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MS-DIN

These measuring systems are compatible with all instruments in the LAMY RHEOLOGY range except CP 1000/CP 2000 device, GT-300 PLUS and GT-300 PRODIG models.

These measuring systems are compatible with our temperature controls EVA DIN, EVA 100 and RT1 and water jacket CT-DIN and CT-LC.

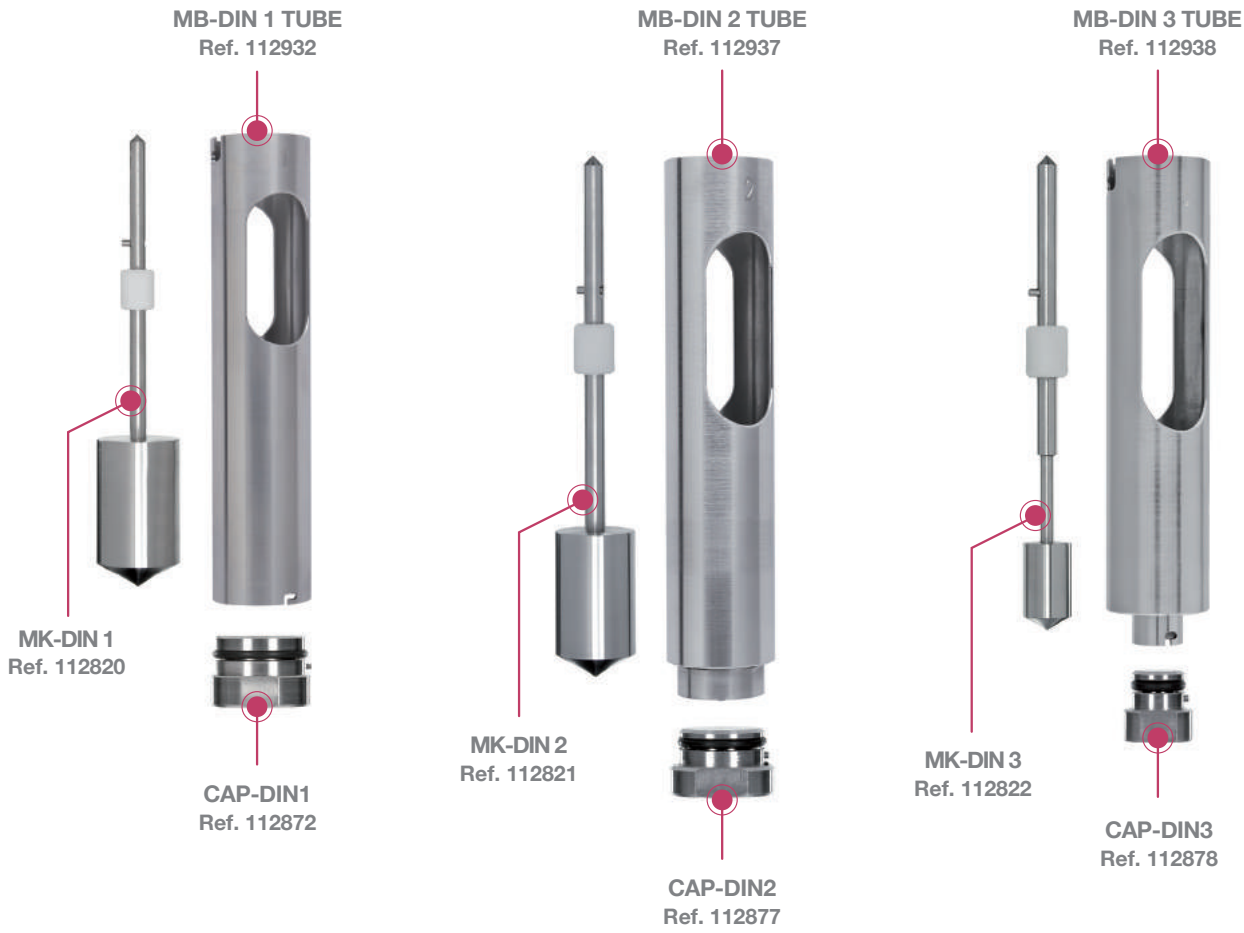
Name	Reference	
MK - DIN 1	112820	
MK – DIN 2	112821	
MK - DIN 3	112822	
MK – DIN 9	111875	
MB-DIN 1 Tube	112932	
MB-DIN 2 Tube	112937	
MB-DIN 3 Tube	112938	
CAP-DIN 1	112872	
CAP-DIN 2	112877	
CAP-DIN 3	112878	
CAP-DIN 1 Mooney	112874	
ST-R centring tool	114436	
MB-DIN 1 S Tube	112933	
MB-DIN 2 S Tube	112948	
MB-DIN 3 S Tube	112944	

