

ARMSTRONG

PARTS LIST

SERIES 4290

CLOSE COUPLED

OR

MOTOR MOUNTED PUMP

OLD STYLE

TANGENTIAL

"M" DESIGNATION

DOUBLE MECHANICAL SEAL DESIGN

1 1/4" IMPELLER BORE
DOUBLE 1 5/8" MECHANICAL SEALS

4290 POWER FRAMES, ALL SPEEDS, SIZE DESIGNATION

SPEED		MOTOR HP											
1800RPM		1/2,3/4&1	1 1/2&2	3	5	7 1/2	10	15	20	25	30	40	50
3600RPM		1 1/2	2&3	5	7 1/2	10	15	20	25	30	40	50	60
FRAME SIZE	1954 RERATE	182C	184C	213C	215C	254UC	256UC	284UC	286UC	324UC	326SC		
	WEST COAST	182YCZ	184YCZ	213CZ	215CZ	254UCZ	256UCZ	254UCZ	256UCZ	284UCZ	286UCZ	324UCZ	326UCZ
	1972 RERATE	143JP	145JP	182JP	184JP	213JP	215JP	254JP	256JP	284JP	286JP	324JP	326JP
PUMP SIZE													
1 1/4D		S	S	S	S	M	-	-	-	-	-	-	-
1 1/2D		S	S	S	S	M	M	-	-	-	-	-	-
2D		S	S	S	S	M	M	-	-	-	-	-	-
2 1/2D		S	S	S	S	M	M	M	-	-	-	-	-
3D		S	S	S	-	M	M	M	M	-	-	-	-
4D		-	S	S	S	-	M	M	M	M	M	-	-
1 1/4E		-	S	S	S	-	M	M	M	M	-	-	-
1 1/2E		-	S	S	S	-	M	M	M	M	M	-	-
2E		-	S	S	S	M	-	M	M	M	M	M	-
2 1/2E		-	-	S	S	M	-	-	-	-	-	-	-
3E		-	-	S	S	M	-	-	-	-	-	-	-
4E		-	-	S	S	M	M	M	-	-	-	-	-
5E		-	-	S	S	M	M	M	M	-	-	-	-
6E		-	-	-	-	-		M	M	M	-	-	-

"S" DESIGNATION - 7/8" IMPELLER BORE, 1 1/4" DOUBLE MECHANICAL SEAL

"M" DESIGNATION - 1 1/4" IMPELLER BORE, 1 5/8" DOUBLE MECHANICAL SEAL

CLOSE COUPLED / MOTOR MOUNTED
OLD STYLE TANGENTIAL, PACKING GLAND DESIGN
MODEL 4290 "M" DESIGNATION
SECTIONAL DRAWING

ITEM NO.	DESCRIPTION	PAGE NO.	ITEM NO.	DESCRIPTION	PAGE NO.
101	VOLUTE	3 & 4	210	RETAINER CUP ("L" CUP)	11
102	IMPELLER	5 & 6	212	SEAL PLATE	11
103	VOLUTE GASKET	7	213	SEAL PLATE CAPSCREW	11
104	VOLUTE CAPSCREW	7	214	SEAL PLATE GASKET	11
117	IMPELLER CAPSCREW	11	215	SEAL CHAMBER BUSHING	11
118	IMPELLER WASHER	11	225	MOTOR CAPSCREW LOCKWASHER	9
201	COVERPLATE	7	339	SHAFT SLEEVE	10
202	COVERPLATE CAPSCREW	9	340	IMPELLER KEY	11
206	MOTOR/PUMP BRACKET	8	342	WATER SLINGER	11
207	MOTOR CAPSCREW	8	not shown	SHAFT SLEEVE SPACER	10
208	MECHANICAL SEAL ASSEMBLY	8	not shown	SHAFT SLEEVE & SPACER KITS	10
209	SEAT INSERT	11			

**MODEL 4290 "M" SIZE
CLOSE COUPLED / MOTOR MOUNTED
PUMP PARTS**

1 1/4" IMPELLER BORE---DOUBLE 1 5/8" MECHANICAL SEAL
"OLD STYLE TANGENTIAL"

ITEM 101 VOLUTE			
PUMP SIZE	MATERIAL	PART NUMBER	BAR CODE
1 1/4D	CAST IRON	415290-011	
1 1/4D	BRONZE	415290-041	
1 1/2D	CAST IRON	415292-011	
1 1/2D	BRONZE	415292-041	
2D	CAST IRON	425140-011	
2D	BRONZE	425140-041	
2 1/2D	CAST IRON	425142-011	
2 1/2D	BRONZE	425142-041	
3D	CAST IRON	425144-011	
3D	BRONZE	425144-041	
4D	CAST IRON	415298-011	
4D	BRONZE	415298-041	

