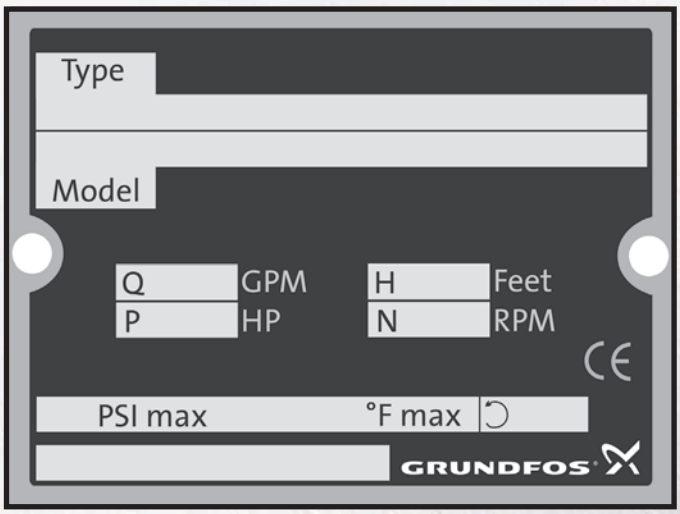


CR

Reading the Pump Nameplate



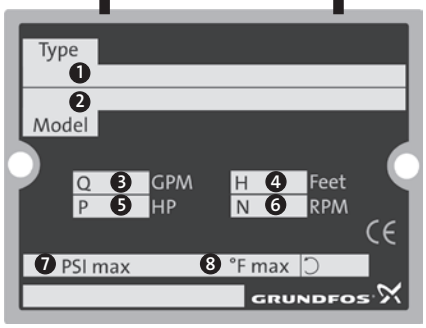
LENNTECH

Browse Grundfos CR / CRE / CRI / CRN pumps

Lenntech edition | Technical reference: Grundfos CR service manual

GRUNDFOS

Reading The Pump Nameplate



1. Type designation
2. Model, material number, production code
3. Gallons per minute at rate RPM
4. Head in feet at nameplate flow
5. Pump horsepower
6. Rated RPM
7. Maximum PSI
8. Maximum fluid temperature

Code for Type of Pump or Physical Changes

Type of Pump
- A = IEC pump
- E = Ejector pump
- F = *Cool Top*™ high temperature model
- H = Horizontal pump with electric motor and end-suction base
- HS = High speed/pressure reverse chamber stack/ direction of rotation
- K = Low NPSH pump
- M = Magnetic Drive Coupling
- R = Horizontal construction with bearing bracket
- S = Pump without staybolts
- SF = High pressure pump without staybolts reverse stack rotation
- U = NEMA pump

Physical Changes
- B = Oversized motor
- C = Changed point of connection
- D = Intensifier tank for double seal
- I = Changed pressure class
- J = CRE pump (pumps with high max speed rotation)
- N = CRE pump with transducer
- P = Undersized motor (1 flange size smaller)
- T = Oversized motor (2 flange sizes larger)
- X = Special product

Code for Pipe Connection
- A = Oval flange
- B = NPT thread
- C = Clamp connection
- CA = FlexiClamp
- F = DIN flange
- FGJ = DIN, ANSI and JIS flanges combined into one base
- G = ANSI flange
- J = JIS flange
- M = Changed flange connection
- N = Changed connection diameter
- O = External thread
- P = Victaulic coupling (PJE)
- W = Internal thread

Code for Materials
- A = Standard materials
- D = Graflon® bearing
- G = Stainless steel parts in 316 SS or similar material
- GI = Baseplate and flanges are 316LN SS
- I = Nonstainless parts converted to SS
- J = Shaft or sleeve made of 316 SS
- K = Intermediate bearings are bronze
- R = Shaft or sleeve made of 904L SS
- S = Silicon Carbide intermediate bearing/Teflon® seal
- T = Titanium
- X = Special product
- Z = Pumps of bronze, components of cast bronze

Material of Secondary Seal and other Parts made of Plastic/Rubber
- E = EPDM
- K = FFXM (Kalrez)
- M = PTFE wound around FKM
- P = NBR (Nitrile)
- S = Q (Silicone rubber)
- T = PTFE (Teflon®)
- V = FKM
- X = Special product

Code for Rubber Parts in Pump *(Excludes CR[N,X] 2, 4, 8, 16)*
- E = EPDM
- F = FXM (Flouraz)
- K = FFXM (Kalrez)
- P = NBR (Nitrile)
- T = PTFE wound around FKM
- V = FKM

Material of Stationary Ring
- A = Carbon, metal impregnated
- B = Carbon, plastic impregnated
- C = Other types of carbon
- H = Carbon with imbedded Tungsten Carbide (Hybrid)
- Q = Silicon carbide
- S = Chromium steel
- U = Tungsten carbide
- V = Aluminum oxide
- X = Other types of ceramics

No. of reduced diameter impellers (CR(N) 32, 45, 64, & 90 only)

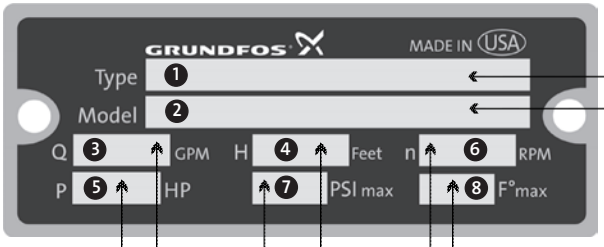
No. of impellers (used only if pump has fewer impellers than chambers)

No. of stages CR(I,N) 1S, 1, 3, 5, 10, 15 & 20
No. of stages x 10 CR(N,X) 2, 4, 8, &16
No. of stages CR(N) 32, 45, 64, & 90

Nominal flow rate in m^3/hr (multiply by 5 to get GPM)

"I" or "X" Cast Iron components replaced by 316 SS, stack and sleeve of 304 SS
"N" if all parts in contact with water are 316 SS
"T" if all parts in contact with water are Titanium
"E" if a Grundfos MGE or MLE VFD motor is attached

Centrifugal pump



CR 8-20/1 -1 U - G - A - E - BUBE

A 12345678 P1 03 20 U.S. 879

Designated model (e.g. A, B, C, D)

Product Number

Pump horsepower

Gallons per minute at rated RPM

Maximum PSI

Head (in feet) at nameplate flow

RPM

Maximum fluid temperature

Production Company

Last two digits of year of production

Production week number (01 to 51)

U.S. serial number

Type of Shaft Seal
- A = O-ring seal with fixed seal driver
- B = Rubber bellows seal
- C = O-ring seal with a spring working as a driver
- D = Balanced seal
- E = Cartridge with O-ring (Type A)
- F = Cartridge with rubber bellows
- G = Bellows seal with reduced diameter stationary ring
- H = Balanced seal, cartridge (Type D)
- K = Metal bellows seal (Type M) Cartridge
- O = Double shaft seal (back to back)
- P = Double shaft seal (Tandem)
- Q = Quench seal (with flushing)
- R = O-ring seal with reduced diameter stationary ring
- S = Shaft seal
- X = Miscellaneous

Material of Rotating Ring
- A = Carbon, metal impregnated
- B = Carbon, plastic impregnated
- C = Other types of carbon
- Q = Silicon carbide
- S = Chromium steel
- U = Tungsten carbide
- V = Aluminum oxide
- X = Other types of ceramics

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