



SINGLE VOLUTE TWIN SCREW PUMP DSP-2C

WITH SHAFT SEALING, ACC. TO API 676

Klaus Union GmbH & Co. KG

Experience – Responsibility – Passion

Klaus Union Twin Screw Pumps

Klaus Union supplies magnetic coupled twin screw pumps for more than 25 years. For demanding applications with mechanical seals Klaus Union offers a series of twin screw pumps, the DSP-2C complementing our well known DSP-4C and magnet driven SLM DSP-2C twin screw pump ranges.

The mechanical sealed twin screw pumps DSP-2C are engineered following API 676 3rd Edition regulations and offer the usual Klaus Union Twin screw pump features such as rugged design, maintenance friendly „PLUG & PUMP“ Cartridge Design as well as high quality casted casings of carbon steel, stainless steel or even higher grade materials.

The pumps are designed to accept standard cartridge seals (fully interchangeable with centrifugal pump seals) to reduce spare parts and stock costs for customers, as well as to ensure fast availability of spare mechanical seals all over the world. If requested by the customer the pumps can also accept fully API 682 compliant mechanical seals.

Alternatively the standardized gland area makes it easy to install gland packing or lip seal arrangements.

The optional available pressure limiting valve (PLV) using Klaus Union valve product line proven design and internals can protect the pump hydraulic against overpressure and is executed with return to suction as a standard. If requested the pump casings are executed with connection to directly mount standard API 526 grade safety valves on them.

Quality Assurance

A major component of the Klaus Union ethos is to ensure highest product qualities. Existing quality assurance procedures with Klaus Union suppliers are constantly monitored from order placement to goods receipt and final assembly. This quality assurance system, developed on latest technologies, complies with the requirements of international regulations. Klaus Union is a DIN EN ISO 9001 certified company.

Performance Range

Flow Rate: $Q =$ up to 600 m³/h
Diff. Pressure: $\Delta P =$ up to 16 bar
Higher capacities upon request

Pressure Ratings / Temperature Ranges

Standard construction: PN 25 at 120 °C
Temperature Range: -120 °C up to 350 °C
Pressure Rating: up to PN 25
Higher pressure ratings upon request



In accordance with TÜV NORD CERT procedures,

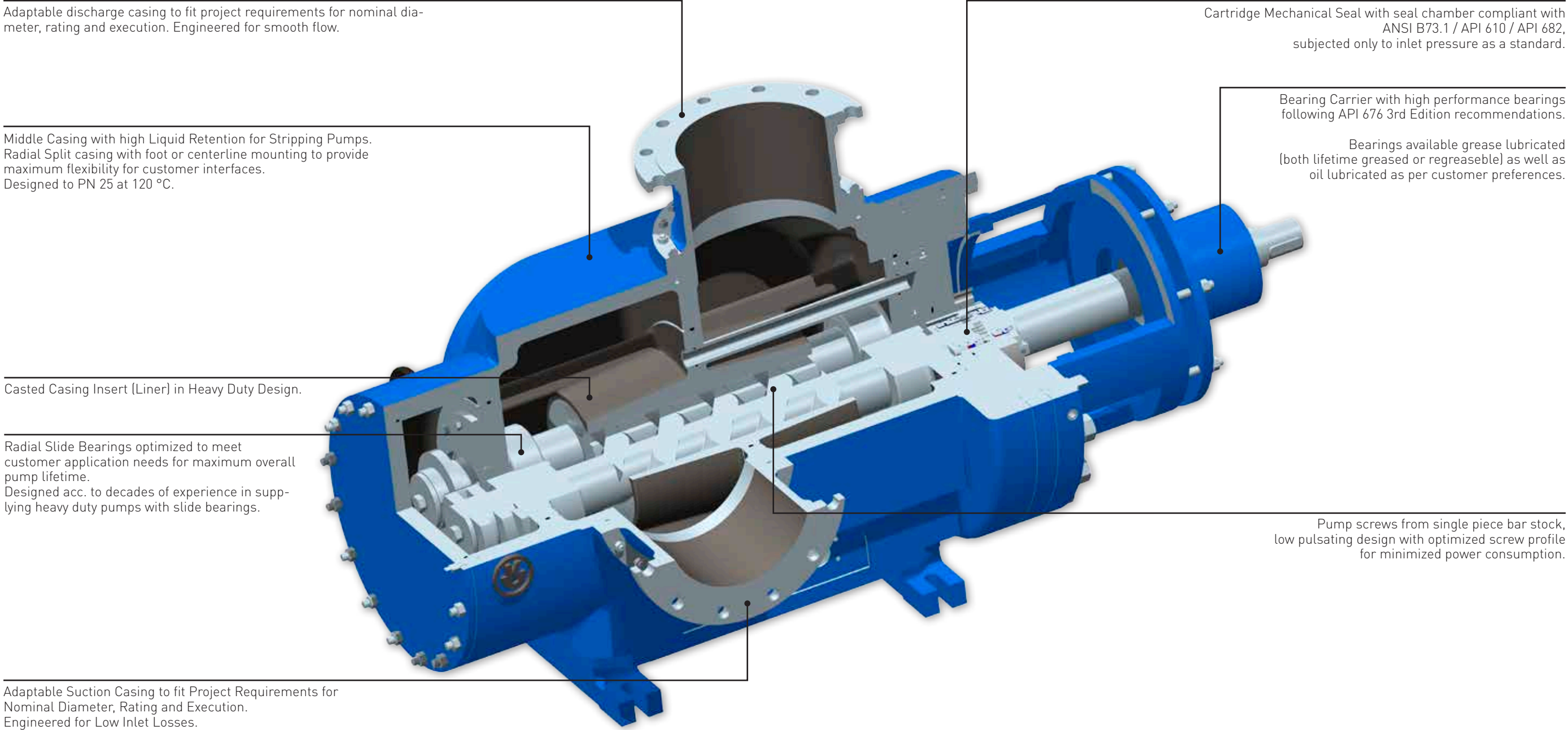
KLAUS UNION GmbH & Co. KG
Blumenfeldstraße 18
44795 Bochum
and
KLAUS UNION Service GmbH & Co. KG
Blumenfeldstraße 18
44795 Bochum

