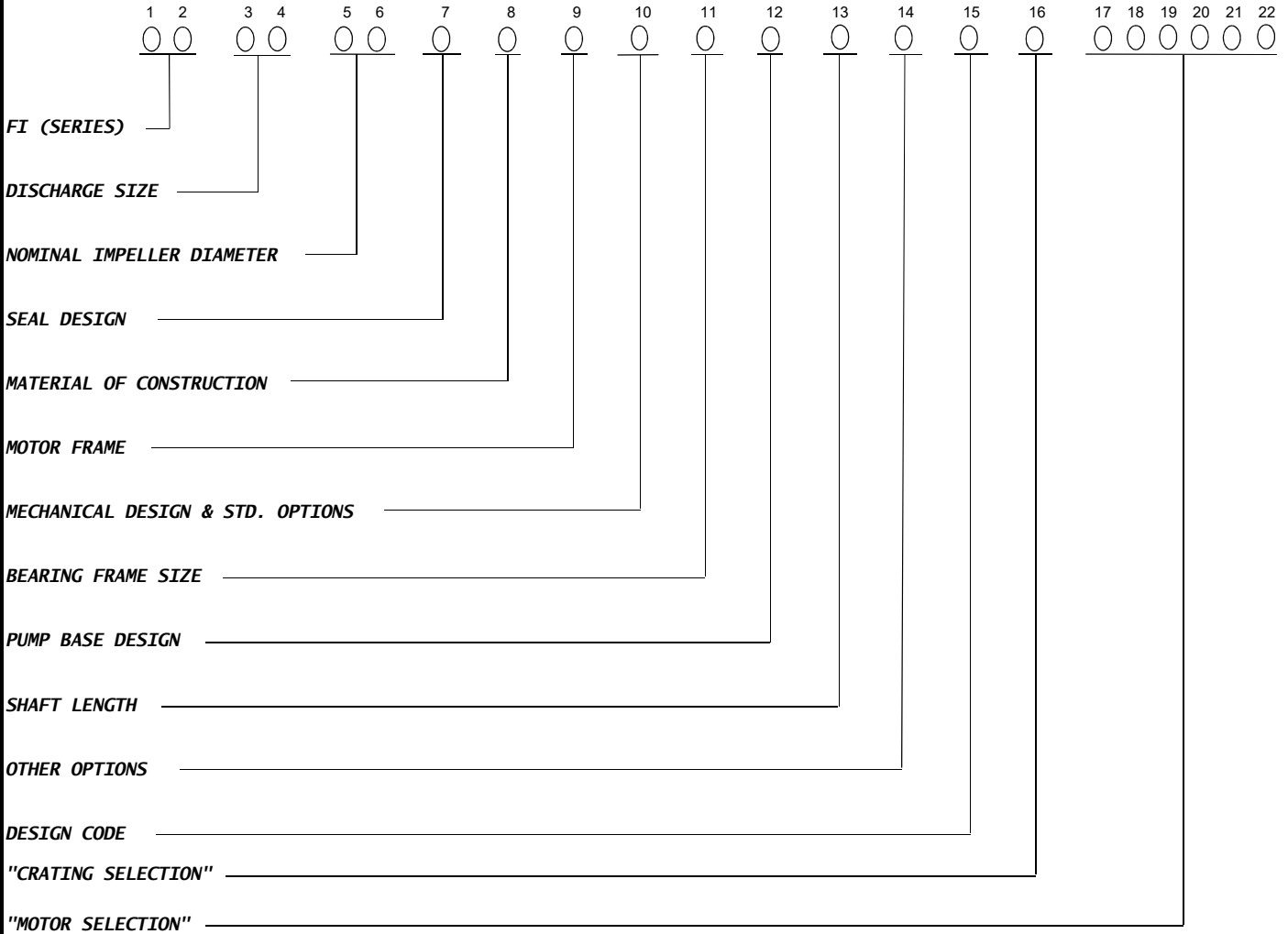


KEY TO "FI" PUMPS TACO BASE MOUNTED, END SUCTION PUMPS



FOR PUMP ASSEMBLY, SEE DRAWING: 953-1628

AJ	10/16/2019	53844	CG
AH	9/4/2019	53708	WT
AG	6/18/2019	52950	CG
AF	10/4/2018	52671	SPA
REV	DATE	ECO	APPD

KEY TO FI PUMP CODE TACO BASE MOUNTED END SUCTION PUMPS			
DRAWN BY: JRD	DATE 05/31/18	CHECKED BY: FF	APPROVAL BY: SPA ENG. APPROVAL BY: CG
A-PL-953-1623			SHEET 1 OF 7
			REV AJ