MS-DIN

DIN 11 measuring system
Ref. 112801

DIN 22 measuring system
Ref. 112804

DIN 33 measuring system
Ref. 112805



MEASURING SYSTEMS WITH BAYONET COUPLING

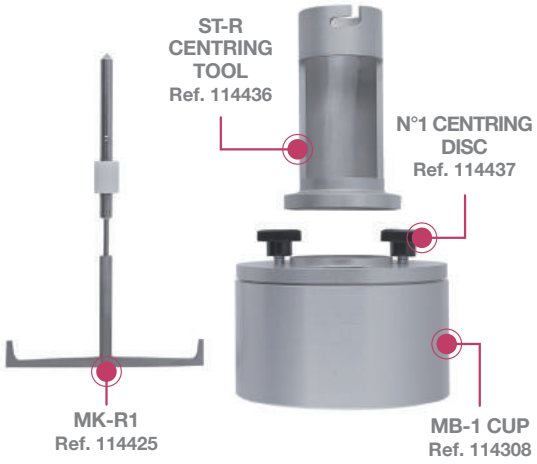
Measuring system *		Spindle	Cup	Cap	Volume (ml)	Shear rate (s-1)**	Viscosity range in mPa.s		
Designation	Reference	Designation	Designation	Designation			Instrument LR**	B-ONE and FIRST**	RM100/200 and DSR500**
MS DIN 11	112801	MK-DIN1	MB-DIN1	CAP-DIN1	27	1,29N	2,5 to 27K	25 to 0.44M	3 to 1M
MS DIN 11S***	112809	MK-DIN1	MB-DIN1S	CAP-DIN1	27	1,29N	2,5 to 27K	25 to 0.44M	3 to 1M
MS DIN 12	112802	MK-DIN2	MB-DIN1	CAP-DIN1	46	0,35N	11 to 145K	110 to 2.3M	18 to 5.5M
MS DIN 13	112803	MK-DIN3	MB-DIN1	CAP-DIN1	61	0,15N	92 to 510K	920 to 8.3M	146 to 19M
MS DIN 13S***	112808	MK-DIN3	MB-DIN1S	CAP-DIN1	22	0,15N	93 to 510K	920 to 8.3M	146 to 19M
MS DIN 19	112806	MK-DIN9	MB-DIN1	CAP-DIN1	25	3,22N	0,8 to 10K	8 to 0.17M	1 to 0.39M
MS DIN 22	112804	MK-DIN2	MB-DIN2	CAP-DIN2	22	1,29N	4 to 53K	40 to 0.86M	7 to 2M
MS DIN 22S***	112815	MK-DIN2	MB-DIN2S	CAP-DIN2	22	1,29N	5 to 53K	40 to 0.86M	7 to 2M
MS DIN 33	112805	MK DIN3	MB-DIN3	CAP-DIN3	14	1,29N	20 to 265K	200 to 4.3M	34 to 10M
MS DIN 33S***	112814	MK DIN3	MB-DIN3S	CAP-DIN3	14	1,29N	20 to 265K	200 to 4.3M	34 to 10M
MS DIN 11M	112812	MK-DIN1	MB-DIN1	CAP-MOONEY	23	1,29N	2,5 to 27K	21 to 0.44M	3 to 1M
MS DIN 19M	112811	MK-DIN9	MB-DIN1	CAP-MOONEY	18,5	3,22N	0,8 to 10K	8 to 0.17M	1 to 0.39M
MS DIN 23	112816	MK-DIN3	MB-DIN2	CAP-DIN2	36	0,19N	81 to 1M	810 to 17M	139 to 41M

