

NPE/NPE-F REPAIR PARTS



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NOTE:

For units built before September, 1997

The following upgrades are interchangeable.

- (1) Item 349 Guidevane O-Ring was upgraded from O-Ring to Square Seal Ring.
- (2) Pump Components have been upgraded from 304 SS to 316L SS.
- (3) Mechanical Seal upgrades as noted on page 3.
- (4) Pump Mounting location for motor adapter with foot to pump support are interchangeable.

NPE/NPE-F NUMBERING SYSTEM

1 ST 2 C 1 A 4 F R

CASING ROTATION, OPTIONAL

R = 3 o'clock L = 9 o'clock B = 6 o'clock

Note: Rotation when viewed from suction end of pump. Standard discharge position is 12 o'clock.

SEAL VENT/FLUSH OPTION

MECHANICAL SEAL and O-RING

4 = Pre-Engineered Standard. For Optional Mechanical Seal modify catalog order no. with Seal Code listed below.

Type 21 Mechanical Seal (5/8" seal)						
Seal Code	Rotary	Stationary	Elastomers	Metal Parts	Part No.	Casing O-Ring
2	Carbon	Silicon Carbide	EPR	316 SS	10K18	EPR
4			Viton		10K55	Viton
5	Silicon Carbide		EPR		10K81	EPR
6			Viton		10K62	Viton
8*			EPR		10K167	EPR
9	Carbon	Ceramic	Teflon		10K52	Teflon

* This is a JC Type 2100 unitized seal ideal for glycol applications.

IMPELLER OPTION CODE . . . NO ADDER REQUIRED

For Optional Impeller Diameters modify catalog order no. with Impeller code listed below. Select Optional Impeller Diameter from Pump Performance Curve.

Impeller Code	Pump Size		
	1 x 1 $\frac{1}{4}$ -6	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ -6	1 $\frac{1}{2}$ x 2-6
	Diameter	Diameter	Diameter
K		6 $\frac{1}{8}$	
G		5 $\frac{1}{4}$	5 $\frac{3}{8}$
H		5 $\frac{1}{2}$	5
A	6 $\frac{1}{8}$	5 $\frac{1}{4}$	4 $\frac{3}{4}$
B	5 $\frac{3}{4}$	5 $\frac{1}{6}$	4 $\frac{1}{2}$
C	5 $\frac{3}{8}$	4 $\frac{7}{8}$	4 $\frac{1}{2}$
D	4 $\frac{3}{4}$	4 $\frac{5}{8}$	4 $\frac{1}{4}$
E	4 $\frac{1}{2}$	4 $\frac{1}{4}$	3 $\frac{3}{4}$
F	4 $\frac{1}{4}$	3 $\frac{3}{8}$	

Note: Not recommended for operation beyond printed H-Q curve.

For critical application conditions, consult factory.

Note: Not all combinations of motor, impeller and seal options are available for every pump model. Please check with factory on non-cataloged numbers.

Note: Impeller diameter is measured at the vane. The overall diameter of the shroud may be greater.

DRIVER

1 = 1PH, ODP 7 = 3 PH, XP C = 3 PH, 575 TE PE
 2 = 3 PH, ODP 8 = 575 V, XP D = 3 PH, XP PE
 3 = 575 V, ODP 9 = 3 PH, TE PE E = 3 PH, WD PE
 4 = 1 PH, TEFC 0 = 1 PH, XP F = 1 PH, ODP PE
 5 = 3 PH, TEFC A = 3 PH, ODP PE G = 1 PH, TEFC PE
 6 = 575 V, TEFC B = 3 PH, 575 ODP PE H = 1 PH, XP PE

HP RATING

C = $\frac{1}{2}$ HP E = 1 HP G = 2 HP J = 5 HP
 D = $\frac{3}{4}$ HP F = 1 $\frac{1}{2}$ HP H = 3 HP

DRIVER: HERTZ/POLE/RPM

1 = 60 HZ, 2 pole, 3500 RPM 4 = 50 HZ, 2 pole, 2900 RPM
 2 = 60 HZ, 4 pole, 1750 RPM 5 = 50 HZ, 4 pole, 1450 RPM
 3 = 60 HZ, 6 pole, 1150 RPM

MATERIAL

ST = Stainless Steel

PUMP SIZE

1 = 1 x 1 $\frac{1}{4}$ - 6 2 = 1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ - 6 3 = 1 $\frac{1}{2}$ x 2 - 6

For Frame Mounted version, substitute the letters "FRM" in these positions.