PUMP TYPE POSITIONS 1 & 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
X	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CODE	DESCRIPTION
FI	BASE MOUNTED, END SUCTION PUMP

PUMP DISCHARGE SIZE AND IMPELLER DIAMETER POSITIONS 3 thru 6 & 11

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0	0	X	X	X	X	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0

DISCHARGE SIZE CODE	DISCHARGE SIZE INCH	IMPELLER SIZE INCH	NOMINAL IMPELLER SIZE INCH	BEARING FRAME SIZE CODE	
				RPM ≤ 1760	RPM > 1760
12	1 1/4	06	6 1/4	H	H
15	1 1/2	06	6 1/4	H	H
25	2 1/2	06	6 1/4	H	H
12	1 1/4	07	7 1/4	H	H
15	1 1/2	07	7 1/4	H	H
20	2	07	7 1/4	H	H
25	2 1/2	07	7 1/4	H	J
30	3	07	7 1/4	J	J
40	4	75	7	J	J
40	4	07	7 1/4	J	J
50	5	07	7 1/4	J	J
25	2 1/2	08	8 3/4	J	J
12	1 1/4	09	9 1/2	H	H
15	1 1/2	09	9 1/2	J	J
20	2	09	9 1/2	H	J
25	2 1/2	09	9 1/2	H	J
30	3	09	9 1/2	J	J
40	4	09	9 1/2	H	H
50	5	09	9 1/2	J	J
50	5	95	9 1/2	J	J
60	6	09	9 1/2	J	J
25	2 1/2	10	10	H	H
15	1 1/2	11	11 1/4	J	J
25	2 1/2	11	11	J	J
30	3	11	11	J	J
40	4	11	11	J	J
50	5	11	11	J	J
60	6	11	11	J	J
20	2	13	13 1/2	J	J
25	2 1/2	13	13 1/2	L	L
30	3	13	13 1/2	L	L
40	4	13	13 1/2	L	L
50	5	13	13 1/2	L	L
60	6	13	13 1/2	L	L
80	8	13	13 1/2	N	N

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KEY TO FI PUMP CODE
TACO BASE MOUNTED
END SUCTION PUMPS

A-PL-953-1623	SHEET 2 OF 7	REV AJ
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DRAWN BY: JRD	DATE 05/31/18	CHECKED BY: FF	APPROVAL BY: SPA	ENG. APPROVAL BY: CG
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SEAL CODE - POSITION 7

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CODE	TEMP (F)	MATERIAL	CODE	TEMP (F)	MATERIAL
B	250°	SEAT HALF - NI-RESIST RUBBER COMPONENT - EPT	L	225°	SEAT HALF - CERAMIC RUBBER COMPONENT - BUNA
D	300° (CLEAN WATER)	SEAT HALF - TUNGSTEN CARBIDE RUBBER COMPONENT - EPT	V	250°	SEAT HALF - NI-RESIST RUBBER COMPONENT - VITON
E (STD.)	250°	SEAT HALF - CERAMIC RUBBER COMPONENT - EPT	W	300° (CLEAN WATER)	SEAT HALF - TUNGSTEN CARBIDE RUBBER COMPONENT - VITON
F	250°	SEAT HALF - Si-CARBIDE RUBBER COMPONENT - EPT	X	250°	SEAT HALF - CERAMIC RUBBER COMPONENT - VITON
J	225°	SEAT HALF - NI-RESIST RUBBER COMPONENT - BUNA	Z		NO SEAL REQUIRED (MECHANICAL SEAL DESIGN)
K	225°	SEAT HALF - TUNGSTEN CARBIDE RUBBER COMPONENT - BUNA			

