Bulletin C 1.4.44

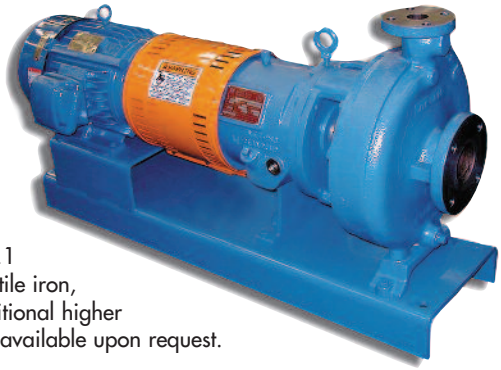
MET-PRO
Global Pump Solutions
A CECO Environmental Company

Dean Pump®
Solutions for the Global Pump Industry

CECO ENVIRONMENTAL

INDUSTRIAL PROCESS PUMPS

pH Series Horizontal ANSI Design Chemical Process Pumps



- Capacities to 3,200 GPM (726 m³/hr)
- Heads to 800 feet (245 m)
- Pumping Temperatures to 500°F (260°C)
- Working Pressures to 375 PSIG (2,585 kPa)
- Twenty-two Sizes (18 ANSI Sizes)

pH Series Pumps are built to ANSI/ASME B73.1 dimensions. Twenty-two sizes are available in ductile iron, 316SS, CD4MCu and Alloy 20 construction. Additional higher metal alloys (Hastelloy-B or -C, titanium, etc.) are available upon request.

DeanLine Series Chemical Process Industrial Inline Pumps

- Capacities to 95 GPM (22 m³/hr)
- Heads to 130 feet (39 m)
- Pumping Temperatures to 220°F (104°C)
- Working Pressures to 100 PSIG (689 kPa)
- Two Sizes

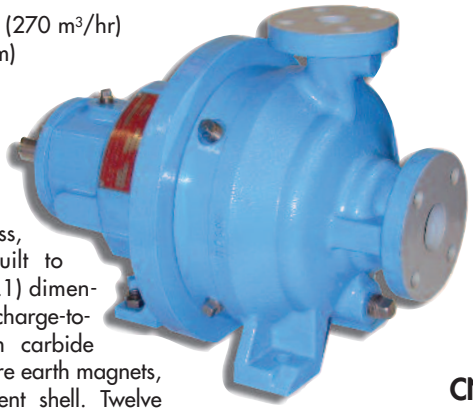
DeanLine Series Pumps are excellent for process plant pump applications for capacities and heads less than ANSI AA and AB sizes. Standard features include an open impeller with integral seal and an electric driven motor. An optional air driven motor is also available. Two pump sizes are available in cast iron and 316SS construction.

pHP Series Self-Priming Chemical Process Pumps

- Capacities to 700 GPM (160 m³/hr)
- Heads to 400 feet (120 m)
- Pumping Temperatures to 500°F (260°C)
- Working Pressures to 275 PSIG (1,896 kPa)
- Five Sizes

pHP Series Pumps feature excellent priming times, maximum interchangeability with the pH Series (ANSI) chemical process pumps, and suction lifts up to 20 feet (6.1 m). Five sizes are available in ductile iron or 316SS construction.

M300 Series Magnetic Drive ANSI Design Chemical Process Pumps



- Capacities to 1200 GPM (270 m³/hr)
- Heads to 475 feet (145 m)
- Pumping Temperatures to 350°F (177° C)
- Working Pressures to 275 PSIG (1,896 kPa)
- Twelve Sizes

M300 Series Pumps are sealless, chemical process pumps built to ANSI/ASME B73.3 (also B73.1) dimensions. Features include discharge-to-discharge circulation, silicon carbide bearings, Samarium cobalt rare earth magnets, and a Hastelloy-C containment shell. Twelve sizes are available in ductile iron or 316SS construction. Other materials of construction are available upon request.