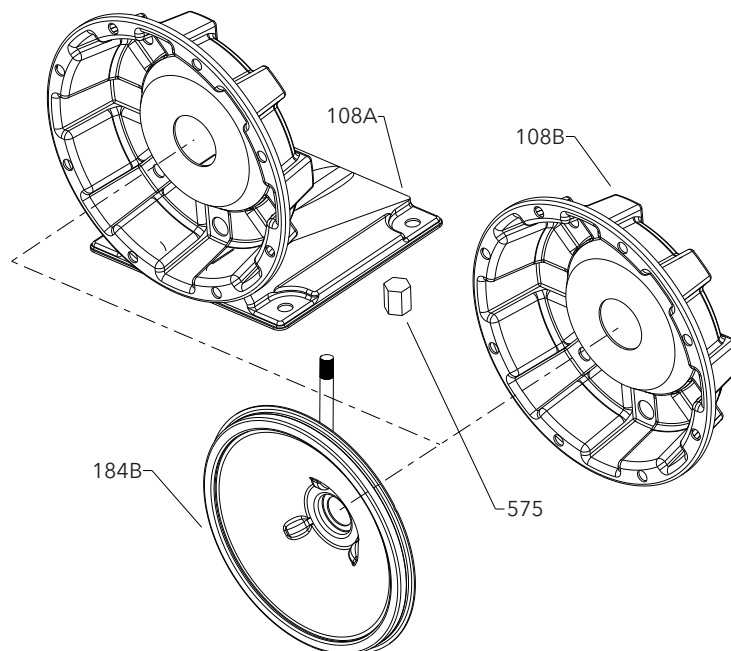
Order Online: www.PumpCatalog.com

NPE STANDARD REPAIR PARTS LIST

Item No.	Description	Materials of Construction	1ST 1 x 1¼	2ST 1¼ x 1½	3ST 1½ x 2	QUANTITY
100	Casing	AISI 316L SS	1L81	1L82	1L83	1
101	Impeller + Spring Retainer		See Impeller chart on page 6			
108A	Motor adapter with foot*	304 SS	1L80			1
108B	Motor adapter less foot*		1L87			
123	Deflector	BUNA-N	5K7			1
184A	Seal housing standard	AISI 316L SS	1L79			1
184B	Seal housing with seal flush		1L333			
240	Motor support	300 SS	4L423			1
	Rubber channel	Rubber	9K188 , 9K753 (based on HP)			1
304	Impeller locknut	AISI 316 SS	13K286			1
347	Guidevane	AISI 316L SS	3L23	3L24	3L25	1
349	Seal ring, guidevane	Viton standard	5K269	5K270		1
		EPR	5K273	5K274		
		BUNA	5K271	5K272		
		Teflon	5L96	5L97		
370	Socket head screw, casing	AISI 410 SS	13L65			8
371	Bolts, motor	Steel/plated	13K252			4
383	Mechanical seal		See Mechanical Seal Chart on Page 3			1
408	Drain and vent plug, casing	AISI 316 SS	6L3			2
412B	O-ring, drain plugs	Viton, standard	5L99			2
		EPR	5L80			
		BUNA	5L62			
		Teflon	5L100			
513	O-ring, casing	Viton standard	5K206			1
		EPR	5K193			
		BUNA	5K4			
		Teflon	5L98			
575	Pipe Cap	304 SS	6K150			1
576	Spring Retainer	316 SS	4K1221			1

* Flush access hole provided.

