

Product:

HAAKE Series 1 Sensors

Manufactured By:

Thermo Scientific

Measuring geometries

The HAAKE Series 1 instruments are compatible with a whole range of sensor systems made from titanium for the rotating part and stainless steel for the stationary part. Aluminum is used for the disposable systems. For high temperature applications the geometries are equipped with a ceramic shaft to prevent excessive heat loss.

Model	HAAKE RotoVisco 1		HAAKE RheoStress 1	
	Shear Rate (1/s)	Viscosity ¹⁾ (mPas)	Shear Rate (1/s)	Viscosity ¹⁾ (mPas)
Double gap cylinder system DG43	0.5 – 3300	1 – 3.8E+05	0.08 – 3900	1 – 4.6E+06
Cylinder Ø 34 mm ISO 3219 Z34 DIN	0.2 – 1300	1 – 2.4E+06	0.03 – 1500	1 – 2.8E+07
Cylinder Ø 20 mm ISO 3219 Z20 DIN	0.2 – 1300	3.7 – 1.2E+07	0.03 – 1500	1 – 1.5E+08
Cylinder Ø 10 mm ISO 3219 Z10 DIN	0.2 – 1300	30 – 1.0E+08	0.03 – 1500	1 – 1.2E+09
Cylinder Ø 41 mm DIN 53018 Z41	0.3 – 2300	1 – 9.6E+05	0.06 – 2800	1 – 1.2E+07
Cylinder Ø 38 mm DIN 53018 Z38	0.15 – 900	1 – 3.0E+06	0.02 – 1100	1 – 3.6E+07
Cylinder Ø 31 mm DIN 53018 Z31	0.07 – 440	2.7 – 8.9E+06	0.01 – 530	1 – 1.1E+08
High shear cylinder 25 µm gap HS25	6.9 – 4.6E+04	1 – 5.8E+05	1.2 – 5.5E+04	1 – 7.0E+06
High shear cylinder 100 µm gap HS100	1.8 – 1.2E+04	1 – 2.5E+06	0.3 – 1.4E+04	1 – 3.0E+07
Cone Ø 60 mm, 1° angle C60/1	0.9 – 6000	1 – 9.8E+05	0.15 – 7200	1 – 1.2E+07
Cone Ø 35 mm, 1° angle C35/1	0.9 – 6000	1.5 – 4.9E+06	0.15 – 7200	1 – 5.9E+07
Cone Ø 20 mm, 1° angle C20/1	0.9 – 6000	8.0 – 2.7E+07	0.15 – 7200	1 – 3.2E+08
Plate Ø 60 mm PP60	0.47 – 3100	1 – 2.5E+06	0.079 – 3800	1 – 3.0E+07
Plate Ø 35 mm PP35	0.27 – 1800	6.5 – 2.2E+07	0.046 – 2200	1 – 2.6E+08
Plate Ø 20 mm PP20	0.16 – 1000	61 – 2.0E+08	0.026 – 1300	1 – 2.4E+09
Starch Rotor Ø 40, 2 blades ST40	--	10 – 100 000	--	10 – 100 000
Vane rotor Ø 40 mm, 5 blades FL40	--	5.6 – 1.9E+07	--	1 – 2.2E+08
Vane rotor Ø 22 mm, 5 blades FL22	--	54 – 1.8E+08	--	1 – 2.2E+09

1) Lowest viscosity at lowest shear stress and highest shear rate
Highest viscosity at highest shear stress and lowest shear rate

Rheology Solutions is the sole Australian Distributor of this product. Full product information is available to download from www.rheologysolutions.com. If you have any questions or require further information please contact us. We look forward to being of further service.

Regards from the Team at Rheology Solutions.