CNV Series Inline Process Pumps

- Capacities to 700 GPM (160 m³/hr)
- Heads to 550 feet (167 m)
- Pumping Temperatures to 220°F (104°C)
- Working Pressures to 275 PSIG (1,896 kPa)
- Six Sizes

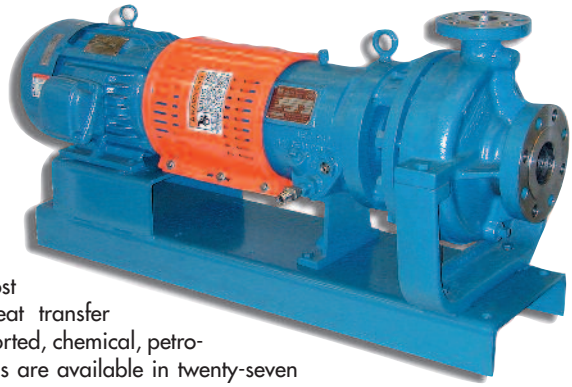
CNV Series Pumps are vertical inline, close-coupled, chemical process pumps. Standard features include an open drip-proof, JMV frame close-coupled motor (extended shaft) for fast availability, a space saving design, and a fully open impeller. Available in ductile iron and 316SS construction.

pHV Series Vertical Sump Pumps

- Capacities to 1,600 GPM (360 m³/hr)
- Heads to 200 feet (60 m)
- Pumping Temperatures to 220° F (104° C)
- Working Pressures to 275 PSIG (1,896 kPa)
- Eleven Sizes

pHV Series Pumps are available for vented or vapor containing sumps and can also be configured for externally mounted (dry pit) service. Features include the ability to handle sump depths up to 15 feet (4.6 m). Eleven sizes are available in ductile iron and 316SS construction.

R4000 Series Heavy Duty, High Temperature Process Pumps



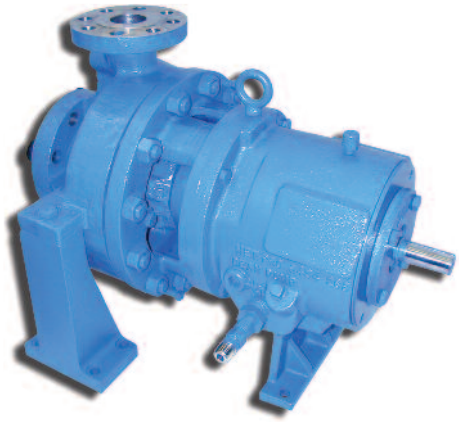
- Capacities to 6,500 GPM (1,476 m³/hr)
- Heads to 800 feet (244 m)
- Pumping Temperatures to 850°F (455°C)
- Working Pressures to 500 PSIG (3,447 kPa)
- Twenty-seven Sizes

R4000 Series Pumps are the single most applied pump for high temperature heat transfer service. These heavy duty, centerline supported, chemical, petro-chemical, and refinery styleprocess pumps are available in twenty-seven sizes in steel and 316SS construction.

DL Series High Temperature Chemical Process Inline Pumps

- Capacities to 800 GPM (182 m³/hr)
- Heads to 550 feet (167 m)
- Pumping Temperatures to 550°F (288°C)
- Working Pressures to 275 PSIG (1,896 kPa)
- Seven Sizes

DL Series Pumps are excellent for high temperature chemical process applications. Features include a space saving design and a fully open impeller. Seven sizes are available in ductile iron and 316SS construction.



R5000 Series Heavy Duty API-Type Pumps

- Capacities to 6,500 GPM (1,476 m³/hr)
- Heads to 800 feet (244 m)
- Pumping Temperatures to 850°F (455°C)
- Working Pressures to 500 PSIG (3,447 kPa)
- Twenty-seven Sizes

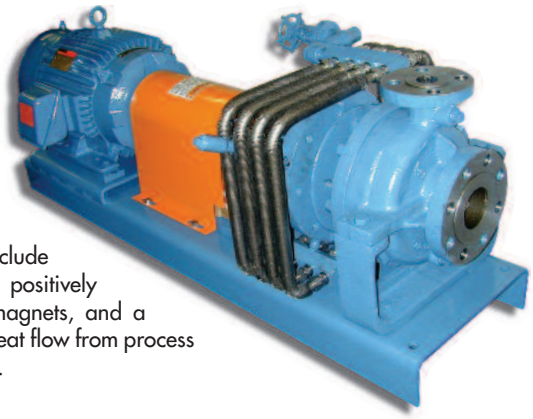
R5000 Series Pumps are chemical, petrochemical, and refinery style process pumps built to API 610, Fifth Edition, specifications. Features include heavy duty centerline support, plus a large taper bore seal cavity or jacketed cylindrical stuffing box. Twenty-seven sizes are available in steel and 316SS construction.