are certified according to DIN EN ISO 9001





Design Details DSP-2C





Klaus Union Technology and Innovation - Worldwide

Performance Data

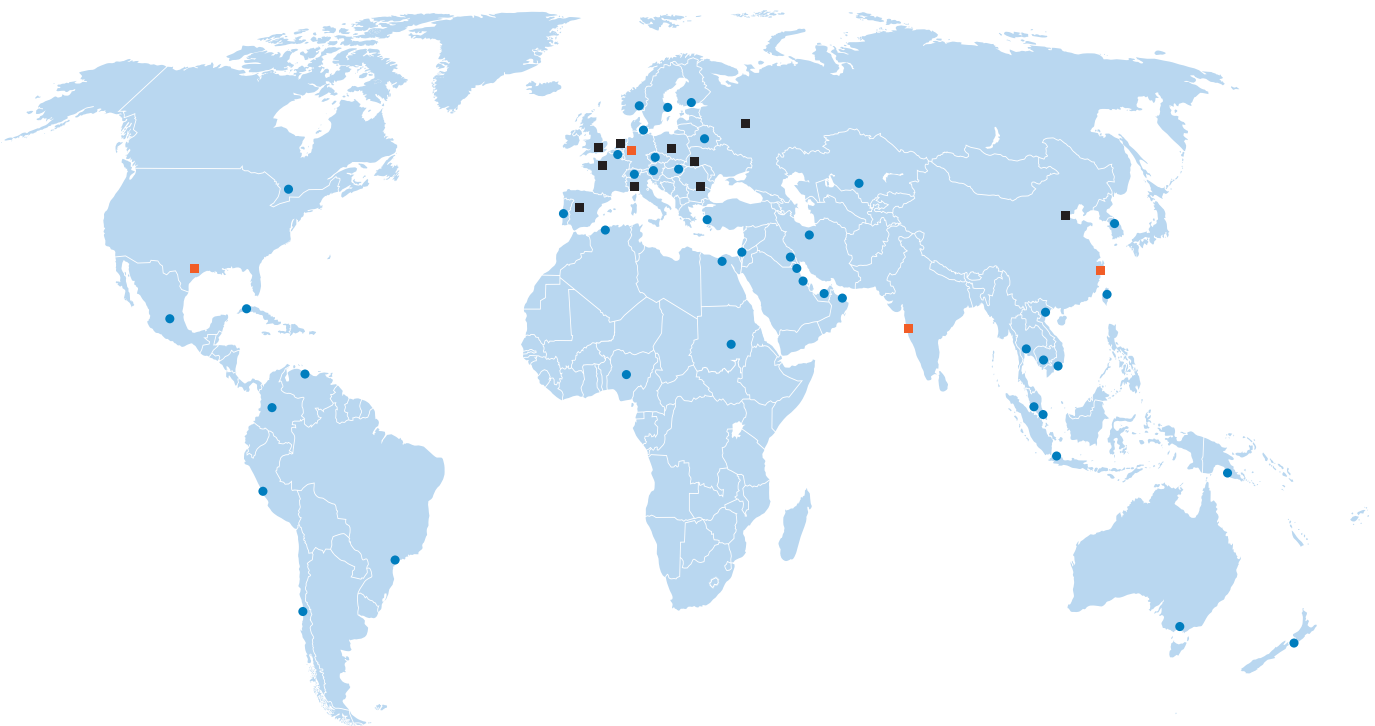
Flow Rate	max. 600 m³/h
Differential Pressure	max. 16 bar
Viscosity	max. 100.000 mm²/s (cSt)
Temperature	max. 350°C (662°F)

Higher flow rates or differential pressures upon request.

