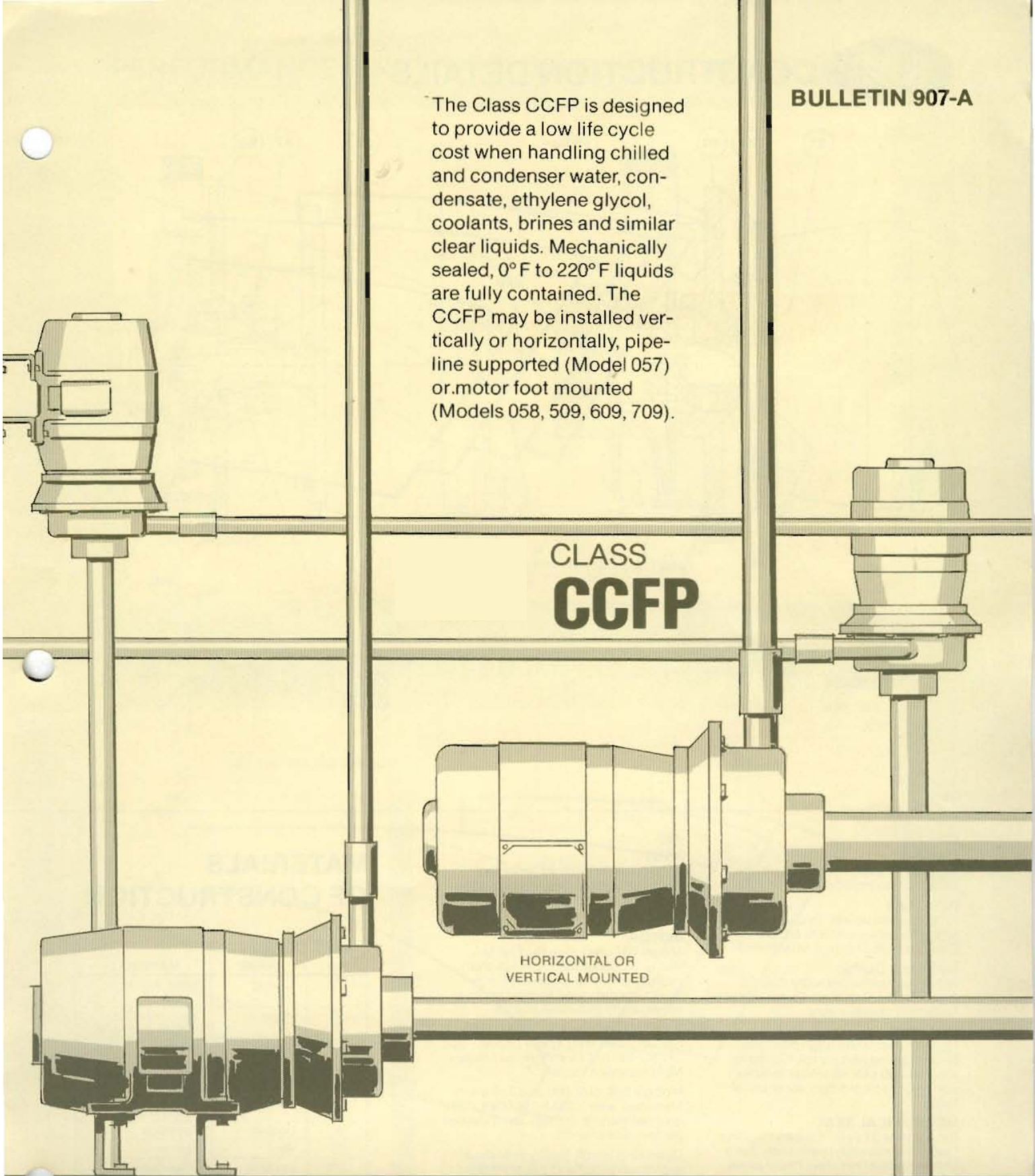


The Class CCFP is designed to provide a low life cycle cost when handling chilled and condenser water, condensate, ethylene glycol, coolants, brines and similar clear liquids. Mechanically sealed, 0° F to 220° F liquids are fully contained. The CCFP may be installed vertically or horizontally, pipeline supported (Model 057) or motor foot mounted (Models 058, 509, 609, 709).