MATERIAL OF CONSTRUCTION - POSITION 8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CODE	IMPELLER	SLEEVE	SHAFT	SPEED IN RPM'S AND BALANCE HOLE REQUIREMENTS	
				1160, 1450, 1760 W/O BALANCE HOLES	1160, 1450, 1760, 2900, 3500 WITH OR W/O BALANCE HOLES
1	CAST IRON	S'STEEL	STEEL	3009D, 1206D, 1506D, 2506D, 1207D, 1507D, 1509D, 2009D, 2007D, 4007D, 5007D, 2509D	2507D, 3007D, 1209, 4009D, 5009D, 6009D, 1511, 2511D, 3011D, 4011C, 5011D, 6011D, 2513D, 3013D, 4013D, 5013D, 6013D, 8013D, 2510C, 5095, 4075, 2013C, 2508
2	BRONZE	BRONZE	STEEL		
3	CAST IRON	S'STEEL	S'STEEL		
4	BRONZE	BRONZE	S'STEEL		
5	BRONZE	S'STEEL	STEEL		
6	BRONZE	S'STEEL	S'STEEL		
7	S'STEEL	BRONZE	STEEL		
8 (NSF)	S'STEEL	BRONZE	S'STEEL		
9	S'STEEL	BRONZE	S'STEEL		

CODE	IMPELLER	SLEEVE	SHAFT	SPEED IN RPM'S AND BALANCE HOLE REQUIREMENTS	
				2900 & 3500 WITH BALANCE HOLES	
A	CAST IRON	S'STEEL	STEEL	3009D, 1206D, 1506D, 2506D, 1207D, 1507D, 1509D, 2009D, 2007D, 4007D, 5007D, 2509D	
B	BRONZE	BRONZE	STEEL		
C	CAST IRON	S'STEEL	S'STEEL		
D	BRONZE	BRONZE	S'STEEL		
E	BRONZE	S'STEEL	STEEL		
F	BRONZE	S'STEEL	S'STEEL		
G	S'STEEL	BRONZE	STEEL		
H (NSF)	S'STEEL	BRONZE	S'STEEL		
J	S'STEEL	BRONZE	S'STEEL		

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AG	6/18/2019	52950	CG
AF	10/4/2018	52671	SPA
REV	DATE	ECO	APPD

**KEY TO FI PUMP CODE
TACO BASE MOUNTED
END SUCTION PUMPS**

DRAWN BY: JRD	DATE: 05/31/18	CHECKED BY: FF	APPROVAL BY: SPA	ENG. APPROVAL BY: CG	A-PL-953-1623	SHEET 3 OF 7	REV AJ
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MOTOR FRAME CODE - POSITION 9

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0	0	0

CODE	MOTOR FRAME SIZE		CODE	MOTOR FRAME SIZE	
	NEMA (WHEN POSITION 10 IS A LETTER)	IEC (WHEN POSITION 10 IS A NUMBER)		NEMA (WHEN POSITION 10 IS A LETTER)	IEC (WHEN POSITION 10 IS A NUMBER)
A	56	80K	L	286 (1150, 1450, 1760 RPM)	180M
B	143	80G	V	286 (2900 & 3500 RPM)	---
C	145	90S	M	324	180L
D	182	90L	N	326	200L
E	184	100L	P	364	225S
F	213	112M	Q	365	225M
G	215	132S	R	404	250M
H	254	132M	S	405	280S
J	256 (1150, 1450, 1760 RPM)	160M	Y	444	---
U	256 (3450 + 2900 RPM)	280M	Z	445	---
K	284	160L	T	447	---
			X	NO MOTOR PARTS (PUMP ONLY)	

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AF	10/4/2018	52671	SPA
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**KEY TO FI PUMP CODE
TACO BASE MOUNTED
END SUCTION PUMPS**

DRAWN BY: JRD	DATE 05/31/18	CHECKED BY: FF	APPROVAL BY: SPA	ENG. APPROVAL BY: CG	A-PL-953-1623	SHEET 4 OF 7	REV AJ
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MECHANICAL DESIGN CODE - POSITION 10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0	0