Construction Materials

Pump Casing	Cast Carbon Steel 1.0619 [similar to A216WCB] Cast Stainless Steel 1.4408 [similar to A351 CF8M] Duplex Stainless Steel 1.4470 [A 890 4A / UNS J92205] Super Duplex Stainless Steel 1.4469 [A 890 / UNS J93372]
Liner	Cast Carbon Steel 1.0619 [similar to A216WCB] Cast Stainless Steel 1.4408 [similar A351 CF8M] Duplex Stainless Steel 1.4470 [A 890 4A / UNS J92205] Super Duplex Stainless Steel 1.4469 [A 890 / UNS J93372] Wear Resistant Coating
Screws	Carbon Steel 1.8550, nitrated Stainless Steel 1.4542 [similar to UNS S17400], hardened Duplex Stainless Steel 1.4462 [A182-F51 / UNS S31603], hardened Martensitic Stainless Steel 1.4122, nitrated Wear Resistant Coating
Shaft Seals	Standard Cartridge Seals depending on the actual operating conditions following ANSI B73.1 / API 610 / API 682

Upon request, Klaus Union Screw Pumps, Series DSP-2C, can be supplied also in Hastelloy, Inconel, other high nickle alloys or Titanium.



- Germany, Bochum

India, Pune

China, Ningbo

USA, Houston

China, Tianjin

England

France

Italy

The Netherlands

Poland

Romania

Russia

Spain

Ukraine
- Algeria

Australia

Austria

Belarus

Belgium

Brazil

Cambodia

Canada

Chile

Colombia

Cuba

Czech Republic

Denmark

Egypt
- Finland

Hungary

Indonesia

Iran

Iraq

Kazakhstan

Kuwait

Malaysia

Mexico

New Zealand

Nigeria

Norway

Oman

Papua New Guinea
- Peru

Portugal

Saudi Arabia

Singapore

Slovakia

South Korea

Sudan

Sweden

Switzerland

Taiwan

Thailand

Turkey

United Arab Emirates

Venezuela

Vietnam
- Klaus Union
Center of Competence

Klaus Union
Subsidiary

Klaus Union
Sales Office

Product Range Pumps:

Pumps with Magnet Drive

- E Centrifugal Pumps acc. to DIN EN ISO 2858 & DIN EN ISO 15783, SLM NV
- E Centrifugal Pumps acc. to ANSI B73.3, SLM AVO
- E Centrifugal Pumps for Petrochemical Applications acc. to API 685, SLM AVP / SLM APC
- E Centrifugal Pumps for High Pressure Applications, SLM SV / SLM GV
- E Centrifugal Pumps for High Temperature Applications, SLM NHO
- E Centrifugal Pumps for Liquids Containing Solids, SLM NV OT
- E Self-Priming Centrifugal Pumps, SLM SV
- E Multistage Centrifugal Pumps, Tension-Rod or Barrel-Type Design, SLM GV
- E Submerged Centrifugal Pumps, SLM NVT
- E Double-Suction Centrifugal Pumps, SLM ZV
- E Twin Screw Pumps acc. API 676, SLM DSP-2C

Pumps with Shaft Sealing

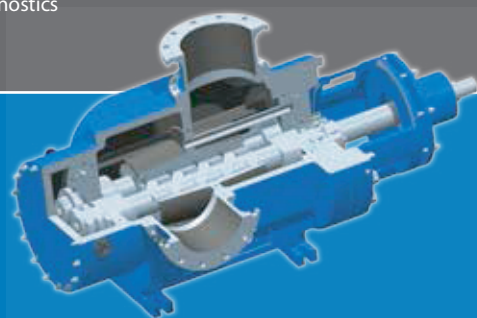
- E Centrifugal Pumps acc. to DIN EN ISO 2858 & DIN EN ISO 5199, NOV
- E Multistage Centrifugal Pumps, Tension-Rod or Barrel-Type Design, GOV / GOVT
- E Horizontal and Vertical Propeller Pumps, P
- E Bottom-Flange Propeller Pumps, UP
- E Submerged Centrifugal Pumps, TP NO
- E Double Suction Centrifugal Pumps, NZ
- E Twin Screw Pumps acc. API 676, DSP-2C / DSP-4C

Product Range Valves:

- E Globe Valves, T
- E Globe Valves, Y
- E Gate Valves, Isomorphous Construction Series
- E Gate Valves, Wedge or Wedge Plates
- E Relief Valves
- E Check Valves
- E Sight Glasses
- E Strainers
- E Filters
- E Bottom Valves
- E Safety Valves

Klaus Union Service Performance:

- E Workshop / On-Site Repairs
- E Genuine Spare Part Delivery Worldwide
- E Spare Parts Storage
- E Customized Spare Parts Management
- E On-Site Maintenance
- E Installation
- E Retrofitting
- E On-Site Testing / Monitoring
- E Customer Advisory Service
- E Start Up & Commissioning
- E Individual 24 / 7-Service
- E Trouble-Shooting
- E In-House & On-Site Training
- E On-Site Assembly and Disassembly
- E Long-Term Maintenance Contracts
- E Maintenance Planning and Consulting
- E Diagnostics



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