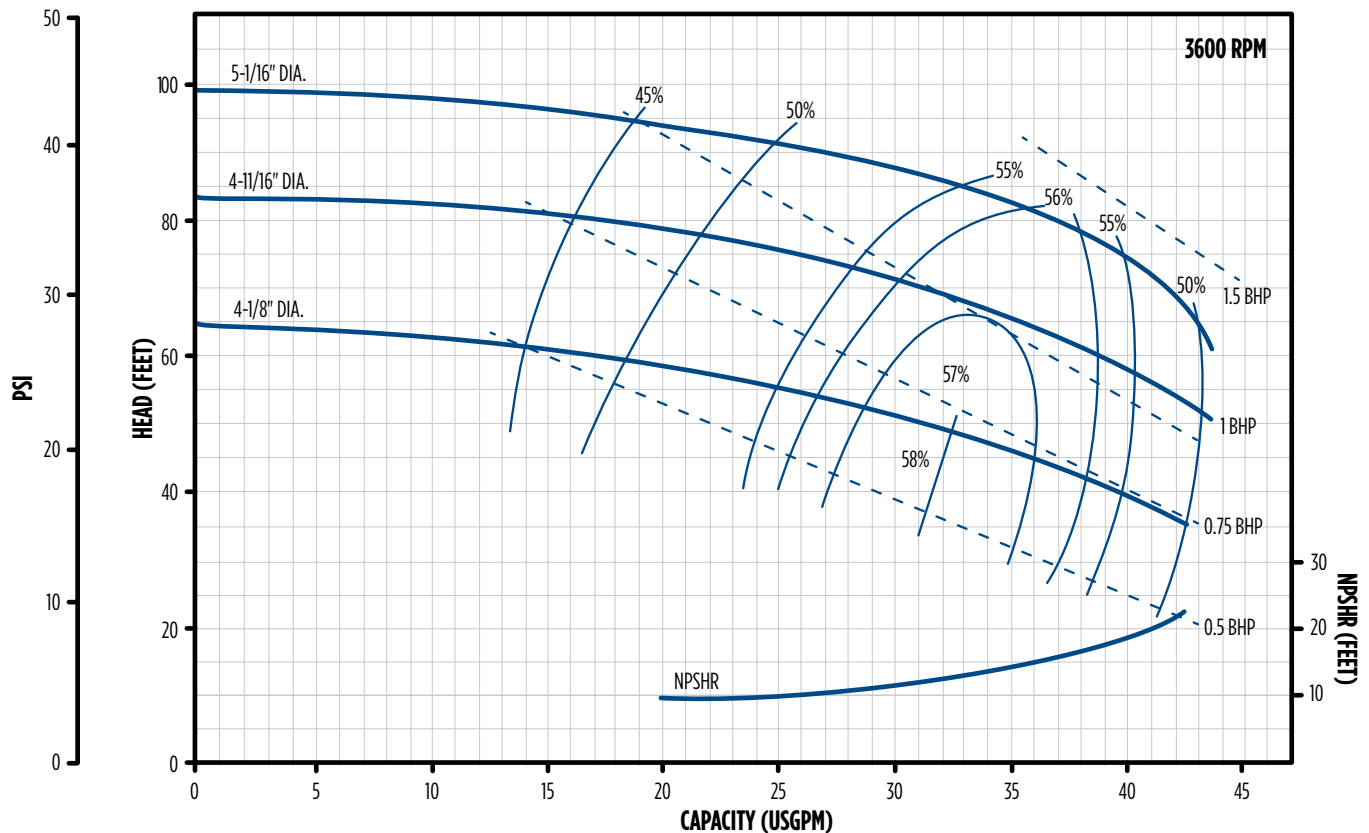
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PERFORMANCE

DATA

Basic Model	PEI _{CL} Number
DA1A	0.91



Series	Enclosure	PH	Volts	HP	Motor Fit Code	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DA1A 1.25 x 1 NPT 3600 RPM	ODP	1	115/230	1/2	56C	4.13	93160020	5FPDA1A-S	33
				3/4	56C	4.69	93160038	7FPDA1A-S	39
				1	56C	5.06	93160046	1FPDA1A-S	44
		3	208-230/460	1/2	56C	4.13	93160061	5FPDA1A-T	30
				3/4	56C	4.69	93160079	7FPDA1A-T	35
				1	56C	5.06	93160087	1FPDA1A-T	38
	TEFC*	1	115/230	3/4	56C	4.13	93161020	5FPDA1A-SE	36
				1	56C	4.69	93161038	7FPDA1A-SE	38
				1-1/2	56C	5.06	93161046	1FPDA1A-SE	40
				3/4	56C	4.13	93161061	5FPDA1A-TE	31
		3	230/460	1	56C	4.69	93161079	7FPDA1A-TE	33
				1-1/2	56C	5.06	93161087	1FPDA1A-TE	35
				3/4	56C	4.13	93161062	5FPDA1A-TE5	31
				1	56C	4.69	93161080	7FPDA1A-TE5	33
				1-1/2	56C	5.06	93161088	1FPDA1A-TE5	35
			575	1	56C	4.69	93161080	7FPDA1A-TE5	33
				1-1/2	56C	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.

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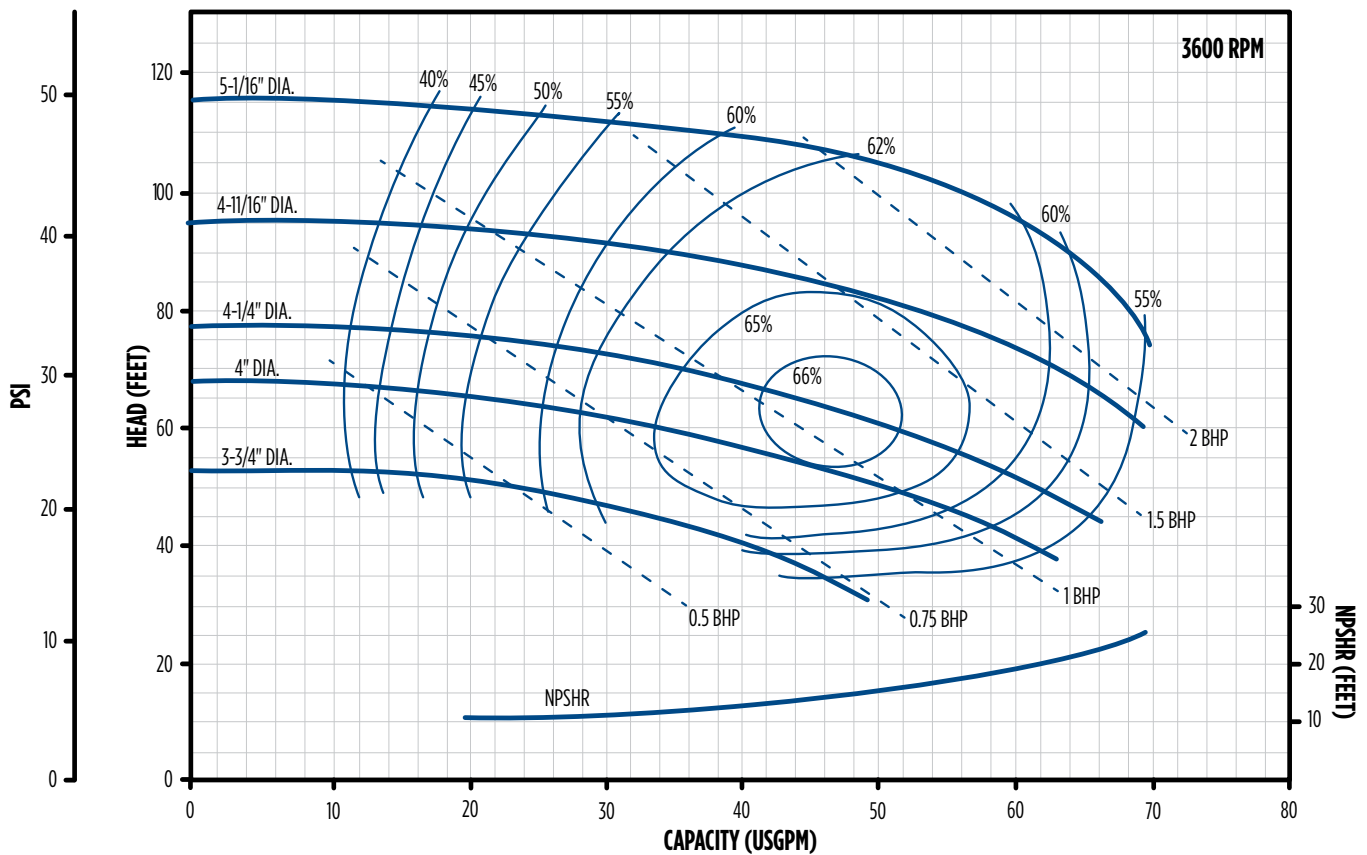
DA1B

Basic Model

PEI_{CL} Number

DA1B

0.88



Series	Enclosure	PH	Volts	HP	Motor Fit Code	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DA1B 1.25 x 1 NPT 3600 RPM	ODP	1	115/230	1/2	56C	3.75	93160137	5FPDA1B-S	33
				3/4	56C	4.00	93160145	7FPDA1B-S	39
				1	56C	4.25	93160152	1FPDA1B-S	44
				1-1/2	56C	4.6875	93160160	15FPDA1B-S	46
				2	56C	5.0625	93160178	2FPDA1B-S	47
		3	208-230/460	1/2	56C	3.75	93160186	5FPDA1B-T	30
				3/4	56C	4.00	93160194	7FPDA1B-T	35
				1	56C	4.25	93160202	1FPDA1B-T	38
				1-1/2	56C	4.6875	93160210	15FPDA1B-T	43
				2	56C	5.0625	93160228	2FPDA1B-T	48
	TEFC*	1	115/230	3/4	56C	3.75	93161137	5FPDA1B-SE	36
				1	56C	4.00	93161145	7FPDA1B-SE	38
				1-1/2	56C	4.25	93161152	1FPDA1B-SE	40
				2	56C	4.6875	93161160	15FPDA1B-SE	46
				3	56C	5.0625	93161178	2FPDA1B-SE	49
		3	208-230/460	3/4	56C	3.75	93161186	5FPDA1B-TE	31
				1	56C	4.00	93161194	7FPDA1B-TE	33
				1-1/2	56C	4.25	93161202	1FPDA1B-TE	35
				2	56C	4.6875	93161210	15FPDA1B-TE	45
				3	56C	5.0625	93161228	2FPDA1B-TE	48
			575	3/4	56C	3.75	93161187	5FPDA1B-TE5	31
				1	56C	4.00	93161195	7FPDA1B-TE5	33
				1-1/2	56C	4.25	93161203	1FPDA1B-TE5	35
				2	56C	4.6875	93161211	15FPDA1B-TE5	45
				3	56C	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: 5FPDA1A-SE utilizes a 3/4 hp motor.

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FPS

PERFORMANCE

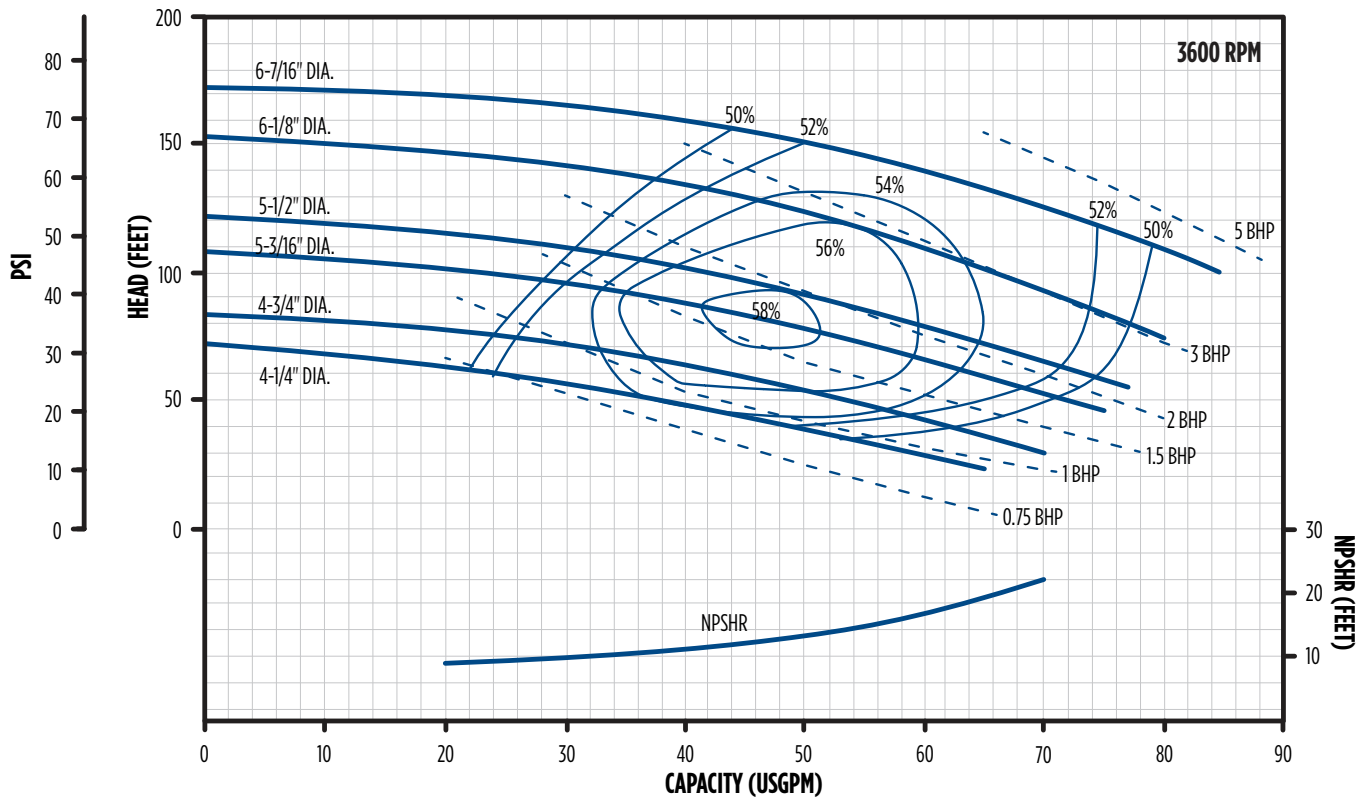
DBI

Basic Model

PEI_{CL} Number

DBI

0.99



Series	Enclosure	PH	Volts	HP	Motor Fit Code	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DBI 1.5 x 1 NPT 3600 RPM	ODP	1	115/230	3/4	56C	4.25	93160285	7FPDBI-S	49
				1	56C	4.75	93160293	1FPDBI-S	54
			230	1-1/2	56C	5.19	93160301	15FPDBI-S	56
				2	56C	5.50	93160319	2FPDBI-S	57
				3	JM-1	6.13	93160328	3FPDBI-S	54
		3	208-230/460	5	JM-1	6.44	93160335	5FPDBI-S	79
				3/4	56C	4.25	93160343	7FPDBI-T	45
				1	56C	4.75	93160350	1FPDBI-T	48
				1-1/2	56C	5.19	93160368	15FPDBI-T	53
				2	56C	5.50	93160376	2FPDBI-T	58
			575	3	JM-1	6.13	93160385	3FPDBI-T	61
				5	JM-1	6.44	93160392	5FPDBI-T	76
				3	JM-1	6.13	93160386	3FPDBI-T5	81
				5	JM-1	6.44	93160393	5FPDBI-T5	85
	TEFC*	1	115/230	1	56C	4.25	93161285	7FPDBI-SE	42
				1-1/2	56C	4.75	93161293	1FPDBI-SE	45
			230	2	56C	5.19	93161301	15FPDBI-SE	55
				3	56C	5.50	93161319	2FPDBI-SE	53
				3	JM-1	6.13	93161328	3FPDBI-SE	131
		3	208-230/460	5	JM-1	6.44	93161335	5FPDBI-SE	161
				1	56C	4.25	93161343	7FPDBI-TE	48
				1-1/2	56C	4.75	93161350	1FPDBI-TE	50
				2	56C	5.19	93161368	15FPDBI-TE	52
				3	56C	5.50	93161376	2FPDBI-TE	54
			575	3	JM-1	6.13	93161385	3FPDBI-TE	84
				5	JM-1	6.44	93161392	5FPDBI-TE	120
				1	56C	4.25	93161344	7FPDBI-TE5	48
				1-1/2	56C	4.75	93161351	1FPDBI-TE5	50
				2	56C	5.19	93161369	15FPDBI-TE5	52
				3	56C	5.50	93161377	2FPDBI-TE5	54
				3	JM-1	6.13	93161386	3FPDBI-TE5	84
				5	JM-1	6.44	93161393	5FPDBI-TE5	120

* 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.