*M for million, K for thousand, N for rotational speed (rpm) / * Complete measuring system with spindle, cup and cap. / ** These values are given when complete system is used. / *** Include centring tool ST-R (Ref. 114436).*

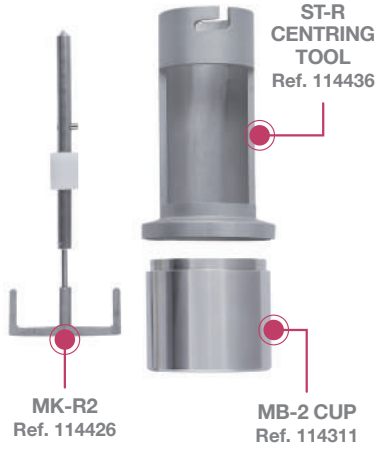
MS-R

Anchor-type measuring systems (316L stainless steel).
These systems are ideally suited for measuring viscosity (value or curve) in the control or development of heterogeneous products, or having the appearance of soft solid at rest, present in cosmetics, paint, food or mineral chemistry industries.
Used with their respective buckets, they allow to apply a shear rate.
These systems are compatible with RM 100 PLUS, RM 200 PLUS and DSR 500.
These systems are compatible with our EVA DIN-MS-R PLUS and EVA MS-R PLUS temperature controls.

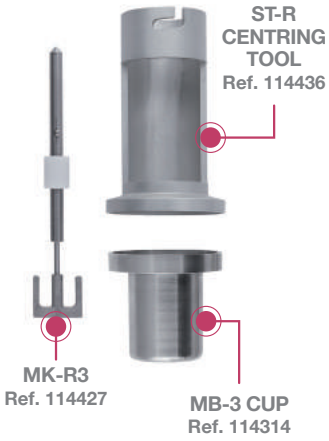
MS-R 1 measuring system
Ref. 114500



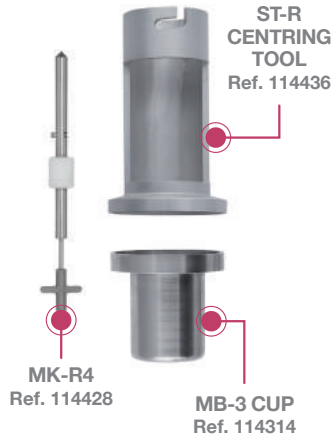
MS-R2 measuring system
Ref. 114501



MS-R3 measuring system
Ref. 114502



MS-R4 measuring system
Ref. 114503



MEASURING SYSTEMS WITH BAYONETTE COUPLING

System Designation	System Reference	Complete set**** Reference		Diameter (mm)		Product Volume (ml)	Shear rate range for RM100-200-DSR500 (s-1)	Viscosity range for RM100-200 (mPa.s)
				inner	outer			
MS-R1***	114500*	111949	111950	93	98	300	200 rpm	1 to 40 UD
MS-R2	114501*			46	54	70	0.105 to 525	12 to 3.6M
MS-R3	114502*			23	36	25	0.09 to 450	72 to 21.6M
MS-R4	114503*			20	36	25	0.075 to 375	400 to 120M
MK-R5	114429**			5			0.03 to 150	1.5K to 475M

*M for millions, K for thousand. / * Complete system (bob+cup+centring tool). / ** Only spindle. Can be use with cup MB2 (Ref. 114311) and MB3 (Ref. 114314). / *** Can be used only at 200 rpm and UD result. / **** Complete set in case with cup and centring tool. / All data given in this table are given for information and can be changed according container used for measurement.*

MS-RV / MS-LV

Measuring spindles according to ASTM / ISO 2555 (316L stainless steel).
These systems are ideally suited for simple viscosity measurement at controlled rotational speed in all areas of activity. The standard recommends use of 600ml beaker for measurement.