CODE	MECHANICAL DESIGN
A (STD.)	MECHANICAL DESIGN - DRY SHAFT (125PSI W/O WEAR RING) NEMA DESIGN, 60Hz APPLICATION
B	MECHANICAL DESIGN - DRY SHAFT (250PSI W/O WEAR RING) NEMA DESIGN, 60Hz APPLICATION
C	MECHANICAL DESIGN - DRY SHAFT (125PSI W/BRONZE WEAR RING) NEMA DESIGN, 60Hz APPLICATION
D	MECHANICAL DESIGN - DRY SHAFT (250PSI W/BRONZE WEAR RING) NEMA DESIGN, 60Hz APPLICATION
J	MECHANICAL DESIGN - DRY SHAFT (125PSI W/CAST IRON WEAR RING) NEMA DESIGN, 60Hz APPLICATION
K	MECHANICAL DESIGN - DRY SHAFT (250PSI W/CAST IRON WEAR RING) NEMA DESIGN, 60Hz APPLICATION
E	MECHANICAL DESIGN - DRY SHAFT (125PSI W/O WEAR RING) NEMA DESIGN, 50Hz APPLICATION
F	MECHANICAL DESIGN - DRY SHAFT (250PSI W/O WEAR RING) NEMA DESIGN, 50Hz APPLICATION
G	MECHANICAL DESIGN - DRY SHAFT (125PSI W/O WEAR RING) NEMA DESIGN, 50Hz APPLICATION
H	MECHANICAL DESIGN - DRY SHAFT (250PSI W/O WEAR RING) NEMA DESIGN, 50Hz APPLICATION
L	MECHANICAL DESIGN - DRY SHAFT (125PSI W/O WEAR RING) NEMA DESIGN, 50Hz APPLICATION
M	MECHANICAL DESIGN - DRY SHAFT (250PSI W/O WEAR RING) NEMA DESIGN, 50Hz APPLICATION
1	MECHANICAL DESIGN - DRY SHAFT (125PSI W/O WEAR RING) IEC DESIGN, 50Hz APPLICATION
2	MECHANICAL DESIGN - DRY SHAFT (250PSI W/O WEAR RING) IEC DESIGN, 50Hz APPLICATION
3	MECHANICAL DESIGN - DRY SHAFT (125PSI W/BRONZE WEAR RING) IEC DESIGN, 50Hz APPLICATION
4	MECHANICAL DESIGN - DRY SHAFT (250PSI W/BRONZE WEAR RING) IEC DESIGN, 50Hz APPLICATION
5	MECHANICAL DESIGN - DRY SHAFT (125PSI W/CAST IRON WEAR RING) IEC DESIGN, 50Hz APPLICATION
6	MECHANICAL DESIGN - DRY SHAFT (250PSI W/CAST IRON WEAR RING) IEC DESIGN, 50Hz APPLICATION

BEARING FRAME DESIGN CODE - POSITION 11

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0	0	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0

CODE	BEARING FRAME
H	"H" - BEARING FRAME (SEE PAGE 2)
J	"J" - BEARING FRAME (SEE PAGE 2)
L	"L" - BEARING FRAME (SEE PAGE 2)
N	"N" - BEARING FRAME (SEE PAGE 2)

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AG	6/18/2019	52950	CG
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KEY TO FI PUMP CODE TACO BASE MOUNTED END SUCTION PUMPS		
A-PL-953-1623	SHEET 5 OF 7	REV AJ

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BASE & COUPLER GUARD DESIGN CODE - POSITION 12

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
0	0	0	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0

CODE	BASE DESIGN CONFIGURATION
0	WITHOUT BASE & COUPLER GUARD
1	WELDED BASE WITH STANDARD COUPLER GUARD (STD.)
2	WELDED BASE WITH OSHA COUPLER GUARD (STD.)

