

# UNIQUE SOLUTIONS MADE BY THE SPECIALIST



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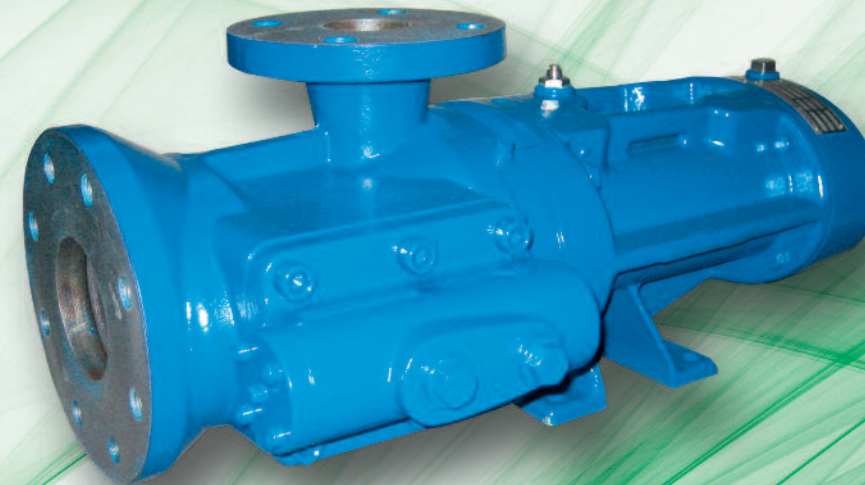
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## TWIN SCREW PUMPS TYPE SERIES SLI

MAXIMUM PERFORMANCE FOR HIGH DEMANDS



Bornemann SLI twin screw pumps are single-flow and self-priming. SLI pumps feature no metal-to-metal contact between the pump screws and the housing. This enables the conveyance of non-lubricating or corrosive and contaminated materials. As the pump rotates, the intermeshing of the two screws along with the pump housing form chambers. These chambers fill with the pumped fluid and move it from the suction side of the pump to the higher pressure discharge side of the pump.

Very flexible: The pump is designed to allow for reverse flow by simply changing the shaft direction. The suction becomes the discharge and vice versa, all without any modifications to the pump.

This axial system enables cautious, low-pulsation conveyance. It protects the media and maintains size, surface and visual integrity of the products



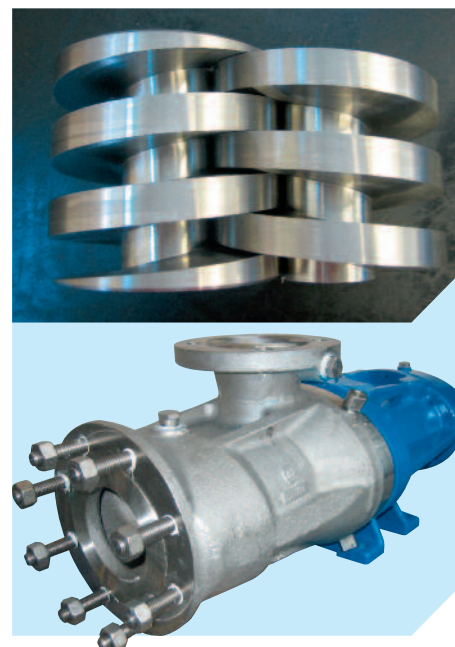
## MODULAR SYSTEM

Bornemann SLI pumps provide you with a range of convincing advantages that together result in the highest possible cost and production efficiency.

Using a modular system, Bornemann offers three pump sizes and different screw sets that cover a conveyance range of 1 m<sup>3</sup>/h to 180 m<sup>3</sup>/h. The different

screw sizes make it possible to handle a wide range of flow capacities with the same viscosities, operating pressures and rotation speeds.

Very different media can be conveyed with one pump.



