



## PROGRESSING CAVITY PUMPS



**Model EP PC800 Series**

# EAGLE PROGRESSING CAVITY PUMPS - PROVEN DESIGN, PROVEN PERFORMANCE.

**HIGH SPEED  
MEDIUM DUTY  
LOW COST**

## Features

### Non-Pulsing Flow

The EP delivers uniform, non-pulsing flow from the suction port to the discharge port, regardless of the liquid or slurry being pumped. Performance remains constant. Only the horsepower requirement changes with variations in solids content, abrasives or viscosity. This makes the EP not only a highly reliable pump, but a versatile pump that can be used as an accurate control for any process.

### Self Lubricating/Low Maintenance

The liquid being pumped by the EP also acts as the lubricant between the pumping elements, regardless of solids content or abrasives. When sharp particles become embedded in the rubber stator, they are usually flushed free by the following pumpage.



Eagle's PC800 EP Series Pump can handle virtually any medium duty application - efficiently, affordably and reliably. The PC800 EP is ideal for petroleum recycling, product transfer, waste water, circulating, metering and sewage. You name it, Eagle can pump it.

### Suction Lift

The EP provides constant performance under fluctuating suction lift as high as 25 feet (when pumping water). This is because pumping capacity is directly related to the speed at which the screw rotor is revolving, not to changes in suction head. That means a change from 12 feet suction lift to a 12 foot suction head will have no effect on the EP's pumping capacity.

### Compact Design

Compact, light-weight design gives the EP the ability to be installed in even the tightest situations. Combined with its versatility and superior construction, this makes it ideal for virtually any application.



The key to the EP's performance is its simplicity. The only moving part is a helical screw rotor that turns inside a rubber stator, creating a tightly sealed cavity that progresses from the suction port to the discharge port. This proven design utilizes positive displacement to deliver uniform, continuous flow of almost any liquid. The end result is lower maintenance requirements, economical operating costs and solid reliability.

**Pressures to 150 PSI**  
**Capacities to 50 USGPM**



Performance Data							
Model Number	Discharge Pressure	Capacity - Gallons per Minute (Water at 70°F)					Motor Horse Power
		Pump Speed					
		1750 RPM	1150 RPM	870 RPM	580 RPM	430 RPM	
EP15	0	1.9	1.3	1.0	.7	.5	1/2
	25	1.7	1.0	.5	.2	.1	
	50	1.5	.9	.2			
	75	1.2	.8				
	100	1.0	.7				
	125	.8	.5				
EP22	0	4.9	3.2	2.4	1.6	1.2	1/2
	25	4.1	2.7	2.0	1.3	.9	
	50	3.4	2.2	1.6	1.0	.7	
	75	2.6	1.7	1.3	.8	.6	
	100	2.0	1.5	1.0	.6	.4	
EP33	0	9.4	6.0	4.6	3.1	2.3	1/2
	25	7.0	4.5	3.4	2.3	1.7	
	50	4.2	2.7	2.0	1.3	.9	
EP44	0	15.0	9.7	7.3	4.9	3.6	1/2
	25	12.0	7.8	5.9	4.0	3.0	
	40	10.2	6.5	5.0	3.3	2.6	
EP56	0	24.0	15.6	11.7	7.9	5.8	1
	25	22.0	14.3	10.7	7.2	5.3	
	35	20.5	13.3	10.0	6.7	4.9	
	50	19.5	12.7	9.5	6.4	4.1	
EP67	0	53.0	34.5	26.0	17.5	13.0	1
	10	48.0	31.0	23.4	15.8	11.7	
	20	43.0	28.0	21.0	14.0	10.3	
	35	34.0	22.0	16.5	11.0	8.1	
	50	25.0	16.3	12.3	8.3	6.1	

