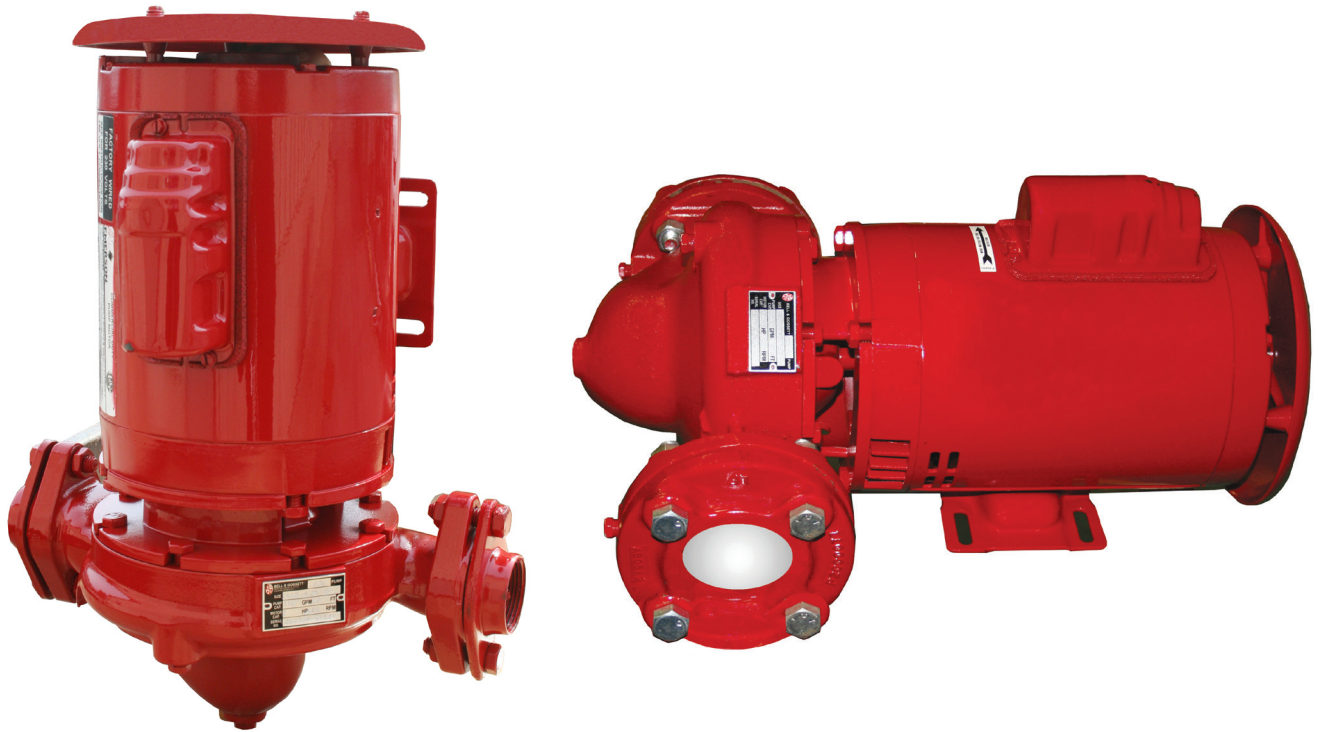




Series e-90

Close Coupled In-Line Centrifugal Pumps

e-90 Series

Close Coupled Centrifugal Pumps



The e-90 pump is a versatile in-line pump that offers wide hydraulic coverage well suited for the small commercial HVAC market. This pump is designed for heating and cooling applications with a temperature range of -10° to 250°F (-23 to 121°C) with a maximum pressure limit of 175 psi. The e-90 has eight models with connection sizes from 1"x 1" through 3"x 3". The hydraulic coverage is from 20GPM to 250GPM with a motor offering from ¼ through 5HP.

- Close-coupled, horizontal or vertical installation
- Space saving back-pull-out design, low maintenance, long life, quick shipment
- Wide range of applications; hydronic heating and cooling, pressure boosting, refrigeration and heat exchanger circulation

Features and Benefits:

Ease of Selections

The e-90 is available in 116 standard pre-configured designs or built-to-order in bronze fitted or all bronze construction to meet a wide range of pump needs. This pump is also available as a header pump, (less-volute) that will mount directly onto boilers for recirculation.

Ease of Installation

The in-line mounted, close coupled pump is compact and versatile. The pump is designed to be mounted in the piping and can be installed either horizontally or vertically.

High Hydraulic Efficiency

The e-90 pump offers proven hydraulic performance which provides an efficiency improvement of 2%-18% at BEP.

