ARO®

LUBETECH CC SERIES

ENGINEERING DATA PACK

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CC PUMP MODEL NUMBER SYSTEM

	PUMP SERIES		MATERIAL OF CONSTRUCTION	FRAME SIZE	PUMP SIZE			PORTING	SEAL ELASTOMER	ROTAION		VALVE TYPE	SPECIAL MODIFICATION
POSITION #	1	2	3	4	5	6	7	8	9	10	11	12	13

POS. 1 & 2 - PUMP SERIES

CC

POS. 3 - MATERIAL OF CONSTRUCTION

I = Iron

POS. 4 - FRAME SIZE

1 = 5/8″ (56C)
2 = 7/8″ (143/145TC)

POS. 5, 6, & 7 - PUMP SIZE

009
015
020
030

POS. 8 - PORTING

1 = NPT

POS. 9 - SEAL ELASTOMER

3 = Buna
5 = Neoprene
7 = Viton
8 = EPR
9 = Other (All Type 2)

POS. 10 & 11 ROTATION

C = Clockwise
CC = Counterclockwise

POS. 12 - VALVE TYPE

V = Relief Valve

POS. 13 - SPECIAL MODIFICATION

Assigned by ARO Pump Group engineering as required

CC PUMP MATERIALS OF CONSTRUCTION

		MATERIAL	AVAILABILITY	STANDARD	COMMENTS
PART NAME	HOUSING	Cast Iron	Standard	ASTM A48 – 96a	Classes 30, 35, or 40
	COVER	Cast Iron			
	ROTOR	Ductile Iron		ASTM A536	Ductile Iron Grade 80-55-06
	IDLER	Ductile Iron			
	IDLER PIN	Steel		C1117	Heat Treated
	IDLER BUSHING	Carbon		Carbon Graphite Resin	
	RELIEF VALVE BODY	Cast Iron		ASTM A48 – 96a	Classes 30, 35, or 40
	RELIEF VALVE BLOCK-OFF PLATE	Steel		ASTM A36	
	GASKETS	Standard		Oriented Polyester	
				Garlock	Used for Relief Valve Pumps Only
	SEAL	Viton			

CC PUMP TEMPERATURE LIMITS

		MINIMUM	MAXIMUM
MATERIAL	CARBON BUSHING	-100 °F	500 °F
	VITON	-10 °F	375 °F

NOTE: A pump's performance is dependent on more than just the temperature ranges of the component materials.

