

ARMSTRONG

PARTS LIST

BASE MOUNTED PUMP

SERIES 4035

OLD STYLE

TANGENTIAL

PACKING GLAND DESIGN

"S" DESIGNATION

7/8" IMPELLER BORE -- 1 1/4" I.D. PACKING

NEMA FRAME ASSIGNMENTS

OPEN & TEFC (TEFC FRAMES IN GREY BOX WHERE DIFFERENT THAN OPEN)

NEMA FRAME PROGRAM HP	3600 RPM						1800 RPM						1200 RPM			900 RPM								
	"T"		"U"		ORIGINAL		"T"		"U"		ORIGINAL		"T"	"U"	ORIGINAL	"T"	"U"	ORIGINAL						
	FRAMES		FRAMES		NEMA		FRAMES		FRAMES		NEMA		FRAMES	FRAMES	NEMA	FRAMES	FRAMES	NEMA						
	1964		1952		FRAMES		1964		1952		FRAMES		1964	1952	FRAMES	1964	1952	FRAMES						
	-	-	-	-	-	-	143T	182	203	145T	184	204	145T	184	204	182T	213	225						
1 1/2	143T	182	203	145T	184	204	145T	184	224	182T	184	224	184T	213	225	184T	213	254						
2	145T	184	204	145T	184	224	145T	184	224	184T	213	225	184T	213	225	213T	215	254						
3	145T	182T	184	224	182T	213	225	182T	213	225	213T	215	254	213T	215	254	215T	254U	284					
5	182T	184T	213	225	184	215	254	184	215	254	215T	254U	284	215T	254U	284	254T	256U	324					
7 1/2	184T	213T	215	254	213T	254U	284	213T	254U	284	254T	256U	324	254T	256U	324	256T	284U	326					
10	213T	215T	254U	284	215T	256U	324	215T	256U	324	256T	284	326	256T	284	326	284T	286U	364					
15	215T	254T	256U	324	254T	284T	326	254T	284T	326	284T	234T	364	284T	234T	364	286T	326U	365					
20	254T	256T	284U	286U	326	256T	286U	364	256T	286U	364	286T	326U	365	286T	326U	365	324T	364U	404				
25	256T	284TS	286U	324U	364S	365S	284T	324U	364	365	324T	364U	404	326T	365U	405	326T	365U	405	364T	404U	444		
30	284TS	286TS	324S	326S	364S	404S	286T	326U	365	404	326T	365U	405	364T	404U	444	364T	404U	444	364T	404U	444		
40	286TS	324TS	326S	364US	365S	405S	324T	364U	404	405	364T	404U	444	365T	405U	445	365T	405U	445	365T	405U	445		
50	324TS	326TS	364US	404S	444S	326T	365US	405S	444S	365T	405U	445	404T	444U	504U	404T	444U	504U	404T	444U	504U			
60	326TS	364TS	365US	405US	405S	445S	364TS	404US	405US	444S	445S	404T	444U	504U	405T	445U	505	405T	445U	505	405T	445U	505	
75	364TS	365TS	404US	444US	444S	504S	365TS	405US	444US	445S	504S	405T	445U	505	444T	-	-	444T	-	-	444T	-	-	
100	365TS	405TS	405US	445US	445S	505S	404TS	405TS	444US	445US	504S	505S	444T	-	-	445T	-	-	444T	-	-	445T	-	-
125	404TS	444TS	444US	504US	405TS	444TS	445US	505S	445T	-	-	445T	-	-	-	-	-	445T	-	-	445T	-	-	
150	405TS	445TS	445US	505S	444TS	445TS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
200	444TS	-	-	-	445TS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250	445TS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

