

Ruthmann Pumpen

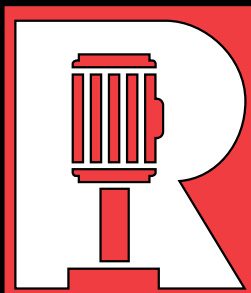
Pumping Solutions Since 1912

Screw Pumps for Cooling Lubricants



Ruthmann...Another Word for Innovation





Ruthmann Pumpen

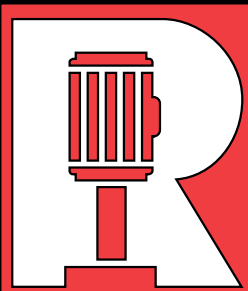
Screw Pumps for Cooling Lubricants

Technical Data and Dimensions

Technical Data		15-20	32-42	55-74-85	105-118	160-210	235-275
GPM	up to	7	16	32	48	89	122
Pressure	psig up to	1740	1740	1740	1740	1740	1740
Temperature	°F	140	140	140	140	140	140
Viscosity	cSt	from 1	from 1	from 1	from 1	from 1	from 1
Rotation speed	rpm	3500	3500	3500	3500	3500	3500
Positive inlet pressure	psig up to	145	145	145	145	145	145

Dimensions		15-20	32-42	55-74-85	105-118	160-210	235-275
Pressure side	inch	SAE 3/4"	SAE 1"	SAE 1 1/2"	SAE 1 1/2"	SAE 2"	SAE 2 1/2"
Suction side	inch	Thread 1"	Thread 1 1/4"	Thread 2"	Thread 2"	Thread 2 1/2"	SAE 3"
Shaft end	inch	0.75 x 1.38	0.75 x 1.38	1.10 x 1.97	1.10 x 1.97	1.5 x 2.76	1.5 x 2.76
Pilot Diameter	inch	4.92	4.92	6.30	6.30	7.09	7.09
Bracket flange diameter	inch	7.28	7.28	8.22	8.22	10.24	10.24
Total length	inch	15.51	17.64	21.93	23.82	29.45	30.83



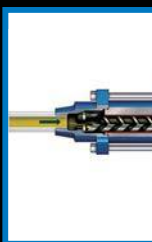


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Screw Pumps for Cooling Lubricants

Features

Even for high pressure cooling lubricants you can benefit from the advantages of a screw pump. Customer-specific design solutions are available.



Special requirements

Compared with other pump principles, screw pumps have a number of outstanding qualities. The pump delivers continuously with a low pulsation rate and low noise level. They achieve high flow rates even in small sizes. Cooling lubricants are difficult liquids with viscosities as low as 1 cSt. They must be delivered at high pressure, and contain abrasives, mostly metal residues.

Thanks to the innovative design, particularly in regards to the case coatings, the Ruthmann Pumpen screw pump offers many advantages when pumping water soluble coolant emulsions.

lubricants are abrasive and can cause damage to the surface. When precautions are not taken, the case, the spindles and the ball bearing are affected. Emulsions can damage the main spindle bearing in particular. The case is coated with a resistant polymer; this synthetic material can absorb particles. Depending on the liquid used, other materials can also be provided. Additionally, the pump is provided with a permanently lubricated outside bearing which has no contact with the medium.

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Working conditions and materials

Flow rates: 1 to 160 gpm.
Max. pressure: 1750 psig.
Supply pressure: 145 psig.

Ruthman Companies: A family-owned business supplying pumps



Ruthman Companies was co-founded in 1924 by Alois and Edward Ruthman as the Ruthman Company. Based in Cincinnati, the company manufactured steamboats that traveled the Ohio River.

In 1924, Alois conceived the first sealed pump, coining the term "coolant pump." The brand new pump "Gusher," giving birth to what is now Ruthman Company brand, Gusher Pumps.

Alois' son Thomas R. Ruthman joined the family business in 1950, growing the business globally through organic growth and the acquisition of new technologies. In the early 1990's, Alois' grandson, Thomas G. Ruthman, the third generation of Ruthmans in the pump business. Over the years, Ruthman Companies has expanded its product line from the original screw pumps to include valves, vertical turbine pumps, positive displacement pumps, and other specialized pump equipment, while upholding its reputation as a leader in the custom engineering of pumps for the most challenging applications.

The balance piston on the drive spindle is provided with grooves for the purpose of reducing the leakage rate and to insure high efficiency. The clearances of the spindle material and the case coatings are adjusted in such a way that media of low viscosity can be delivered.

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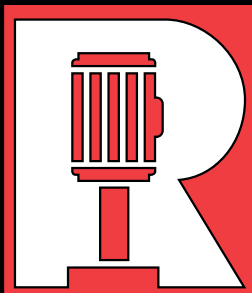
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Ruthmann Pumpen

Screw Pumps for Cooling Lubricants

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