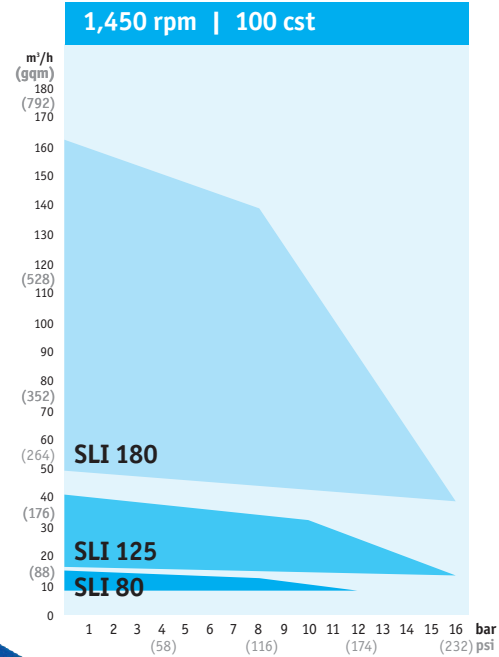
## ADVANTAGES

- Well suited for fluids with low and high viscosity
- Modular system – the combination of different feedscrews covers a wide spectrum with only three scales
- Self-priming
- Equipment available according to ATEX and TA Air
- Contact-free intermeshing screws
- Abrasion-free
- Smooth handling
- Low-pulsation conveyance
- Dry running protection
- Easy to maintain by single-flow