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

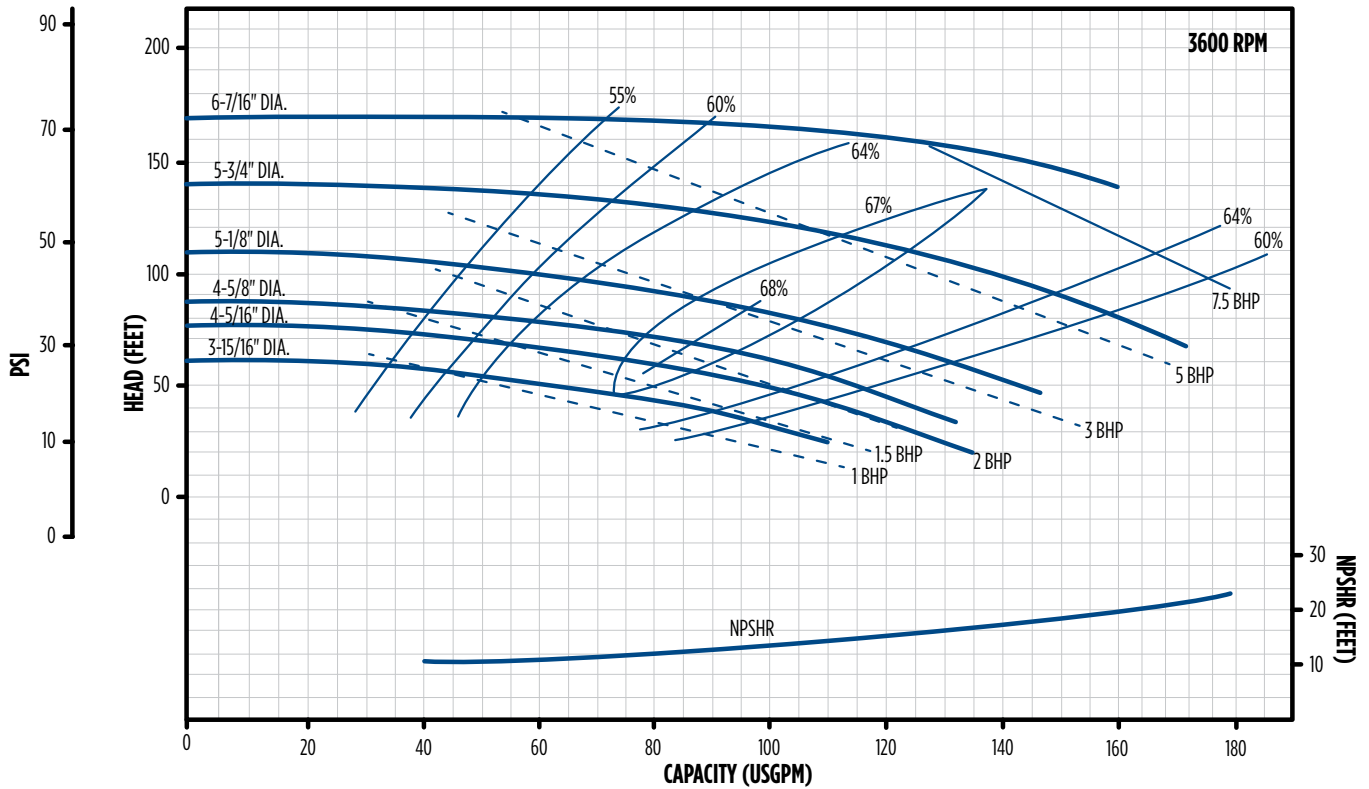
MENU

FPS

PERFORMANCE

DB1-1/2

Basic Model	PE _{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
		3	208-230/460	7-1/2	JM-2	6.44	93160518	75FPDB1-1/2-S	112
				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
			575	7-1/2	JM-1	6.44	93160574	75FPDB1-1/2-T	89
				3	JM-1	5.13	93160560	3FPDB1-1/2-T5	64
				5	JM-1	5.75	93160567	5FPDB1-1/2-T5	103
		TEFC*	1	7-1/2	JM-1	6.44	93160575	75FPDB1-1/2-T5	117
			115/230	1-1/2	56C	3.94	93161467	1FPDB1-1/2-SE	50
				2	56C	4.31	93161475	15FPDB1-1/2-SE	54
				3	56C	4.63	93161483	2FPDB1-1/2-SE	58
			208-230	3	JM-1	5.13	93161492	3FPDB1-1/2-SE	98
				5	JM-1	5.75	93161509	5FPDB1-1/2-SE	161
		3	208-230/460	7-1/2	JM-2	6.44	93161517	75FPDB1-1/2-SE	215
				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
			575	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
				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: 5FPDA1A-SE utilizes a 3/4 hp motor.

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

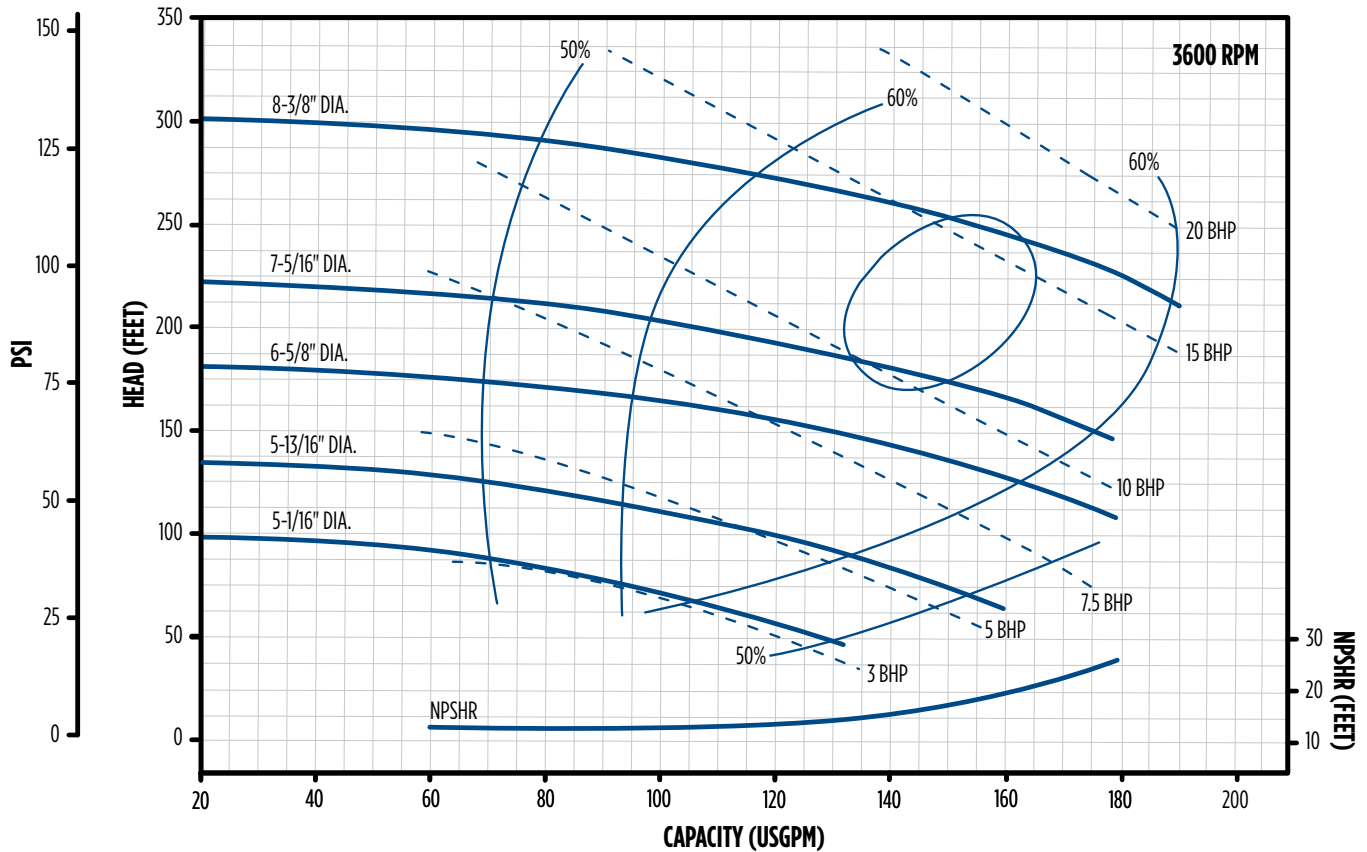
MENU



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
			575	3	JM-1	5.06	93160864	3FPDC1-1/2-5	93
				5	JM-1	5.81	93160872	5FPDC1-1/2-5	108
				7-1/2	JM-1	6.63	93160890	75FPDC1-1/2-5	122
				10	JM-2	7.31	93160898	10FPDC1-1/2-5	192
				15	JM-2	8.38	93160906	15FPDC1-1/2-5	186
	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

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

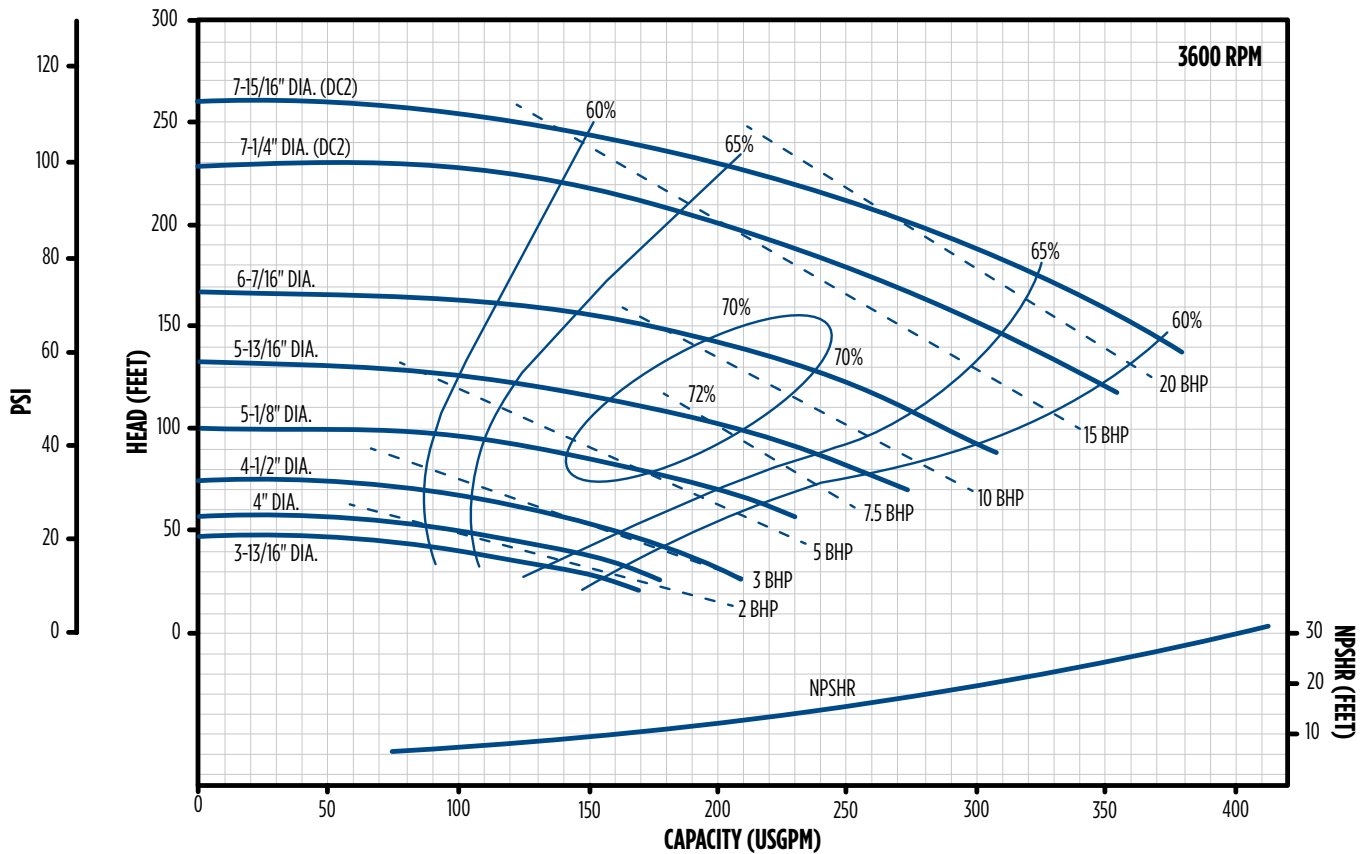
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FPS

