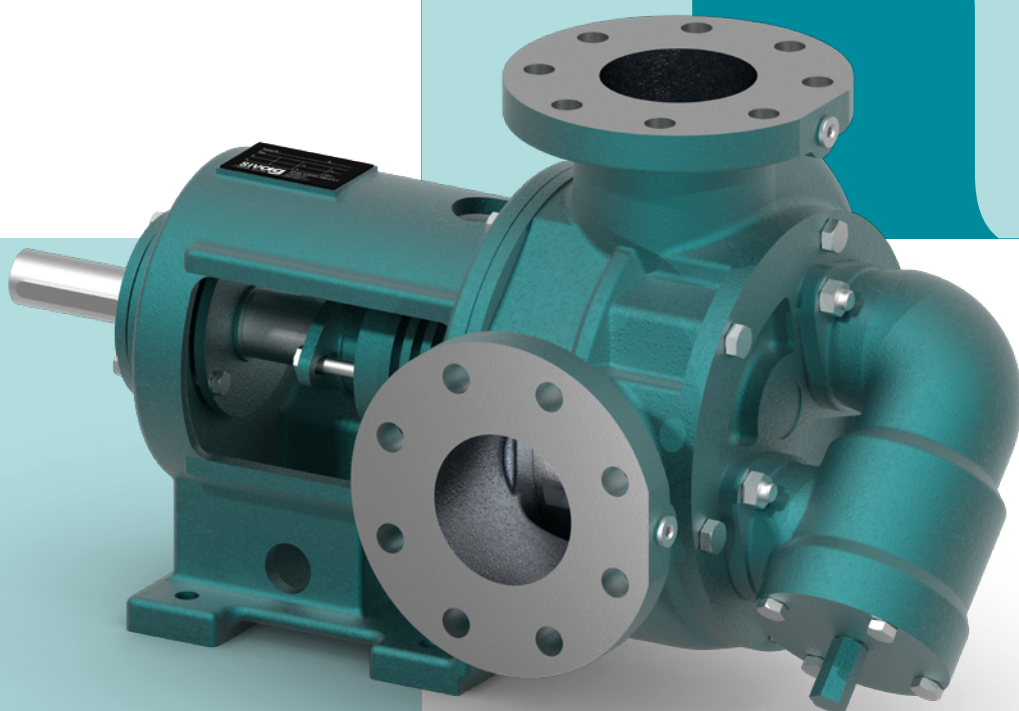


internal gear pumps

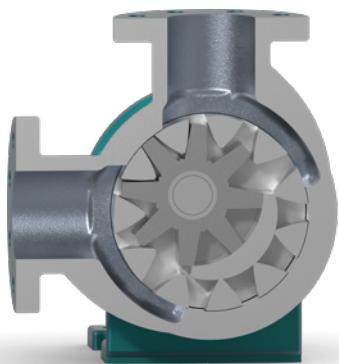


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The internal gear pumps of the **R series** are...

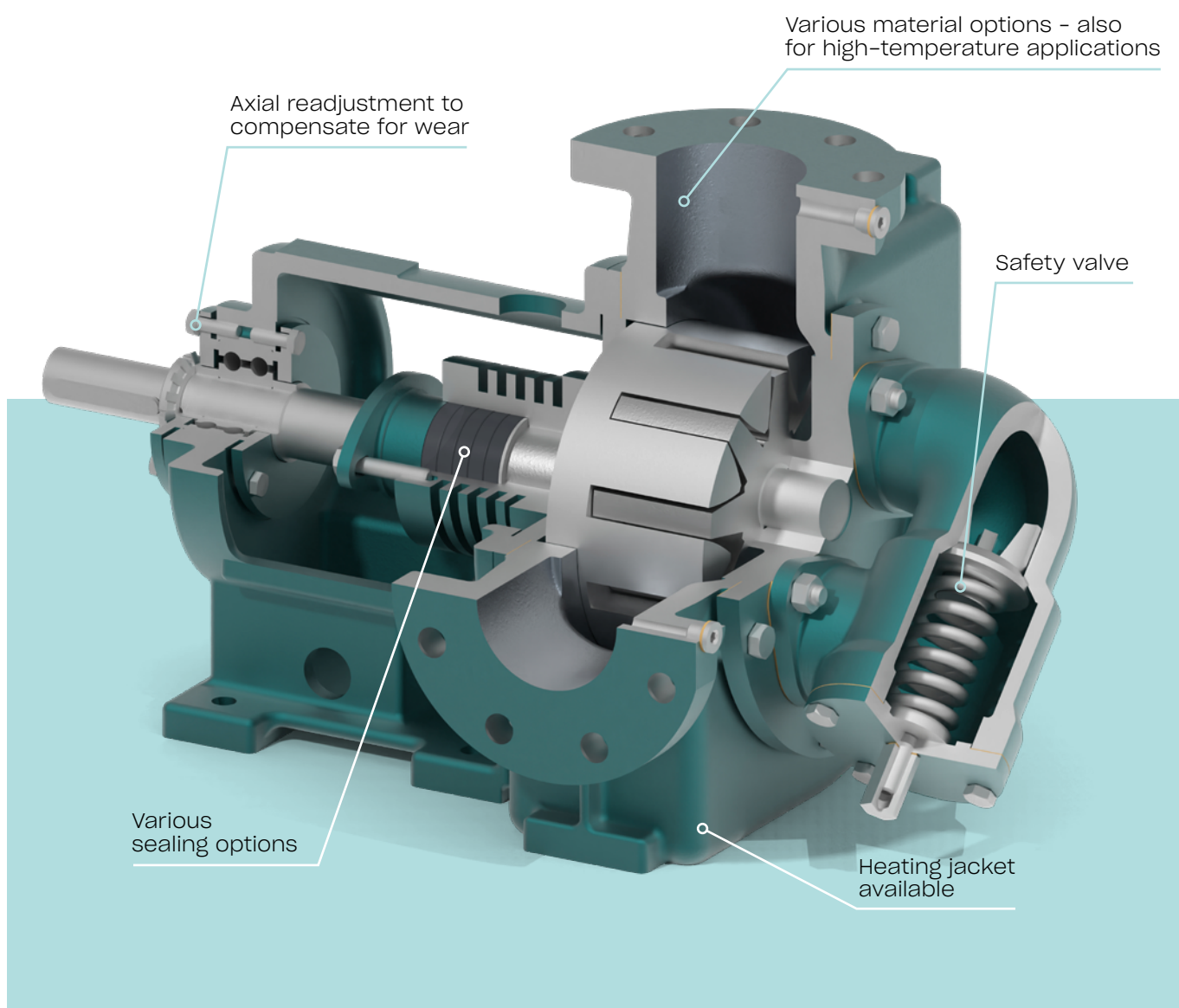
... positive displacement pumps for liquids of any viscosity, including those containing abrasive components. Internal gear pumps are used in a wide range of industries, such as the asphalt/bitumen industry or chocolate production.