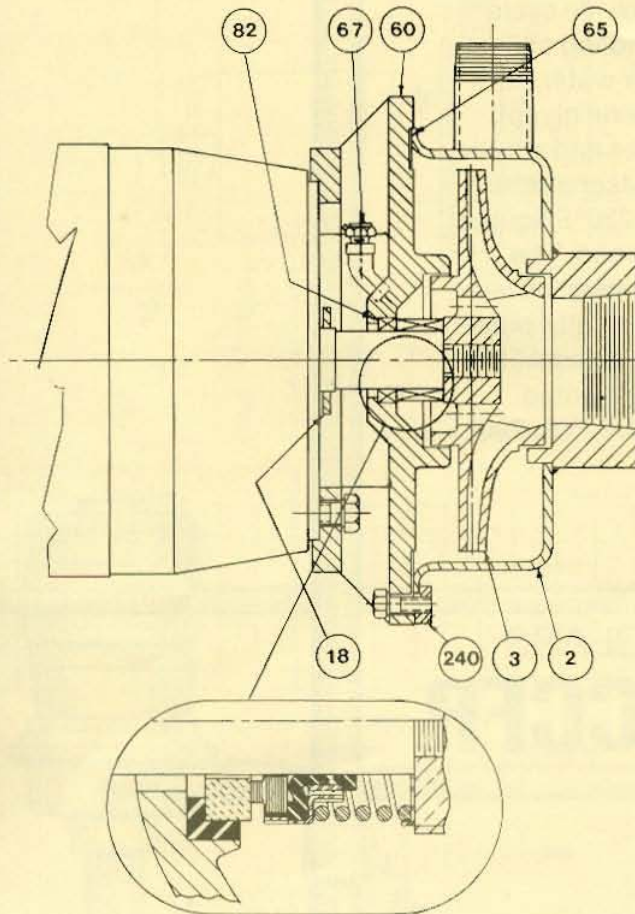
The diagram illustrates four different installation configurations for Class CCFP pumps. At the top left, a pump is shown in a vertical, foot-mounted configuration with a motor on top. At the top right, a pump is shown in a horizontal, pipeline-supported configuration. In the center, a pump is shown in a horizontal, foot-mounted configuration. At the bottom left, a pump is shown in a vertical, foot-mounted configuration. The pumps are connected to a network of horizontal and vertical pipes. The text 'CLASS CCFP' is prominently displayed in the center of the diagram.