RM5000 Series Magnetic Drive Heavy Duty Process Pumps

- Capacities to 1,200 GPM (270 m³/hr)
- Heads to 600 feet (180 m)
- Pumping Temperatures to 400° F (205° C)
- Working Pressures to 325 PSIG (2,241 kPa)
- Seventeen Sizes

RM5000 Series Pumps are sealless, heavy duty, chemical, petrochemical, and refinery style magnetic drive process pumps. Features include centerline mounted casing, enclosed impeller, discharge-to-discharge recirculation, silicon carbide bearings, Samarium cobalt rare earth magnets, and a Hastelloy-C containment shell. Seventeen sizes are available in steel and 316SS construction.

RMA5000 Series Magnetic Drive Air Cooled High Temperature Process Pumps



- Capacities to 1,200 GPM (270 m³/hr)
- Heads to 600 feet (180 m)
- Pumping Temperatures to 750°F (400°C)
- Working Pressures to 300 PSIG (2,068 kPa)
- Seventeen Sizes

RMA5000 Series Pumps are sealless, air-cooled (or water-cooled), heavy duty process pumps. Features include centerline supported casing, silicon carbide bearings positively held against rotation, Samarium cobalt rare earth magnets, and a Hastelloy-C containment shell. Air fin cooling reduces heat flow from process fluid to magnets. Seventeen sizes are available in steel.

RA Series Air Cooled High Temperature Thermal Liquid Pumps

- Capacities to 1,100 GPM (250 m³/hr)
- Heads to 425 feet (130 m)
- Pumping Temperatures to 650°F (343° C)
- Working Pressures to 350 PSIG (2,413 kPa)
- Thirteen Sizes

RA Series Pumps are cost effective, hot oil, heat transfer pumps. Pumps feature a shaft mounted fan to provide air flow over the cooling fins of the pump. This air-cooled design translates to **NO EXTERNAL WATER COOLING REQUIRED** for the bearings and mechanical seal. Thirteen sizes are available in ductile iron construction.

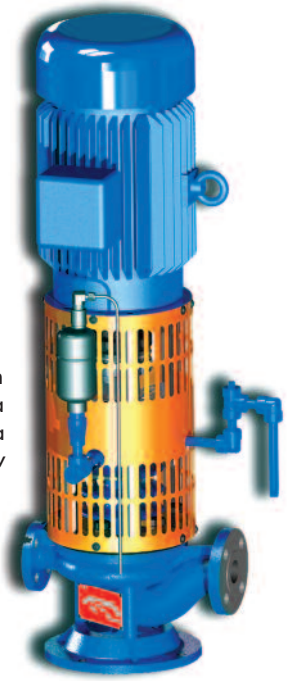
RWA Series Air Cooled Hot Water Pumps

- Capacities to 1,100 GPM (250 m³/hr)
- Heads to 425 feet (130 m)
- Pumping Temperatures to 400°F (205°C)
- Working Pressures to 450 PSIG (3,100 kPa)
- Thirteen Sizes

RWA Series Pumps are designed specifically for use with hot water, ethylene glycol and propylene glycol in boiler feed, steam condensate, HVAC and heat transfer applications. Pumps feature a shaft mounted fan to provide air flow over the cooling fins of the pump. This air-cooled design translates to **NO EXTERNAL WATER COOLING REQUIRED** for the bearings and mechanical seal. Thirteen sizes are available in ductile iron construction.