Name	Reference	Dimensions (mm)	
LV-1 spindle	111010	Ø 18.80 - L 65,1	
LV-2 spindle	111011	Ø 18,72 - L 6,86	
LV-3 spindle	111012	Ø 12,60 - L 1,78	
LV-4 spindle	111013	Ø 3,20 - L 31	
Axis R 1-6 without disc	111000	Threaded axis	
RV-1 Disc	111001	Ø 56,26	
RV-2 Disc	111002	Ø 46,93	
RV-3 Disc	111003	Ø 34,69	
RV-4 Disc	111004	Ø 27,30	
RV-5 Disc	111005	Ø 21,14	
RV-6 Disc	111006	Ø 14,62	
RV-7 Spindle	111007	Ø 3,20	
Axis L-R	111008	Adaptation axis	Adaptor for Brookfield spindles 

SPINDLES WITH BAYONETTE COUPLING

				Viscosity range in mPa.s	
Spindle Designation	Spindle Reference	Complete set** Reference	Instrument LR	FIRST/B-ONE	RM100-200 and DSR500
RV1	111001*	111948	Not Usable	100 to 0.6M	50 to 1.4M
RV2	111002*	111947	200 to 0.14M	200 to 2.4M	100 to 5.5M
RV3	111003*		300 to 0.37M	300 to 6M	150 to 14M
RV4	111004*		400 to 0.74M	600 to 12M	200 to 28M
RV5	111005*		500 to 1.4M	1.2K to 24M	300 to 55M
RV6	111006*		1200 to 3.7M	2.8K to 60M	500 to 130M
RV7	111007		4500 to 15M	12K to 240M	2K to 550M
LV1	111010	111014	15 to 0.25M	200 to 4.3M	35 to 10M
LV2	111011		50 to 1.3M	1K to 20M	170 to 50M
LV3	111012		200 to 5M	4k to 82M	650 to 190M
LV4	111013		1000 to 22M	17K to 370M	3K to 860M

*M for millions, K for thousand / * Need additional axis (Ref. 111000). / ** Complete set (delivered with axis Ref. 111000 only for RV spindles).*

MS-BV

Measuring spindle for 150ml beaker (316L stainless steel).
These spindles are ideally suited for simple viscosity measurement at a rotating speed in control in all areas of activity. They are appreciated for their ease of use and the low volume of product needed compared to the MS RV/LV spindle.

These measuring spindles are compatible with instruments in LR version.
Compatible with EVA BV temperature control (price and item on demand).

	Name	Reference	Dimension (mm)
	BV 1-100 Axis	117102	-
	BV centring device	117202	-
	BV Disc n°1	117001	Ø 45
	BV Disc n°10	117010	Ø 40
	BV Disc n°100	117100	Ø 20
	BV 1000 Axis	117101	Ø 4
	150-ml glass beaker	117150	Ø 50-52
	MS TI Tube	118001	Ø 50

MEASURING SPINDLES WITH BAYONET COUPLING

Designation	Reference**	Complete Set*** reference	Viscosity range FIRST/B-ONE (mPa.s)	Viscosity range RM100/200/DSR 500 (mPa.s)
BV1	117001*	117000	15 to 0.25M	2 to 0.6M
BV10	117010*		100 to 2M	17 to 5.1M
BV100	117100*		1K to 22M	170 to 51M
BV1000	117101		10K to 220M	1.7K to 510M

*M for million, K for thousand / Use with glass beaker (Ref. 117150 for 10pcs) or plastic beaker (Ref. 117155 for 10 pcs). / * Require additional axis (Ref. 117102). / ** Require centring tool (Ref. 117202). / *** Complet Set in case with additional axis (Ref. 117102) and centring tool (Ref. 117202).*

MS-VANES

These systems are ideal for viscosity measurement (value or curve) in control or development of all types of products even very high viscosity with or without particles (size <5mm).
They can be used for direct measurement in user's containers or in tubes of MS-DIN systems.