SERIES 4035 BEARING FRAMES, ALL SPEEDS

MOTOR HP AND SPEED	1200RPM	1/2	3/4	1	1 1/2	2	3	5	7 1/2	10	-	-	15	20	-	-	25	30	-
	1800RPM	3/4	1	1 1/2&2	3	5	7 1/2	10	15	20	-	-	25	30	-	-	40	50	-
	3600RPM	-	-	-	5	7 1/2	10	15	20	25	30	40	-	-	50	60	-	-	75
FRAME SIZE	1954 RERATE	56	182	184	213	215	254U	256U	284U	286U	324S	326S	324U	326U	364US	365US	364U	365U	404US
	1964 RERATE	56	143T	145T	182T	184T	213T	215T	254T	256T	284TS	286TS	284T	286T	324TS	326TS	324T	326T	364TS
PUMP SIZE																			
B&G	ARMSTRONG																		
1 1/4A	1 1/4D	S	S	S	S	S	S	S	-	-	-	-	-	-	-	-	-	-	-
1 1/2A	1 1/2D	S	S	S	S	S	S	S	M	M	-	-	-	-	-	-	-	-	-
2A	2D	S	S	S	S	S	S	S	M	M	-	-	-	-	-	-	-	-	-
2 1/2A	2 1/2D	S	S	S	S	S	S	S	M	M	M	M	-	-	-	-	-	-	-
3A	3D	-	S	S	S	S	S	S	M	M	M	M	-	-	-	-	-	-	-
4A	4D	-	S	S	S	S	S	S	M	M	M	M	-	-	-	-	-	-	-
1 1/4BB	1 1/4E	-	S	S	S	S	S	S	M	M	M	M	-	-	M	-	-	-	-
1 1/2BB	1 1/2E	-	S	S	S	S	S	S	M	M	M	M	-	-	-	-	-	-	-
2BB	2E	-	S	S	S	S	S	S	M	M	M	M	-	-	M	-	-	-	-
2 1/2B	2 1/2E	-	-	-	S	S	S	S	-	-	-	-	-	-	-	-	-	-	-
3BB	3E	-	-	-	S	S	S	S	S	-	-	-	-	-	-	-	-	-	-
4BB	4E	-	-	-	-	S	S	S	S	S	-	-	-	-	-	-	-	-	-
5BB	5E	-	-	-	-	-	S	S	S	S	-	-	M	-	-	-	-	-	-
6BB	6E	-	-	-	-	-	-	-	M	M	-	-	M	-	-	-	-	-	-

"S" DESIGNATION - 7/8" IMPELLER BORE, 1 1/4" I.D. PACKING

"M" DESIGNATION - 1 1/4" IMPELLER BORE, 1 5/8" I.D. PACKING

SECTIONAL DRAWING

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ITEM	DESCRIPTION	PAGE	ITEM	DESCRIPTION	PAGE	ITEM	DESCRIPTION	PAGE
**	BRG. FRAME ASSY.	10	217	LANTERN RING	10	316	SNAP RING (INSIDE)	9
101	VOLUTE	4 & 5	218	GLAND	10	317	SNAP RING (OUTSIDE)	9
102	IMPELLER	6 & 7	219	GLAND STUD (2 req'd)	10	332	GREASE FITTING	9
103	VOLUTE GASKET	8	220	GLAND STUD NUT (2 req'd)	10	337	VENT FITTING	9
104	VOLUTE CAPSCREW	8	222	GLAND CLAMP	10	338	SHAFT ASSEMBLY	9
117	IMPELLER CAPSCREW	9	301	BEARING FRAME	9	340	IMPELLER KEY	10
118	IMPELLER WASHER	10	302	BALL BEARING (INBOARD)	9	341	COUPLER KEY	10
201	COVERPLATE	8	303	BALL BEARING (OUTBOARD)	9	342	WATER SLINGER	9
202	COVERPLATE CAPSCREW	10	310	BEARING COVER (INBOARD)	9		COUPLER	11
216	PACKING (5 RINGS req'd)	10	314	BEARING COVER CAPSCREW	10			

4035 PUMP PARTS

(OLD STYLE TANGENTIAL DISCHARGE)

"S" SIZE 7/8" IMPELLER BORE ----- 1" SHAFT DIAMETER AT COUPLER

PACKING GLAND 1 1/4" O.D. SHAFT SLEEVE

ITEM 101 VOLUTE

PUMP SIZE	CONST.	PART NUMBER	BAR CODE
1 1/4D	B.F. & A.I.*	415291-011	
1 1/4D	A.B.*	415291-041	
1 1/2D	B.F. & A.I.*	415293-011	
1 1/2D	A.B.*	415293-041	
2D	B.F. & A.I.*	425141-011	
2D	A.B.*	425141-041	
2 1/2D	B.F. & A.I.*	425143-011	
2 1/2D	A.B.*	425143-041	
3D	B.F. & A.I.*	425145-011	
3D	A.B.*	425145-041	
4D	B.F. & A.I.*	415299-011	
4D	A.B.*	415299-041	

* B.F. Denotes "Bronze Fitted " construction. Parts in contact with pumped liquid are bronze or copper, except volute and cover plate.

A.I. Denotes "All Iron " construction. Parts in contact with the pumped liquid are cast iron or steel, except shaft sleeve & mechanical seal.