SHAFT LENGTH DESIGN CODE - POSITION 13

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
0	0	0	0	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0

CODE	SHAFT DESCRIPTION
S	SHORT SHAFT
L	LONG SHAFT
W	PUMP END ONLY

STANDARD OPTIONS CODE - POSITION 14

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
0	0	0	0	0	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0

CODE	STANDARD OPTIONS
0	STANDARD
1	DODGE COUPLER
2	FALK COUPLER
3	GREASABLE BEARINGS
4	DODGE COUPLER & GREASABLE BEARINGS
5	FALK COUPLER & GREASABLE BEARINGS

DESIGN CODE - POSITION 15

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0

CODE	HYDRAULIC DESIGN HISTORY
A	FOR HYDRAULICS AS OF JANUARY 1, 2002
B	FOR HYDRAULICS AS OF JANUARY 31, 2004
C	FOR NEW HYDRAULICS/DESIGNS AS OF JANUARY 20, 2012
D	FOR NEW HYDRAULICS/DESIGNS AS OF JUNE 1, 2016

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AG	6/18/2019	52950	CG
AF	10/4/2018	52671	SPA
REV	DATE	ECO	APPD

DRAWN BY: JRD	DATE: 05/31/18	CHECKED BY: FF	APPROVAL BY: SPA	ENG. APPROVAL BY: CG
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KEY TO FI PUMP CODE TACO BASE MOUNTED END SUCTION PUMPS	
A-PL-953-1623	SHEET 6 OF 7
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CRATING OPTION - POSITION 16

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0

16	Z = CRATING
X	X = NO CRATING

OPERATION SEQUENCES

WET END - SUB-ASSEMBLY

Sequence #	Operation Code	Description	Labor Entry
10	3700-715	MACH CYCLE-FI PUMP WASH	Backflush
20	3700-710	FI PUMP PICK-WASH-PREP	Backflush
30	3700-735	MACH CYCLE-FI PUMP TEST	Backflush
40	3700-730	FI PUMP HYDRO-TEST	Backflush
50	3700-720	FI PUMP WET END ASSY	Quantity Only

NOTE: Position 16
 If position 16 is an X do not use operation 9500-700
 If position 16 is a Z use operation 9500-700

PUMP ASSEMBLY OPTION - WITH MOTOR

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Z	0	0	0	0	0	0

Sequence #	Operation Code	Description	Labor Entry
10	3700-740	FI PUMP ASSY WET END TO BASE	Quantity Only
20	3700-760	FI PUMP MOUNT MOTOR TO BASE	Quantity Only
30	3700-770	FI PUMP COUPLE PUMP & MOTOR	Backflush
40	3700-780	FI PUMP PNT & PREP SHIP MTR	Quantity Only
50	9500-700	CRATE FI, GT, TA, TC, TS PUMPS	Quantity Only

PUMP ASSEMBLY OPTION - LESS MOTOR

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Z	0	0	0	0	0	0

Sequence #	Operation Code	Description	Labor Entry
10	3700-740	FI PUMP ASSY WET END TO BASE	Quantity Only
20	3700-750	FI PUMP FINAL ASSY - LESS MOTOR	Backflush
30	3700-790	FI PUMP PNT & PREP SHIP NO MTR	Quantity Only
40	9500-700	CRATE FI, GT, TA, TC, TS PUMPS	Quantity Only

PUMP ASSEMBLY OPTION - WET END ONLY

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0	0	0	0	0	0	0	0	0	0	0	0	W	0	0	Z	0	0	0	0	0	0

Sequence #	Operation Code	Description	Labor Entry
10	3700-711	FI PUMP WETEND MOUNT TO PALLET	Quantity Only
20	3700-712	FI PUMP PNT & PREP SHIP WETEND	Quantity Only
30	9500-700	CRATE FI, GT, TA, TC, TS PUMPS	Quantity Only

MOTOR CODE - POSITION 17-22

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	X	X	X	X	X

MOTOR SELECTION
CROSS INDEX NUMBER

AJ	10/16/2019	53844	CG
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		ENG. APPROVAL BY: CG	

KEY TO FI PUMP CODE TACO BASE MOUNTED END SUCTION PUMPS	
A-PL-953-1623	SHEET 7 OF 7
REV AJ	