

4EYS – for KSB's Etanorm SYT, Etabloc SYT and Etaline SYT pump type series

Applications: heat transfer engineering and hot water recirculation



Technical description

Arrangement	Single*
Design	Component seal
Construction principle	Dynamic
Balancing	Unbalanced
Springs	Multi-spring arrangement
Direction of rotation	Bi-directional

Materials

Primary ring	Antimony-impregnated carbon (A), resin-impregnated carbon (B), SiC (Q1), SiC porous (Q7)
Mating ring	SiC (Q1), SiC porous (Q7)
Elastomers	FKM (V7), EPDM (E)
Springs	1.4571 (G)
Metallic components	1.4571 (G)

Further material combinations and certificates on request

Technical data

Operating pressure	Up to 16 bar dynamic Up to 24 bar static
Temperature	-15 °C to 140 °C
Permissible axial movement	±2 mm**
Sliding velocity	20 m/s

The temperature and pressure limits depend on the operating mode of the pump, the materials used and the type of fluid handled. Operation at the maximum limits is not possible for all operating parameters at the same time as the parameters influence each other during operation.

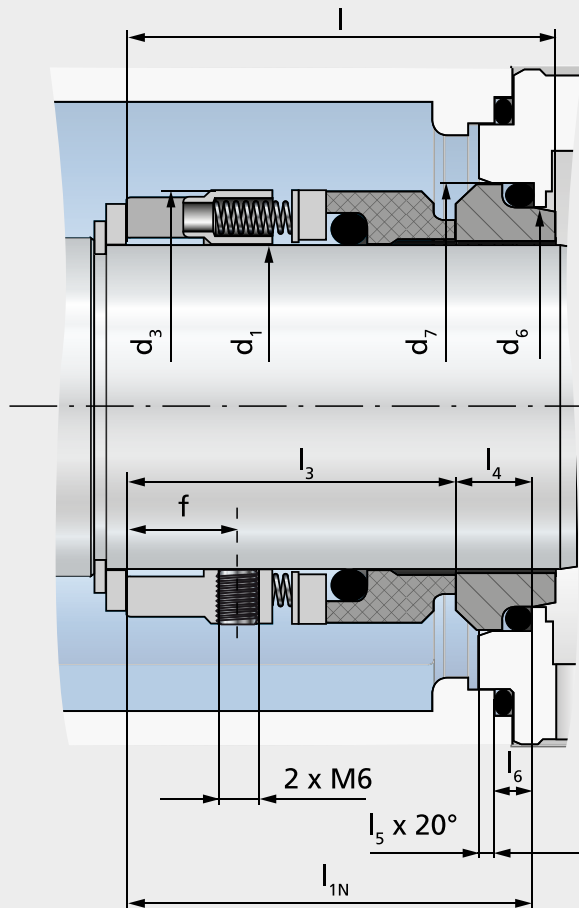
* In tandem arrangement also for use as double mechanical seal

** ±2.5 mm from nominal diameter 048

Variants

4EYT – tandem arrangement

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- In combination with the pump's design, the seal can be used for fluid temperatures of up to 350 °C. The complete Etanorm SYT application range can thus reliably be covered with this mechanical seal.
- With the multi-spring arrangement the axial spring force is evenly distributed over the entire circumference of the primary ring. This minimises wear and contributes to a long seal life.
- The solid primary ring is designed to maintain an optimum lubricating film between the seal faces also at high pressures and temperatures.

Dimensions for 4EYS (in mm)

Nominal diameter	Bearing bracket size	d ₁ h6	d ₃	d ₆ H11	d ₇ H8	l	l _{1N}	l ₃	l ₄	l ₅ x20	l ₆	f
028	Etabloc SYT, Etaline SYT SU25	28	42	37	43	52,5	50	40	10	2	5	13
033	Etanorm SYT SU25	33	47	42	48	56,5	55	45	10	2	5	16
048	Etanorm SYT SU35/55	48	64	59	66	63,5	60	48,5	11,5	2	6	16,5