

Screw spindle pump KTSL

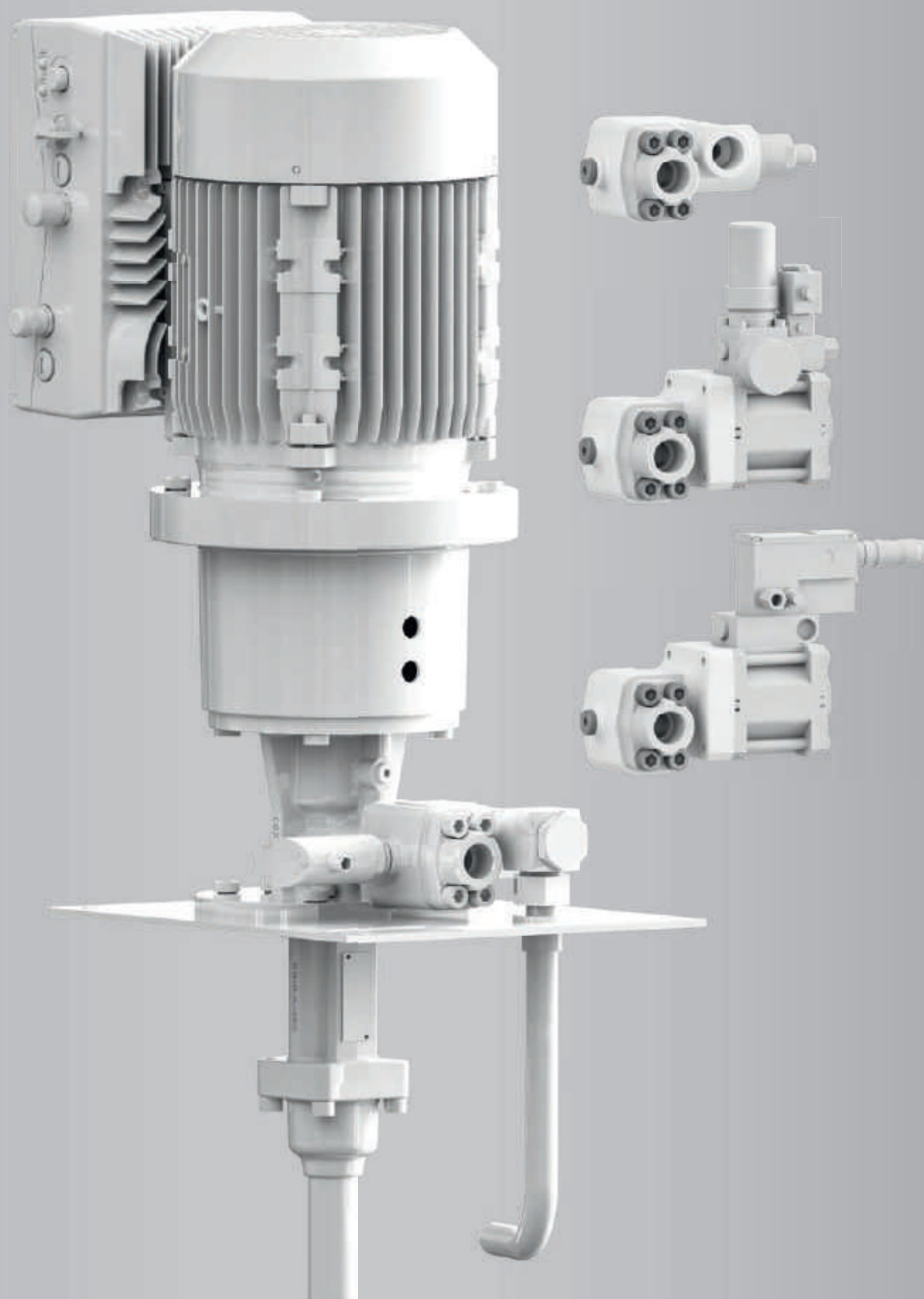
**KNOLL**

.It works



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**NEW FROM  
01/2022**



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## Properties

- Fewer pipes required
- Compact design
- Easy to service
- Long service life
- Good price/performance ratio