Robust Design

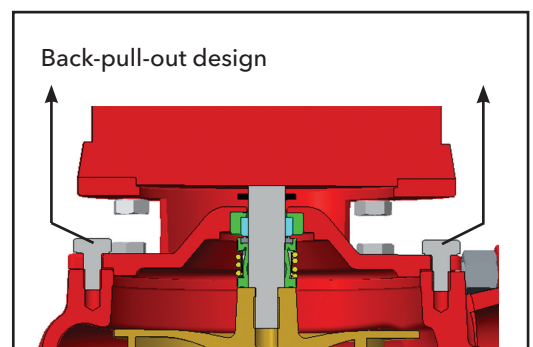
The e-90 pump is designed on the close-coupled platform eliminating a bearing frame and coupler. The pump is designed around a standard NEMA 56J motor eliminating the need for a stub-shaft or shaft sleeve. This pump incorporates an EPR/Carbon/Silicon-Carbide mechanical seal for long service life. The motor has a 303 stainless steel shaft for corrosion resistance, double sealed ball bearings for greater water resistance, longer bearing life, and Class F insulation component parts for higher thermal capacity.

Ease of Maintenance

Back-pull-out design allows the pump to be serviced without disturbing the piping. Motors include sealed for life bearings. This pump design requires no coupler or stub-shaft to install. The one-piece unitized mechanical seal simplifies seal removal and replacement.

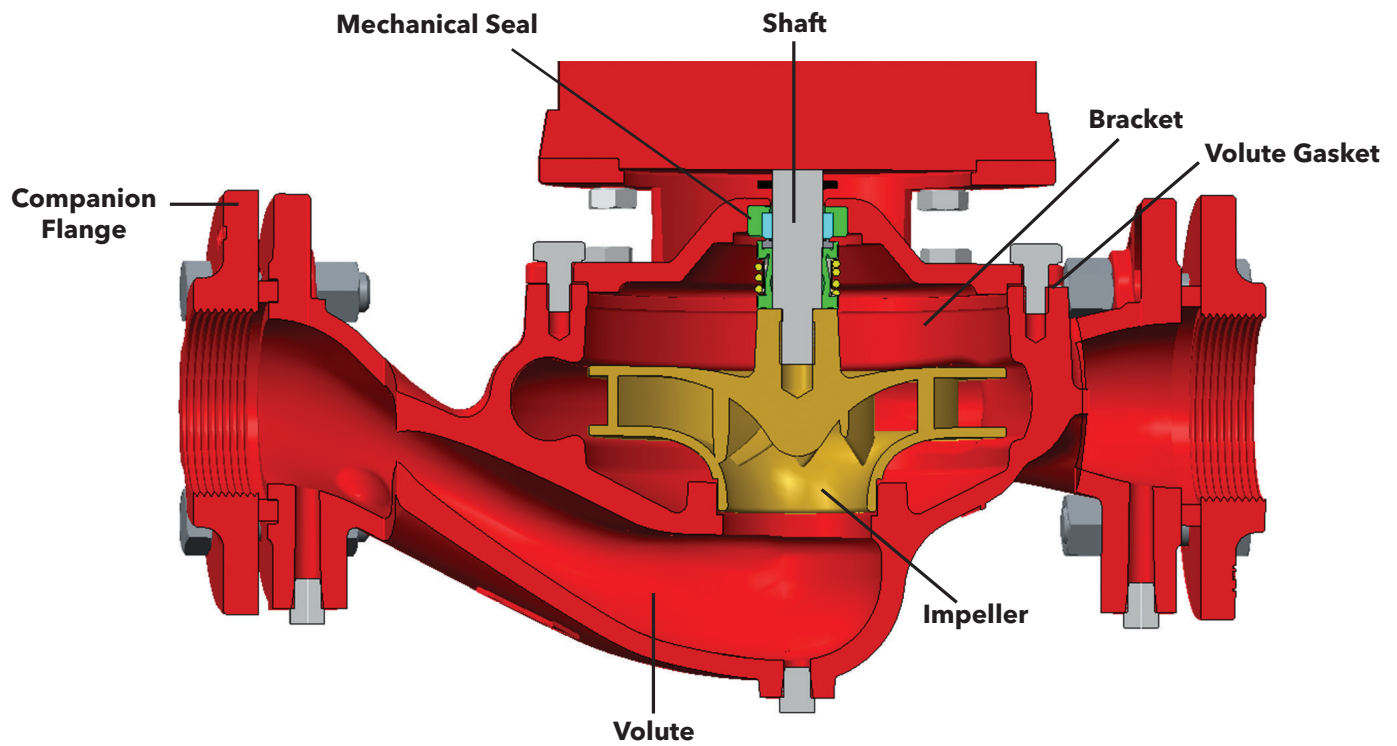
Motors

The e-90 motors are based on the NEMA standard 56J. The standard is ODP with drip cover. Single phase voltage is 115/208-230/1/60 and three phase voltage is 208-230/460/3/60; TEFC is optional.