PERFORMANCE

DB2/DC2

Basic Model	PEI _{CL} Number
DB2	0.94
DC2	0.91



Series	Enclosure	PH	Volts	HP	Motor Fit Code	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DB2/ DC2	3 x 2 NPT	ODP	115/230	1-1/2	56C	3.81	93160657	15FPDB2-S	57
				2	56C	4.00	93160665	2FPDB2-S	60
				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
			230	7-1/2	JM-2	5.81	93160700	75FPDB2-S	150
				10	JM-2	6.44	93161150	10FPDB2-S	171
				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
	3 x 2 NPT	TEFC	208- 230/460	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
			575	3	JM-1	4.50	93160725	3FPDB2-S	98
				5	JM-1	5.13	93160732	5FPDB2-S	113
				7-1/2	JM-1	5.81	93160750	75FPDB2-S	127
				10	JM-2	6.44	93160757	10FPDB-S	197
				15	JM-2	7.25	93161052	15FPDC2-S	191
				20	JM-3	7.94	93161070	20FPDC2-S	265

Series	Enclosure	PH	Volts	HP	Motor Fit Code	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DB2/ DC2	3 x 2 NPT	TEFC	115/230	2	56C	3.81	93161657	15FPDB2-SE	57
				3	JM-1	4.50	93161674	3FPDB2-SE	128
				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
			230	7-1/2	JM-2	5.81	93161699	75FPDB2-SE	181
				10	JM-2	6.44	93162150	10FPDB2-SE	187
				2	56C	3.81	93161707	15FPDB2-TE	57
				3	56C	4.00	93161715	2FPDB2-TE	60
				3	JM-1	4.50	93161724	3FPDB2-TE	82
	3 x 2 NPT	TEFC	230/460	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
			575	20	JM-3	7.94	93162069	20FPDC2-TE	184
				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

CENTRIFUGAL PUMPS

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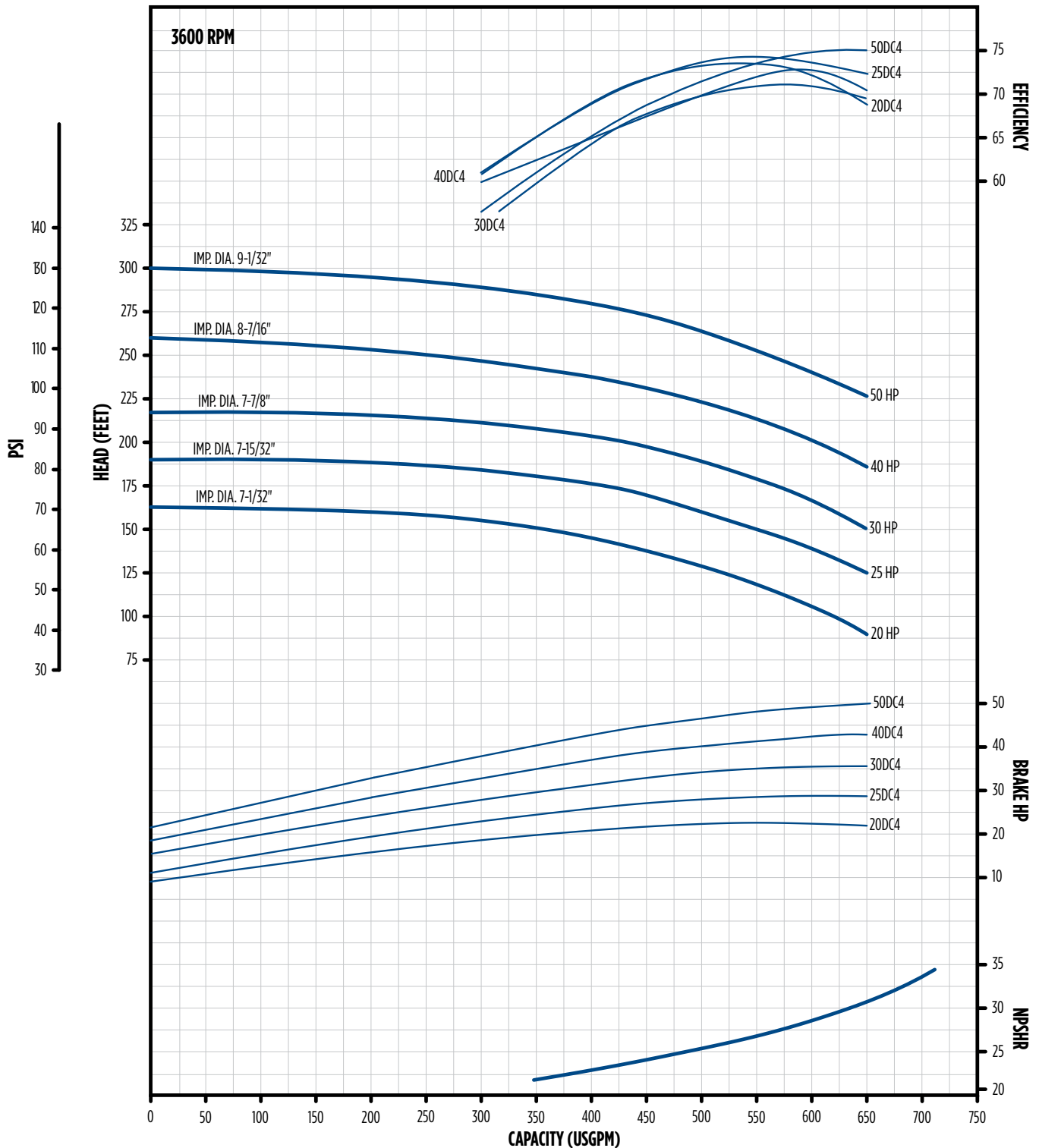


MENU

PERFORMANCE

DC4

Basic Model	PEI _{CL} Number
DC4	0.97



CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

☰ MENU



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
			575	20	JM-3	7.03	93167711	20FPDC4-5	312
				25	JM-3	7.47	93167729	25FPDC4-5	325
				30	JM-4	7.88	93167737	30FPDC4-5	389
				40	JM-4	8.44	93167745	40FPDC4-5	433
				50	JM-4	9.03	93167786	50FPDC4-5	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

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

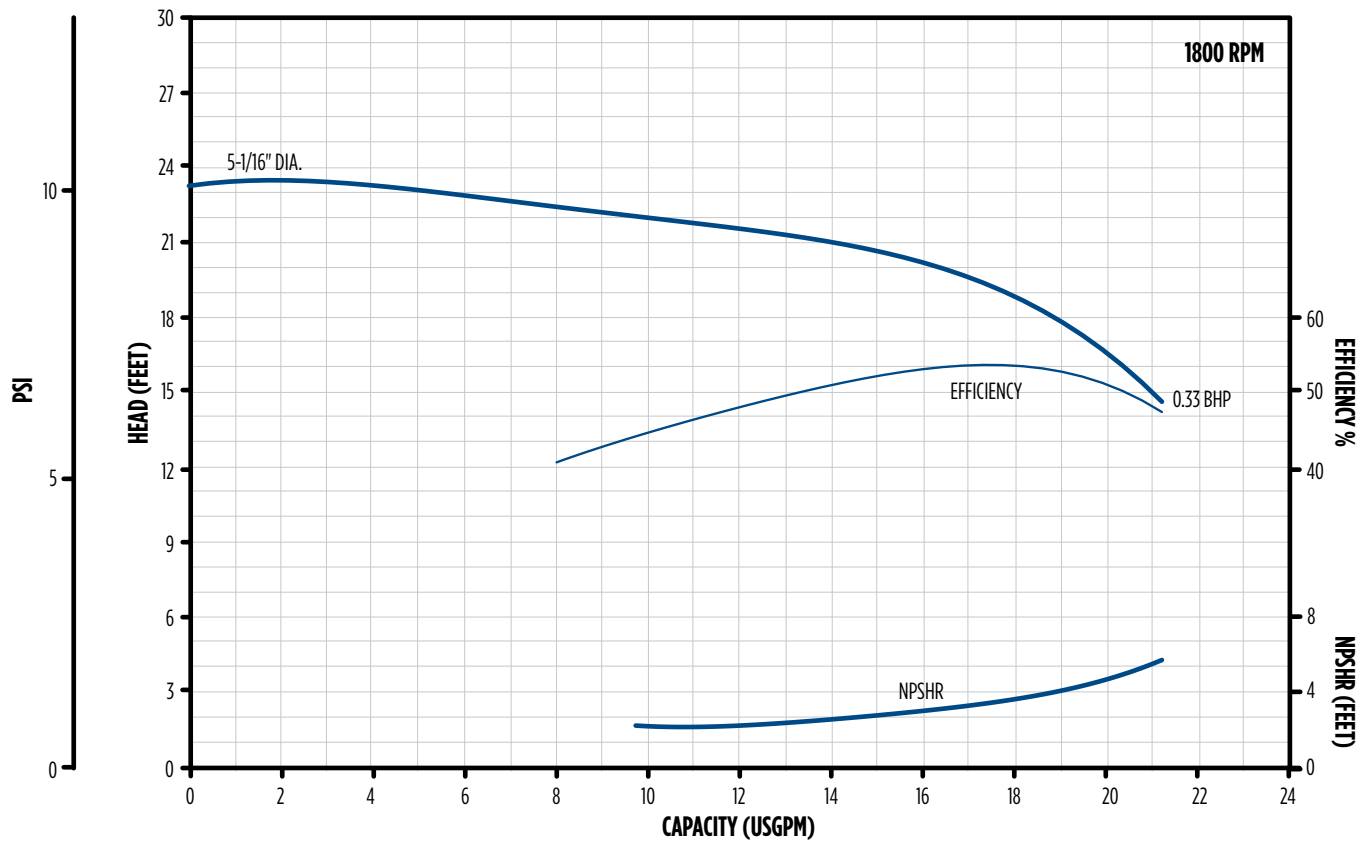
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PERFORMANCE

DAL1A

Basic Model	PEI _{CL} Number
DAL1A	N/A



Series	Enclosure	PH	Volts	HP	Motor Fit Code	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DAL1A 1.25 x 1 NPT 1800 RPM	TEFC	1	115/230	1/3	56C	5.06	93162046	3FPDAL1A-SE	37
		3	230/460	1/3	56C	5.06	93162087	3FPDAL1A-TE	37

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

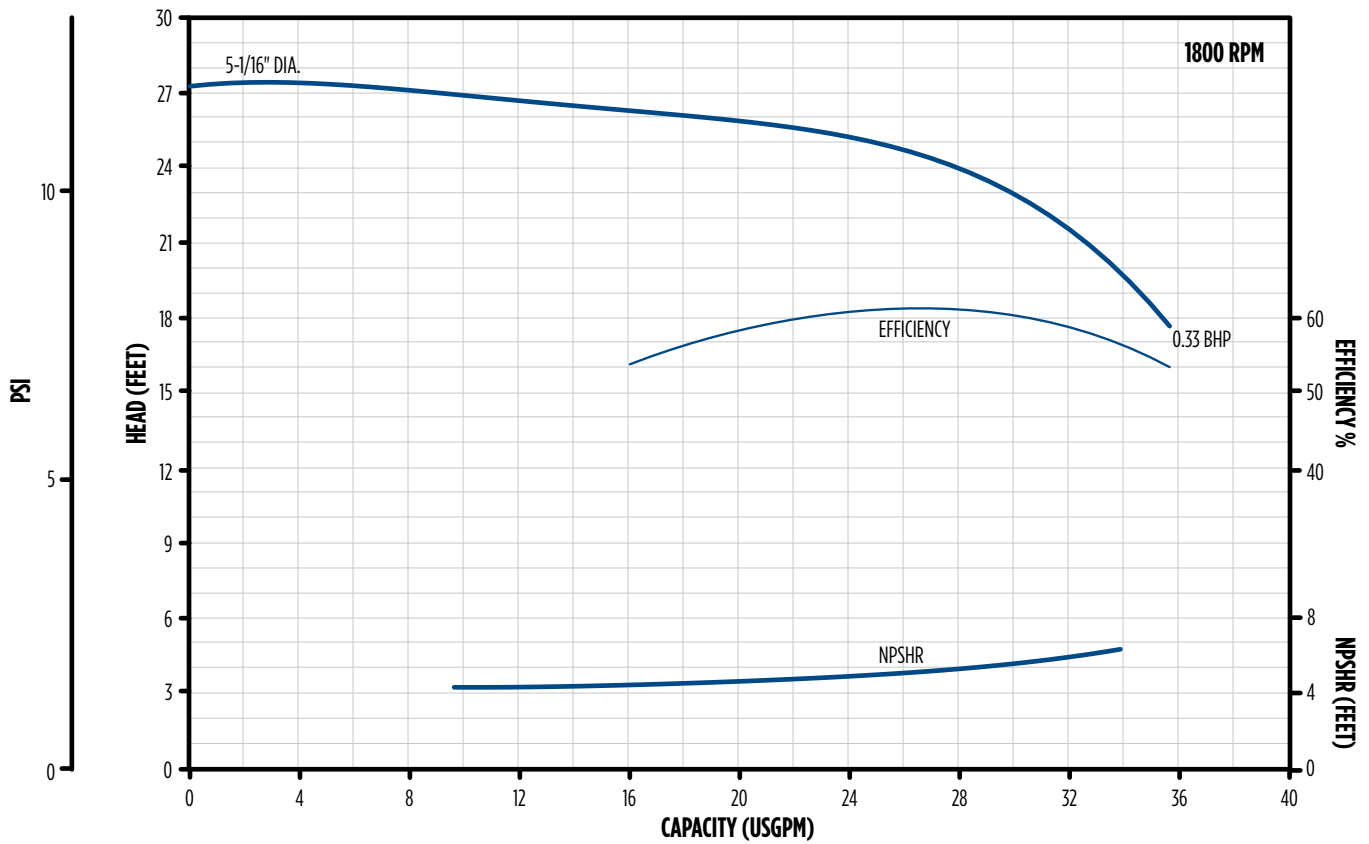
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PERFORMANCE

DAL1B

Basic Model	PEI _{CL} Number
DAL1B	N/A



Series	Enclosure	PH	Volts	HP	Motor Fit Code	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DAL1B 1.25 x 1 NPT 1800 RPM	TEFC	1	115/230	1/3	56C	5.06	93162178	3FPDAL1B-SE	48
		3	230/460	1/3	56C	5.06	93162228	3FPDAL1B-TE	48

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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FPS