A.B. Denotes "All Bronze" construction. Parts in contact with the pumped liquid are bronze or stainless steel.

VOLUTES CONTINUED ON PAGE 5

4035 PUMP PARTS

(OLD STYLE TANGENTIAL DISCHARGE)

"S" SIZE 7/8" IMPELLER BORE ----- 1" SHAFT DIAMETER AT COUPLER

PACKING GLAND 1 1/4" O.D. SHAFT SLEEVE

ITEM 101 VOLUTE (cont'd)

PUMP SIZE	CONST.	PART NUMBER	BAR CODE
1 1/4E	B.F. & A.I.*	416168-011	
1 1/4E	A.B.*	416168-041	
1 1/2E	B.F. & A.I.*	425147-011	
1 1/2E	A.B.*	425147-041	
2E	B.F. & A.I.*	419153-011	
2E	A.B.*	419153-041	
2 1/2E	B.F. & A.I.*	415297-011	
2 1/2E	A.B.*	415297-041	
3E	B.F. & A.I.*	416180-011	
3E	A.B.*	416180-041	
4E	B.F. & A.I.*	415301-011	
4E	A.B.*	415301-041	
5E	B.F. & A.I.*	415303-011	
5E	A.B.*	415303-041	

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A.B. Denotes "All Bronze" construction. Parts in contact with the pumped liquid are bronze or stainless steel.

4035 PUMP PARTS

(OLD STYLE TANGENTIAL DISCHARGE)

"S" SIZE 7/8" IMPELLER BORE ----- 1" SHAFT DIAMETER AT COUPLER

PACKING GLAND 1 1/4" O.D. SHAFT SLEEVE

ITEM 102 IMPELLER **

PUMP SIZE	CONST.	PART NUMBER	BAR CODE
1 1/4D	B.F. & AB.*	411852-041	
1 1/4D	A.I.*	411852-011	
1 1/2D	B.F. & AB.*	411860-041	
1 1/2D	A.I.*	411860-011	
2D	B.F. & AB.*	411860-041	
2D	A.I.*	411860-011	
2 1/2D	B.F. & AB.*	406642-041	
2 1/2D	A.I.*	406642-011	
3D	B.F. & AB.*	411868-041	
3D	A.I.*	411868-011	
4D	B.F. & AB.*	411874-041	
4D	A.I.*	411874-011	

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A.B. Denotes "All Bronze" construction. Parts in contact with the pumped liquid are bronze or stainless steel.

** Impeller Part Numbers are for full or maximum diameter Impellers. Always specify Pump Serial Number and where possible, measure and advise the diameter of the Impeller being replaced on these Pumps.

IMPELLERS CONTINUED ON PAGE 7

4035 PUMP PARTS

(OLD STYLE TANGENTIAL DISCHARGE)

"S" SIZE 7/8" IMPELLER BORE ----- 1" SHAFT DIAMETER AT COUPLER

PACKING GLAND 1 1/4" O.D. SHAFT SLEEVE

PUMP SIZE	CONST.	PART NUMBER	BAR CODE
1 1/4E	B.F. & AB.*	407922-041	
1 1/4E	A.I.*	407922-011	
1 1/2E	B.F. & AB.*	407922-041	
1 1/2E	A.I.*	407922-011	
2E	B.F. & AB.*	411881-041	
2E	A.I.*	411881-011	
2 1/2E	B.F. & AB.*	411881-041	
2 1/2E	A.I.*	411881-011	
3E	B.F. & AB.*	419465-041	
3E	A.I.*	419465-011	
4E	B.F. & AB.*	411940-041	
4E	A.I.*	411940-011	
5E	B.F. & AB.*	411941-041	
5E	A.I.*	411941-011	

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** Impeller Part Numbers are for full or maximum diameter Impellers. Always specify Pump Serial Number and where possible, measure and advise the diameter of the Impeller being replaced on these Pumps.

