

RELY ON EXCELLENCE

SPU

Seal Supply Systems | Pumps



Advantages

- SPU4040, SPU5000: sealless pump, hermetically sealed and maintenance-free
- SPU2040, SPU2063 and SPU5000 ATEX conform

Recommended applications

- Petrochemical industry
- Chemical industry
- Oil and gas industry
- Refining technology
- Food and beverage industry
- Pharmaceutical industry

Features

The SPU circulating pump (shown: SPU5000) is used for circulating buffer/barrier fluid in seal supply systems (to increase the cooling capacity). The SPU is suitable for water and other liquids of similarly low viscosity. The SPU is available in 5 basic versions:

SPU1010: without explosion protection

SPU2040: with mechanical seal, with magnetic coupling as an option, ATEX conform

SPU2063: with mechanical seal, with magnetic coupling as an option, ATEX conform

SPU4040: with magnetic coupling, ATEX conform

SPU5000: sealless pump, ATEX conform

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Installation, details, options

Product variants

Designation	SPU1010/ M001-00	SPU2040/ A006-00	SPU2040/ A097-D0	SPU2063/ A001-00	SPU4040/ A002-D0	SPU5000- D0
Type of seal	Sealless	Mechanical seal	Magnetic coupling	Mechanical seal	Magnetic coupling	Magnetic coupling
Max. allowable viscosity (mm ² /s)*	10	100	100	100	100	15
Max. working pressure	10 bar (145 PSI)	40 bar (580 PSI)	40 bar (580 PSI)	63 bar (914 PSI)	40 bar (580 PSI)	40 bar (580 PSI)
Max. working temperature	110 °C (230 °F)	150 °C (302 °F)	200 °C (392 °F)	150 °C (302 °F)	150 °C (302 °F)	100 °C (212 °F)
Ingress of protection	IP 42	IP 55	IP 65	IP 54	IP 55	IP 65
Explosion protection						
Category		II 2 G	II 2 G	II 2 G	II 2 G	II 2 G
Type of protection		e	de	e	e	d
Temperature class		T1-T3	T1-T4	T1-T3	T1-T3	T1-T4
Supply voltage	400 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz	230 V / 400 V / 50 Hz	400 V / 50 Hz
Power consumption (W)	75	250	250	370	550	120
Weight	2.1 kg (4.6 lb)	8 kg (17.6 lb)	8 kg (17.6 lb)	10 kg (22 lb)	10.3 kg (23 lb)	8 kg (17.6 lb)
Material	1.4301	1.4571 / Viton®	1.4571 / FEP	1.4571 / Viton®	1.4581 / Graphite	1.4401 / 1.4462 / 1.4571 / Viton® / T2 / IGLIDUR H370

Circulation units with higher performance characteristics or for other media or viscosities on request.

* Considering the respective working point

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SPU1010



SPU4040

Charts

SPU1010 und SPU5000
Pumping characteristic for media with viscosity <15
cSt

SPU4040
Pumping characteristic for media with viscosity <15
cSt