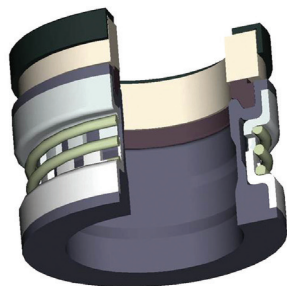


Construction Material For Parts In Contact With Fluid

Pump Series e-90	Volute	Impeller	Volute Gasket	Shaft	Bracket	Companion Flange
Bronze Fitted Pump	Cast Iron ASTM #A159	ASTM #B584	Cellu-Fiber	Stainless Steel	Cast Iron ASTM #A159	1", 1 1/4", 1 1/2" - Steel SAE1006 2", 3" - Cast Iron ASTM #A159
All Bronze Pump	Cast Bronze ASTM #B584	ASTM #B584	Cellu-Fiber	Stainless Steel	CF8 Stainless ASTM #A351	1", 1 1/4", 1 1/2" - Bronze ASTM #36 2", 3" - Cast Bronze ASTM #B584



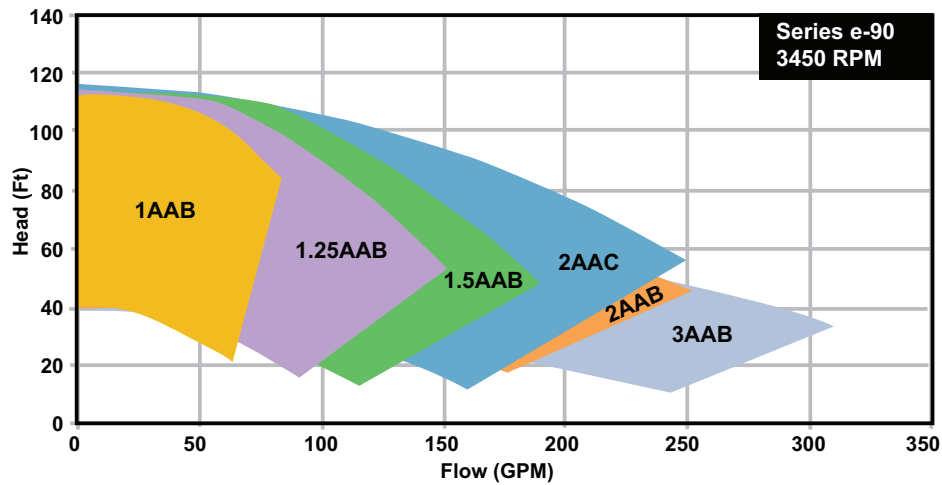
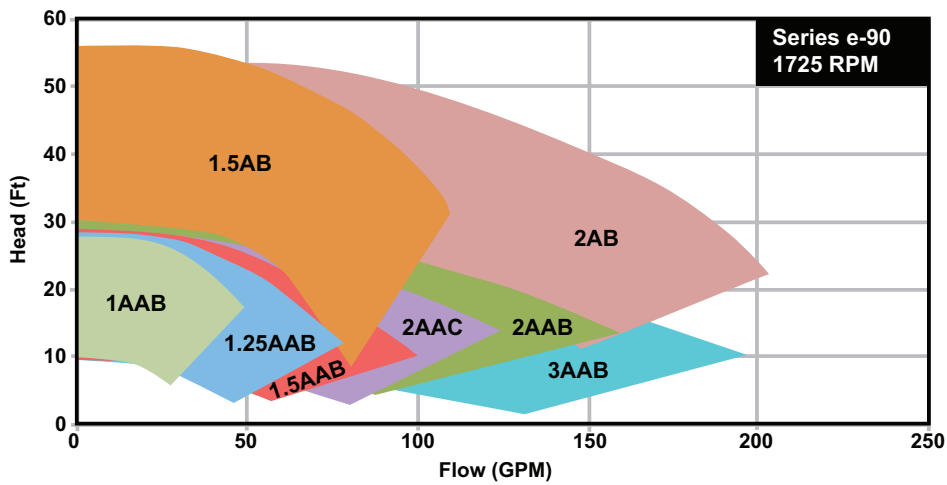
Pump Series e-90	Mechanical Seal					
	Seal Housing	Seal Elastomer	Seal Ring	Spring	Seat Insert	Maximum Temperature
Standard	Stainless Steel	EPR	Carbon	Stainless Steel	Silicon-Carbide	250°F
Optional	Stainless Steel	FKM	Carbon	Stainless Steel	Silicon-Carbide	225°F
Optional	Stainless Steel	EPR	Graphite Silicon-Carbide	Stainless Steel	Graphite Silicon-Carbide	250°F



Mechanical Seal

The e-90 pump uses a modern unitized mechanical seal with a stainless steel drive mechanism that puts less torsional stress on the seal bellows, allowing for longer mechanical seal life.

Performance Curves



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- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're 12,700 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

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