CLASS CCFP

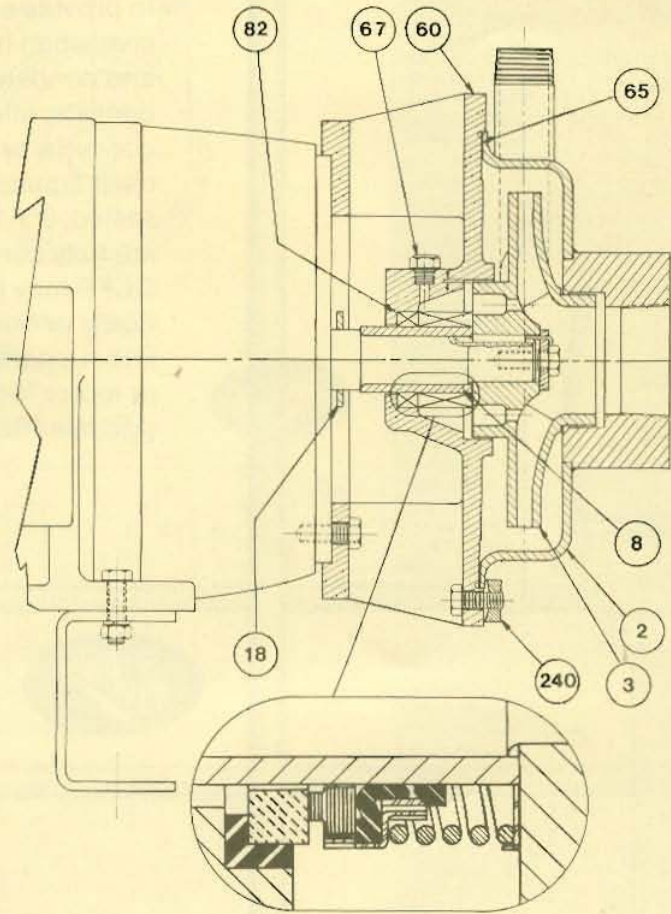
HORIZONTAL OR
VERTICAL MOUNTED

**FOOT MOUNTED • PIPELINE SUPPORTED
CLOSE-COUPLED CENTRIFUGAL PUMPS**

CONSTRUCTION DETAILS



MODEL 057



MODELS 058, 509, 609, 709

CASING

Formed #7 gauge steel - machined for accurate impeller fit.

IMPELLER

Single, end suction. Enclosed for high efficiency and low NPSH. Balance holes reduce axial thrust.

LOCKING CLIPS

Afford tightness between casing and adapter at gasket. Quick release feature at disassembly.

ADAPTER

Provides accurate alignment between casing and motor. Concave mechanical seal chamber insures continuous liquid flow across seal faces.

MECHANICAL SEAL

Single type 21 seal. Carbon rotating face, ceramic stationary seat, Buna bellows, stainless steel metal parts and spring.

MOTOR SHAFT

Stainless steel NEMA standard shaft.

VENT

Eliminates entrapped air or gas prior to start-up. Insures extended mechanical seal life in vertical mounting.

MOTOR

Model 057 uses standard NEMA frame 56, threaded stainless shaft, round body, end mounted motor. Specially designed for horizontally or vertically mounted pumps.

1/2 to 3 horsepower, 60 Hertz, 1750 rpm, 115/230 volt, single phase - 200 or 230/460 or 575 volt, three phase - NEMA service factors.

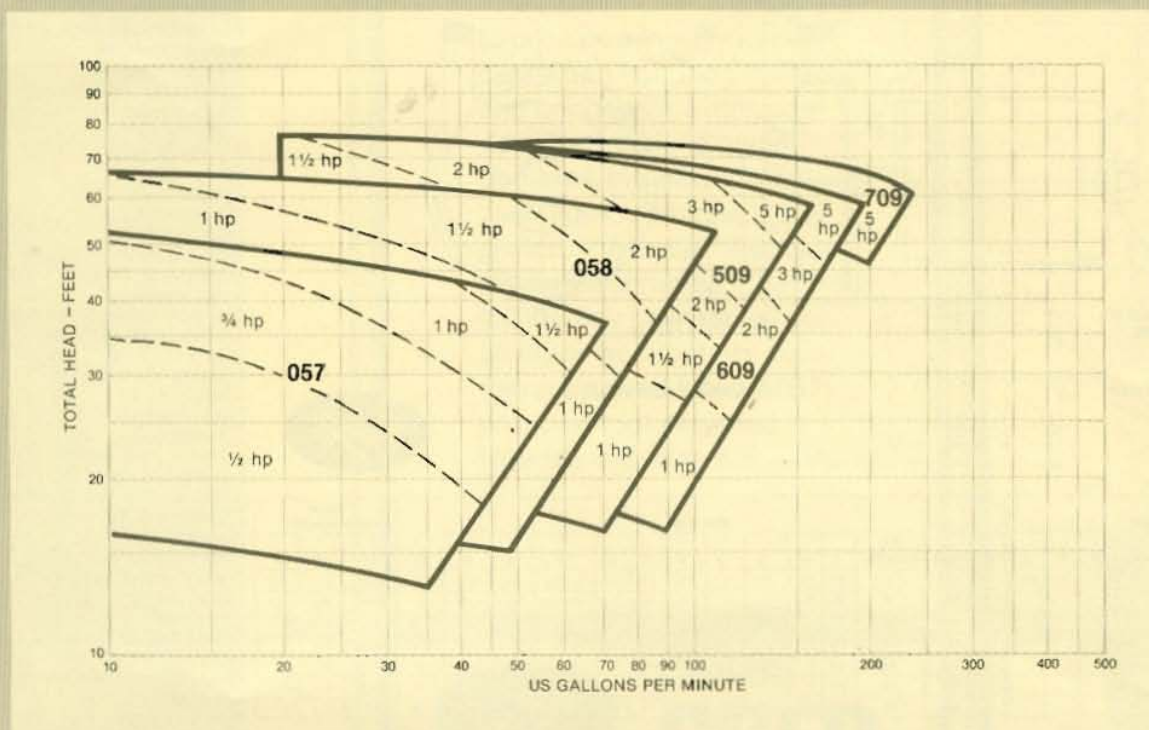
Models 058, 509, 609 and 709 are furnished with NEMA JM shaft close coupled motors. Bronze shaft sleeves protect motor shaft.