4 blades VANES

6 Blades VANE

MEASURING SYSTEMS WITH BAYONET COUPLING

				Viscosity range in mPa.s		
Designation	**Reference**	**Diameter (mm)**	**Lenght (mm)**	**LR Device**	**B-ONE/FIRST**	**RM100/200 DSR500**
MK-V71	111114	34,39	68,78	1,4 to 18K	14 to 300K	2,4 to 700K
MK-V72**	120017	21,67	43,38	5,6 to 74K	56 to 1,2M	9,4 to 2,8M
MK-V73**	111108	12,67	25,35	28 to 370K	280 to 6M	46 to 13M
MK-V74**	111115	5,89	11,76	280 to 3,7M	2,8K to 60M	463 to 139M
MK-V75**	111111	8,026	16,05	111 to 1,4M	1,1K to 24M	185 to 55M
MK-V72/2**	111112	21,67	20	54 to 720K	540 to 11M	90 to 27M
MK-V72/4**	111113	21,67	10	80 to 1M	800 to 17M	133 to 40M
MK-V72-6P*	111121	21,67	43	30 to 400K	300 to 6,5M	50 to 15M
MK-VT105**	440105	5	10	430 to 5,8M	4,4K to 94M	726 to 218M
MK-VT2010**	442010	10	20	82 to 1M	820 to 17M	137 to 41M
MK-VT2020**	442020	20	20	12 to 150K	118 to 2,5M	20 to 5,9M
MK-VT3015**	443015	15	30	16 to 210K	160 to 3,4M	27 to 8M
MK-VT4020**	444020	20	40	7 to 90K	68 to 1,4M	11 to 3,4M
MK-VT4040	444040	40	40	1,5 to 19K	15 to 320K	2,5 to 740K
MK-VT5025**	445025	25	50	4 to 45K	34 to 730K	6 to 1,7M
MK-VT6015	446015	15	60	9 to 114K	86 to 1,8M	15 to 4,3M
MK-VT6030	446030	30	60	2 to 26K	20 to 433K	3,5 to 1M
MK-VT608	446008	8	60	30 to 400K	300 to 6,5M	50 to 15M
MK-VT8040	448040	40	80	1 to 11K	9 to 182K	2 to 420K
MK-VT8070	448070	70	80	0,5 to 3,2K	3 to 52K	1 to 120K

*M for million, K for thousand / * VANE 6 BLADES. / ** These items can be used with tube MB-DIN1 (Ref.112932).*

MS-KREBS

Krebs type measuring spindles compatible with ASTM D562 standard (316L stainless steel).
These systems are ideal for viscosity measurement in Krebs units in control of all types of products.
They can be used for direct measurement in user containers or in 600 or 150ml beakers.

Name	Reference	Dimension (mm)	
MK-KU 1-10	**111100**	**L. 54,11**	
MK-75Y	**111103**	**L. 34,58**	

MS-CHOCOLAT

Coaxial cylinder measuring system compatible with OICCC standard (316L stainless steel).
These measuring spindle measure viscosity and flow limit of chocolates according to Casson regressions models as recommended in OICCC standards.
These measuring systems are compatible with our EVA DIN, EVA 100 temperature controls and our water jacket CT-DIN and CT-LC.

