

CERTA CHEMICAL BLENDING & TRANSFER PUMP



FEATURES & BENEFITS

- Gentle product handling preserves high quality of product.
- Impressive suction capability: -0.85 bar (vacuum) / -12.3 psi (atm).
- Near zero pulsation.
- Outstanding energy efficient pumping principle.
- Bi-directional running.
- Only one shaft and one seal system.
- Different port orientations available.

AGI Industries is your single source for your chemical blending and transfer pumping needs providing high quality engineered products and services used in fracking fluids and chemcial transfer applications.

ADVANTAGES

- > High suction capability to handle viscous fluids.
- > Low shear and near zero pulsation.
- > Uses up to 50% less power than other pump types.
- > Easy to clean and decontaminate.
- > Gentle pumping with virtually no pulsation Ultra low shear pumping of chemicals and liquid additives with no loss to product integrity.
- > Superior viscous handling Powerful suction up to 12.33 Psi.. Products with viscosities from 1cP to 8 million cP can be transferred with ease.
- > Simplicity Minimal downtime, One shaft, One seal and No timing gears enable easy in-place pump maintenance.
- > Interchangeable Parts Fully interchangeable components between pumps of the same size, reducing spare parts inventory.

DESIGN

The Certa Pump was developed to meet a broad range of applications. A single sinusoidal rotor creates 4 evenly sized chambers. As each chamber rotates it gently conveys the fluid from the inlet port to the outlet port. At the same time, the opposite chamber opens to draw in more fluid, resulting in a smooth flow with virtually no pulsation. A gate stops fluid flow from the higher pressure outlet to the low pressure inlet.



"Solutions First" Equipment & Service Provider

Service Simplicity & Versatility

- > Service-in-place. Reduce downtime. Minimal wear parts with easy access (simply remove front casing cover).
- > Minimal tools required.
- > Modular seal system options:
 - > Single mechanical seal.
 - > Single mechanical seal with flush.
 - > Double mechanical seal.
 - > Triple mechanical seal (available upon request).



Virtually Pulsation Free

- > Smooth product flow with no need for ancillary dampeners, ensuring product quality and consistency.
- > Improves flow meter accuracy and heat exchanger efficiency.

Low Shear Handling of Sensitive Fluids

- > Improves batch consistency and final product quality.
- > No emulsification of process fluids.
- > Consistent delivery of product.
- > Low shear action prevents aeration and foaming during product transfer.

A space between wet end (pumphead) and power end (bearing housing) of the pump, ensures fluid drains away in the event of a seal failure.



Low Cost of Ownership

- > Extremely simple maintenance performed in-place.
- > Patented design allows bi-directional running to pump duty fluid back to source.

Energy Efficient

- > Requires up to 50% less power than lobe or circumferential piston pumps.
- > Greatly reduced electricity use means reduced carbon footprint.
- > Higher efficiency at high viscosity increases energy savings in your most difficult applications.

Connection Ports

> Certa pumps are available with all standard ports to match your application including NPT and flanged. Customized options are available upon request.

masosin





> Pumps can be configured with ports in a range of orientations to meet installation requirements, including a self-draining orientation.

Accessories

- > A static and dynamic flush system is available to flush the area behind the seal system, at low pressure, to prevent product from hardening and damaging the seal system. This is even possible with a single mechanical seal.
- > A jacketing system is available to allow pumps to be heated to the optimal temperature for your process.
- > Priming devices for dry priming are also available.



Materials of Construction

Staiplace Staal 2161
Stall liess Steel SIGE
Stainless Steel 304
A494/CY5SnBiM
Plyamide
FKM or EPDM
SSIC
PTFE
F F F

Other material data available upon request.



Pump Size

Model	Nozzles			Foot					Length		Height		Coupling		
	N1	N2	N3	F1	F2	F3	F4	F5	L1	L2	H1	H2	C1	C2	C3
C100	5.47	3.35	0.39	4.72	5.31	0.47	5.63	2.24	10.43	1.97	3.74	5.08	1.10	0.31	1.22
C200	6.10	3.92	0.39	4.72	5.31	0.47	6.59	3.21	11.75	1.97	4.31	5.71	1.10	0.31	1.22
C250	7.54	5.45	0.45	7.48	6.89	0.67	8.62	3.31	13.86	1.97	5.91	7.08	1.10	0.31	1.22
C300	9.35	6.00	0.69	9.84	8.46	0.79	11.22	6.06	17.93	3.15	6.69	8.66	1.97	0.55	2.11
C400	12.74	6.65	1.22	10.49	10.00	0.83	11.85	6.65	20.22	3.03	7.87	11.52	1.97	0.55	2.11
C500	12.85	8.86	.98	12.6/9.06	11.61	1.02	12.72	5.10	22.20	3.03	9.84	11.87	1.97	0.55	2.11
C600	13.50	8.94	1.10	12.6/9.06	11.61	1.02	14.27	6.65	25.14	4.33	10.04	12.40	2.56	0.71	2.72
C800	21.06	14.45	1.50	18.9	19.69	1.26	14.65	2.83	31.77	5.71	15.94	19.57	4.33	<mark>1.1</mark> 0	4.57

All measurements are in inches.

Technical Data

Model	Max Particle Size	Vol. Per Revolution	Per lution Speed		Max Pressure	Max Temp.	Shaft Dia.	Shaft Height
	inch	US Gal.	rpm	US gal/min	psi	F	inch	inch
Certa 100	0.51	0.021	1000	21.1	145	212	0.98	3.74
Certa 200	0.71	0.034	1000	34.2	145	212	0.98	4.31
Certa 250	0.87	0.063	800	50.5	217	212	0.98	5.91
Certa 300	1.18	0.132	600	78.9	217	212	1.97	6.69
Certa 400	1.50	0.305	600	183.2	217	212	1.97	7.87
Certa 500	1.97	0.505	600	303.2	217	212	1.97	9.84
Certa 600	2.36	0.724	600	434.2	217	212	2.56	10.04
Certa 800	3.94	2.811	400	1124.3	217	212	4.33	15.94





Rev. 08/20 AGI Industries Incorporated An Employee Owned Company www.agiindustries.com