PERFORMANCE

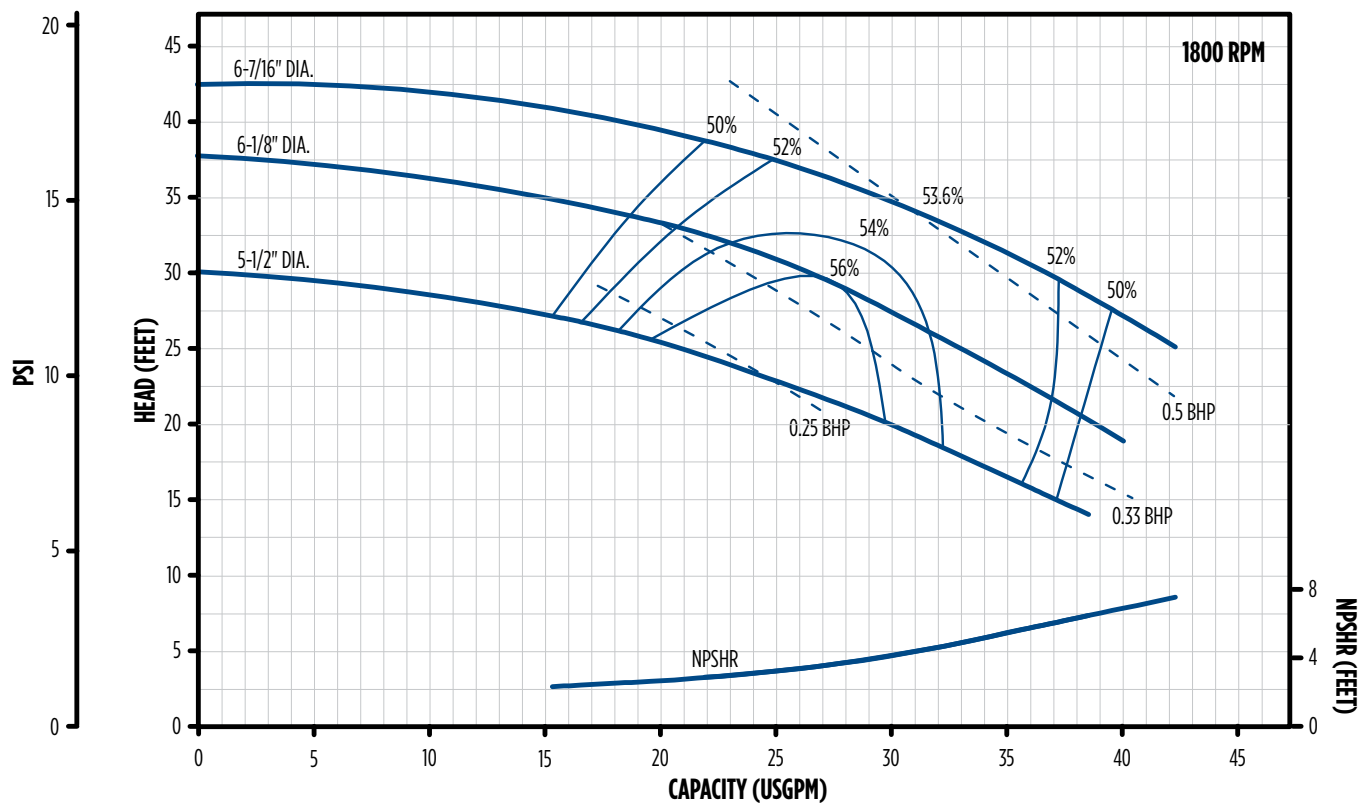
DBL1

Basic Model

PEI_{CL} Number

DBL1

N/A



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

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

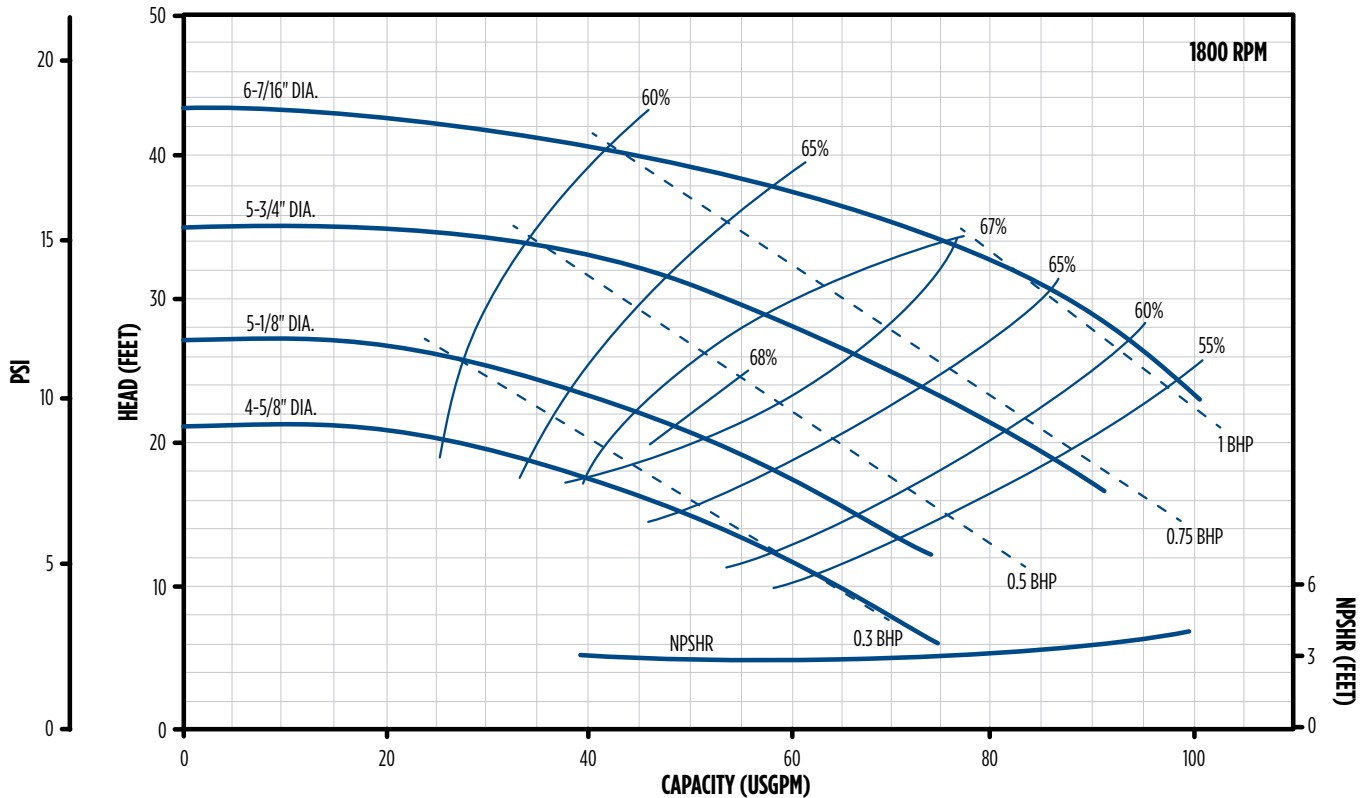
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PERFORMANCE

DBL1-1/2

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



Series	Enclosure	PH	Volts	HP	Motor Fit Code	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	56C	4.63	93162483	3FPDBL1-1/2-SE	48
				1/2	56C	5.13	93162492	5FPDBL1-1/2-SE	53
				3/4	56C	5.75	93162509	7FPDBL1-1/2-SE	59
				1	56C	6.44	93162517	1FPDBL1-1/2-SE	66
		3	230/460	1/3	56C	4.63	93162541	3FPDBL1-1/2-TE	59
				1/2	56C	5.13	93162559	5FPDBL1-1/2-TE	57
				3/4	56C	5.75	93162566	7FPDBL1-1/2-TE	61
				1	56C	6.44	93162574	1FPDBL1-1/2-TE	62

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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PERFORMANCE

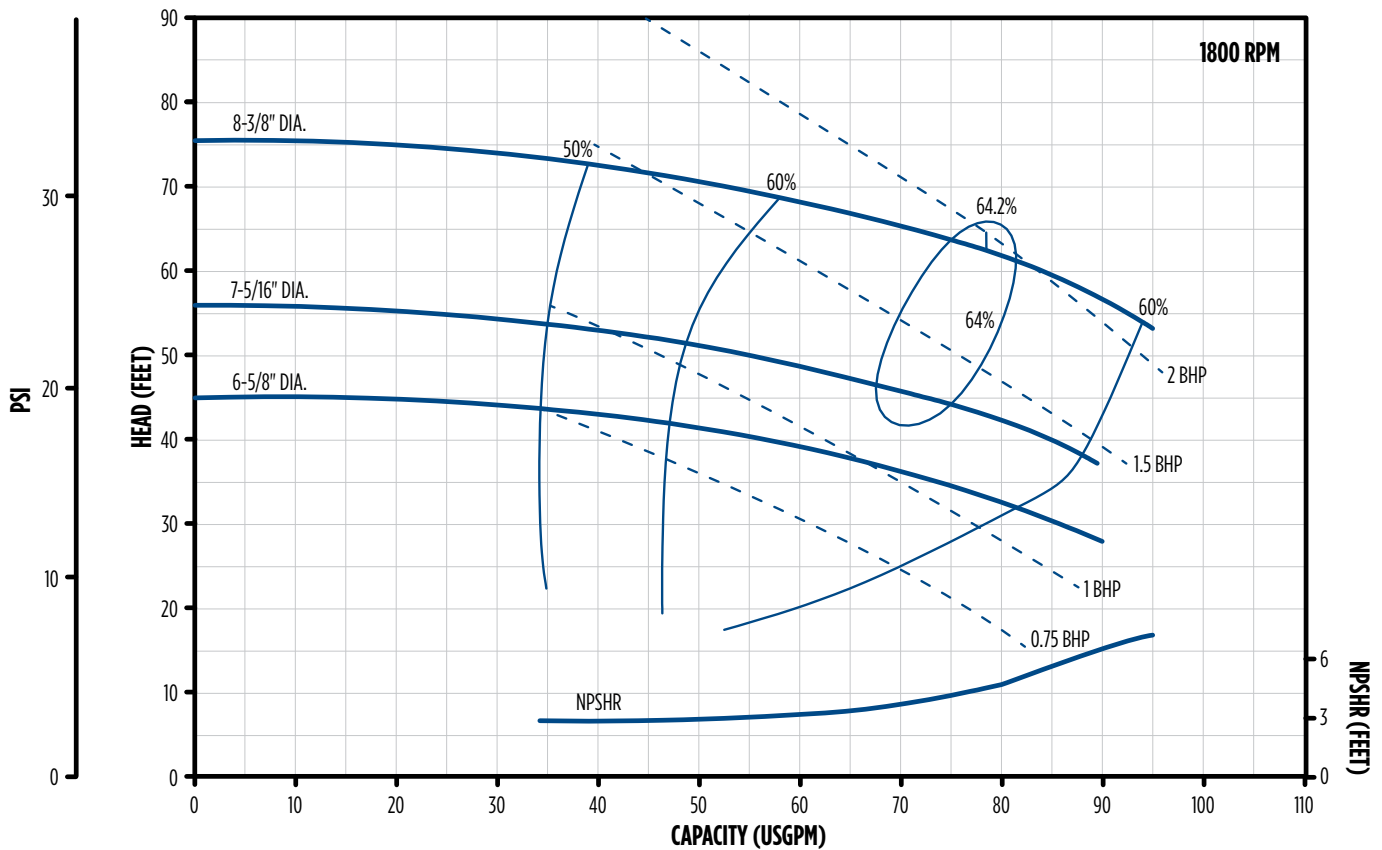
DCL1-1/2

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

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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PERFORMANCE

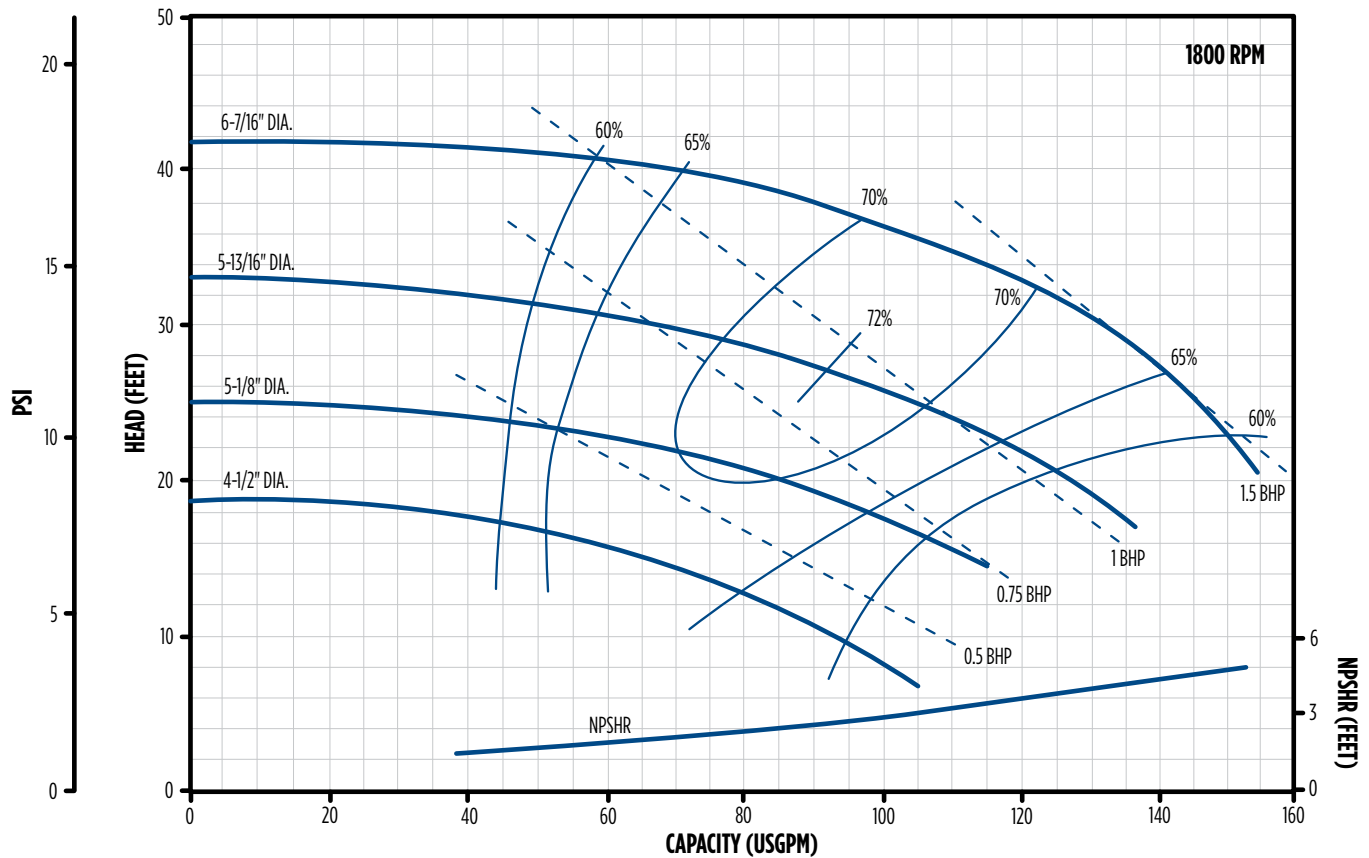
DBL2

Basic Model

PEI_{CL} Number

DBL2

0.91



Series	Enclosure	PH	Volts	HP	Motor Fit Code	Impeller Trim (in)	Order No.	Model No.	Wt. (lbs)
DBL2 3 x 2 NPT 3600 RPM	TEFC	1	115/230	1/2	56C	4.50	93162674	5FPDBL2-SE	58
				3/4	56C	5.13	93162681	7FPDBL2-SE	64
				1	56C	5.81	93162699	1FPDBL2-SE	71
				1-1/2	56C	6.44	93163150	15FPDBL2-SE	79
		3	230/460	1/2	56C	4.50	93162724	5FPDBL2-TE	62
				3/4	56C	5.13	93162731	7FPDBL2-TE	66
				1	56C	5.81	93162749	1FPDBL2-TE	67
				1-1/2	56C	6.44	93162756	15FPDBL2-TE	73