Functional Principle

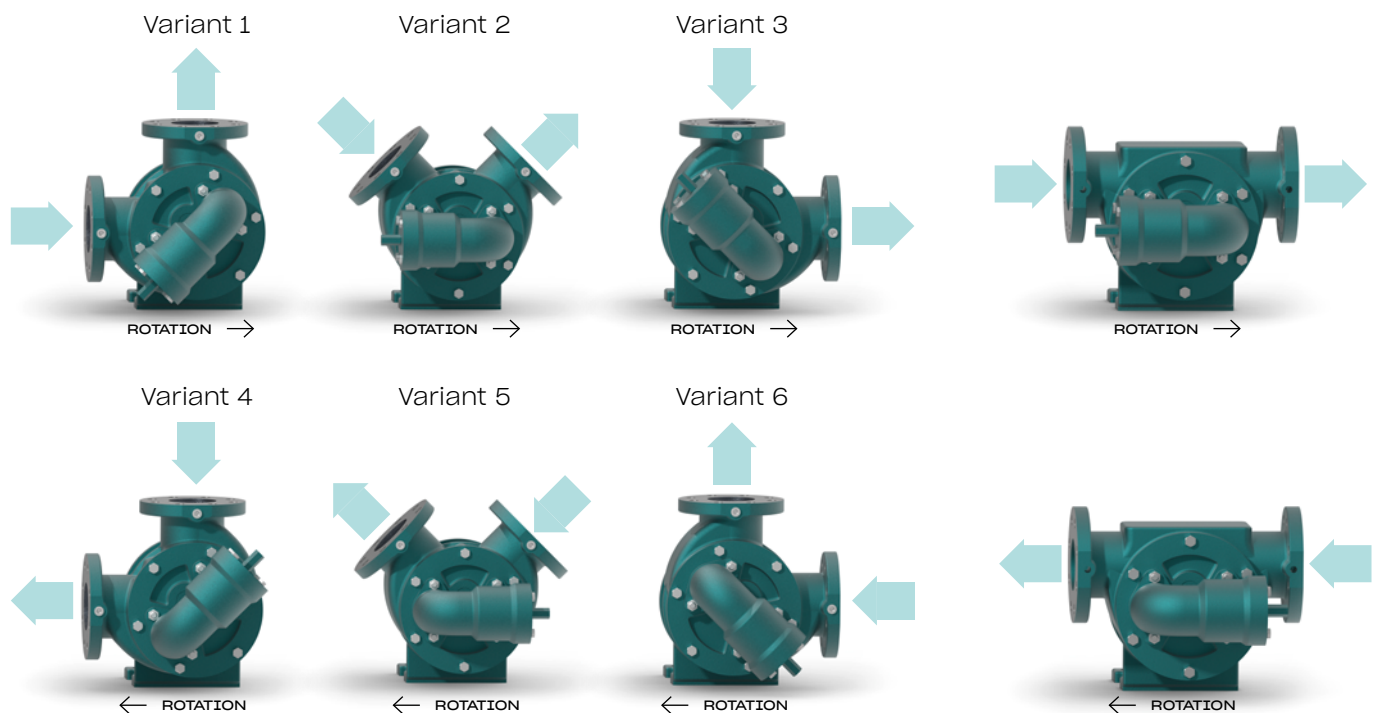
The flow is generated by two gears that are mounted eccentrically to each other. The gears (called rotor and pinion) are separated by a crescent-shaped partition. The separation of the intermeshing gears causes suction and conveyance within the pump head.