# TECHNICAL DATA

**SLI 80 | SLI 125 | SLI 180**

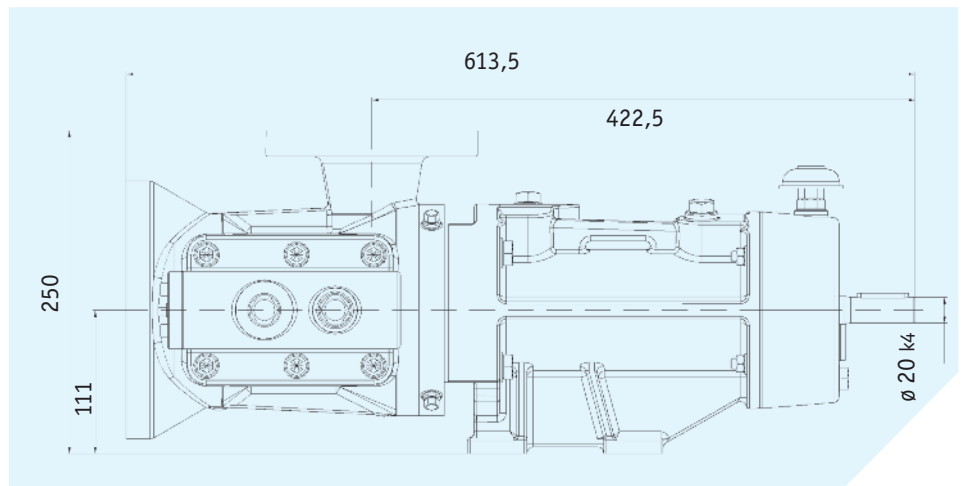
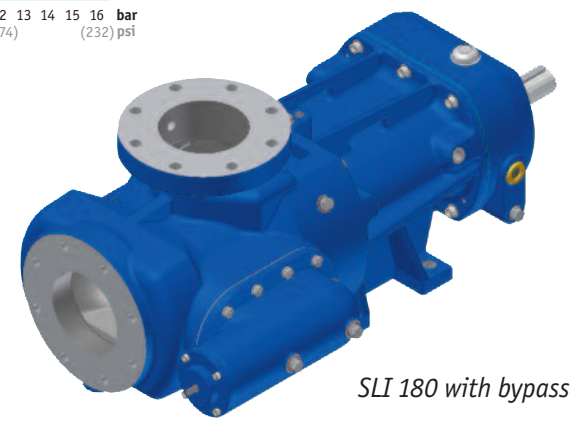
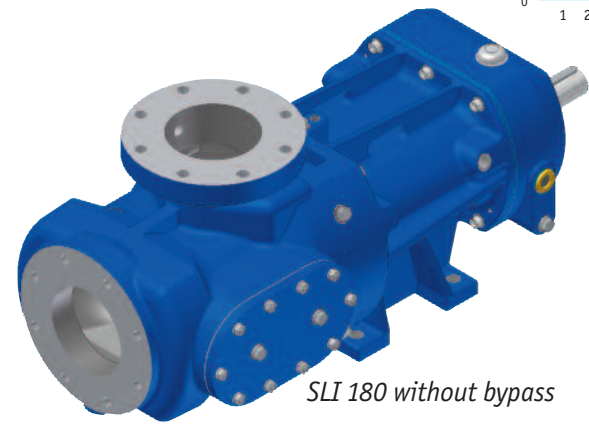
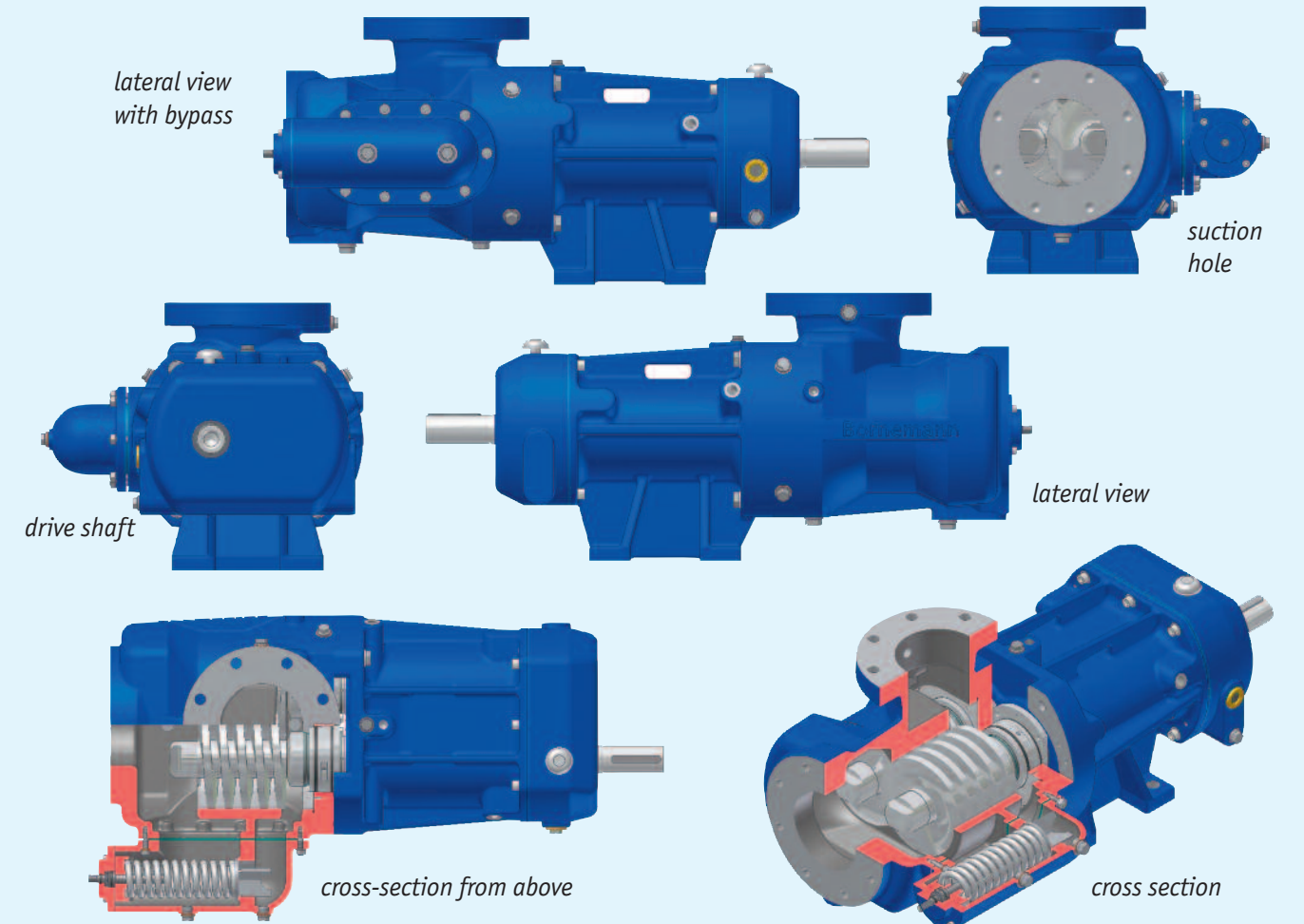
<b>Capacity</b>	1 - 180 m <sup>3</sup> /h (1 - 792 gpm)
<b>Differential pressure</b>	16 bar (232 psi)
<b>Speed</b>	up to 3,000 rpm
<b>Viscosity</b>	1 - 100,000 cSt
<b>Suction lift</b>	up to 8 m (26 ft)
<b>Rotating direction</b>	reversible
<b>Heating temperature</b>	120 °C (248 °F)
<b>Material</b>	GGG-40 and 1,4408