VOLUTES CONTINUED ON PAGE 4

MODEL 4290 "M" SIZE CLOSE COUPLED / MOTOR MOUNTED PUMP PARTS

1 1/4" IMPELLER BORE---DOUBLE 1 5/8" MECHANICAL SEAL
"OLD STYLE TANGENTIAL"

ITEM 101 VOLUTE (cont'd)			
PUMP SIZE	MATERIAL	PART NUMBER	BAR CODE
1 1/4E	CAST IRON	416167-011	
1 1/4E	BRONZE	416167-041	
1 1/2E	CAST IRON	425146-011	
1 1/2E	BRONZE	425146-041	
2E	CAST IRON	419152-011	
2E	BRONZE	419152-041	
2 1/2E	CAST IRON	415296-011	
2 1/2E	BRONZE	415296-041	
3E	CAST IRON	416179-011	
3E	BRONZE	416179-041	
4E	CAST IRON	415300-011	
4E	BRONZE	415300-041	
5E	CAST IRON	415302-011	
5E	BRONZE	415302-041	
6E	CAST IRON	416187-011	
6E	BRONZE	416187-041	

MODEL 4290 "M" SIZE CLOSE COUPLED / MOTOR MOUNTED PUMP PARTS

1 1/4" IMPELLER BORE---DOUBLE 1 5/8" MECHANICAL SEAL
"OLD STYLE TANGENTIAL"

ITEM 102 IMPELLER** 1 1/4" BORE					
PUMP SIZE	MATERIAL	IMP. BORE	MAX. DIA.	PART NUMBER	BAR CODE
2 1/2 D	BRONZE	1 1/4"	7"	419232-041	
2 1/2 D	CAST IRON	1 1/4"	7"	419232-011	
3 D	BRONZE	1 1/4"	7"	419234-041	
3 D	CAST IRON	1 1/4"	7"	419234-011	
4 D	BRONZE	1 1/4"	7"	419236-041	
4 D	CAST IRON	1 1/4"	7"	419236-011	

** 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 6

MODEL 4290 "M" SIZE CLOSE COUPLED / MOTOR MOUNTED PUMP PARTS

1 1/4" IMPELLER BORE---DOUBLE 1 5/8" MECHANICAL SEAL
"OLD STYLE TANGENTIAL"

ITEM 102 IMPELLER** 1 1/4" BORE (cont'd)

PUMP SIZE	MATERIAL	IMP. BORE	MAX. DIA.	PART NUMBER	BAR CODE
1 1/4 E	BRONZE	1 1/4"	9 1/2"	419238-041	
1 1/4 E	CAST IRON	1 1/4"	9 1/2"	419238-011	
1 1/2 E	BRONZE	1 1/4"	9 1/2"	419238-041	
1 1/2 E	CAST IRON	1 1/4"	9 1/2"	419238-011	
2 E	BRONZE	1 1/4"	9 1/2"	419239-041	
2 E	CAST IRON	1 1/4"	9 1/2"	419239-011	
3 E	BRONZE	1 1/4"	9 1/2"	419241-041	
3 E	CAST IRON	1 1/4"	9 1/2"	419241-011	
4 E	BRONZE	1 1/4"	9 1/2"	419243-041	
4 E	CAST IRON	1 1/4"	9 1/2"	419243-011	
5 E	BRONZE	1 1/4"	9 1/2"	419245-041	
5 E	CAST IRON	1 1/4"	9 1/2"	419245-011	
6 E	BRONZE	1 1/4"	9 1/2"	419247-041	
6 E	CAST IRON	1 1/4"	9 1/2"	419247-011	

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MODEL 4290 "M" SIZE CLOSE COUPLED / MOTOR MOUNTED PUMP PARTS

1 1/4" IMPELLER BORE---DOUBLE 1 5/8" MECHANICAL SEAL
"OLD STYLE TANGENTIAL"

ITEM 201 COVERPLATE			
PUMP SIZE	CONSTRUCTION	PART NUMBER	BAR CODE
1 1/4D TO 4D	B.F. & A.I.*	425188-011	
1 1/4D TO 4D	A.B.*	425188-041	
1 1/4E TO 6E	B.F. & A.I.*	425189-011	
1 1/4E TO 6E	A.B.*	425189-041	

ITEM 103 VOLUTE GASKET			
PUMP SIZE	CONST.	PART NUMBER	BAR CODE
1 1/2D TO 4D	ALL	106592-000	
1 1/4E TO 6E	ALL	406604-000	

ITEM 104 VOLUTE CAPSCREW					
PUMP SIZE	CONST.	NO. REQ'D	SIZE	PART NUMBER	BAR CODE
1 1/2D TO 4D	ALL	8	3/8-16NCX2 1/2"	911121-120	
1 1/4E TO 6E	ALL	12	7/16-14NCX1 1/4"	911123-110	

NOTES:

* 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.