NOTE:
OPTIONAL SEAL FLUSH COMPONENTS



NOTE:

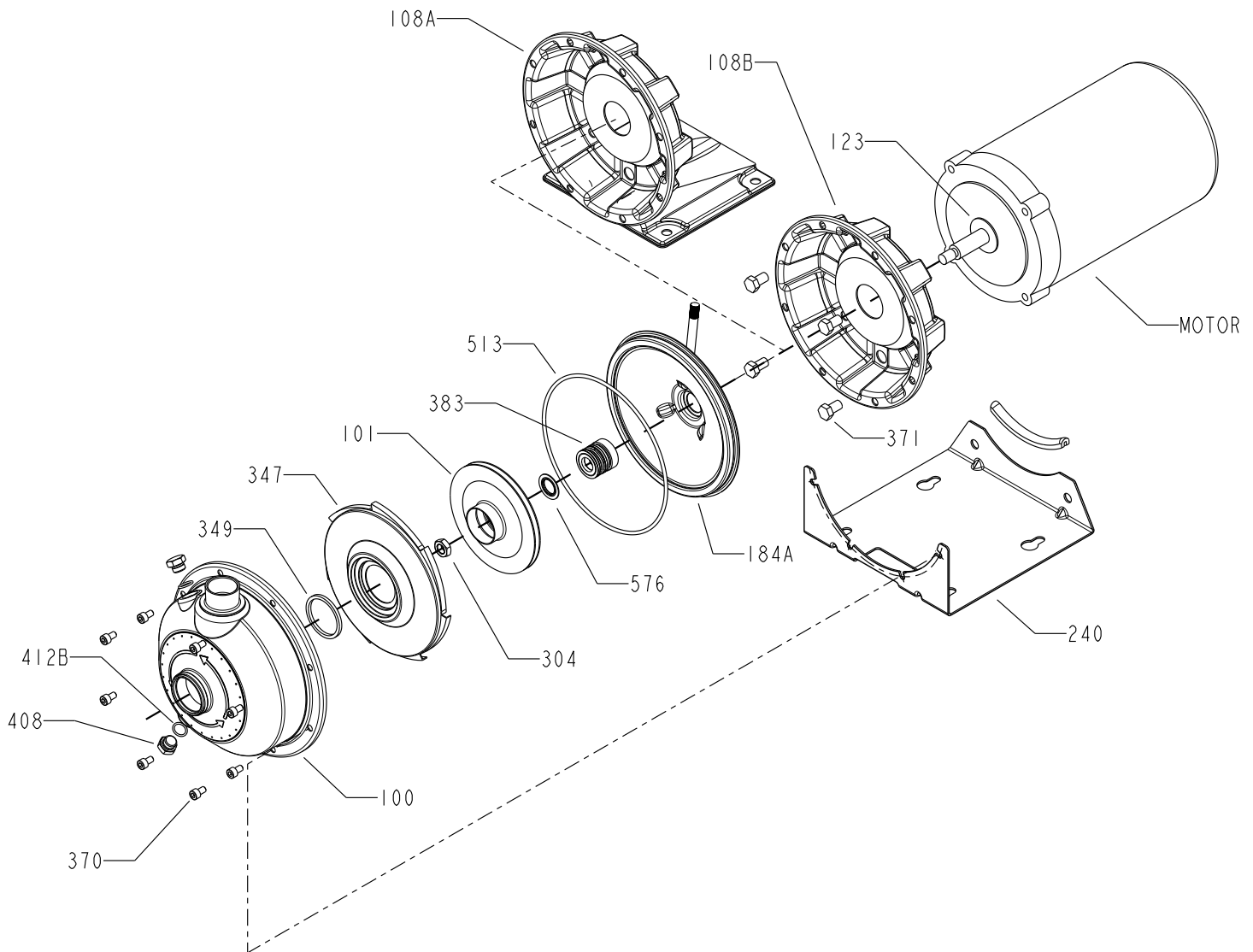
Close-coupled units using motors ½ - 1 HP (TEFC and ODP) will use footed motor adapter as standard.