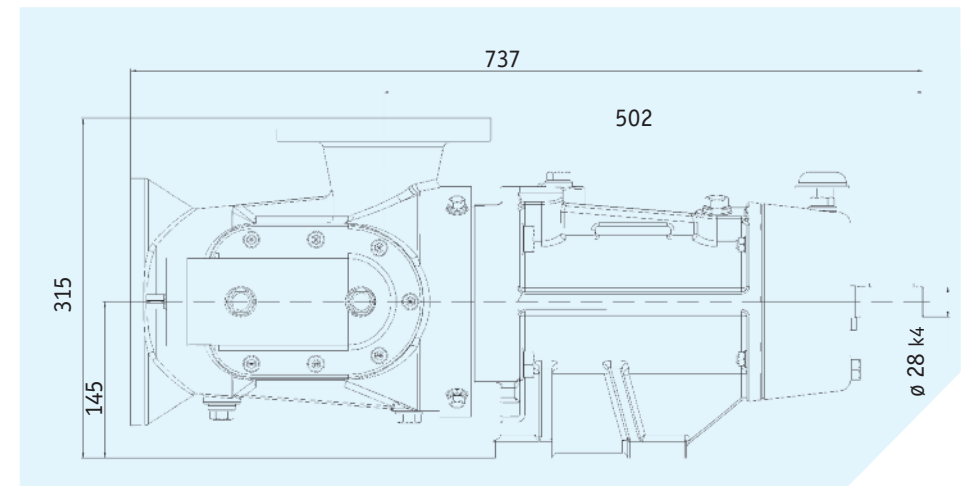
**Flange Connection**

<b>SLI 80</b>	
<b>DIN PN 16</b>	80/50
<b>ANSI 150 lbs</b>	3"/2"
<b>SLI 125</b>	
<b>DIN PN 16</b>	100/80
<b>ANSI 150 lbs</b>	4"/3"
<b>SLI 180</b>	
<b>DIN PN 16</b>	150/150
<b>ANSI 150 lbs</b>	6"/6"

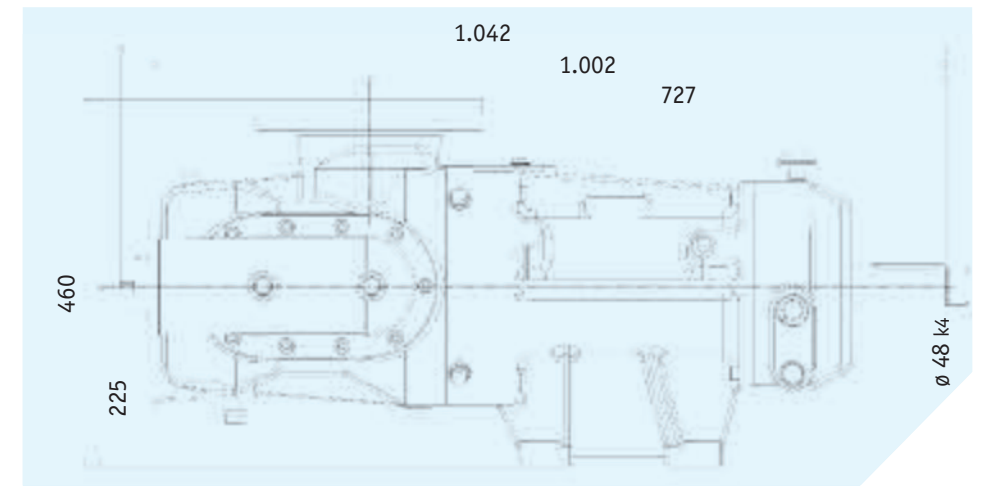
**SLI 180 with bypass – different views**



Twin Screw Pump SLI 80 (with bypass)