Open drip proof, totally enclosed, explosion proof enclosures available - vertically mounted drip proof motors require drip cover addition - for service outdoors, in moisture, or in acid-fume atmosphere, contact your Buffalo Sales Engineer.

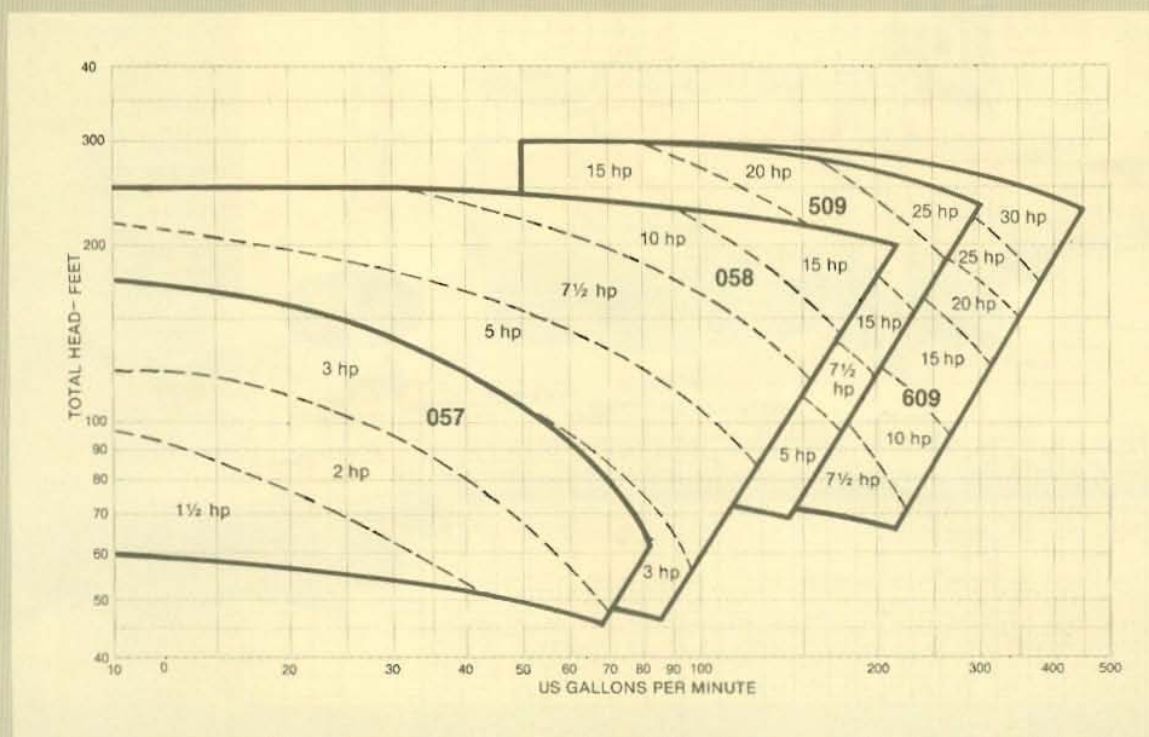
MATERIALS OF CONSTRUCTION

PART NO.	PART NAME	MATERIAL
2	Casing	Steel, ASTM A36
3	Impeller	Bronze ASTM B145 Alloy 836
8	Shaft Sleeve	Bronze
18	Deflector	Neoprene
60	Adapter	Cast Iron ASTM A48
65	Gasket	Asbestos
67	Vent	Stainless
240	Locking Clips	Steel-Quick Release
82	Mechanical Seal	Type 21 Single BP-1C1

