

**AVAILABLE MOUNTING CONFIGURATIONS**

12SPM FRAME MOUNT WITH CHROME IRON LINER  
12SPR FRAME MOUNT WITH RUBBER LINER

OPERATING LEVELS	CHROME IRON		RUBBER	
MIN FLOW	1300 GPM	295 m <sup>3</sup> /h	1800 GPM	409 m <sup>3</sup> /h
MAX FLOW	18000 GPM	4088 m <sup>3</sup> /h	14400 GPM	3270 m <sup>3</sup> /h
DISCHARGE SIZE	12"	300 mm	12"	300 mm
SUCTION SIZE	14"	350 mm	14"	350 mm
SOLIDS HANDLING	3.5"	89 mm	4.1"	104 mm
MAX SPEED	700 RPM	700 RPM	500 RPM	500 RPM
SHUT-OFF HEAD	290'	88 m	152'	46 m
BEP HEAD	240'	73 m	127'	39 m
BEP FLOW	12900 GPM	2930 m <sup>3</sup> /h	10400 GPM	2362 m <sup>3</sup> /h
BEP	77%	77%	79%	79%



A typical picture of the pump is shown. Please contact Gemstone Pump Company for further details. All information is approximate and for general guidance only.

PARTS	STANDARD MATERIAL (CHROME IRON)	RUBBER LINED
IMPELLER	Chrome Iron	Natural Rubber
VOLUTE LINERS	Chrome Iron	Natural Rubber
VOLUTE CASING	Ductile Iron	Ductile Iron
SHAFT	4140 Steel	4140 Steel
SHAFT SLEEVE	420 Stainless Steel	420 Stainless Steel
MECHANICAL SEAL	Tungsten Carbide/Silicon Carbide (stationary)	Tungsten Carbide/Silicon Carbide (stationary)
BEARING HOUSING	Ductile Iron	Ductile Iron
BEARING FRAME	Cast Iron	Cast Iron
O-RINGS	Nitrile	Nitrile
FLANGE GASKETS	Natural Rubber	Natural Rubber
EXPELLER	Chrome Iron	Chrome Iron
BACKPLATE	Chrome Iron	Chrome Iron

The 12SP Slurry Pump is designed with Gemstone's renowned quality and durability. It features a 12" discharge and a 14" suction. Available in chrome iron and rubber-lined models. Gemstone's patented Cycloseal® design is standard and includes a Type 2 single mechanical seal with elastomer bellows, stainless steel hardware, tungsten carbide rotating and silicon carbide stationary seal faces for abrasion resistance. Chrome Iron or Rubber Lining options are available to optimize wear life for various material characteristics.

- Enclosed impeller for higher efficiency • Large solids handling capability • Robust design allows it to be applied in difficult operating environments
- Industry leading two year warranty • Superior abrasive and corrosive wear life • Handles pH levels of 1 to 13 (rubber lining); 3 to 14 (metal)





# DATA SHEET 12SP

