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CENTRIFUGAL Pump Model, Seal and Motor Codes

Example Model Number: C D 1 0 0 S S - 4 9 4 - 0 9 3 1 5 - 2 0 0 - 3 6 - 3 T 6

CD[1] 100[2] ( )[3] SS[4] -494[5]	-09[6] 315[7] ( )[8]	-200[9] -36[10] ( )[11] -3[12] T[13] 6[14]
PUMP DESCRIPTION	**SEAL DESCRIPTION**	**MOTOR DESCRIPTION**

PUMP DESCRIPTION:

1 Model Designation: LT, HP, OH, CD, XT, JB, etc…

2 Discharge Size: 50 = 1/2", 75 = 3/4", 100 = 1"

3 Optional Configuration: **V** = Vertical **P** = Power Frame (no indicator denotes standard horizontal, close-coupled)

***Note:** When the pump has a P for a power frame, motor description (9-14) is replaced with "FM"

4 Materials of Construction:

AI = All Iron **HC** = Hastelloy 'C' **KN** = Kanigen/Non-Metallic Imp. **BF** = Cast Iron Bronze Fitted
AB = All Bronze **KP** = All Kanigen Plated **BN** = Bronze/Non-metallic Imp. **SF** = Cast Iron Stainless Fitted
SS = Stainless Steel **CN** = CPVC/Non Metallic Imp. **BS** = Bronze Stainless Fitted

5 Impeller Diameter: Example, 494 = 4.94"

***Note:** For SP models, list impeller 'diameter/vane height', e.g. '475/41'

SEAL DESCRIPTION:

6 Mechanical Seal Type:

6A = T.6A **06** = T.6 **08** = T.8 **09** = T.9
21 = T.21 **36** = T.36 **26** = T.2106 No Digit = Vertical Pump

7 Mechanical Seal Construction / *Vertical Construction (three-digit code):

1st digit - refers to '**Elastomer**' or vertical '**Fume Barrier**'
2nd digit - refers to '**Washer**' or vertical '**Bushing**'
3rd digit - refers to '**Seat**' or vertical '**Length**'

Horizontal Example: **315** = Teflon Elastomer, Carbon Washer, Ceramic/Kalrez Seat
Vertical Example: **315** = Teflon Fume Barrier, Carbon Bushing, 32" Vertical Length (See chart below)

1st Digit Elastomer / *Fume Barrier (Lip Seal)	**2nd Digit** Washer / *Bushing	**3rd Digit** Seat	or . . .	*Vertical Column Length	
0 = None	**0** = None	**0** = None	**0** = None	**7** = 5"	
1 = Buna	**1** = Carbon	**1** = Ceramic	**1** = 6.66"	**8** = None	
2 = Viton	**2** = Glass Filled Teflon	**2** = Ni Resist	**2** = 7.5"	**9** = Special	
3 = Teflon	**4** = Tungsten Carbide	**4** = Tungsten Carbide	**3** = 13"		
4 = Neoprene	**5** = Carbon, Chemical (9031)	**5** = Ceramic/Kalrez	**4** = 20"		
5 = EPR (EPDM / Nordel)	**6** = Alpha Silicon Carbide	**6** = Alpha Silicon Carbide	**5** = 32"		
6 = Kalrez	**7** = Carbon, Refrigerant (9055)	**9** = Other	**6** = 44"		
7 = Aflas	**9** = Carbon, Hot Water (9012)				
9 = Other					

8 Seal Options:

No Digit = No Option **F** = Flush ***Q** = Quench **Z** = Short Suction
T = Throat Bushing **R** = Flush with Recirculation Line **V** = Viton Bell Gasket in HP75 **Y** = Special
N = Nitrogen Purge **L** = Internal Flush **S** = Quench w/ Recirculation Line
D = Double Seal (Inboard / Outboard Dissimilar) **G** = Double Seal (Inboard / Outboard Identical)

* Fume Barrier (Lip Seal) Material to Match Mechanical Seal Material; Unless Specified Otherwise

Y = Special Configuration (Contact Factory)

Vertical Shaft Options: **C** = Chrome Shaft **T** = Tungsten Shaft

MOTOR DESCRIPTION:

9 Motor Horsepower: **12** = 1/8 HP **33** = 1/3 HP **200** = 2 HP **1000** = 10 HP, etc…

10 Motor RPM: **15** = 1500 RPM **18** = 1800 RPM **30** = 3000 RPM **36** = 3600 RPM

11 Optional Stub Shaft Size: **No Digit** = No Option **C** = 5/8" **D** = 3/4" **E** = 7/8" **F** = 1" **G** = 1-3/4"

12 Motor Phase: **1** = Single Phase **3** = Three Phase

13 Motor Enclosure: **D** = Drip Proof **T** = Totally Enclosed **X** = Explosion Proof **Y** = Special **I** = IP55
C = Chemical Duty **W** = Wash Down **M** = Marine Duty **N** = Totally Enclosed Non-Ventilated

14 Motor Frequency: **5** = 50 Hz **6** = 60 Hz **7** = 50/60 Hz

Note: Motor Description digits 9-14 above may be replaced by "FM" for Frame Mount or "PEO" for Pump End Only.