Close-coupled units using motors 1½ - 3 HP (TEFC and ODP) will use footless motor adapter as standard.

Close-coupled units using motors 5 HP and all X-Proof will have a foot attached to the motor.

NOTE:

Frame mounted units (NPE-F) utilize the XS Power Frame and motor adapter less foot. For repair parts for the power frame refer to the XS-Power Frame repair parts page in the parts section of your catalog. To order the power frame complete order item 14L61.



Order Online: www.PumpCatalog.com

NPE STANDARD IMPELLERS

Impeller Code	Pump Size					
	1 x 1¼-6		1¼ x 1½-6		1½ x 2-6	
	Diameter	Part No.	Diameter	Part No.	Diameter	Part No.
K			6⅞	2K1221		
G			5⅞	2K1206	5⅞	2K1209
H			5½	2K1205	5	2K1208
A	6⅞	2K1203	5¼	2K1216	4¾	2K1220
B	5¾	2K1202	5⅞	2K1204	4⅞	2K1207
C	5⅞	2K1201	4⅞	2K1215	4⅞	2K1219
D	4¾	2K1200	4⅞	2K1214	4⅞	2K1218
E	4⅞	2K1199	4¼	2K1213	3⅞	2K1217
F	4⅞	2K1211	3⅞	2K1212		

NPE STANDARD IMPELLERS BY MOTOR SIZE AT 3500 RPM

For ODP/TEFC Units Built After September 1, 1997

HP	HP Code		1ST	2ST	3ST
			ODP/TEFC	ODP/TEFC	ODP/TEFC
½	C	Repair #	2K1199		
		Dia.	4⅞		
		Imp. Code	E		
¾	D	Repair #	2K1200	2K1212	
		Dia.	4¾	3⅞	
		Imp. Code	D	F	
1	E	Repair #	2K1201	2K1213	2K1217
		Dia.	5⅞	4¼	3⅞
		Imp. Code	C	E	E
1½	F	Repair #	2K1202	2K1214	2K1218
		Dia.	5¾	4⅞	4⅞
		Imp. Code	B	D	D
2	G	Repair #	2K1203	2K1215	2K1219
		Dia.	6⅞	4⅞	4⅞
		Imp. Code	A	C	C
3	H	Repair #	2K1203	2K1216	2K1220
		Dia.	6⅞	5¼	4¾
		Imp. Code	A	A	A
5	J	Repair #		2K1206 2K1221	2K1209
		Dia.		5⅞ 6⅞	5⅞
		Imp. Code		G K	G

For Current Explosion Proof and All Units Built Before September 1, 1997

HP	HP Code		1ST		2ST		3ST	
			ODP	TEFC/EXP	ODP	TEFC/EXP	ODP	TEFC/EXP
½	C	Repair #	2K1199	2K1211				
		Dia.	4⅞	4⅞				
		Imp. Code	E	F				
¾	D	Repair #	2K1200	2K1199	2K1212			
		Dia.	4¾	4⅞	3⅞			
		Imp. Code	D	E	F			
1	E	Repair #	2K1201	2K1200	2K1213	2K1212	2K1217	
		Dia.	5⅞	4¾	4¼	3⅞	3⅞	
		Imp. Code	C	D	E	F	E	
1½	F	Repair #	2K1202	2K1201	2K1214	2K1213	2K1218	2K1217
		Dia.	5¾	5⅞	4⅞	4¼	4⅞	3⅞
		Imp. Code	B	C	D	E	D	E
2	G	Repair #	2K1203	2K1202	2K1215	2K1214	2K1219	2K1218
		Dia.	6⅞	5¾	4⅞	4⅞	4⅞	4⅞
		Imp. Code	A	B	C	D	C	D
3	H	Repair #	2K1203	2K1203	2K1216	2K1204	2K1220	2K1207
		Dia.	6⅞	6⅞	5¼	5⅞	4¾	4⅞
		Imp. Code	A	A	A	B	A	B
5	J	Repair #			2K1206 2K1221		2K1209	
		Dia.			5⅞ 6⅞		5⅞	
		Imp. Code			G K		G	

Note:** Max. Explosion Proof rating is 2 HP.