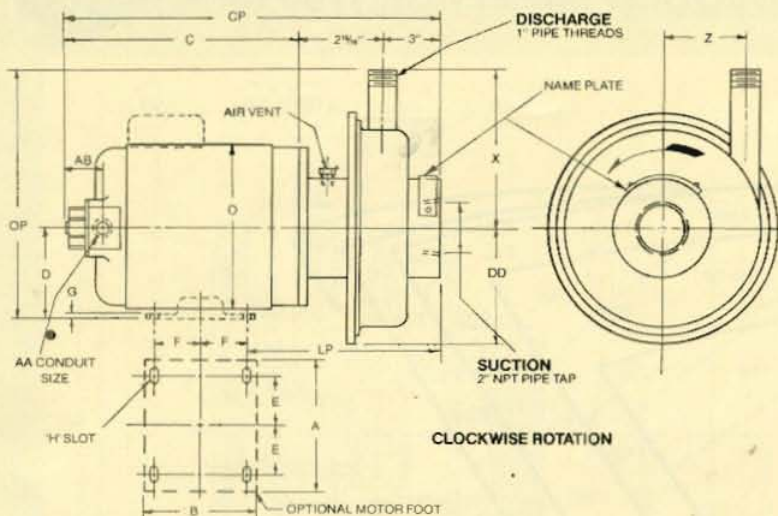
PERFORMANCE/ENCLOSED IMPELLER 1750 RPM



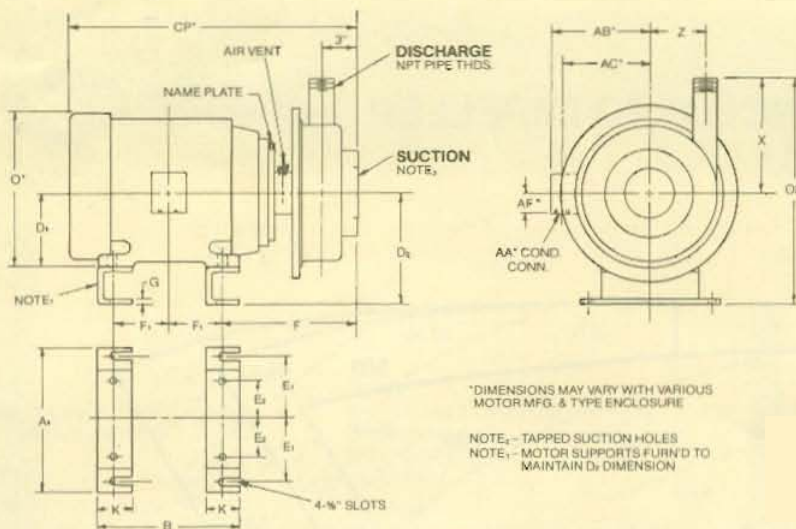
PERFORMANCE/ENCLOSED IMPELLER 3500 RPM



DIMENSIONS



Pump Data					Motor Data														Overall Dimensions 057			
✓	Pump Size	Suction & Discharge	DD	Z	X	✓	Frame	G.E. Frame Size	A	B	C	D	E	F	G	H	D	AA	AB	CP	LP	OP
	057	2 x 1	6¼	3¼	8½		56J	30	5¼	3¼	7¼	3	2¼	1¼	1¼	1¼ x 1½	5¼	1-14	1½	13¼	8½	9½
							56J	30	5¼	3¼	10¼	3	2¼	1¼	1¼	1¼ x 1½	5¼	1-14	1½	16¼	8½	9½
							56J	40	6¼	4	8¼	3¼	2¼	1½	1½	1½ x 1¾	6¼	1-14	1½	14½	8½	10
							56J	40	6¼	4	9¼	3¼	2¼	1½	1½	1½ x 1¾	6¼	1-14	1½	15½	8½	10
							56J	40	6¼	4	10¼	3¼	2¼	1½	1½	1½ x 1¾	6¼	1-14	1½	18½	8½	10
							56J	40	6¼	4	12¼	3¼	2¼	1½	1½	1½ x 1¾	6¼	1-14	1½	18½	8½	10
							56J	40	6¼	4	13¼	3¼	2¼	1½	1½	1½ x 1¾	6¼	1-14	1½	19½	8½	10