RAV Series Vertical Inline Air Cooled High Temperature Thermal Liquid Pumps

- Capacities to 275 GPM (63 m³/hr)
- Heads to 300 feet (92 m)
- Pumping Temperatures to 650°F (343°C)
- Working Pressures to 250 PSIG (1,724 kPa)
- Three Sizes



The RAV Series offers the same design benefits as the RA Series but in a vertical configuration. Pumps feature a shaft mounted fan to provide air flow over the cooling fins of the pump. This air-cooled design translates to **NO EXTERNAL WATER COOLING REQUIRED** for the bearings and mechanical seal. Three sizes are available in ductile iron construction.

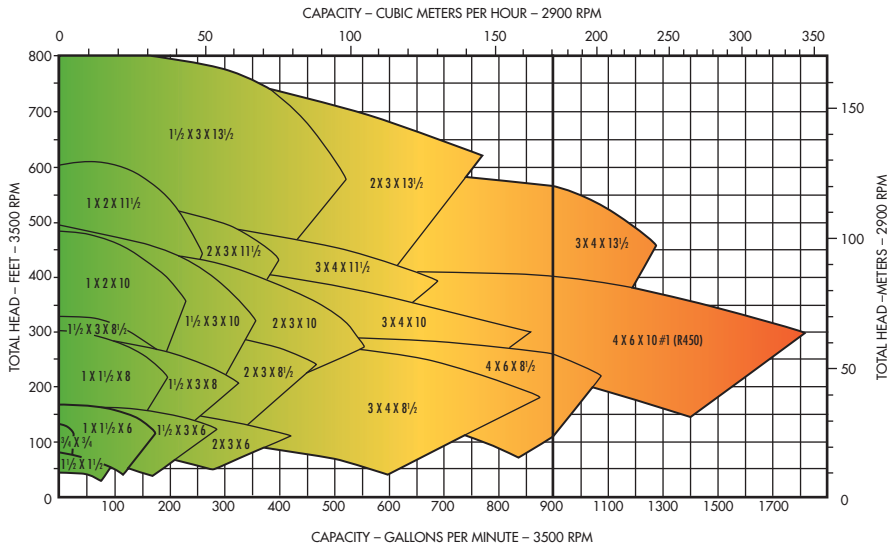
RWAV Series Vertical Inline Air Cooled Hot Water Pumps

- Capacities to 275 GPM (63 m³/hr)
- Heads to 300 feet (92 m)
- Pumping Temperatures to 400°F (205°C)
- Working Pressures to 450 PSIG (3,100 kPa)
- Three Sizes

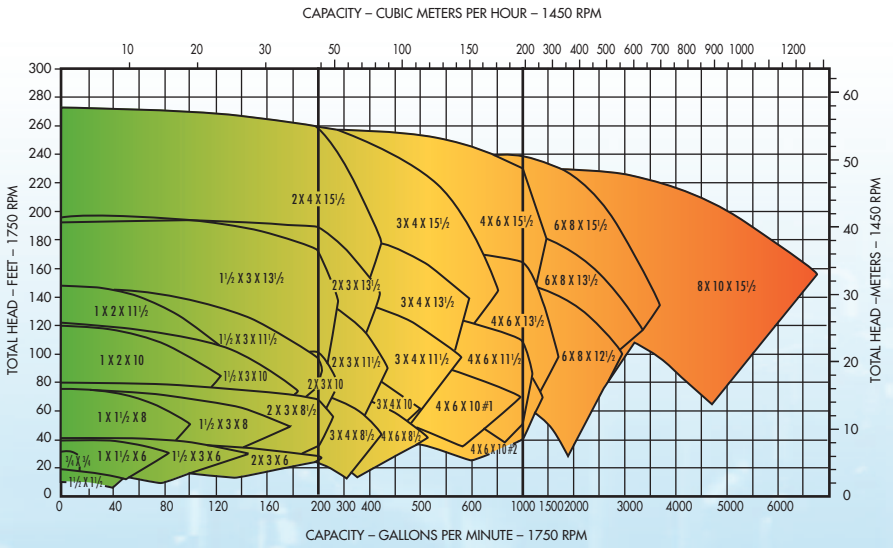
The RWAV Series offers the same design benefits as the RWA Series but in a vertical configuration. Pumps feature a shaft mounted fan to provide air flow over the cooling fins of the pump. This air-cooled design translates to **NO EXTERNAL WATER COOLING REQUIRED** for the bearings and mechanical seal. Three sizes are available in ductile iron construction.

