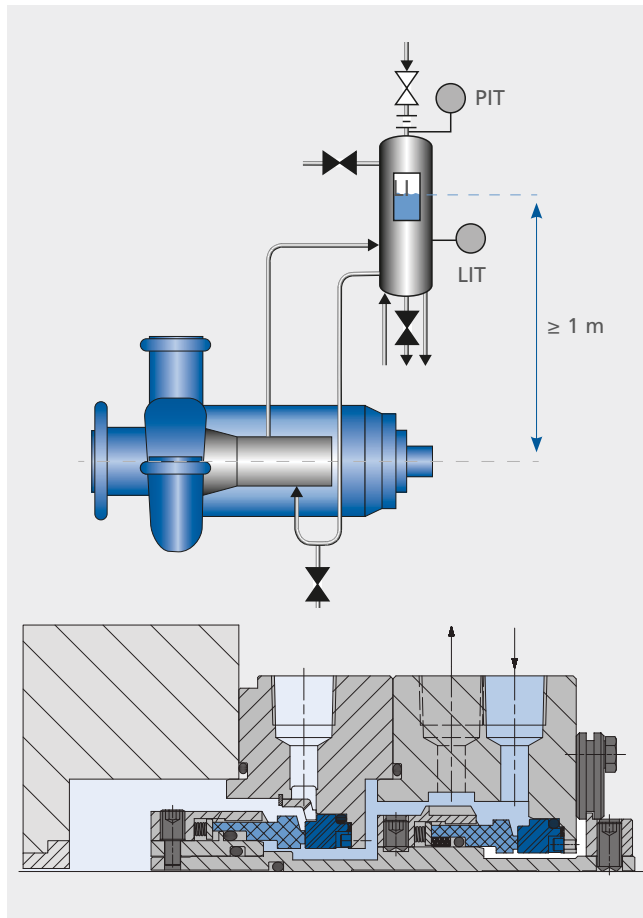


# KTS53A – thermosyphon system to API 682, 4<sup>th</sup> edition\*



## 1 General description

Thermosyphon system compliant with all requirements of API 682, 4th edition.

## 2 Use

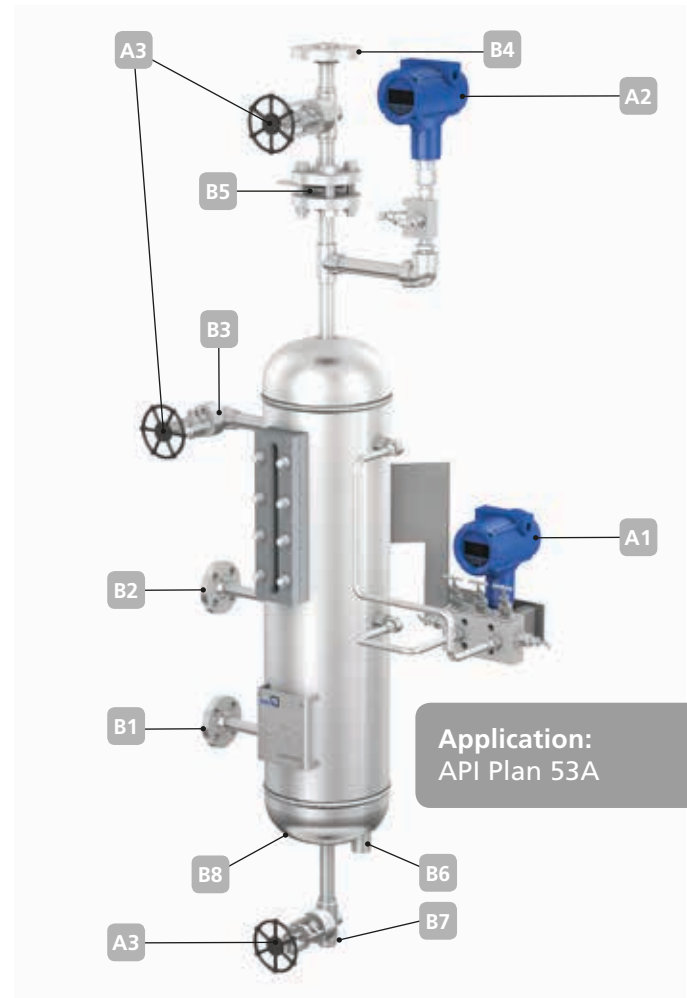
Used for double mechanical seals (arrangement 3). The barrier fluid pressure is higher than the pressure in the pump's seal chamber.

## 3 Efficiency

Circulation between the barrier fluid tank and the KSB mechanical seal 4KSMB6D is ensured via a circulation system integrated in the seal. The system and the seal are perfectly matched.

## 4 Longer seal life

The pressure of the clean barrier fluid in the space between the two mechanical seals is higher than the process fluid pressure. As a result, clean barrier fluid will always be available between the seal faces, minimising wear and carrying the heat away from this area. This markedly increases the mechanical seal life.



A1	Level transmitter	B1	To mechanical seal
A2	Pressure transmitter	B2	From mechanical seal
A3	Shut-off valve	B3	Fill connection
		B4	Connection to flare
		B5	Orifice plate
		B6	Cooling water outlet (closed)
		B7	Drain
		B8	Cooling water inlet (closed)

## Technical data

Process side	Up to 50 bar: -29 °C to 200 °C
Cooling water side	Up to 16 bar: -29 °C to 99 °C
Total volume	15 litres / 26 litres
Working volume	4 litres / 6.5 litres
Explosion protection for measuring instruments	EExd – IIC – T6 (ATEX EX II 1/2G)
Design to	ASME VIII-Div.1 PED 2014 / 68 / EU
Business type	Standard (KSB EasySelect)

\*System to API 682, 3<sup>rd</sup> edition, also available