

CV 3171

Vertical Sump and Process Pumps



CV 3171

Goulds Model CV3171

Vertical recessed impeller sump pumps.

- Capacities to 1,300 GPM (295 m³/h)
- Heads to 280 feet (85 m)
- Temperatures to 450° F (232° C)
- Pit Depths to 20 feet (6 m)

Design Features

- Self-Priming
- Rugged Double Row Thrust Bearing
- Heavy Duty One-Piece Shaft
- External Impeller Adjustment
- Available in a Wide Range of Alloys
- Recessed Impeller Design
- Sealless Design
- Optional Vapor Proof Construction

Services

- Fibrous Wastewater
- Industrial Process
- Industrial Sump Wastes
- Tank Unloading
- Corrosive and Non-Corrosive Liquids
- Food Processing
- Chemical Slurries



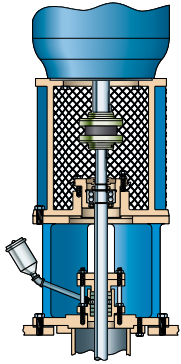
The CV 3171 is a recessed impeller, circular volute type sump pump. Ideal for large solids and shear sensitive fluids. It will pass any solid that will pass through the discharge pipe. Circular volute minimizes radial loads, making this the ideal pump for low flow process applications.

CV 3171 Vertical Sump and Process Pumps

Heavy Duty Design Features for a Wide Range of Services.

LABYRINTH BEARING SEAL

Prevents premature bearing failure due to lubricant contamination



C-FACE MOTOR MOUNTING

Accommodates readily available C-face motors. Also available for P-base and IEC motors.

CONTINUOUS HIGH PERFORMANCE

Original high efficiency maintained by simple external adjustment resulting in long-term energy savings

DOUBLE ROW THRUST BEARING

Grease lubricated – carries pump thrust load, sealed for outdoor installation

DISCHARGE LOCKED TO PUMP SUPPORT PLATE FOR STRENGTH

ANY MOUNTING REQUIREMENTS

Met by support plate and optional pit cover. Float switches, alternators and other control devices can be easily mounted

STEADY BEARING HOUSING

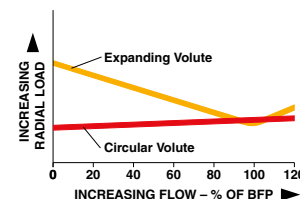
Precision machined register fit of column, bearing housing and casing assures positive bearing and shaft alignment. Completely interchangeable with all lineshaft bearing options

HEAVY DUTY ONE-PIECE SHAFT

With closely spaced steady bearings assures long life and low maintenance

NON-CLOG CIRCULAR CASING

Large open passageways prevent clogging when handling bulky, fibrous, or stringy liquids. Circular Volute reduces radial loads during low flow operation, extending steady bearing life.



OPTIONAL UPPER STUFFING BOX

HEAVY COLUMN PIPE

Provides rigid support for pump and bearings

LINESHAFT STEADY BEARING

Grease lubricating sealed bearings furnished as standard – best for handling fluids with solids

RESTRICTOR BUSHING

Close running bushing to prevent pressure loss from casing



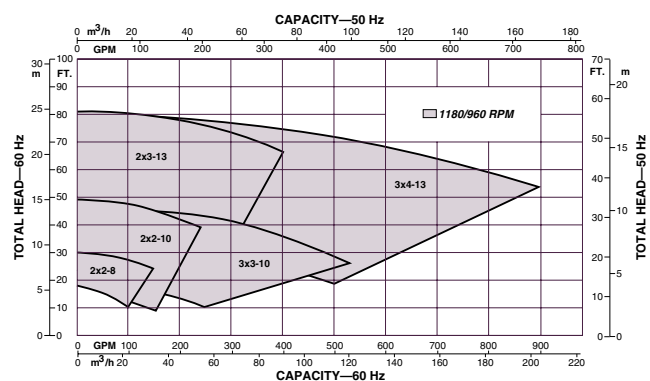
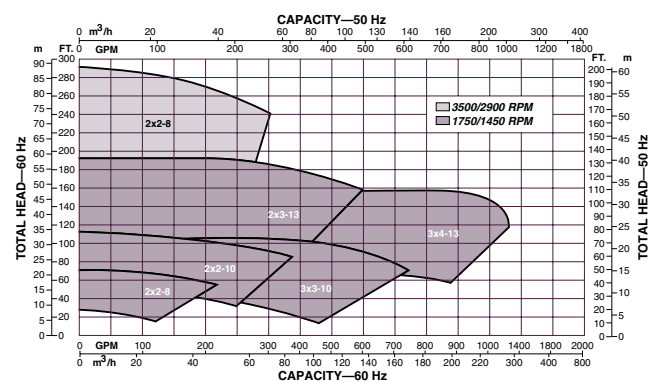
RECESSED IMPELLER

Since impeller is recessed in the casing, velocities are low and solids contact with the casing are reduced. Wear rate, solids degradation, and shearing of liquids are minimized

OPTIONAL STRAINER

Recommended for services where solids larger than the discharge of the pump can potentially enter the casing.

Hydraulic Coverage



3171 family of pumps



3171



CV 3171



LF 3171



API 3171



NM 3171

Pump Type	Goulds Model	Capacity M³/Hr (GPM)	TDH Meters (Feet)	Temperature °C (°F)	Pit Depth Meters (Feet)
VS4	3171	722 (3180)	95 (344)	232 (450)	6 (20)
	API 3171	722 (3180)	160 (525)	232 (450)	6 (20)
	CV 3171	295 (1300)	126 (230)	232 (450)	6 (20)
	LF 3171	50 (220)	290 (950)	232 (450)	6 (20)
	NM 3171	284 (1250)	92 (300)	93 (200)	5 (16)



An ITT Brand

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