	Name	Reference	Dimension (mm)
	MK-C	116002	Ø 13,60
	C Tube with insert	116001	Ø 20
	DIN 1 Tube	112932	Ø 32,50
	C Insert	116004	Ø 20
	Delrin cap	116005	-

MS-ULV

Measuring system for low viscosities usable with instruments LR version (Stainless steel 316L and Aluminium).
This system, unlike the MS-RV/LV or MS-DIN systems, makes it possible to measure low viscosity products in control by applying a shear rate. Its advantage is to be compatible with LR instruments.
This measuring system can be used with our temperature controls EVA DIN and RT1 and our water jackets CT-DIN and CT-LC (according to models, see table).

Name	Reference	Dimension (mm)	
MK-C19	116015P	Ø 19	
C Tube with insert	116001	Ø 20	
Delrin cap	116005	-	
C Insert	111934	-	
ST-R centring tool	114436	-	
MB-C Alu Cup	114306	Ø 20	

MEASURING SYSTEMS WITH BAYONET COUPLING FOR LR DEVICE

Designation	Reference	Included					Volume (ml)	Shear rate range (s-1)	Viscosity range (mPa.s)
		Spindle	Cup	Holder	Cap	Tool			
MS-ULV*	116030	116015P	116001		116005		11	1 to 510	1 to 26K(LR) 33 to 750K(HR)
MS-ULV/D**	116031	116015P	114306	111394		114436	11		

*K for thousand / * Not compatible with oven RT1. Can be used without temperature unit. / ** Include 100 disposable cup (Ref. 114306). Must be used with temperature unit or water jacket.*

MS-SV

Measuring systems for low volumes (316L stainless steel or aluminium).
These systems make it possible to measure products in small quantities by applying a shear rate at temperature up to +300°C (according to items, see table).
With RT1 and THERMOCELL package, these systems are compatible with ASTM D3236.
These measuring systems are compatibles with small volume package SVP65/180, water jacket CT-DIN/CT-LC, THERMOCELL package and our temperature controls EVA DIN and RT1.

Measuring cylinder MK-SV

Measuring chamber MB-SV13RC (Ref. 116214)

Disposable cup MB-SV13RD (Ref. 116413)

Holder H-SV13RD for disposable cup MB-SV13RD (Ref. 116313)

Measuring chamber MB-SV13R (Ref. 116213)

Centring tool ST-R (Ref. 114436)

Delrin cap, temperature maximum 80°C (Ref. 116215)

MEASURING SYSTEMS WITH BAYONET COUPLING

Measuring Cylinder		Compatible chamber****		Volume (ml)	Shear rate (s-1)	Viscosity range in mPa.s		
Designation	Reference	Designation	Reference			LR device	B-ONE/ FIRST	RM100/ RM200/ DSR500
MK-SV414*	116114	MB-SV6R*	116206	3	0,4N	44 to 5,8M	440 to 95M	73 to 219M
MK-SV415*	116115	MB-SV7R*	116207	4,4	0,48N	15 to 2M	155 to 33M	26 to 77M
MK-SV416*	116116	MB-SV8R*	116208	4,6	0,29N	39 to 5,2M	394 to 85M	66 to 197M
MK-SV418	116118	MB-SV13R MB-SV13RC** MB-SVD***	116213 116214 116513	7,5	1,32N	1 to 120K	9 to 1,9M	2 to 4,5M
MK-SV421	116121			8	0,93N	1 to 188K	14 to 3M	2 to 7M
MK-SV425	116125			10	0,22N	174 to 23M	1,7K to 377M	291 to 870M
MK-SV427	116127			12	0,34N	7 to 0,99M	75 to 16M	12 to 37M
MK-SV428	116128			13	0,28N	15 to 1,9M	147 to 31M	24 to 73M
MK-SV429	116129			13	0,25N	29 to 3,9M	294 to 63M	49 to 146M
MK-SV431	116131			11	0,34N	10 to 1,3M	100 to 21M	16 to 49M
MK-SV434	116134			11	0,28N	19 to 2,5M	194 to 41M	32 to 96M
MK-SVC	116002			13	0,43N	3 to 420K	32 to 6,8M	5 to 15M
MK-SVTR8	140008			8	0,92N	1 to 190K	14 to 3M	2 to 7M
MK-SVTR9	140009			12	0,34N	7 to 0,99M	75 to 16M	12 to 37M
MK-SVTR10	140010			13	0,28N	15 to 1,9M	146 to 31M	24 to 72M
MK-SVTR11	140011			13	0,25N	30 to 3,9M	300 to 64M	50 to 149M