CENTRIFUGAL PUMPS

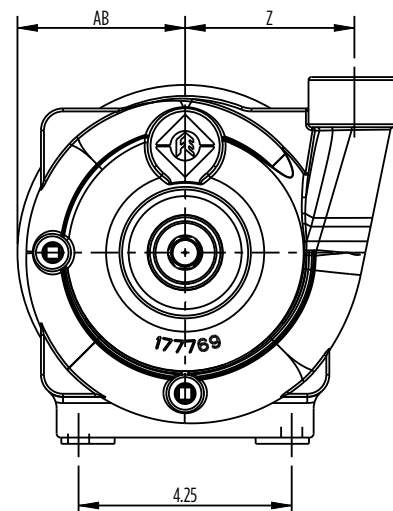
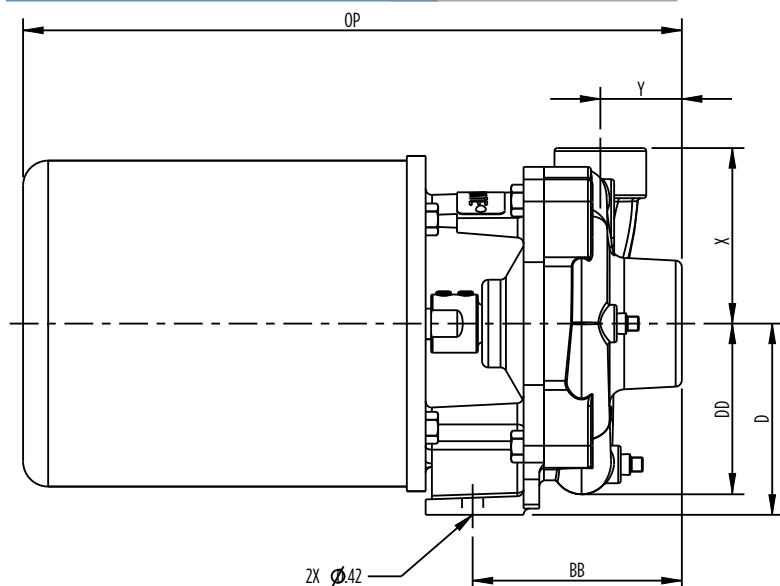
CLOSE-COUPLED D-SERIES

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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
				93160137	5FPDA1B-S	1/2	1	3.81	3.50	1.63	3.38	n/a	4.17	3.40	15.92
DA1B	1-1/4" x 1"	3600	ODP	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
			TEFC	93160210	15FPDA1B-T	1.5	3								14.25
				93160178	2FPDA1B-S	2	1								15.79
				93160228	2FPDA1B-T	2	3								14.76
				93161137	5FPDA1B-SE	3/4	1					5.31			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	3FPDAL1B-TE	1/3	3					5.74			16.54

CENTRIFUGAL PUMPS

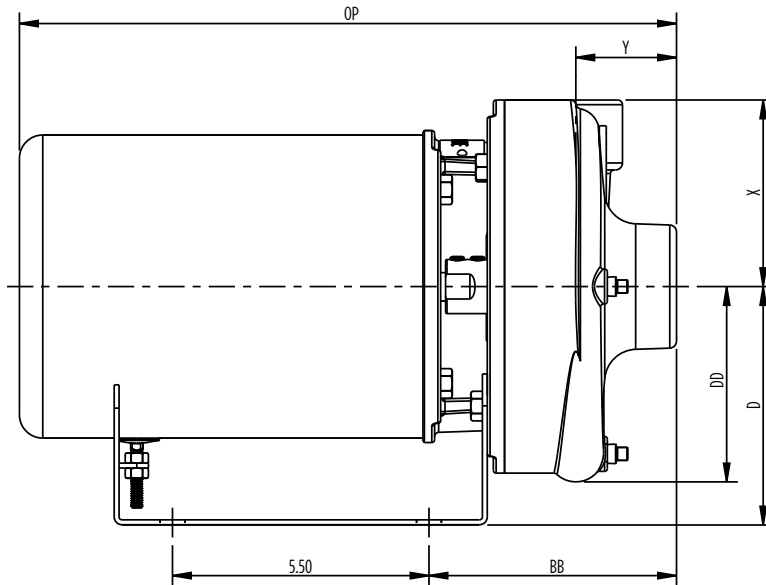
CLOSE-COUPLED D-SERIES

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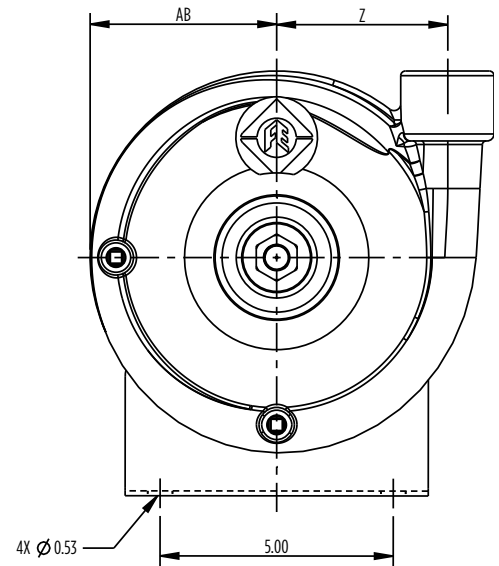


DIMENSIONS

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
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	5.11	4.00	2.16	3.66	5.31	5.31	4.19	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
				93160467	1FPDB1-1/2-S	1	1								16.94
				93160525	1FPDB1-1/2-T	1	3								14.49
DB1-1/2	2" x 1-1/2"	3600	ODP	93160475	15FPDB1-1/2-S	1.5	1	5.11	4.50	2.37	3.91	n/a	5.37	4.53	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
				93161467	1FPDB1-1/2-SE	1.5	1					5.31			16.03
				93161525	1FPDB1-1/2-TE	1.5	3					5.72			15.75
			TEFC	93161475	15FPDB1-1/2-SE	2	1	5.11	4.50	2.37	3.91	5.72	5.37	4.53	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

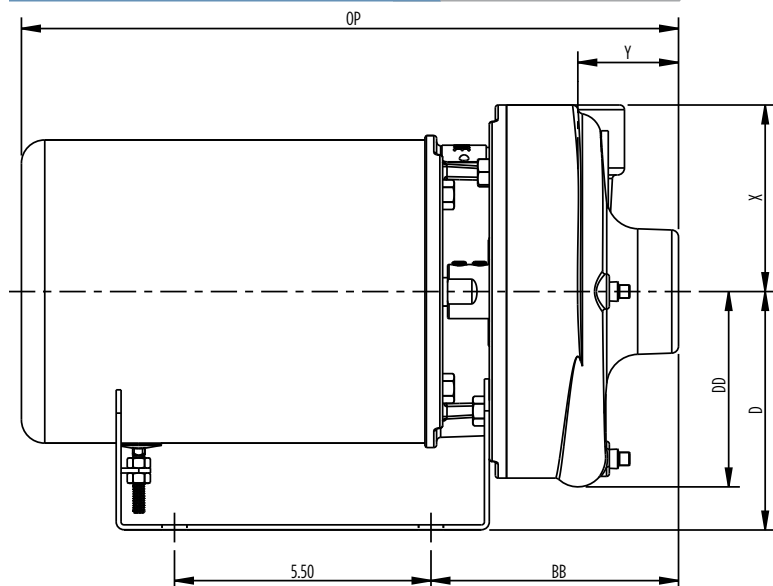
CLOSE-COUPLED D-SERIES

☰ MENU

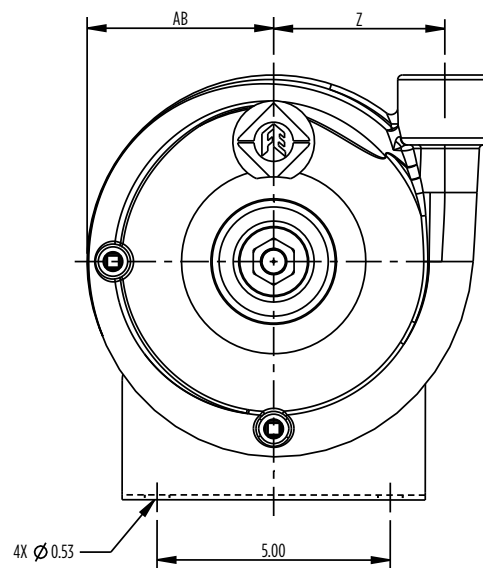
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DIMENSIONS

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

CENTRIFUGAL PUMPS

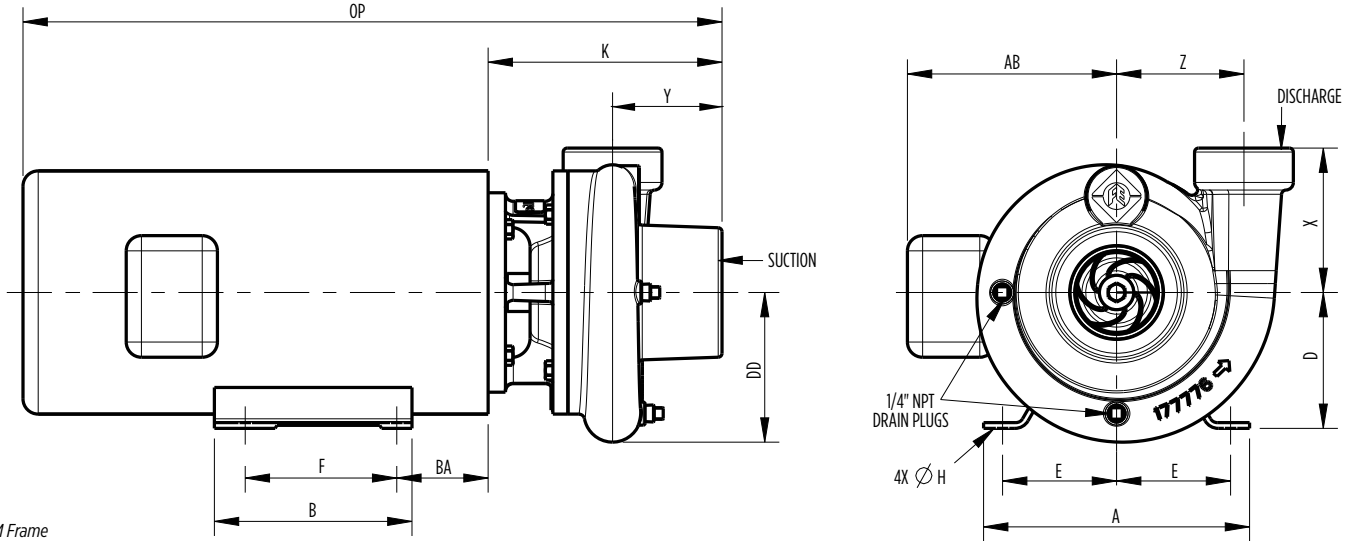
CLOSE-COUPLED D-SERIES

☰ MENU

FPS

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	5.50	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	5.50	0.41	6.38	4.50	2.37	3.91	6.88	3.63	4.53	19.57
			TEFC	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
				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
			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	5.50	0.41	6.45	5.63	2.41	5.19	6.88	3.63	5.81	19.64
DC1-1/2	2" x 1-1/2"	3600	ODP	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
				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	5.50	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
			TEFC	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
			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
DB2	3" x 2"	3600	ODP	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
				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
			TEFC	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
				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

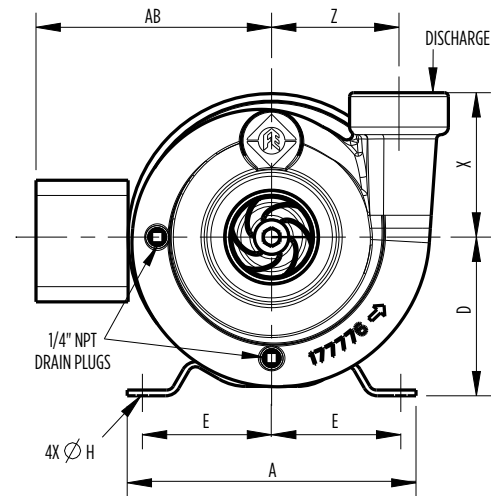
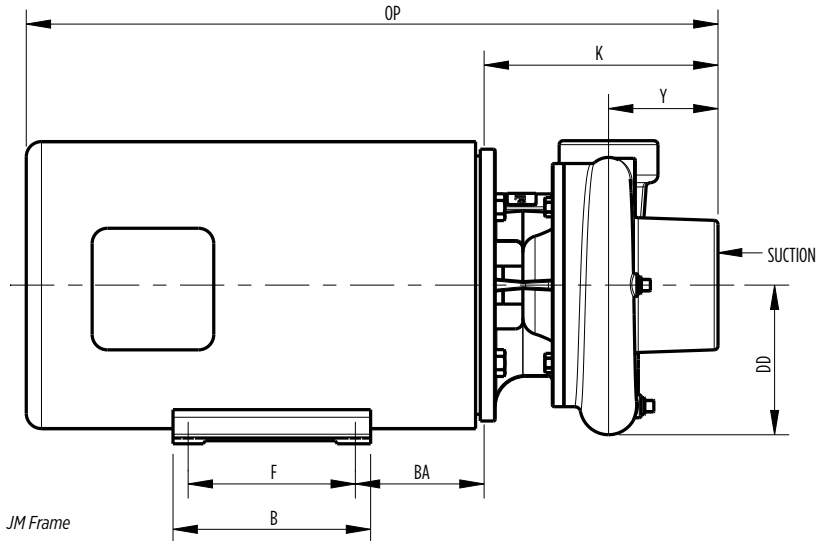
CLOSE-COUPLED D-SERIES

≡ MENU

FPS

DIMENSIONS

DB 213-324JM 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
				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
			TEFC	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
				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
DB2	3" x 2"	3600	ODP	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
				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
			TEFC	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

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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MOTOR SPECIFICATIONS