SERIES PUMP DATA

NPSH Required for ARO "CC" Series pumps 0-750 SSU

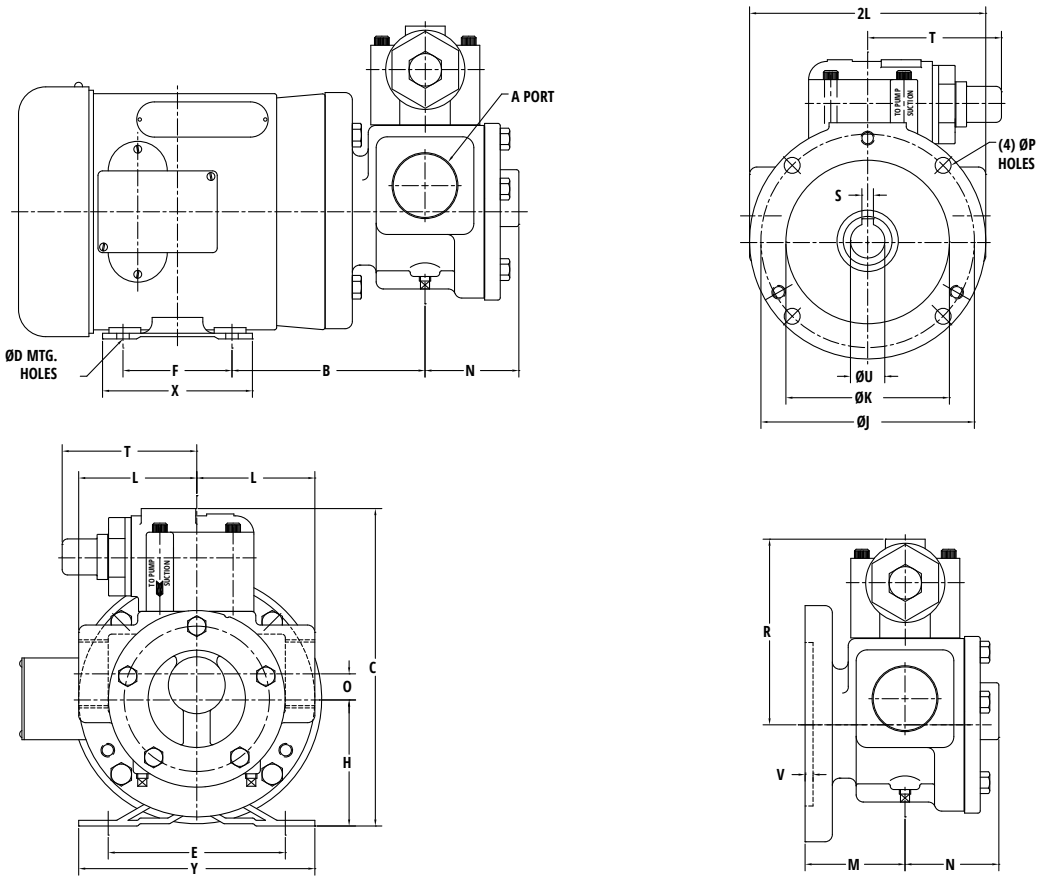
		300	600	900	1200	1500	1800
PUMP SERIES	CC009	1.4 FT	1.9 FT	3.1FT	4.5 FT	6.4 FT	9.1 FT
	CC015	1.5 FT	2.1 FT	3.3 FT	5.0 FT	7.0 FT	9.8 FT
	CC020	1.6 FT	2.3 FT	3.6 FT	5.5 FT	7.7 FT	10.4 FT
	CC030	1.7 FT	2.6 FT	4.1 FT	6.6 FT	9.1 FT	11.8 FT

NOTE For liquid viscosity up to 750 SSU NPSHA (Net Positive Suction Head Available) must be greater than the NPSHR (Net Positive Suction Head Required) value provided in the table. Values above are for feet of liquid with a Specific Gravity of (1.0).

VISCOSITY CORRECTION FACTOR

1000 SSU	1500 SSU	2000 SSU	2500 SSU
1.15 Correction Factor	1.20 Correction Factor	1.25 Correction Factor	1.3 Correction Factor