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Mag-Drive Pump Model, Bushing and Motor Codes

Example Model Number: C D 1 0 0 M D S S - 4 9 4 - 2 1 1 1 0 - 2 0 0 - 3 6 - 3 T 6

CD[1] 100[2] MD[3] SS[4] -494[5]	**-21110[6]**	**-200[7] –36[8] ( )[9] -3[10] T[11] 6[12]**
PUMP DESCRIPTION	**BUSHING, WASHER, & SHAFT DESCRIPTION**	**MOTOR DESCRIPTION**

PUMP DESCRIPTION:

1 **Model Designation:** CD, 2MS, etc.
2 **Discharge Size:** 75 = 3/4", 100 = 1", 150 = 1 1/2"
3 **Optional Configuration:** MD = Mag Drive, MDP = Mag Drive mounted on Power Frame
***Note:** When the pump has a P for a power frame, the motor description (7-12) is replaced with: "FM"
4 **Materials of Construction:**

AI = All Iron	**HC** = Hastelloy 'C'	**KN** = Kanigen/Non-Metallic Imp. **BF** = Cast Iron Bronze Fitted
AB = All Bronze	**KP** = All Kanigen Plated	**BN** = Bronze/Non-metallic Imp. **SF** = Cast Iron Stainless Fitted
SS = Stainless Steel	**CN** = CPVC/Non Metallic Imp.	**BS** = Bronze Stainless Fitted

5 **Impeller Diameter:** Example, 494 = 4.94"

BUSHING / WASHER / SHAFT / OPTIONS DESCRIPTION:

6 Pump Construction: The **first digit** of the five digit code refers to 'O-ring material'. The **second digit** refers to 'Thrust Bushing material'. The **third digit** refers to 'Thrust Washer material'. The **forth digit** refers to 'Shaft material'. The **fifth digit** refers to 'Other Options'. Example: **21110** = Viton Elastomer O-ring, Carbon Bushings, Ceramic Washers, 316 Stainless Steel Shaft, and No other options. See chart below:

1st Digit O-ring	**2nd Digit** Thrust Bushing	**3rd Digit** Thrust Washer	**4th Digit** Shaft	**5th Digit** Options
				0 = No Options
1 = Buna	1 = Carbon	1 = Ceramic	1 = 316 Stainless Steel	1 =
2 = Viton	2 =	2 =	2 = Tungsten Carbide Coated	2 =
3 = Teflon	3 =	3 =	3 =	3 =
4 = Neoprene	4 =	4 =	4 =	4 =
5 = EPR	5 =	5 =	5 =	5 =
6 = Kalrez	6 = Silicon Carbide	6 = Silicon Carbide	6 =	6 =
7 = Flouro-Silicon	7 =	7 =	7 =	7 =
8 = Teflon Vit Encap.	8 =	8 =	8 =	8 =
9 = Teflon/Sil Encap.	9 =	9 =	9 =	9 = Special

MOTOR DESCRIPTION:

7 **Motor Horsepower:** 12 = 1/8 HP, 33 = 1/3 HP, 200 = 2 HP, 1000 = 10 HP, etc
8 **Motor RPM:** 15 = 1500 RPM, 18 = 1800 RPM, 30 = 3000 RPM, 36 = 3600 RPM
9 **Optional Stub Shaft Size:** E = 7/8", No Digit = No Option
10 **Motor Phase:** 1 = Single Phase, 3 = Three Phase
11 **Motor Enclosure:** D = Drip Proof, T = Totally Enclosed, X = Explosion Proof, Y = special
C = Chemical Duty, W = Wash Down, M = Marine Duty, N = Totally Enclosed Non-Ventilated
12 **Motor Frequency:** 5 = 50 Hz, 6 = 60 Hz, 7 = 50/60 or 60/50 Hz

Note: 7-12 May be replaced by "FM" or "PEO" FM = Frame mounted Pump PEO = Pump End Only

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