1800 RPM

Enclosure	Motor Fit Code	Phase	Volts	HP	SF	F.L.A.	S.F.A.	Motor Code	Order No.	Wt. (lbs)
TEFC	56C	1	115-208/230	1/3	1.35	6-3.6/3	6.8/3	56C	VL3501	22
				1/2	1.25	7.4-4.3/3.7	8.2/4.1	56C	VL3504	27
				3/4	1.25	8.4-5.4/4.2	10/5	56C	VL3507	33
				1	1.15	12.8-7/6.4	13.8/6.9	56C	VL3510	40
				1-1/2	1.15	12.4-6.8/6.2	14.4/7.2	56C	VL3514	48
		3	230/460	1/3	1.15	1.1/.55	1.2/0.6	56C	KENM3534	33
			208-230/460	1/2	1.25	1.68-1.54/.77	1.8/0.9	56C	VEM3538	31
				3/4	1.25	2.5-2.28/1.14	2.8-2.64/1.32	56C	VEM3542	35
				1	1.15	3.1-3/1.5	3.38/1.69	56C	VEM3546	36
				1-1/2	1.15	4.5-4.4/2.2	4.84/2.42	56C	VEM3554	42
				2	1.15	6.6-5.8/2.9	6.4/3.2	56C	VEM3558	46
	JM	3	208-230/460	1	1.15	3.1-3/1.5	3.38/1.69	JM-1	104228218	40
				1-1/2	1.15	4.5-4.4/2.2	4.84/2.42	JM-1	104228217	44
				2	1.15	6.6-5.8/2.9	6.4/3.2	JM-1	104228215	50

MOTOR SPECIFICATIONS

3600 RPM

Enclosure	Motor Fit Code	Phase	Volts	HP	SF	F.L.A.	S.F.A.	Motor Code	Order No.	Wt. (lbs)
ODP	56C	1	115/230	1/2	1.60	9.6/4.8	11.8/5.9	56C	106026007	20
				3/4	1.50	12.8/6.4	14.8/7.4	56C	106026008	22
				1	1.40	13.2/6.6	16.8/8.4	56C	106026009	21
				1-1/2	1.30	14.4/7.7	18.4/9.2	56C	106026010	27
				2	1.21	19.6/9.8	22.2/11.1	56C	106026011	32
		3	208-230/460	1/2	1.61	2.1-2.2/1.1	2.8-2.7/1.35	56C	106023018	19
				3/4	1.51	2.7-2.8/1.4	3.8-3.6/1.8	56C	106023019	15
				1	1.41	3.6-3.8/1.9	4.6-4.6/2.3	56C	106023020	17
				1-1/2	1.30	4.4-4.3/2.2	4.9-4.7/2.4	56C	106023021	24
				2	1.20	6.1-5.6/2.8	6.4/3.2	56C	106023022	34
TEFC	56C	1	115/230	1/2	1.25	9.6/4.8	11.6/5.8	56C	VL3506	29
			115/208-230	3/4	1.15	10.0/5.2-5.0	10.8/5.7-5.4	56C	EC06	30
				1	1.15	12.8/6.6-6.4	13.8/7.2-6.9	56C	EC09	28
				1-1/2	1.15	16.6/9.0-9.3	18.4/10.3-9.2	56C	EC11	35
			208-230	2	1.15	9.6-9.0	11.0-10.0	56C	EC13	37
				3	1.15	13.7-13.0	15.8-14.6	56C	EC16B	39
		3	208-230/460	3/4	1.25	2.4-2.2/1.1	NA-2.6/1.3	56C	U345IACR	27
				1	1.25	2.9-2.7/1.4	3.6-3.2/1.6	56C	UIPIDCR	30
				1-1/2	1.25	4.9-5.0/2.5	4.9-5.2/2.6	56C	T32PIACR	32
				2	1.15	6.0-5.6/2.8	7.1-6.0/3.0	56C	T2PIACR	35
				3	1.15	7.9-6.7/3.4	NA-7.7/3.9	56C	T3PIACR	40
			575	1/2	1.25	0.96	1.2	56C	VM3541-5	21
				3/4	1.25	1.0	0.8	56C	U34PIGCR	30
				1	1.25	1.1	1.3	56C	UIPIGCR	30
				1-1/2	1.25	1.6	1.9	56C	U32PIGFCR	30
				2	1.25	2.0	2.4	56C	U2PIGFCR	30
				3	1.25	2.8	3.6	56C	U3PIGFCR	30

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

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MOTOR SPECIFICATIONS

3600 RPM

Enclosure	Phase	Volts	HP	SF	F.L.A.	S.F.A.	Frame	Motor Code	Order No.	Wt. (lbs)
ODP	1	230	3	1.15	13.4		182JM	JM-1	106026013	40
			5	1.15	20		184JM	JM-1	106026014	53
			5	1.15	19.6	23.2	184JM	JM-1	106026015	82
			7-1/2	1.15	30.5	34.5	184JM	JM-1	106026016	91
			10	1.15	46	51.6	215JM	JM-2	104219006	141
	3	208-230/460	3	1.15	8.3-7.4/3.7	9.5-8.4/4.2	145JM	JM-1	104236602	35
			5	1.15	13.5-12.3/6.2	15.7-14/7	182JM	JM-1	104236604	35
			7-1/2	1.15	20.5-18.1/9.1	24.1-21/10.5	184JM	JM-1	104236606	60
			10	1.15	27.5-25.3/12.6	33-28.9/14.4	213JM	JM-2	106023027	90
			15	1.15	40-36/18	48-42/20.8	215JM	JM-2	104236609	105
		230/460	20	1.15	46/23.1	54/26.8	254JM	JM-3	104236610	150
		208-230/460	25	1.15	65-57/28.7	77-67/33	256JM	JM-3	104236611	200
			30	1.15	80-70/35	92-81/41	284JM	JM-4	106023031	225
			40	1.15	104-90/45	124-106/53	286JM	JM-4	104236613	250
		230/460	50	1.15	116/58	133.6/66.8	324JM	JM-4	104236214	421
		575	3	1.15	3	3.4	143JM	JM-1	104223001	48
			5	1.15	4.9	5.6	182JM	JM-1	104223002	59
			7-1/2	1.15	6.9	8	184JM	JM-1	104223003	70
			10	1.15	9.6	11	213JM	JM-2	104223004	117
			15	1.15	13.8	15.9	213JM	JM-2	104223005	131
			20	1.15	19	21.9	254JM	JM-3	104223006	151
			25	1.15	23.3	26.8	254JM	JM-3	104223007	174
			30	1.15	27.8	32	284JM	JM-4	104223008	333
			40	1.15	37.7	43.4	286JM	JM-4	104223009	417
			50	1.15	47.3	54.4	324JM	JM-4	104223010	496
TEFC	1	115-208/230	3	1.15	29-15/14.5	33.2-17.3/16.6	182JM	JM-1	107026029	79
		208-230	5	1.00	22-19.5	25.3/29.9	184JM	JM-1	104220002	93
			7-1/2	1.00	36-33		213JM	JM-2	104220004	132
		230	10	1.00	40.0		215JM	JM-2	104220006	158
	3	208-230/460	3	1.15	7.9-7.2/3.6	9.1-8.2/4.1	145JM	JM-1	104238002	54
			3	1.15	7.9-7.2/3.6	9.1-8.2/4.1	182JM	JM-1	104238002	56
			5	1.15	12-11.8/5.9	13.8-13.4/6.7	184JM	JM-1	104238004	79
			7-1/2	1.15	18.5-16.8/8.4	21.3-19.4/9.7	184JM	JM-1	104238206	101
			7-1/2	1.15	19.4-18/9	22.3-20.4/10.2	213JM	JM-2	104238006	125
			10	1.15	24.9-23.2/11.6	28.6-27/13.5	215JM	JM-2	104238008	130
			15	1.15	36.8-34/17	42.339/19.5	215JM	JM-2	104238009	169
			20	1.15	50-46/23	57.5-52.6/26.3	256JM	JM-3	104238010	281
			25	1.25	62-58/29	77.5-66.6/33.3	284JM	JM-4	104238011	353
		230/460	30	1.15	68/34	79/39.5	286JM	JM-4	104238012	406
		208-230/460	40	1.25	101-91.6/45.8	126.3-114.5/57.3	324JM	JM-4	104238013	547
			50	1.25	124-112/56.1	155-140/70	326JM	JM-4	104238014	584
		575	3	1.25	3.0	3.7	182JM	JM-1	104224001	51.8
			5	1.25	4.7	5.9	184JM	JM-1	104224002	88
			7-1/2	1.25	7.01	8.8	213JM	JM-2	104224003	139
			10	1.15	9.5	10.8	215JM	JM-2	104224004	118
			15	1.25	13.4	15.6	215JM	JM-2	104224005	169
			20	1.25	18.6	23.3	256JM	JM-3	104224006	269
			25	1.25	22.8	28.5	284JM	JM-4	104224007	362
			30	1.15	28.5	32.8	286JM	JM-4	104224008	500
			40	1.15	36	42	286JM	JM-4	104224009	250
			50	1.25	44.9	56.1	326JM	JM-4	104224010	584

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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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
		143-184JM	4.5	0.875	JM-1	93167413R053	FPDB1-K2	6.437	33	2	1.20	5.500
										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
		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
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	7-1/2	1.15	6.437
										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
										7-1/2	1.15	6.625
										10	1.15	7.312
DB2 2 x 3 - 8 NPT	MECH	213-215JM	8.5	0.875	JM-2	93167413R173	FPDC1-1/2-K3	8.375	55	15	1.15	8.375
										1-1/2	1.30	3.812
										2	1.20	4.000
		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
DC2 2 x 3 - 8 NPT	MECH	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
										15	1.15	8.375
DC4 4 x 4 - 9 NPT	MECH	254-256JM	8.5	1.25	JM-3	93167413R193	FPDC2-K3A	7.250	65	15	1.15	7.250
										20	1.15	7.938
DC4 4 x 4 - 9 NPT	MECH	254-256JM	8.5	1.25	JM-3	93167413R204	FPDC2-K4	7.938	70	20	1.15	7.938
										25	1.15	7.469
										25	1.15	7.469
		284-326JM	12.5	1.25	JM-4	93167413R277	FPDC4-K4	7.469	145	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.

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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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
						93167413R272	FPDBL2-K2	6.438	40	3/4	1.25	5.125
										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.

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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MATERIALS AND PARTS

DA1A (3600 RPM), DAL1A (1800 RPM)

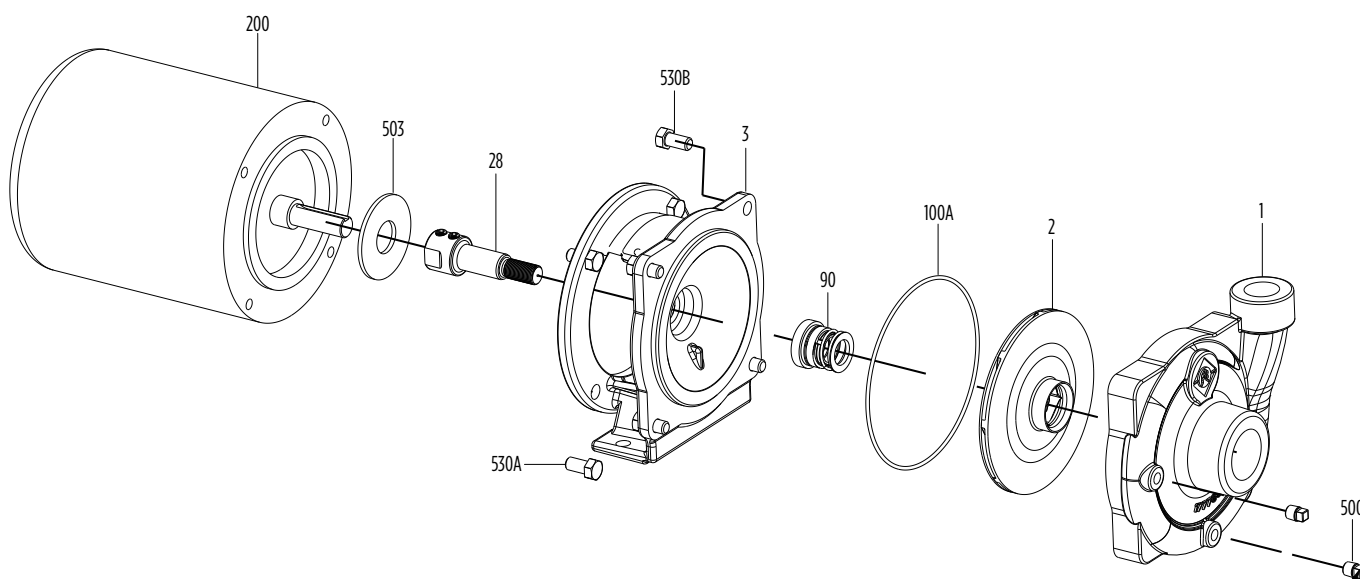


Fig. No.	Part Description	Repair No.	Materials
1	Volute Case (NPT) w/plugs	305717001	Cast Iron, ASTM-A48 CL30
2	Impeller 1/2 hp 3600 rpm 4.13" trim (9/16-18 Thd)	305717003	304 Stainless Steel
2	Impeller 3/4 hp 3600 rpm 4.70" trim (9/16-18 Thd)	305717004	304 Stainless Steel
2	Impeller 1 hp 3600 rpm, 1/3 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	SiC/SiC/EPDMx18-8SS
Option B	Mechanical Shaft Seal	305613901	SiC/SiC/FKMx18-8SS
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

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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MATERIALS AND PARTS

DA1B (3600 RPM), DAL1B (1800 RPM)