CC09 PUMP/NEMA MOTOR MOUNTING DIMENSIONS

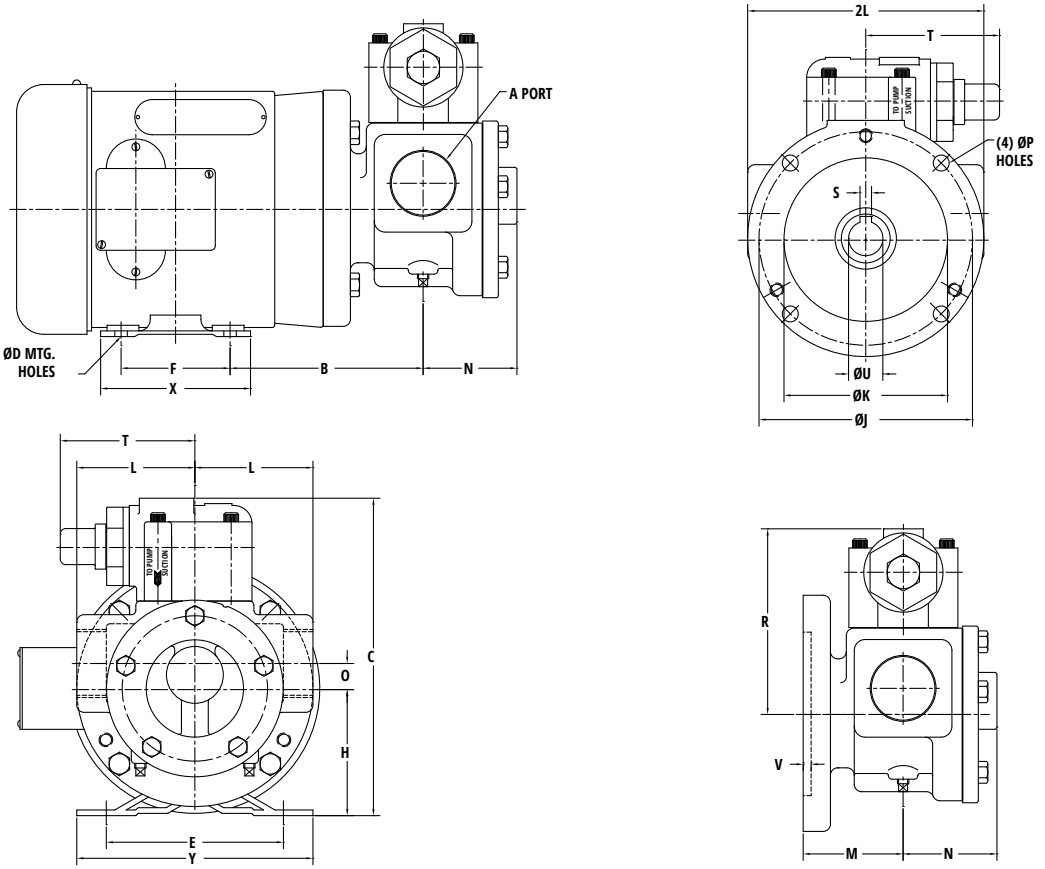


MOTOR FRAME SIZE

	A	B	C	D	E	F	H	J	K	L	M	N	O
56C		5 25/64"	8 5/16"	11/32"	4 7/8"	3"	3 1/2"	5 7/8"	4 1/2"	2 1/2"	2 53/64"	1 31/64"	17/32"
143TC	1" NPT	5 5/64"	8 5/16"	11/32"	5 1/2"	4"	3 1/2"	5 7/8"	4 1/2"	2 1/2"	2 53/64"	1 31/64"	17/32"
145TC		5 5/64"	8 5/16"	11/32"	5 1/2"	5"	3 1/2"	5 7/8"	4 1/2"	2 1/2"	2 53/64"	1 31/64"	17/32"

	P	R	S	T	U	V	X	Y
56C	15/32"	4 13/16"	3/16"	3 23/32"	5/8"	15/64"	3 3/4"	6 3/16"
143TC	15/32"	4 13/16"	3/16"	3 23/32"	7/8"	15/64"	5"	6 7/8"
145TC	15/32"	4 13/16"	3/16"	3 23/32"	7/8"	15/64"	5"	6 7/8"

CC015, 020 & 030 PUMP/NEMA MOTOR MOUNTING DIMENSIONS



MOTOR FRAME SIZE

	A	B	C	D	E	F	H	J	K	L	M	N
56C	1 1/2″ NPT	5 25/64"	8 49/64"	11/32"	4 7/8"	3"	3 1/2"	5 7/8"	4 1/2"	3 1/4"	2 47/64"	2 23/32"
143TC	1 1/2″ NPT	5"	8 49/64"	11/32"	5 1/2"	4"	3 1/2"	5 7/8"	4 1/2"	3 1/4"	2 47/64"	2 23/32"
145TC	1 1/2″ NPT	5"	8 49/64"	11/32"	5 1/2"	5"	3 1/2"	5 7/8"	4 1/2"	3 1/4"	2 47/64"	2 23/32"

	O	P	R	S	T	U	V	X	Y
56C	5/8"	15/32"	4 3/8"	3/16"	3 45/64"	5/8"	15/64"	3 3/4"	6 3/16"
143TC	5/8"	15/32"	5 17/64"	3/16"	3 45/64"	7/8"	15/64"	5"	6 7/8"
145TC	5/8"	15/32"	5 17/64"	3/16"	3 45/64"	7/8"	15/64"	6"	6 7/8"

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