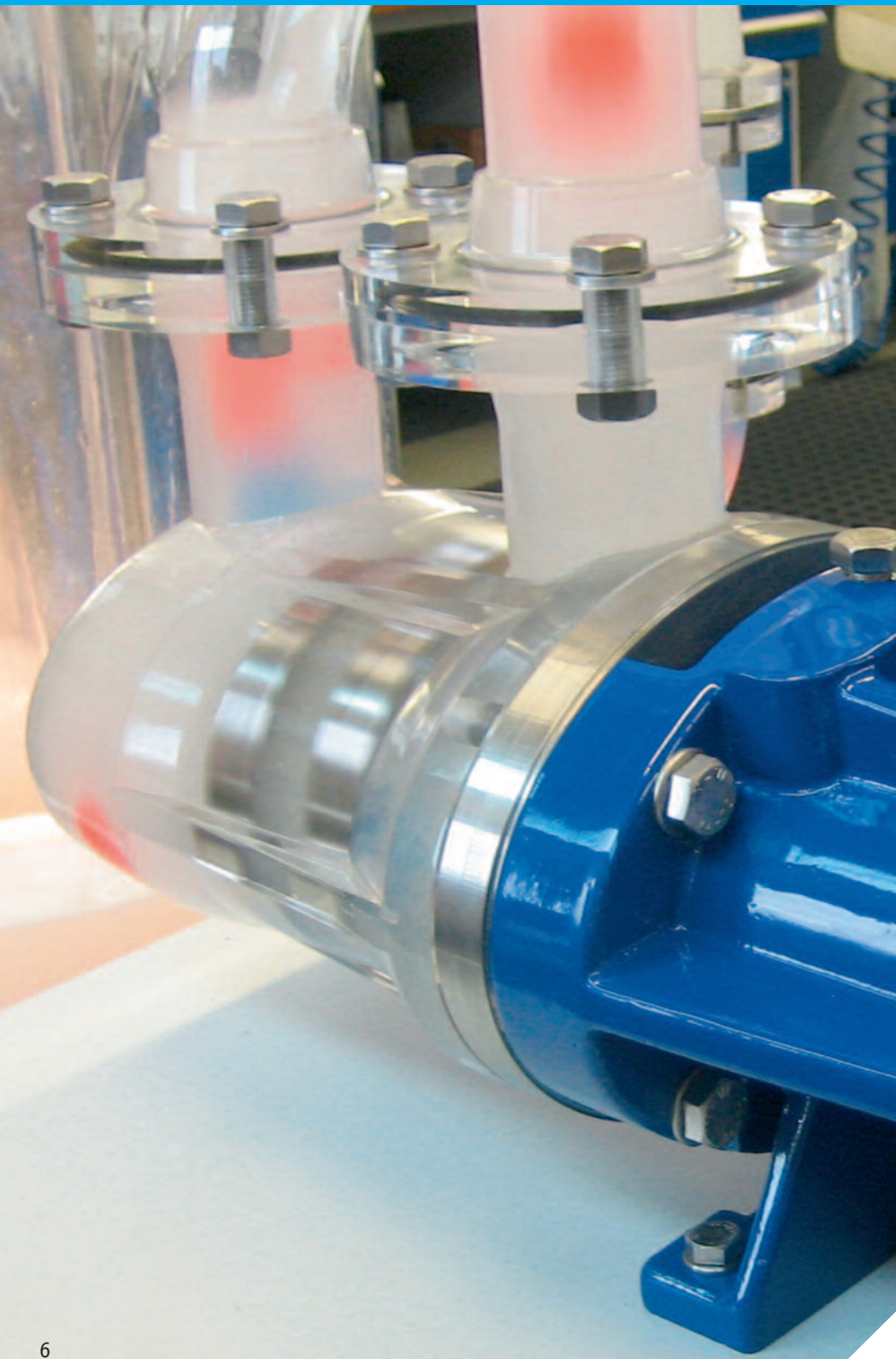


Twin Screw Pump SLI 125 (with bypass)



Twin Screw Pump SLI 180 (with bypass)

The all-round-product for transfer, dosing, processing and unloading duties



# BORNEMANN SLI PUMPS FOR MANY FIELDS OF APPLICATION AND DEMANDS

## CHEMICALS INDUSTRY

- Colours and paints industry
- Building chemicals
- Finished products (such as paints, water-soluble paints and paints with solvents, isocyanates, glues)
- Raw materials (such as resins, polyoles, binding agents, solvents)
- Cosmetics and pharmaceuticals industry

## POWER STATIONS, REFINERIES, TANK STORAGES

- Unloading systems for trucks
- Unloading stations for tank wagons
- Systems for emptying residues from pipelines and tanks

## SHIPBUILDING

- Emptying tanks (stripping pump)

## RECYCLING AND ENVIRONMENT

- Pyrolysis systems (thermal processing)
- Upgrading systems for waste water (e.g. colours and paints industry)
- Upgrading systems for old oils (condensate systems)
- Filtration technologies

## OIL INDUSTRY

- Crude oil, water
- Multiphase-mixtures
- Contaminated media