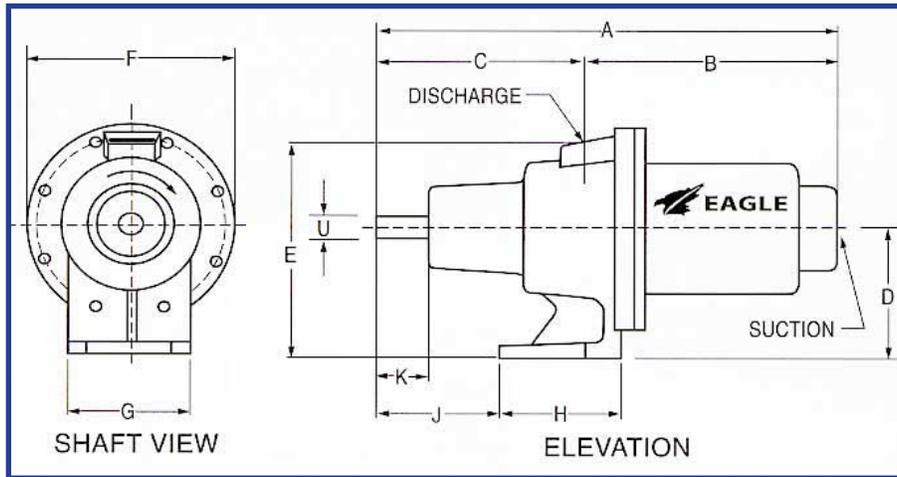
Materials				
1st Letter = Body	"C" or "S"	Eg: EP22-CSQM		
2nd Letter = Rotor	"S" or "D"	Size 22 Pump with Cast Iron Body,		
3rd Letter = Stator	"Q" or "F"	Chromed Stainless Steel Rotor, Buna		
4th Letter = Seal	"M"	"N" Stator, and Mechanical Seal		
Stator Material Data				
Elastomer	Abrasion Resistance	Temperature Range	Solvent Resistance	Oil Resistance
Q - Buna "N"	Excellent	0°F Low 200°F High	Good	Good
F - Viton®	Good	-10°F Low 300°F High	Excellent	Excellent

Material Designation	
Body	C = Cast Iron S = 316 Stainless
Rotor	S = Chromed Stainless D = Chromed Steel Alloy
Stator	Q = Buna "N" F = Viton®
Seal	M = Mechanical

Dimensions: See Back Cover

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Note: For Application Assistance, Consult Your Local Dealer



Note: Dimensions may vary by up to 1/8" (Except Dim. "U")

Dimensions														
Pump Model	Suction	Discharge	A	B	C	D	E	F	G	H	J	K	U	Shipping Weight
EP15, 22, 33, 44	3/4"	3/4"	12 - 7/16"	6 - 13/16"	5 - 5/8"	3 - 1/2"	5 - 3/4"	5 - 1/2"	3 - 1/4"	3 - 1/16"	3 - 3/8"	1 - 7/16"	5/8**	15 LBS.
EP56	1 - 1/2"	1 - 1/4"	16 - 11/16"	9 - 3/4"	6 - 15/16"	4 - 1/2"	7 - 9/32"	7 - 1/2"	6"	4 - 3/4"	3 - 9/16"	2 - 1/4"	3/4**	40 LBS.
EP67	2"	2"	19 - 9/16"	11 - 9/16"	7 - 7/8"	4 - 3/4"	8 - 1/2"	8 - 1/4"	6 - 1/4"	4 - 15/16"	4 - 9/16"	2 - 1/8"	1**	65 LBS.

\* - No Keyway Flat Keyseat

**Also Available From Eagle**  
**PC800 Series Models EL & EM**  
**The Workhorses of our Progressing Cavity Pump Line**

Free Flowing Liquids. Abrasive Slurries. High Solids Content. If it can move through a pipe, Eagle can pump it. The EL and EM progressing cavity pumps feature heavy duty construction that incorporates heavy cast iron and stainless steel casings along with heavy duty ball bearings and roller bearings.

**FEATURES**  
 Non-Pulsing Metered Flow - Uniform, non-pulsing delivery makes the pump an accurate control for any process.

Models  
EL / EM

Approx. GPM Range  
0.9 - 380

Approx. Max Pressure  
225 PSI - 450 PSI

Please ask for brochure #EL9602



**Head Office**  
 7025 - 5 Street SE  
 Calgary, Alberta, Canada T2H 2G2  
 Ph: (403) 253-0100  
 Fax: (403) 253-8884  
 Web: [www.eagle-pc.com](http://www.eagle-pc.com)