When the teeth mesh again on the pressure side, the discharge occurs. This operating principle ensures a uniform, pulsation-free flow.



Type	Connection DN PN 16 DIN EN 1092-2	Viscosity mm²/s	Rotational speed min ⁻¹	Flow rate m³/h	Power input at 4 bar kW	Weight kg
R 35	40	200 4,000 50,000	960 560 280	2.5 1.5 0.8	0.7 0.8 0.6	15
R 40	40	200 4,000 50,000	960 560 280	4.6 2.7 1.4	1.1 1.0 0.8	16
R 50	50	200 4,000 50,000	720 450 230	9.6 6.1 3.1	2.0 1.9 1.4	32
R 65	65	200 4,000 50,000	560 360 200	16.2 10.6 6.0	3.6 4.5 2.6	46
R 80	80	200 4,000 50,000	450 280 140	31.3 19.8 10.0	5.9 5.7 3.9	84
R 105	100	200 4,000 50,000	400 250 120	55.8 35.1 17.1	10.5 11.3 8.4	152
R 150	150	200 4,000 50,000	400 250 125	93.0 58.8 29.8	15.5 15.4 11.4	240
R 180	150	200 4,000 50,000	320 200 100	136 86.1 43.8	21.6 20.5 14.9	410
R 200	200	200 4,000 50,000	250 160 80	207 133 67	38.4 33.0 20.7	599
R 250	250	200 4,000 50,000	250 160 80	319 207 105	47.6 45.5 29.5	

Installation variants



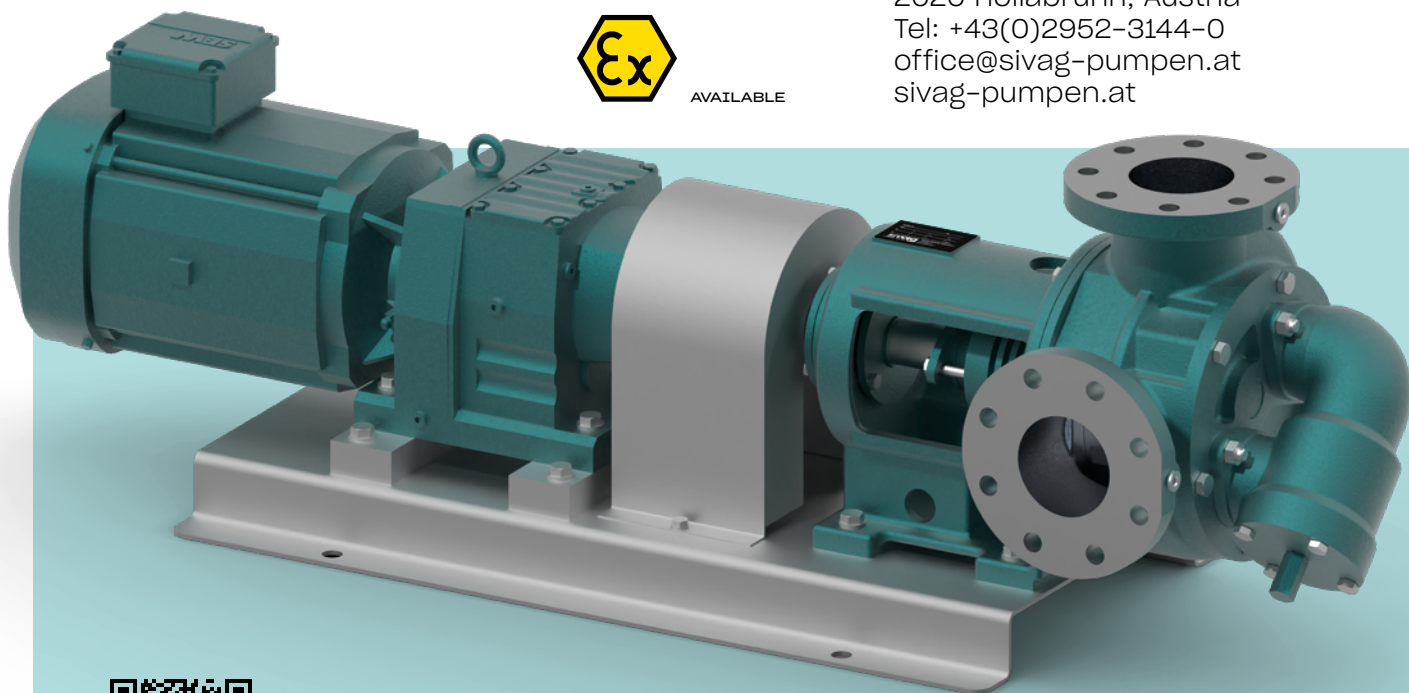


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Key technical data:

Flow rate: max. 350 m³/h
Delivery pressure: max. 16 bar

Viscosity: max. 50,000 mm²/s
Temperature: min. -60 °C/max. +300 °C
Connections: DN40 - DN250