## Type designation code

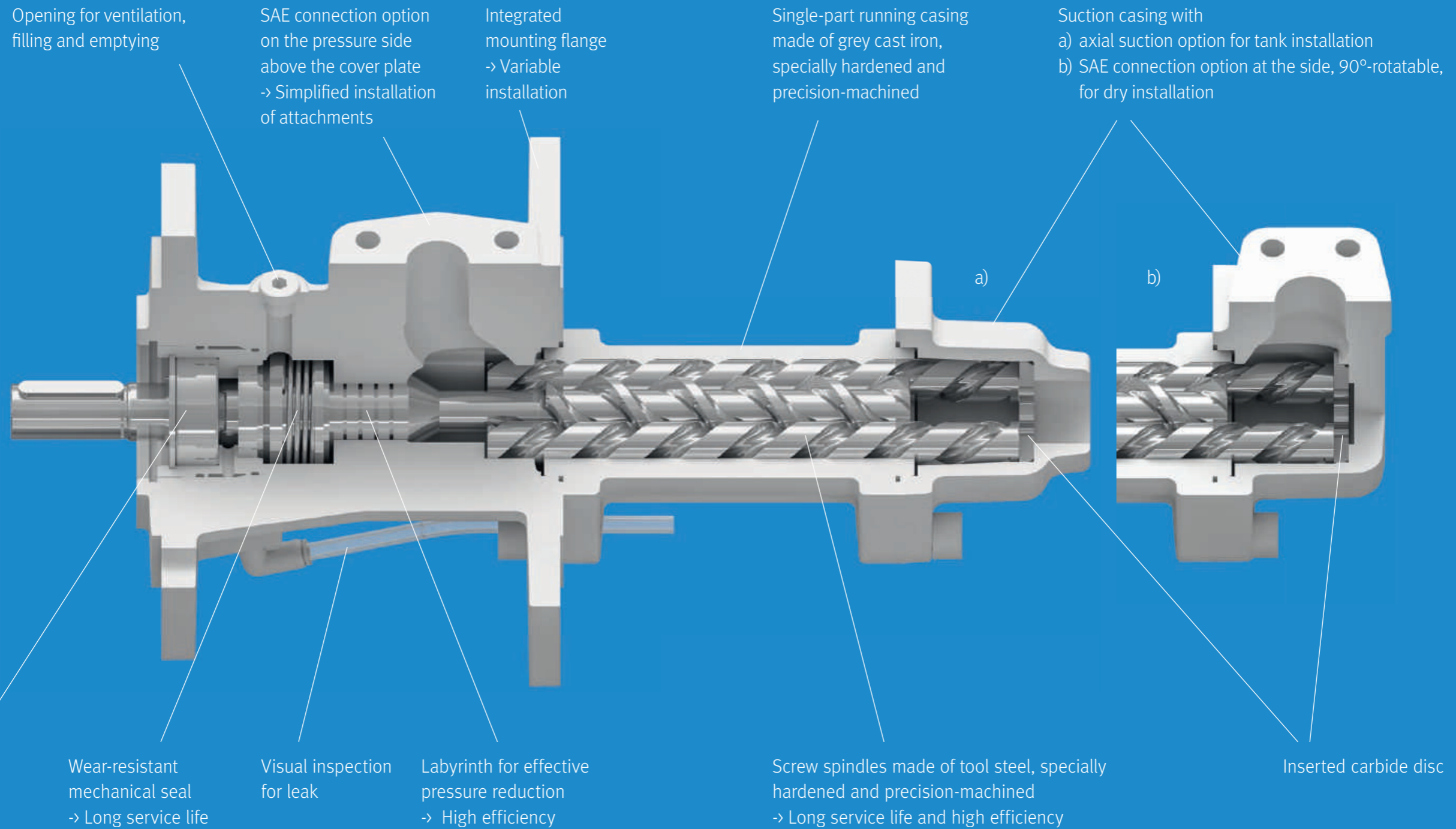
KTSL 25-50-R-G

Configuration .....  
 Overall size .....  
 Spindle pitch .....  
 Version R/S .....  
 R = Suction casing pipe thread  
 S = Suction casing SAE  
 Mechanical seal G .....  
 G = Supply pressure ≤ 8 bar

## Layout

The KTSL screw spindle pump is a self-priming displacement pump for conveying lubricating, less abrasive media such as cooling lubricants. The pump comprises 3 main components:  
 1. Suction casing, 2. Running casing with drive spindle and two running spindles, 3. Pressure casing with throttling point, sealed shaft passage and main bearing.