TYPICAL PUMP COVERAGE

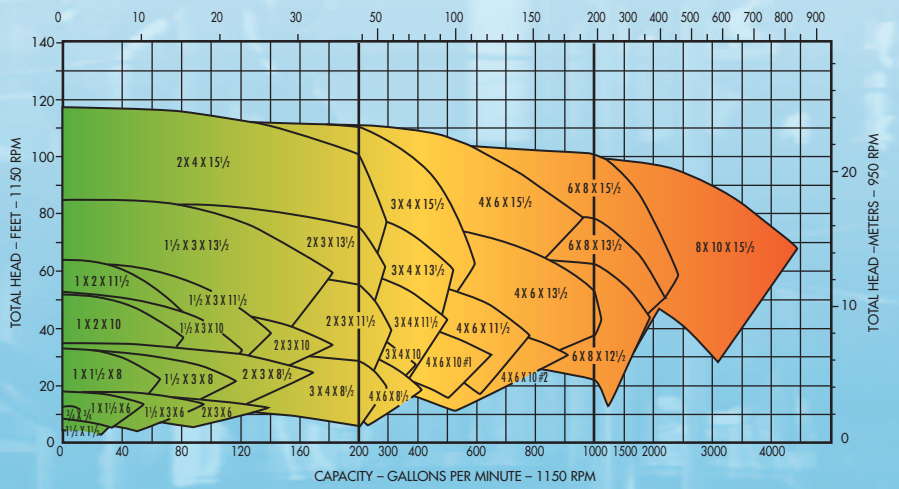
TWO POLE MOTOR

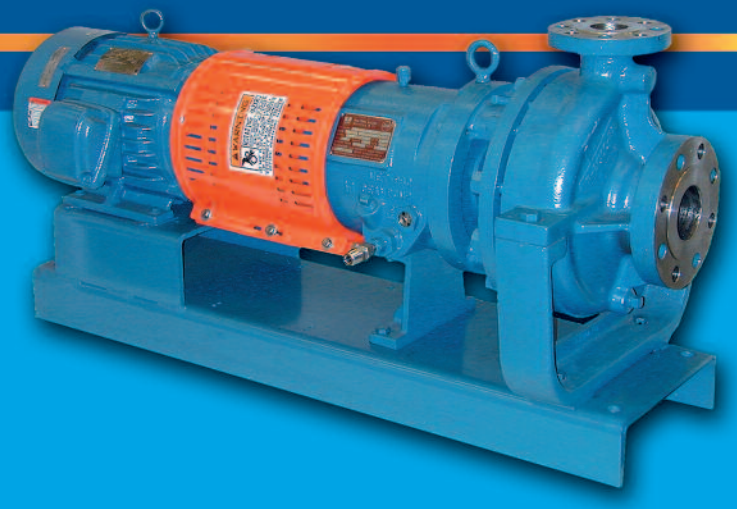


FOUR POLE MOTOR



SIX POLE MOTOR





ABOUT MET-PRO GLOBAL PUMP SOLUTIONS

Met-Pro Global Pump Solutions, which combines the resources of the Company's internationally recognized Dean Pump®, Fybroc® and Sethco® brands, is a leading niche-oriented global provider of solutions and products for the pumping of corrosive, abrasive and high temperature liquids. Its broad range of high quality centrifugal pumps provide excellent performance for tough applications including pumping of acids, brines, caustics, bleaches, seawater, high temperature liquids and a wide variety of waste liquids for a broad range of applications including the chemical, petrochemical, metal finishing, wastewater treatment, desalination and aquarium/aquaculture markets. For more information, visit **www.mp-gps.com**

ABOUT CECO

CECO Environmental is a leading global environmental technology company focused on critical solutions in the air pollution control, energy and fluid handling and filtration industries. Through its well-known brands, CECO provides a wide spectrum of products and services that play a vital role in helping companies achieve exacting production standards, and meet increasing plant needs and stringent emissions control regulations. For more information, visit the company's website at **www.cecoenviro.com.**

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