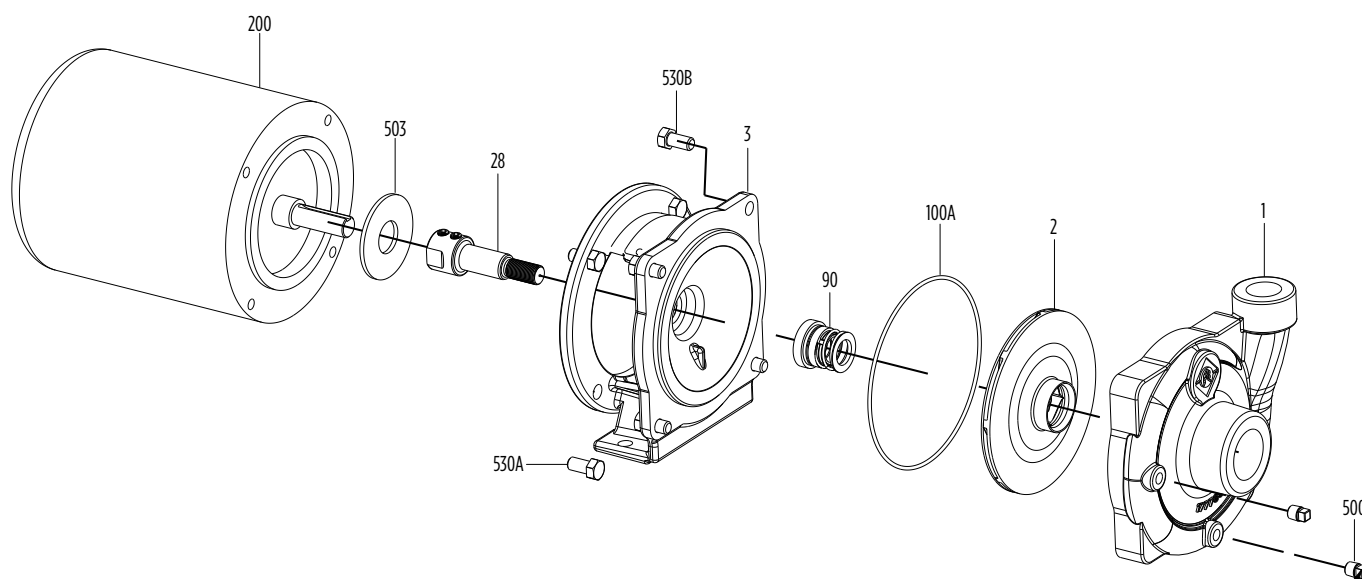


Fig. No.	Part Description	Repair No.	Materials
1	Volute Case (NPT) w/plugs	305717001	Cast Iron, ASTM-A48 CL30
2	Impeller, 1/2 hp 3600 RPM, 3.75" trim (9/16-18 Thd)	305717007	304 Stainless Steel
2	Impeller, 3/4 hp 3600 RPM, 4.00" trim (9/16-18 Thd)	305717008	304 Stainless Steel
2	Impeller, 1 hp 3600 RPM, 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	SiC/SiC/EPDMx18-8SS
Option B	Mechanical Shaft Seal	305613901	SiC/SiC/FKMx18-8SS
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

CENTRIFUGAL PUMPS

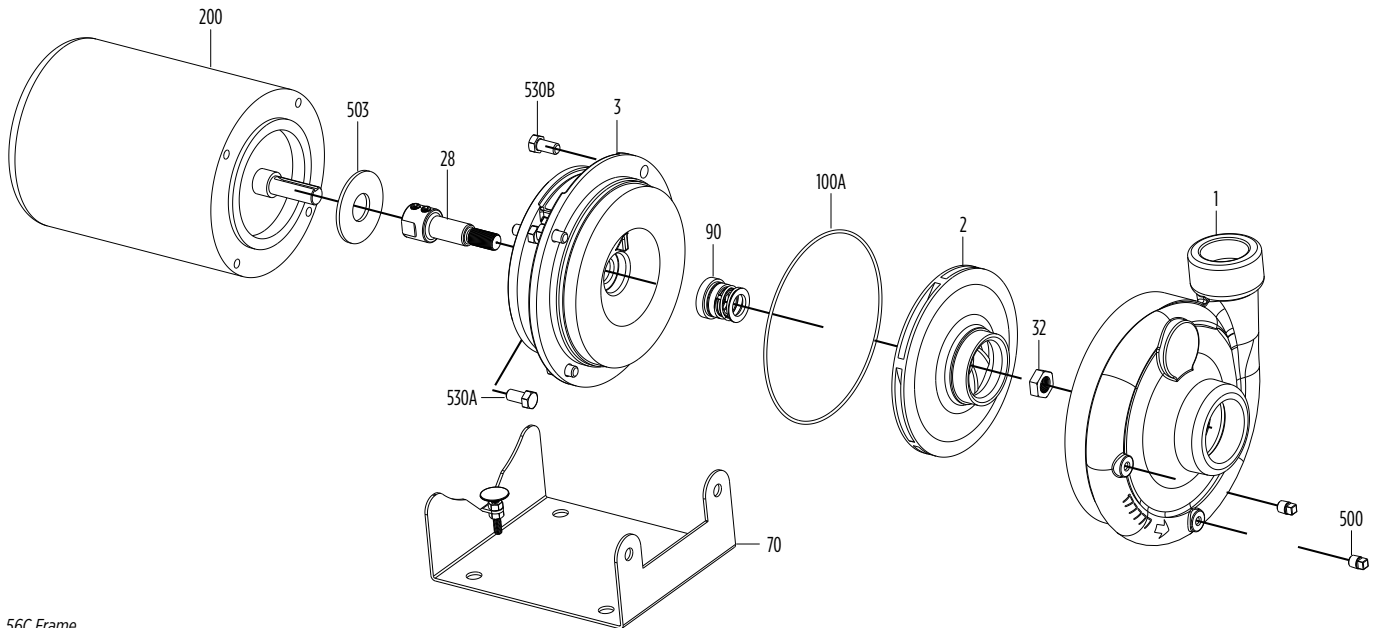
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MATERIALS AND PARTS

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	SiC/SiC/EPDM/18-8SS
Option B	Mechanical Shaft Seal	305613901	SiC/SiC/FKM/18-8SS
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

CENTRIFUGAL PUMPS

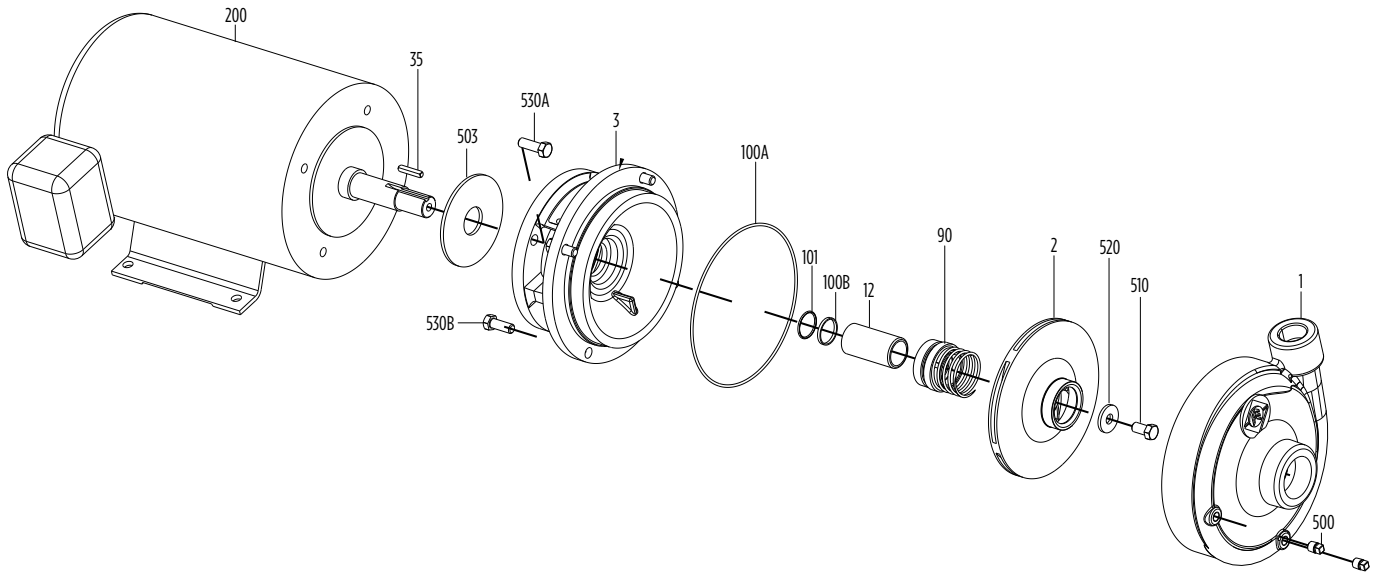
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MATERIALS AND PARTS

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	SiC/SiC/EPDMx18-8SS
Option B	Mechanical Shaft Seal	305613904	SiC/SiC/FKMx18-8SS
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

CENTRIFUGAL PUMPS

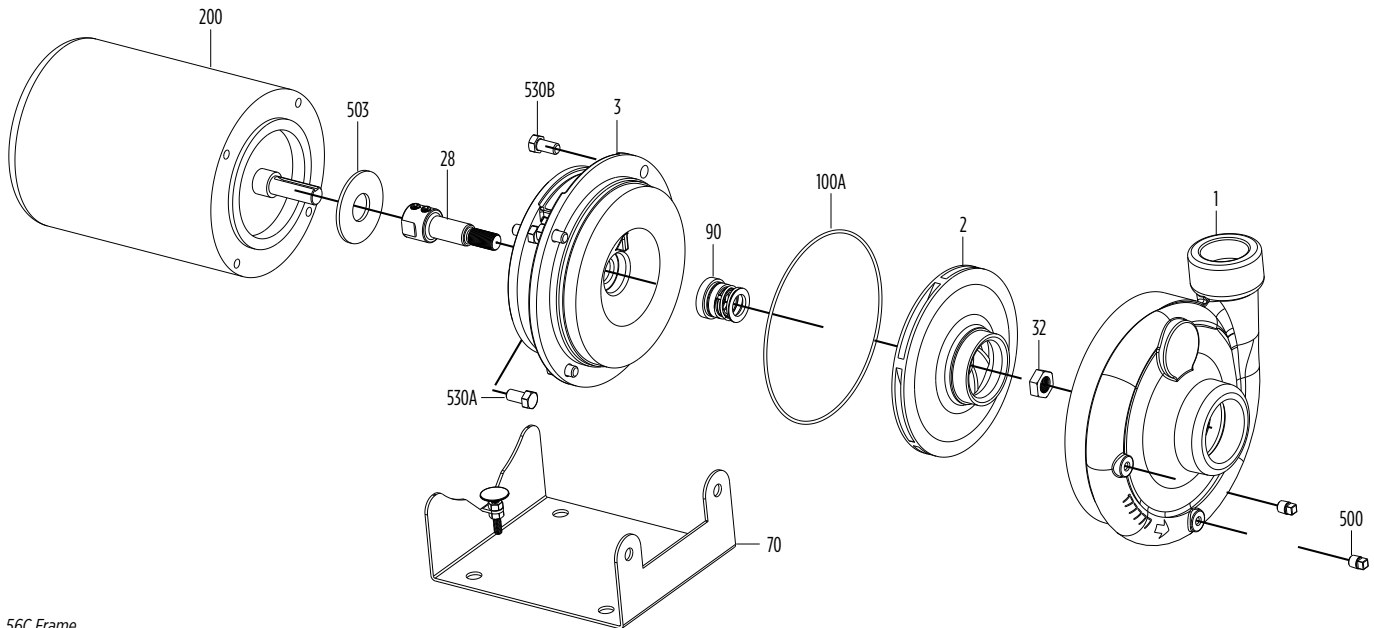
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MATERIALS AND PARTS

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	SiC/SiC/EPDM/18-8SS
Option B	Mechanical Shaft Seal	305613901	SiC/SiC/FKM/18-8SS
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

CENTRIFUGAL PUMPS

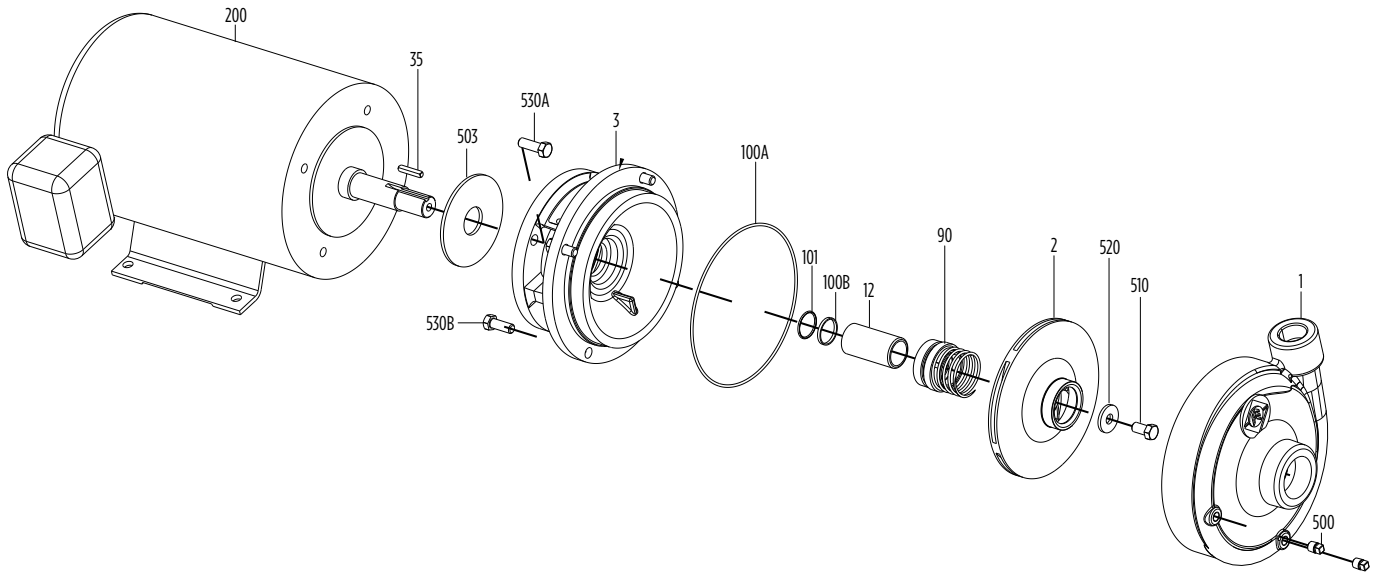
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MATERIALS AND PARTS

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 Bracket	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		SiC/SiC/EPDMx18-8SS
Option B	Mechanical Shaft Seal	305613904		SiC/SiC/FKMx18-8SS
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