## Design features



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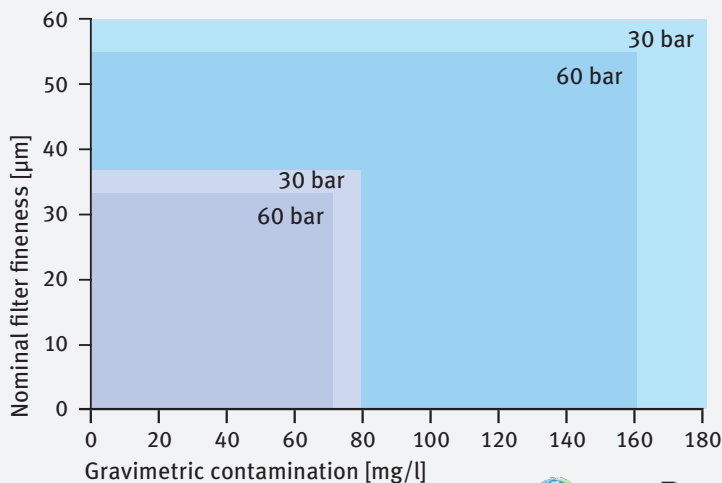
# KTSL

### Performance data

Pressure [bar]	Motor 2-pole			Motor 2-pole			Motor 2-pole			Motor 2-pole		
	Rot. speed 2,900 rpm 50 Hz			Rot. speed 3,500 rpm 60 Hz			Rot. speed 2,900 rpm 50 Hz			Rot. speed 3,500 rpm 60 Hz		
	Flow rate with viscosity [l/min]		Power demand [kW]	Flow rate with viscosity [l/min]		Power demand [kW]	Flow rate with viscosity [l/min]		Power demand [kW]	Flow rate with viscosity [l/min]		Power demand [kW]
	1 mm <sup>2</sup> /s	20 mm <sup>2</sup> /s	1-20 mm <sup>2</sup> /s	1 mm <sup>2</sup> /s	20 mm <sup>2</sup> /s	1-20 mm <sup>2</sup> /s	1 mm <sup>2</sup> /s	20 mm <sup>2</sup> /s	1-20 mm <sup>2</sup> /s	1 mm <sup>2</sup> /s	20 mm <sup>2</sup> /s	1-20 mm <sup>2</sup> /s
	KTSL 25-34						KTSL 25-38					
10	26.6	27.5	0.7	32.6	33.5	0.8	29.7	30.4	0.7	36.1	36.8	0.8
20	25.4	26.6	1.2	31.4	32.6	1.5	28.7	29.8	1.3	35.1	36.3	1.6
30	24.2	25.7	1.8	30.2	31.7	2.1	27.7	29.3	1.9	34.1	35.8	2.3
40	23.1	24.9	2.3	29.0	30.9	2.7	26.8	28.9	2.5	33.2	35.3	3.0
50	22.0	24.2	2.8	27.9	30.1	3.4	25.9	28.4	3.1	32.3	34.8	3.7
60	21.0	23.5	3.4	26.9	29.4	4.0	25.0	28.0	3.7	31.4	34.4	4.5
70	20.1	22.9	3.9	25.9	28.8	4.7	24.2	27.6	4.3	30.6	34.0	5.2
80	19.2	22.3	4.5	25.0	28.2	5.3	23.4	27.2	4.9	29.8	33.6	5.9
	KTSL 25-50						KTSL 25-60					
10	38.5	39.7	1.0	47.0	48.1	1.1	45.2	47.1	1.1	55.4	57.2	1.3
20	37.2	39.0	1.7	45.7	47.4	2.1	43.8	46.3	2.0	53.9	56.5	2.5
30	36.0	38.4	2.5	44.4	46.8	3.0	42.3	45.6	3.0	52.5	55.8	3.6
40	34.8	37.8	3.3	43.2	46.2	3.9	41.0	45.0	4.0	51.1	55.1	4.8
50	33.7	37.2	4.0	42.1	45.7	4.9	39.8	44.3	5.0	49.9	54.5	6.0
60	32.6	36.7	4.8	41.0	45.1	5.8	39.6	43.8	5.9	48.7	53.9	7.1
70	31.6	36.2	5.6	40.0	44.6	6.7	37.5	43.2	6.9	47.6	53.3	8.3
80	30.6	35.7	6.3	39.1	44.1	7.7	36.4	42.7	7.9	46.6	52.8	9.5

4-pole on request

### Recommended filter quality



The specifications relate to the determination of the gravimetric contamination with a 5 µm cellulose membrane in 100 ml sample quantity.

- Hard particles 500 – 1.000 HV
- Soft particles < 500 HV