

CENTRIFUGAL Pump Model, Seal and Motor Codes

Example Model Number: CD 100 SS - 494 - 09315 - 200 - 36 - 3 T 6

CD¹ 100² ()³ SS⁴ -494⁵	-09⁶ 315⁷ ()⁸	-200⁹ -36¹⁰ ()¹¹ -3¹² T¹³ 6¹⁴
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 = EPDM (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.

Mag-Drive Pump Model, Bushing and Motor Codes

Example Model Number: CD 100 MD SS -494-21110-200-36-3 T 6

CD¹ 100² MD³ SS⁴ -494⁵	-21110⁶	-200⁷ -36⁸ ()⁹ -3¹⁰ T¹¹ 6¹²
PUMP DESCRIPTION	BUSHING, WASHER, & SHAFT DESCRIPTION	MOTOR DESCRIPTION

PUMP DESCRIPTION:

- Model Designation:** CD, 2MS, etc.
- Discharge Size:** 75 = 3/4", 100 = 1", 150 = 1 1/2"
- 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"
- 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
- 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 **fourth 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	4 th Digit Shaft	5th Digit Options
1 = Buna	1 = Carbon	1 = Ceramic	1 = 316 Stainless Steel	0 = No Options
2 = Viton	2 =	2 =	2 = Tungsten Carbide Coated	1 =
3 = Teflon	3 =	3 =	3 =	2 =
4 = Neoprene	4 =	4 =	4 =	3 =
5 = EPR	5 =	5 =	5 =	4 =
6 = Kalrez	6 = Silicon Carbide	6 = Silicon Carbide	6 =	5 =
7 = Flouro-Silicon	7 =	7 =	7 =	6 =
8 = Teflon Vit Encap.	8 =	8 =	8 =	7 =
9 = Teflon/Sil Encap.	9 =	9 =	9 =	8 =
				9 = Special

MOTOR DESCRIPTION:

- Motor Horsepower:** 12 = 1/8 HP 33 = 1/3 HP 200 = 2 HP 1000 = 10 HP, etc
- Motor RPM:** 15 = 1500 RPM 18 = 1800 RPM 30 = 3000 RPM 36 = 3600 RPM
- Optional Stub Shaft Size:** E = 7/8" No Digit = No Option
- Motor Phase:** 1 = Single Phase 3 = Three Phase
- 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
- 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