



Ref. Dwg. No. 99-01087 for Bill of Materials

**ASSEMBLY DRAWING**  
**178 SERIES CENTRIFUGAL PUMP**  
**EXPLODED VIEW**

REVIEWED BY SB      DRAWN BY MW  
 P/N: Ref. BOM    12-17-02      1-1/2" = 1' - 0"

**BILL OF MATERIALS**

SUB-ASSEMBLY	MARK	PART NO.	QUAN.	DESCRIPTION	SUB-ASSEMBLY	MARK	PART NO.	QUAN.	DESCRIPTION		
Housing	1	Varies by Size	1	1 Pcs. Housing	Shaft Assembly	8	721110	1	Shaft 416SSC 2x3 / 5x6		
	1O*	Varies by Size	1	2 Pcs. Housing			721120		Shaft 416SSC 6x8 SF		
	1A	720690	2	Gasket, Housing			721130		Shaft 416SSC 6x8 PF		
	1B	B16092101100048	12	Stud, Housing			721140		Shaft 316SS 2x3 / 5x6		
	1C	N19052101100000	12	Nut, Housing			721150		Shaft 316SS 6x8 SF		
	1D	721650	1	Plug, Drain			721160		Shaft 316SS 6x8 PF		
	1E*	Varies by Size	1	Face, Housing			721074		Shaft Stress Proof 2x3 / 5x6		
	1F*	B03F52101100020	1	Bolt, Attachment, Face			721080		Shaft 416SS 2x3 / 5x6		
	2	Ref. Work Ticket	1	Impeller			721090		Shaft 416SS 6x8 SF		
Packing Arrangement	P3	721320	1	Wear Plate			721100		Shaft 416SS 6x8 PF		
	P3A	720480	1 Set	Packing - King			9		721651	1	Plug, Pedastal
		720430		Packing - Graphite							
		720490		Packing - Teflon							
		720510		Packing - Chevron							
	P3B	721671	1	Grease Fitting - Packing							
P3C	720580	1	Packing Gland								
4	720600	2	Gland Bolt Assembly	* = Optional							
5	721001	1	Deflector								
5A	721005	1	O-Ring, Deflector								
6	None	1	Pedestal								
Bearing Assembly	B7A	720750	2	Cap, Bearing							
	B7B	720660	2	Gasket, Bearing Cap							
	B7C	720220	2	Bearing							
	B7D	721671	2	Grease Fitting, Bearing							
	B7E	720360	2	Grease Seal, Bearing							
	B7F	B03F52061600040	4	Bolt, Attachment, Bearing Cap							
	B7G	W01052140605000	8	Flawasher, Bearing Cap							
	B7H	N19052061600000	4	Nut, Bearing Cap							

Ref. Dwg. No. 47-01650

**ASSEMBLY DRAWING  
178 SERIES CENTRIFUGAL PUMP  
BILL OF MATERIALS**