4035 PUMP PARTS

(OLD STYLE TANGENTIAL DISCHARGE)

"S" SIZE 7/8" IMPELLER BORE----- 1" SHAFT DIAMETER AT COUPLER

PACKING GLAND 1 1/4" O.D. SHAFT SLEEVE

ITEM 201 COVERPLATE			
PUMP SIZE	CONST.	PART NUMBER	BAR CODE
1 1/4D TO 4D	B.F. & A.I.*	419457-011	
1 1/4D TO 4D	A.B.*	419592-041	
1 1/4E TO 5E	B.F. & A.I.*	419459-011	
1 1/4E TO 5E	A.B.*	419459-041	

ITEM 103 VOLUTE GASKET			
PUMP SIZE	CONST.	PART NUMBER	BAR CODE
1 1/4D TO 4D	ALL	106592-000	
1 1/4E TO 5E	ALL	406604-000	

ITEM 104 VOLUTE CAPSCREW					
PUMP SIZE	CONST.	NO. REQ'D	SIZE	PART NUMBER	BAR CODE
1 1/4D TO 4D	ALL	8	3/8-16NCX7/8"	911121-108	
1 1/4E TO 5E	ALL	12	7/16-14NCX1"	911123-108	

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A.B. Denotes "All Bronze" construction. Parts in contact with the pumped liquid are bronze or stainless steel.

4035 PUMP PARTS
(OLD STYLE TANGENTIAL DISCHARGE)

PACKING GLAND 1 1/4" O.D. SHAFT SLEEVE

BEARING FRAME ASSEMBLY

ITEM NO.	DESCRIPTION	PART NUMBER	BAR CODE
-	BEARING FRAME ASSY. B.F. & I.F.	819473-012	
-	BEARING FRAME ASSY. A.B.	819473-042	
NOTE: Each Bearing Frame Assembly includes components in this table having a part number listed in the column below the Bearing Frame Part Number.			
117	IMPELLER CAPSCREW S/S	911900-108	
301	BEARING FRAME	419455-012	
302	BALL BEARING (INBOARD)	871101-683	
303	BALL BEARING (OUTBOARD)	871101-363	
310	BEARING COVER (INBOARD)	419208-002	
316	SNAP RING (INSIDE)	923110-031	
317	SNAP RING (OUTSIDE)	923109-008	
332	GREASE FITTING	425030-011	
337	VENT FITTING	407444-000	
338	SHAFT ASSEMBLY B.F. & A.I.*	819471-011	
338	SHAFT ASSEMBLY A.B.*	819471-071	
342	WATER SLINGER	406622-000	

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FOR COMMON PARTS SEE PAGE 10

4035 PUMP PARTS

(OLD STYLE TANGENTIAL DISCHARGE)

PACKING GLAND 1 1/4" O.D. SHAFT SLEEVE

COMMON PARTS

(Not included in the Bearing Frame Assembly)

ITEM NO.	DESCRIPTION	PART NUMBER	BAR CODE
118	IMPELLER WASHER B.F.& A.I.*	406614-000	
118	IMPELLER WASHER A.B.*	406677-000	
216	GLAND PACKING (5 RINGS REQ'D)	966301-001	
217	LANTERN RING B.F. & A.B.	419461-041	
217	LANTERN RING A.I.	419461-011	
218	GLAND B.F. & A.B.	419463-041	
218	GLAND A.I.	419463-011	
219	GLAND STUD (2 REQ'D)	915221-420	
220	GLAND NUT (2 REQ'D)	913121-400	
222	GLAND CLAMP	419490-071	
338	SHAFT SLEEVE B.F.	419472-041	
338	SHAFT SLEEVE A.B.& A.I.	419472-071	

HARDWARE

ITEM NO.	DESCRIPTION	PART NUMBER	BAR CODE
202	COVERPLATE CAPSCREW (4 REQ'D)	911121-108	
314	BEARING COVER CAPSCREW (4 REQ'D)	911121-107	
340	IMPELLER KEY	974515-100	
341	COUPLER KEY	974523-100	

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4035 PUMP PARTS

(OLD STYLE TANGENTIAL DISCHARGE)

PACKING GLAND 1 1/4" O.D. SHAFT SLEEVE

COUPLER SELECTION TABLE

(WOODS TYPE)

PUMP SHAFT SIZE	MOTOR FRAME SIZE	MOTOR SHAFT SIZE	WOODS SIZE	COUPLER PART NUMBER	BAR CODE
1"	56	5/8"	4J	819340-002	
1"	143T - 145T 182 - 184	7/8"	4J	819341-002	
1"	182T - 184T 213 - 215	1 1/8"	5J	819342-002	
1"	213T - 215T 254U - 256U	1 3/8"	6J	819344-002	
1"	254T - 256T 284U	1 5/8"	7J	819347-002	

COUPLER INSERT SELECTION TABLE

(WOODS TYPE)

COUPLER INSERT SIZE	INSERT NUMBER	PART NUMBER	BAR CODE
4J	4JE	875000-801	
5J	5JE	875000-802	
6J	6JE	875000-803	
7J	7JE	875000-804	