**MODEL 4290 "M" SIZE
CLOSE COUPLED / MOTOR MOUNTED
PUMP PARTS**

1 1/4" IMPELLER BORE---DOUBLE 1 5/8" MECHANICAL SEAL
"OLD STYLE TANGENTIAL"

ITEM 206 MOTOR/PUMP BRACKET				
PUMP SIZE	MOTOR FRAME SIZE	CONST.	PART NUMBER	BAR CODE
2 1/2D-6E	284UC - 286UC	ALL	425075-011	
	254JP - 256JP			
	254 TCZ - 286 TCZ			
2 1/2D-6E	324UC - 405UC	ALL	425076-011	
	284JP - 326JP			
	254 TCZ - 286 TCZ			

PUMP SIZE	MOTOR FRAME SIZE	CONST.	NO. REQ'D.	SIZE	PART NUMBER	BAR CODE
2 1/2D-6E	284UC - 286UC	ALL	4	1/2-13NCX1 1/4"	911123-110	
	254JP - 256JP					
	254 TCZ - 286 TCZ					
2 1/2D-6E	324UC - 405UC	ALL	4	5/8-11NCX1 1/4"	911129-110	
	284JP - 326JP					
	254 TCZ - 286 TCZ					

**MODEL 4290 "M" SIZE
CLOSE COUPLED / MOTOR MOUNTED
PUMP PARTS**

1 1/4" IMPELLER BORE---DOUBLE 1 5/8" MECHANICAL SEAL
"OLD STYLE TANGENTIAL"

PUMP SIZE	MOTOR FRAME SIZE	CONST.	PART NUMBER	BAR CODE
2 1/2D-6E	284UC - 286UC	ALL	4 REQ'D	
	254JP - 256JP		1/2"	
	254 TCZ - 286 TCZ		927213-100	
2 1/2D-6E	324UC TO 405UC	ALL	4 REQ'D	
	284JP TO 326JP		5/8"	
	254 TCZ TO 286 TCZ		927215-100	

ITEM 202 COVERPLATE CAPSCREW

PUMP SIZE	CONST.	NO. REQ'D	SIZE	PART NUMBER	BAR CODE
ALL SIZES	ALL	8	3/8"-16NCX1"	911121-108	

MODEL 4290 "M" SIZE CLOSE COUPLED / MOTOR MOUNTED PUMP PARTS

1 1/4" IMPELLER BORE---DOUBLE 1 5/8" MECHANICAL SEAL
"OLD STYLE TANGENTIAL"

ITEM 339 SHAFT SLEEVE				
MOTOR FRAME SIZE	SLEEVE O.D.	CONSTRUCTION	PART NUMBER	BAR CODE
213JP TO 286JP 324 - 326JP 254 TCZ TO 286 TCZ	1 5/8"	BF-AB	425869-023	
213JP TO 286JP 324 - 326JP 254 TCZ TO 286 TCZ	1 5/8"	AI	425869-024	

SHAFT SLEEVE SPACER				
MOTOR FRAME SIZE	SLEEVE O.D.	CONSTRUCTION	PART NUMBER	BAR CODE
213JP TO 286JP 324 - 326JP 254 TCZ TO 286 TCZ	1 5/8"	BF-AB-AI	425868-002	

SHAFT SLEEVE & SPACER KITS				
MOTOR FRAME SIZE	SLEEVE O.D.	CONSTRUCTION	PART NUMBER	BAR CODE
213JP TO 286JP 324 - 326JP 254 TCZ TO 286 TCZ	1 5/8"	BF-AB	835085-007	
213JP TO 286JP 324 - 326JP 254 TCZ TO 286 TCZ	1 5/8"	AI	835085-008	

NOTES:

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- 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.

MODEL 4290 "M" SIZE CLOSE COUPLED / MOTOR MOUNTED PUMP PARTS

1 1/4" IMPELLER BORE---DOUBLE 1 5/8" MECHANICAL SEAL

"OLD STYLE TANGENTIAL"

COMMON PARTS			
ITEM NUMBER	DESCRIPTION	PART NUMBER	BAR CODE
117	IMPELLER CAPSCREW S/S	911900-113	
118	IMPELLER WASHER B.F./ A.B./A.I.*	425742-003	
208	DBL.MECH. SEAL ASSY. B.F./A.B.	811339-022	
208	DBL. MECH. SEAL ASSY. A.I.	811866-022	
208	DBL. MECH. SEAL ASSY. VITON B.F./A.B./A.I.	819299-022	
212		425186-041	
212	SEAL PLATE A.I.	425186-011	
213	SEAL PLATE CAPSCREW - 3/8NCX1" - 4 REQ'D	911121-108	
214	SEAL PLATE GASKET	425187-000	
340	IMPELLER KEY 1/4" SQ. X 1 3/4" LG.	428161-114	
342	WATER SLINGER	411343-000	

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