



KINEMATICA

Homogenizing perfected.



LABORATORY LINE

Dispersing vessels and jars

Accessories for laboratory applications

Dispersing vessels.

For best results.

Choosing the right dispersing aggregate is crucial for good results.

An optimized vessel also contributes to achieve the desired result even more efficiently.

THE PROBLEM

For normal cylindrical dispersing jars, the flow creates a vortex. This causes the mixing and dispersing efficiency to decrease considerably because the product can no longer be ideally recorded or processed by the dispersing generator head. This results in an extension of the process times and thus, an increased application of energy. Depending on the formation of the vortex, an increased air intake must be expected.

THE SELECTION

Our GS vessels are available in chemical and temperature-resistant borosilicate glass or stainless steel. Dimensions ranges from a few milliliters to several liters, with or without a cover, with or without a sealed feedthrough.

THE SOLUTIONS

Our specially designed GS jars have a cloverleaf-like shape. This efficiently interrupts the flow in a radial direction and generates additional opposing flows. This high turbulence optimises the mixing and the dispersing efficiency. This minimises the processing time and reduces the processing of energy.

Our GS-stainless steel containers are equipped with a removable baffles part. The crossbars radically disturb the flow and generate additional opposing flows. As for the GS jars, strong turbulences are generated which optimizes the mixing in the dispersing vessel. The baffle parts can be easily removed after the dispersing process and be cleaned free of residues. Your sample or the product can be protected with the appropriate stainless steel cover.

THE MATERIALS

Borosilicate glass is a chemical and temperature-resistant glass and shows an almost inert behaviour towards most of the chemicals (stable). The sterilizable screw caps with PTFE or a silicone seal are temperature-resistant up to 180°C. The stainless steel 18/10, which the vessels are made of, is rustproof, durable, has good insulating properties, completely hygienic, not toxic and not magnetic.



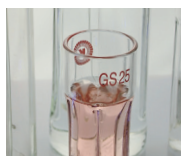
GS vessel principle (viewed from top)



Effect of the baffles part (viewed from above)

CLOVERLEAF-LIKE SHAPED BOROSILICATE VESSEL

Sales No.	Product	Ø/H (mm)	Process volume	Thickness	Thread	Description
Open on top						
11051010	GS 15	30/100	35ml	2.8mm	-	-
11051011	GS 25	54/150	150ml	3.5mm	-	-
11051012	GS 40	80/200	500ml	3.5mm	-	-
11051013	GS 50	90/250	1000ml	3.5mm	-	-
11051014	GS 60	100/300	1300ml	3.5mm	-	-
With screw cap and sealing						
11051020	GS 15K	30/100	35ml	2.8mm	GL25	-
11051021	GS 25K	54/150	150ml	3.5mm	GL45	-
11051022	GS 40K	80/200	500ml	3.5mm	GL45	-
11051023	GS 50K	90/250	1000ml	3.5mm	GLS80	-
11051024	GS 60K	100/300	1300ml	3.5mm	GLS80	-
Incl. cover with sealing and hole						
11051030	GS 15KL08	30/100	35ml	2.8mm	GL25	8mm hole
11051031	GS 15KL12	30/100	35ml	2.8mm	GL25	12mm hole
11051040	GS 25KL12	54/150	150ml	3.5mm	GL45	12mm hole
11051041	GS 25KL20	54/150	150ml	3.5mm	GL45	20mm hole
11051050	GS 40KL20	80/200	500ml	3.5mm	GL45	20mm hole
11051051	GS 40KL26	80/200	500ml	3.5mm	GL45	26mm hole
11051060	GS 50KL20	90/250	1000ml	3.5mm	GLS80	20mm hole
11051061	GS 50KL26	90/250	1000ml	3.5mm	GLS80	26mm hole
11051070	GS 60KL20	100/300	1300ml	3.5mm	GLS80	20mm hole
11051071	GS 60KL26	100/300	1300ml	3.5mm	GLS80	26mm hole



CYLINDRICAL-SHAPED STAINLESS STEEL VESSEL

Sales No.	Product	Ø/H (mm)	Process volume	Thickness	Weight	Description
With hook grips						
11052001	GS100-1	105/150	1000ml	1.0mm	412g	-
11052002	GS100-2	135/170	2000ml	1.2mm	580g	-
11052003	GS100-3	165/180	3000ml	1.2mm	725g	-
11052004	GS100-4	185/185	4000ml	1.2mm	872g	-
11052005	GS100-5	185/225	5000ml	1.2mm	998g	-
11052006	GS100-6	185/265	6000ml	2.0mm	1122g	-
11052008	GS100-8	210/270	8000ml	2.0mm	1350g	-
11052010	GS100-10	230/280	10000ml	2.0mm	1550g	-
With hook grips and a cover with a drop handle						
11052101	GS100-1.C	105/150	1000ml	1.0mm	495g	-
11052102	GS100-2.C	135/170	2000ml	1.2mm	720g	-
11052103	GS100-3.C	165/180	3000ml	1.2mm	905g	-
11052104	GS100-4.C	185/185	4000ml	1.2mm	1099g	-
11052105	GS100-5.C	185/225	5000ml	1.2mm	1225g	-
11052106	GS100-6.C	185/265	6000ml	2.0mm	1349g	-
11052108	GS100-8.C	210/270	8000ml	2.0mm	1671g	-
11052110	GS100-10.C	230/280	10000ml	2.0mm	1922g	-
With hook grips, equipped with a baffles part inset and a cover with a drop handle						
11052201	GS100-1.C.B.	105/150	1000ml	1.0mm	-	-
11052202	GS100-2.C.B.	135/170	2000ml	1.2mm	-	-
11052203	GS100-3.C.B.	165/180	3000ml	1.2mm	-	-
11052204	GS100-4.C.B.	185/185	4000ml	1.2mm	-	-
11052205	GS100-5.C.B.	185/225	5000ml	1.2mm	-	-
11052206	GS100-6.C.B.	185/265	6000ml	2.0mm	-	-
11052208	GS100-8.C.B.	210/270	8000ml	2.0mm	-	-
11052210	GS100-10.C.B.	230/280	10000ml	2.0mm	-	-





Our mission. Your solution.

Homogenizing perfected: for every industry.

Kinematica's broad portfolio of solutions can address almost every dispersing application for the pharmaceutical, cosmetic, chemical, food and life science industry. Innovative powder-induction systems, solutions for completely sterile environments, or fully-compliant ATEX architecture are just some examples of the broad portfolio that Kinematica can offer with true scalability from pilot-plant to large plant configurations.

Our state-of-the-art technology, in addition to a professional consulting and engineering suite of services, can address a variety of processes such as blending / mixing / stirring, emulsifying, deagglomerating, foaming, crushing and homogenizing with particle size reduction from a few micrometers down to nanometers in size: the proprietary design and innovative geometry of our aggregates / generators can downsize and provide perfect statistical particle distribution for the finest emulsions / suspensions and foam dispersions.



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PHARMA



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