NPE CLOSE-COUPLED MOTORS

MODEL NPE 3500 RPM

Order Online: www.PumpCatalog.com

HP	Single-Phase, 60 Hz, 115/230 V**, 56J Frame								
	Open, Drip-Proof ①			Totally Enclosed, Fan Cooled			Explosion Proof		
	Order No.	Max. Amps	Wt. (lbs.)	Order No.	Max. Amps	Wt. (lbs.)	Order No.	Max. Amps	Wt. (lbs.)
½	E04853S	10.0/5.0	16	E04821S	6.2/3.1	21	BBC04825	6.2/3.1	47
¾	E05853S	14.0/7.0	19	E05821S	8.8/4.4	24	BBC05825	8.8/4.4	41
1	E06853S	16.0/8.0	22	E06821S	11.6/5.8	26	BBC06825	11.6/5.8	49
1½	E07858S	21.4/10.7	31	E07821S	16.2/8.1	35	BBC07825	16.2/8.1	56
2	E08854S	26.8/13.4	36	E08821S	20.8/10.4	39	BBC08825	20.8/10.4	60
3	E09854S	14.0	40	E09821S	11.89	44			
5	E10A12D1EB1G	14.4	55						

Note:** 3 and 5 HP Single-Phase motors are 230 V only.

HP	Three-Phase, 60 Hz, 208-230/460 V, 56J Frame								
	Open, Drip-Proof ①			Totally Enclosed, Fan Cooled			Explosion Proof		
	Order No.	Max. Amps	Wt. (lbs.)	Order No.	Max. Amps	Wt. (lbs.)	Order No.	Max. Amps	Wt. (lbs.)
½	E04873S	2.6/1.3	19	E04876S	1.9/.95	18	BBC04875	1.9/.95	27
¾	E05873S	3.4/1.7	19	E05876S	2.3/1.15	21	BBC05875	2.3/1.15	30
1	E06873S	4.2/2.1	22	E06D32E5HB5G	3.2/1.6	21	K06C32E6EB1S	3.2/1.6	30
1½	E07878S	5.8/2.9	25	E07D32E5HB4G	4.8/2.4	27	K07C32E6EB1S	4.8/2.4	37
2	E08874S	6.9/3.3	39	E08D32E5HB3G	5.4/2.7	33	F08C32E6EB1G	5.4/2.7	44
3	E09874S	7.2/3.6	31	E09D32E5HB2G	7.6/3.8	37			
5	E10774S	7.2/14.4	50	K10D32E2EB1G	6.2/12.4	48			

① For vertical mounting order motor canopy separately - 9K272 for ½, ¾ and 1 HP single phase or 9K273 for all other ODP motors

MODEL NPE 1750 RPM

HP	Single-Phase, 60 Hz, 115/230 V, 56J Frame								
	Open, Drip-Proof ①			Totally Enclosed, Fan Cooled			Explosion Proof		
	Order No.	Max. Amps	Wt. (lbs.)	Order No.	Max. Amps	Wt. (lbs.)	Order No.	Max. Amps	Wt. (lbs.)
½	E04811	8.6/4.3	19	E04812	8.0/4.0	20	BBC04815	8.0/4.0	45

HP	Three-Phase, 60 Hz, 208-230/460 V, 56J Frame								
	Open, Drip-Proof ①			Totally Enclosed, Fan Cooled			Explosion Proof		
	Order No.	Max. Amps	Wt. (lbs.)	Order No.	Max. Amps	Wt. (lbs.)	Order No.	Max. Amps	Wt. (lbs.)
½	E04831	3.76/4.0/2.0	20	E04C34E2EB1G	1.77/1.6/.8	20	BBC04835	1.77/1.6/.8	45

Note: Explosion Proof Motors are class 1 and 2, Group D

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- 2) a leading global water technology company.

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