*M for million, K for thousand, N for rotational speed (rpm). / * Not compatible with RT-1PLUS and THERMOCELL PACKAGE. / ** This cup can be used without centring tool ST-R. Need CAP (Ref. 116215). Temperature max 80°C. / *** This item include 100 disposable cup MB-SV13RD (Ref. 116413) and holder H-SVRD (Ref. 116313). / **** These items need centring tool ST-R (Ref. 114436 include with THERMOCELL and SVP65/180).*

MS-CP

Measuring systems compatible with DIN 53019 / ISO 3219 / ASTM D4278-D7395 (316L Stainless Steel).
These systems make it possible to set the shear rate in order to carry out viscosity measurements or to obtain curves to study flow behaviour, yield stress or thixotropy.
They are particularly suitable for measurements on very small quantities for control or development of homogeneous products with or without particles (size <100µm), guaranteeing easy cleaning.
AC 265 coupling guarantees rapid set-up of the measuring system, better maintenance and increased repeatability.
These measuring systems are compatible with FIRST PRODIG CP1000, RM100 CP10000 and RM100 CP2000.

MK-CP 40 mm AC 265

MK-CP 60 mm AC 265

MEASURING SYSTEMS FOR CP1000 AND CP2000 INSTRUMENTS

						Viscosity range in mPa.s	
Designation	**Reference**	**Diameter (mm)**	**Angle (°)**	**Volume (ml)**	**Shear rate (s-1)**	**FIRST PRODIG CP1000**	**RM100 CP1000 / CP2000**
MK-CP1005	265115	10	0,5	0,002	12N	640 to 130M	106 to 318M
MK-CP1020	265120	10	2	0,01	3N	2,5K to 550M	424 to 1270M
MK-CP1030	265130	10	3	0,01	2N	3,8K to 800M	637 to 1910M
MK-CP06	2651418	14,04	1,8	0,02	3,3N	840 to 180M	139 to 418M
MK-CP03	2651945	19,06	0,45	0,015	13,3N	85 to 18M	14 to 41M
MK-CP05	2651918	19,06	1,8	0,05	3,3N	335 to 72M	56 to 167M
MK-CP09	2651930	19,06	3	0,1	2N	550 to 119M	92 to 273M
MK-CP2005	265205	20	0,5	0,018	12N	80 to 17M	13 to 39M
MK-CP2015	265215	20	1,59	0,058	3,8N	250 to 54M	42 to 125M
MK-CP2020	265202	20	2	0,073	3N	320 to 68M	53 to 159M
MK-CP02	2652445	24	0,45	0,03	13,3N	42 to 9M	7 to 20M
MK-CP2405	265245	24	0,5	0,031	12N	46 to 10M	8 to 23M
MK-CP51Z	2652415	24	1,5	0,1	4N	140 to 29M	23 to 69M
MK-CP04	2652418	24	1,8	0,12	3,3N	170 to 36M	28 to 83M
MK-CP2420	265242	24	2	0,126	3N	190 to 39M	31 to 92M
MK-CP52Z	265243	24	3	0,2	2N	280 to 59M	46 to 138M
MK-CP01	265345	30,2	0,45	0,06	13,3N	20 to 4M	3 to 10M
MK-CP10	2653012	30,2	1,2	0,15	5N	60 to 12M	9 to 27M
MK-CP08	2653030	30,2	3	0,38	2N	140 to 30M	23 to 69M
MK-CP4005	265405	40	0,5	0,146	12N	10 to 2M	2 to 5M
MK-CP4010	265401	40	1	0,29	6N	20 to 4M	3 to 10M
MK-CP4015	265515	40	1,59	0,465	3,8N	32 to 7M	5 to 15M
MK-CP4020	265402	40	2	0,585	3N	40 to 8M	7 to 20M
MK-CP4040	265404	40	4	1,17	1,5N	80 to 17M	13 to 40M
MK-CP07	2654830	48	3	1,5	2N	35 to 7M	6 to 17M
MK-CP40Z	265488	48	0,8	0,4	7,5N	9 to 2M	2 to 4M
MK-CP42Z	2654815	48	1,5	0,76	4N	18 to 3M	3 to 8M
MK-CP41Z	265483	48	3	1,5	2N	35 to 7M	6 to 17M
MK-CP5005	265505	50	0,5	0,285	12N	5 to 1M	1 to 2M
MK-CP5020	265502	50	2	1,142	3N	21 to 4M	3 to 10M
MK-CP6005	265622	60	0,5	0,5	12N	3 to 0,6M	1 to 1M
MK-CP6010	265610	60	1	1	6N	6 to 1M	1 to 3M
MK-CP6020	265602	60	2	2	3N	12 to 2,5M	2 to 6M
MK-CP6030	265603	60	3	3	2N	18 to 3M	3 to 9M