CENTRIFUGAL PUMPS

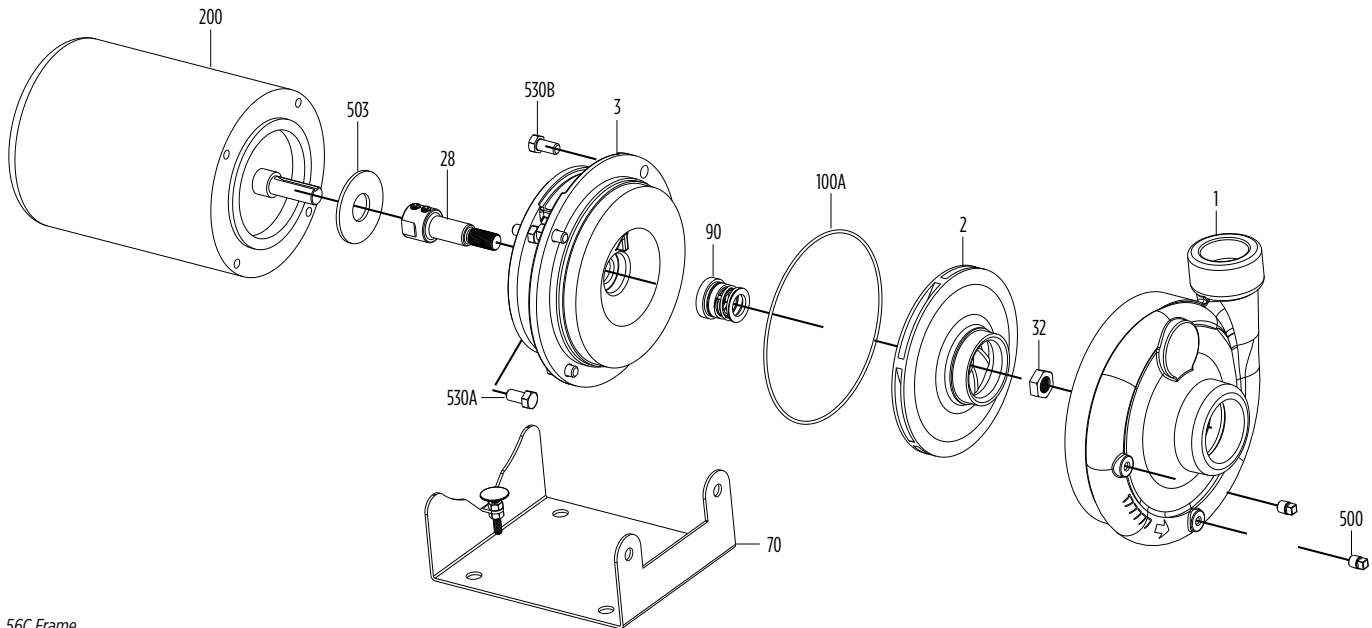
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MATERIALS AND PARTS

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 Bracket	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	SiC/SiC/EPDMx18-8SS
Option B	Mechanical Shaft Seal	305613901	SiC/SiC/FKMx18-8SS
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

CENTRIFUGAL PUMPS

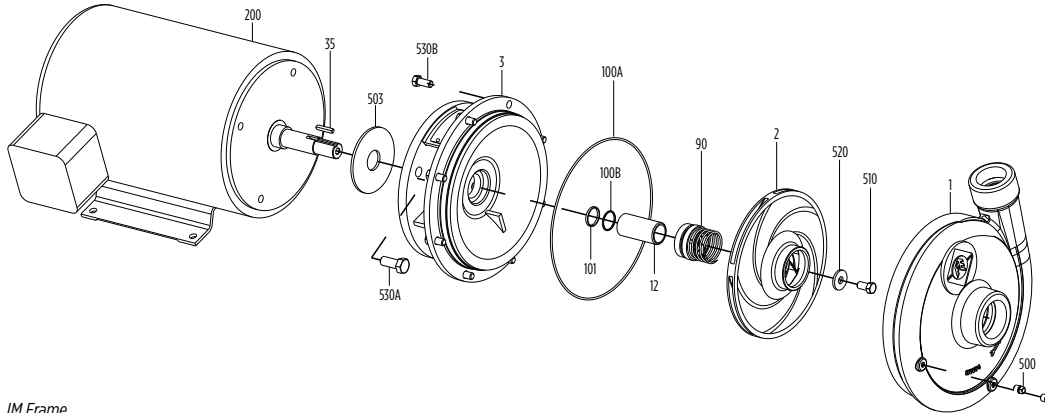
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MATERIALS AND PARTS

DB2/DC2 (3600 RPM)



JM Frame

Fig. No.	Part Description	Repair No.		Materials of Construction
		4.5AK* (3-7-1/2 hp)	8.5AK* (7-1/2-20 hp)	
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 Bracket 4.5 AK	305447014	n/a	Cast Iron, ASTM-A48 CL30
3	Motor Bracket 8.5 AK 7.5 & 10 hp	n/a	305450021	Cast Iron, ASTM-A48 CL30
3	Motor Bracket 15 hp	n/a	305449017	Cast Iron, ASTM-A48 CL30
3	Motor Bracket 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		SiC/SiC/EPDMx18-8SS
Option B	Mechanical Shaft Seal 3 - 15 hp	305613904		SiC/SiC/FKMx18-8SS
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	SiC/SiC/EPDMx18-8SS
Option B	Mechanical Shaft Seal 20 hp	n/a	305613905	SiC/SiC/FKMx18-8SS
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

CENTRIFUGAL PUMPS

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MATERIALS AND PARTS

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

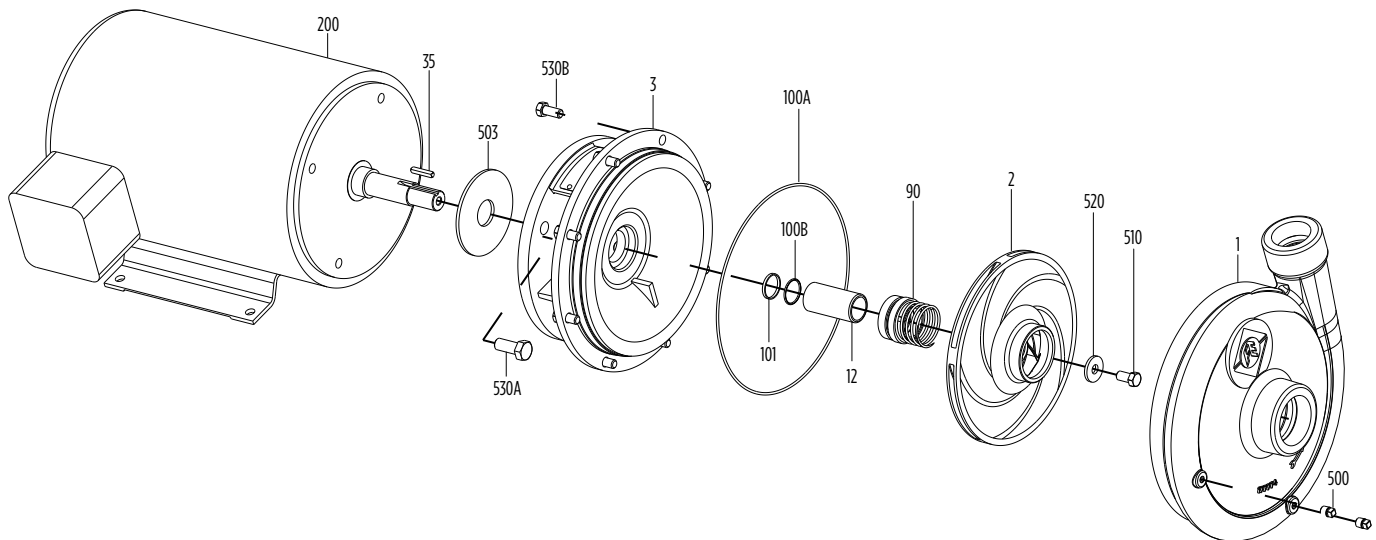


Fig. No.	Part Description	Repair No.		Materials
		4.5AK* (1-7-1/2 hp)	8.5AK* (7-1/2-15 hp)	
1	Volute Case (NPT) w/plugs	305449001		Cast Iron, ASTM-A48 CL30
2	Impeller, 3 hp 3600 rpm 5.06" trim (.875 bore)	305449007	n/a	Silicon Brass, ASTM B584
2	Impeller, 5 hp 3600 rpm 5.81" trim (.875 bore)	305449008	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 Bracket	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		SiC/SiC/EPDMx18-8SS
Option B	Mechanical Shaft Seal	305613904		SiC/SiC/FKMx18-8SS
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

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MATERIALS AND PARTS

DB3 (3600 RPM)

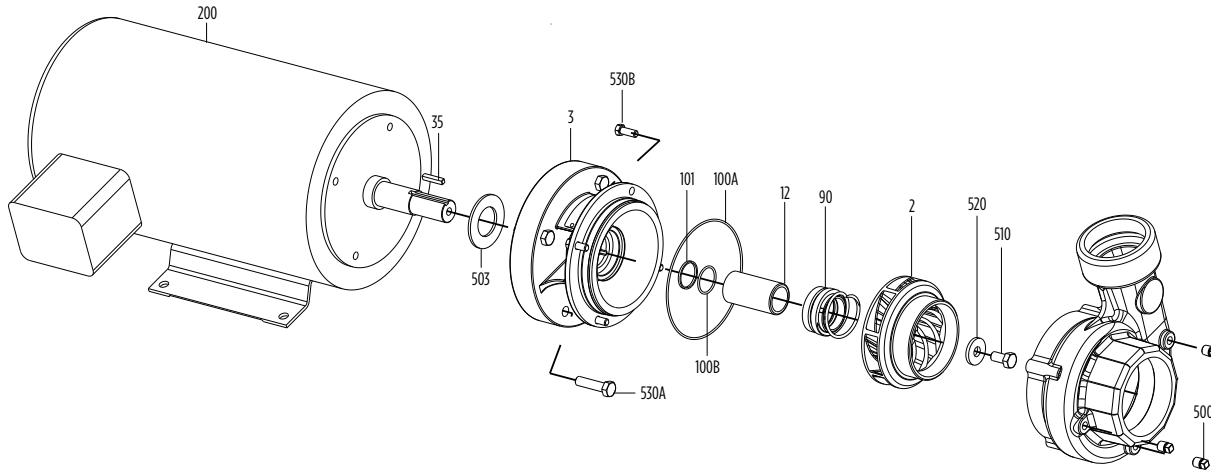


Fig. No.	Part Description	Repair No.		Materials
		4.5AK* (5-7-1/2 hp)	8.5AK* (7-1/2-20 hp)	
1	Volute Case 5hp-20hp (NPT) w/plugs	305451001		Cast Iron, ASTM-A48 CL30
2	Impeller, 5 hp, 4.50" trim (.875 bore)	305451004	n/a	Cast Iron, ASTM-A48 CL30
2	Impeller, 7-1/2hp, 4.94" rim (.875 bore)	305451005		Cast 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		SiC/SiC/EPDM/18-8SS
Option B	Mechanical Shaft Seal 5 - 15 hp	305613904		SiC/SiC/FKM/18-8SS
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	SiC/SiC/EPDM/18-8SS
Option B	Mechanical Shaft Seal 20 hp	n/a	305613905	SiC/SiC/FKM/18-8SS
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

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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MATERIALS AND PARTS

DC4 (3600 RPM)

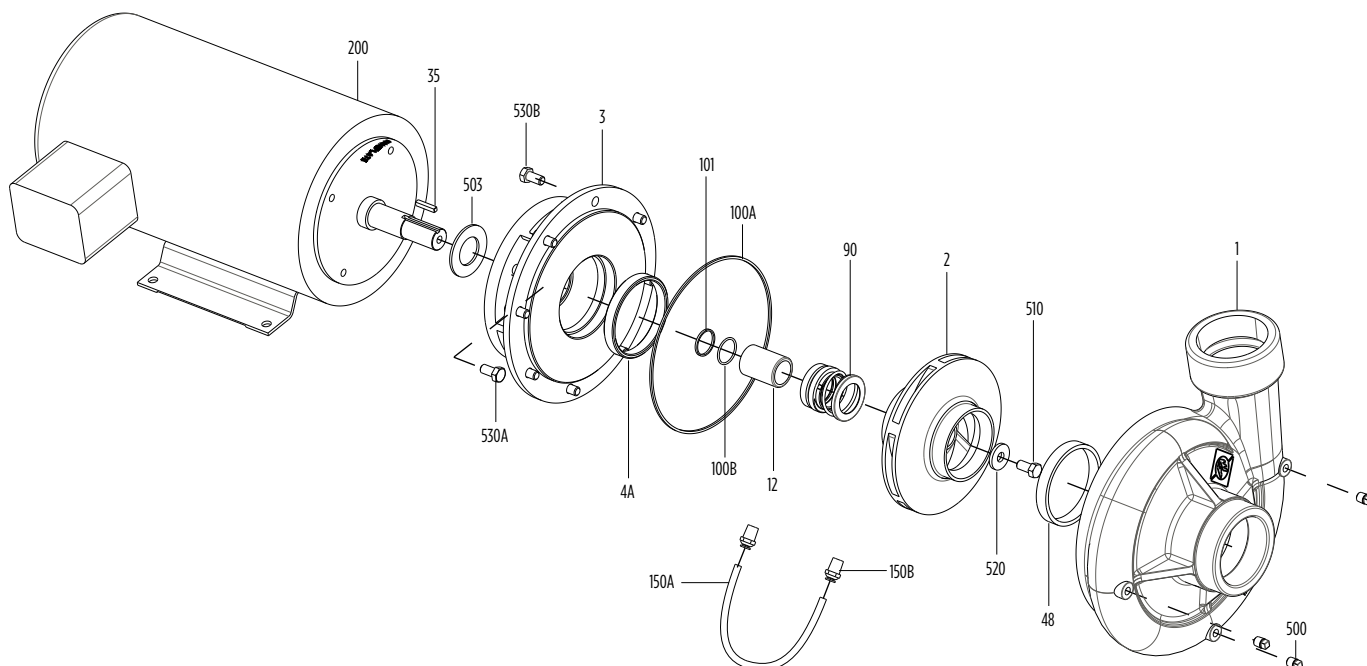


Fig. No.	Part Description	Repair No.		Materials of Construction
		8.5AK* (20–25 HP)	12.5AK* (30–50 HP)	
1	Volute Case 4" x 4" (NPT)	305452001		Cast Iron, ASTM-A48 CL30
2	Impeller, 20 hp, 7.03" trim	305452014	n/a	Cast Iron, ASTM-A48 CL30
2	Impeller, 25hp, 7.47" trim	305452015	n/a	Cast Iron, ASTM-A48 CL30
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 Bracket	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		SiC/SiC/EPDMx18-8SS
Option B	Mechanical Shaft Seal	305613905		SiC/SiC/FKMx18-8SS
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

CENTRIFUGAL PUMPS

CLOSE-COUPLED D-SERIES

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ALTERNATE SILICON CARBIDE SEALS

Shaft Sleeve O.D.	Stationary Socket Diameter	Socket Depth	Seal Working Height	HP Range	Motor Frame Sizes	D Series Where Used	Materials of Construction		Replacement Part
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	Carbonx Ceramicx EPDMx18-8SS	305463203
							Alt. 1	SiC/SiC/EPDMx18-8SS	305613902
							Alt. 2	SiC/SiC/FKMx18-8SS	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	Carbonx Ceramicx EPDMx18-8SS	305463002
							Alt. 1	SiC/SiC/EPDMx18-8SS	305613903
							Alt. 2	SiC/SiC/FKMx18-8SS	305613904
1-3/4"	2-1/2"	1/2"	2"	20 - 50	254-326JM	DC2, DB3, DC4	Standard	Carbonx Ceramicx EPDMx18-8SS	305463204
							Alt. 1	SiC/SiC/EPDMx18-8SS	305613906
							Alt. 2	SiC/SiC/FKMx18-8SS	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	8.5	3 - 7-1/2	145JM/182JM/184JM	177741901	03076502	305429905
DC1-1/2		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





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