Pump Data				Motor Data																Overall Dimensions						Section Flange Dimensions					
																				058-509			609-709								
✓	Pump Size	Suction & Discharge	X	Z	✓	Frame	DP	A _s	B	D _s	E _s	E _s	F _s	G	K	O	AA	AB	AC	AF	D _s	F	CP	-D _s	F	CP	Standard Pressure				
	058	2 x 1	7 1/4	4 1/4		143JM	15 1/4	10 1/4	6	3 1/4	4 1/4	2 1/4	2 1/4	1 1/4	2	7 1/4	1 1/4	6	5	1 1/4	8 1/4	12 1/4	18	8 1/4	12 1/4	17 1/4	Size	2	3	4	
	50S	3 x 1 1/2	7 1/4	3 3/4		145JM	15 1/4	10 1/4	7	3 1/4	4 1/4	2 1/4	2 1/4	1 1/4	2	7 1/4	1 1/4	6	5	1 1/4	8 1/4	12 1/4	18	8 1/4	12 1/4	17 1/4	Outside Diameter	6	7 1/2	9	
	60S	4 x 2	7 1/4	3 1/4		182JM	15 1/4	12	7	4 1/4	5 1/4	3 1/4	2 1/4	1 1/4	2 1/4	9 1/4	1 1/4	7	6 1/4	1 1/4	8 1/4	13 1/4	20	8 1/4	13 1/4	19 1/4	No. & Size Bolts (Straddling C)	4	4	8	
	70S	4 x 2	7 1/4	3 1/4		184JM	15 1/4	12	8	4 1/4	5 1/4	3 1/4	2 1/4	1 1/4	2 1/4	9 1/4	1 1/4	7	6 1/4	1 1/4	8 1/4	13 1/4	20	8 1/4	13 1/4	19 1/4		Bolt Circle	4	6	7 1/2
						213JM	17 1/4	14	8	5 1/4	6 1/4	4 1/4	3 1/4	2 1/4	10 1/4	1 1/4	8 1/4	7 1/4	2 1/4	10	16 1/4	23 1/4	10	15 1/4	23						
						215JM	17 1/4	14	9 1/4	5 1/4	6 1/4	4 1/4	3 1/4	2 1/4	10 1/4	1 1/4	8 1/4	7 1/4	2 1/4	10	16 1/4	23 1/4	10	15 1/4	23						
						254JM	17 1/4	15 1/4	12 1/4	6 1/4	7	5	5	2 1/4	12 1/4	1 1/4	10 1/4	8	3 1/4	10	18 1/4	27 1/4	10	17 1/4	26 1/4						
						256JM	17 1/4	15 1/4	13 1/4	6 1/4	7	5	5	2 1/4	12 1/4	1 1/4	10 1/4	8	3 1/4	10	18 1/4	27 1/4	10	17 1/4	26 1/4						
						284JM	17 1/4	18	12 1/4	7	8	5 1/4	5 1/4	3	14 1/4	1 1/4	10 1/4	8 1/4	3 1/4	10	18 1/4	28 1/4	10	18 1/4	28 1/4						
						286JM	17 1/4	18	14 1/4	7	8	5 1/4	5 1/4	3	14 1/4	1 1/4	10 1/4	8 1/4	3 1/4	10	18 1/4	28 1/4	10	18 1/4	28 1/4						
						324JM	17 1/4	18 1/4	13 1/4	8	8 1/4	6 1/4	6	3 1/4	16 1/4	2	12 1/4	10 1/4	4 1/4	10	19 1/4	30 1/4	10	19 1/4	30 1/4						
						326JM	17 1/4	18 1/4	15 1/4	8	8 1/4	6 1/4	6	3 1/4	16 1/4	2	12 1/4	10 1/4	4 1/4	10	19 1/4	30 1/4	10	19 1/4	30 1/4						

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