M for million, K for thousand, N for rotational speed (rpm)

MS-CP

Measuring systems compatible with DIN 53019 / ISO 3219 / ASTM D4278-D7395 (316L Stainless Steel).
All cones-plate presented on this page present a truncation (50µm) compatible with our instruments with automatic lift.
They are particularly suitable for measurements on very small quantities for control or development of homogeneous products with or without particles (size <5µm for cone-plate), guaranteeing easy cleaning.
AC 265 coupling guarantees rapid set-up of the measuring system, better maintenance and increased repeatability.
These measuring systems are compatible with RM200 CP4000 and DSR500 CP4000.

MK-CP 20 mm AC 265

MK-CP 50 mm AC 265

MEASURING SYSTEMS FOR RM200/DSR500 CP4000 PLUS

Designation	Reference	Diameter (mm)	Angle (°)	Volume (ml)	Shear rate (s-1)	Viscosity range (mPa.s)
MK-CP1010	365101	10	1	0,005	6N	212 to 636M
MK-CP2005	365205	20	0,5	0,018	12N	13 to 39M
MK-CP2010	365210	20	1	0,04	6N	26 to 79M
MK-CP2020	365202	20	2	0,073	3N	53 to 159M
MK-CP2404	365244	24	0,45	0,03	13,3N	7 to 20M
MK-CP2405	365245	24	0,5	0,031	12N	8 to 23M
MK-CP3510	365351	35	1	0,2	6N	5 to 14M
MK-CP4005	365405	40	0,5	0,146	12N	2 to 5M
MK-CP4010	365401	40	1	0,29	6N	3 to 10M
MK-CP4020	365402	40	2	0,585	3N	7 to 20M
MK-CP4040	365404	40	4	1,17	1,5N	13 to 40M
MK-CP5005	365505	50	0,5	0,285	12N	1 to 2,4M
MK-CP5020	365502	50	2	1,142	3N	3 to 10M
MK-CP6010	365601	60	1	1	6N	1 to 3M
MK-CP6020	365602	60	2	2	3N	2 to 6M
MK-CP6050	365605	60	5	5	1,2N	5 to 15M
MK-PP20*	265020	20		0,314	1N	200 to 611M
MK-PP25*	265025	25		0,491	1,3N	83 to 248M
MK-PP28*	265028	28		0,616	1,5N	52 to 157M
MK-PP35*	265035	35		0,962	1,8N	22 to 65M
MK-PP40*	265040	40		0,63	4,2N	6 to 19M
MK-PP50*	265005	50		1	5,2N	3 to 7,8M

*M for million, K for thousand, N for rotational speed (rpm) / * Given values for gap 1mm*

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