OVERHEAD STIRRERS

ES

ES is the entry-level solution, ideal for low volumes and low/medium viscosity.

Electronic speed regulation: from 50 up to 1300 rpm Stirring volume (H₂O): up to 15 L Viscosity: up to 1,000 mPa*s

INSTRUMENT	POWER SUPPLY	CODE No
ES	80÷260 V / 50-60 Hz	F201A0152



LS

 $\ensuremath{\mathsf{LS}}$ offers reliable performance on medium viscosity and low volumes.

Electronic speed regulation: from 50 up to 2000 rpm Stirring volume (H $_2$ O): up to 25 L Viscosity: up to 10,000 mPa*s

INSTRUMENT	POWER SUPPLY	CODE No		
LS	80÷260 V / 50-60 Hz	F201A0151		



LH

LH offers excellent performance on medium viscosity liquids and medium volumes.

Electronic speed regulation: from 50 to 2000 rpm Stirring volume (H_2O): up to 40 L Viscosity: up to 50,000 mPa*s

INSTRUMENT	POWER SUPPLY	CODE No
	00.000 V / 50.00 U	5001 401 50
LH	80÷260 V / 50-60 Hz	F201A0156

PW

 $\ensuremath{\text{PW}}$ is suggested for $\ensuremath{\text{high viscosity}}$ and it is able to process $\ensuremath{\text{high volumes.}}$

Electronic speed regulation: from 20 to 1200 rpm Stirring volume (H_2O): up to 70 L Viscosity: up to 100,000 mPa*s

INSTRUMENT	POWER SUPPLY	CODE No		
PW	80÷260 V / 50-60 Hz	F201A0150		





DLH



The **DLS** is a digital overhead stirrer for medium viscosity liquids.

A bright and easy-to-read display shows current speed set speed, torque and time.

The digital timer offers the possibility of unattended operation.

Electronic speed regulation: from 50 up to 2000 rpm Stirring volume (H_2O): up to 25 L Viscosity: up to 25,000 mPa*s Counter-reaction: constant speed even when the viscosity changes

INSTRUMENT	POWER SUPPLY	CODE No		
DLS	80÷260 V / 50-60 Hz	F201A0155		



The **DLH** is a digital overhead stirrer for **medium viscosity** liquids.

A bright and easy-to-read display shows current speed set speed, torque and time.

The digital timer offers the possibility of unattended operation.

Electronic speed regulation: from 50 up to 2000 rpm Stirring volume (H₂O): up to 40 L Viscosity: up to 50,000 mPa*s Counter-reaction: constant speed even when the viscosity changes

INSTRUMENT	POWER SUPPLY	CODE No		
DLH	80÷260 V / 50-60 Hz	F201A0157		



VELP Scientifica offers a complete range of overhead stirrers with a technopolymer structure, ideal for premium resistance to acids, bases and solvents. **Many reliable solutions are available, according to different requirements in terms of viscosity and volume.** All the models are equipped with a **user-friendly self-locking chuck**, that simplifies assembly and the gentle start-up ensures **optimum progression of the stirring speed**. As always VELP Scientifica ensures the **most advanced safety standards**.

(j		STIRRING SPEED rpm		MAXIMUM VISCOSITY mPa*s	MAXIMUM TORQUE Ncm	MAX. SHAFT Ø THROUGH MEMBRANE mm	MAX. SHAFT Ø CHUCK mm	DIGITAL TIMER	COUNTER- REACTION	DIMENSIONS (WxHxD) mm (in)	WEIGHT Kg (lb)	POWER SUPPLY	POWER
_	ES	from 50 to 1300	up to 15	1,000	15	8.5	10			80x160x200 (3.1x6.3x7.9)	1.3 (2.8)	80 ÷ 260 V	30 W
_	LS	from 50 to 2000	up to 25	10,000	40	8.5	10			80x215x196 (3.1x8.5x7.7)	2.3 (5.0)	80 ÷ 260 V	120 W
_	DLS	from 50 to 2000	up to 25	25,000	40	8.5	10	•	•	80x215x196 (3.1x8.5x7.7)	2.5 (5.5)	80 ÷ 260 V	120 W
_	LH	from 50 to 2000	up to 40	50,000	80	8.5	10			80x230x196 (3.1x9.0x7.7)	2.9 (6.4)	80 ÷ 260 V	190 W
_	DLH	from 50 to 2000	up to 40	50,000	80	8.5	10	•	•	80x230x196 (3.1x9.0x7.7)	3.0 (6.6)	80 ÷ 260 V	190 W
	PW	from 20 to 1200	up to 70	100,000	120	8.5	10			80x230x196 (3.1x9.0x7.7)	2.9 (6.4)	80 ÷ 260 V	190 W

ES, LS, DLS, LH, DLH, PW ACCESSORIES



STIRRING SHAFTS

Stirring shaft with floating blades

Characteristics: The two blades that open as the speed rises generate an axial flow in the container, from the top towards the bottom. Particularly recommended for stirring in narrow-neck containers, e.g. flasks.



Code No A00001304

Stirring shaft with folding blade Code No A00001305 Characteristics: The blade that automatically falls into line during rotation generates an axial flow in the container, from the top towards the bottom. Particularly recommended for stirring in narrow-neck containers.

Stirring shaft with fixed blade

Code No A00001306

Characteristics: It generates an axial flow in the container, from the top towards the bottom. Employment: Use at medium-high speed for whirling light solids, for flocculations, mixing thickening agents, stirring sludge, etc.

Stirring shaft with propeller Code No A00001307 Characteristics: Standard stirring shaft. It generates an axial flow in the container with suction of the substance from the bottom towards

the top and localized occurence of shearing forces.



Code No A00001308 Stirring shaft with 6-hole paddle Characteristics: It generates a tangential flow with reduced turbulence and with gentle mixing of the product.



Stirring shaft with turbine blade Code No A00001309 Characteristics: It generates a radial flow with suction of the product from the top towards the bottom, with high turbulence and high shearing forces.



Stirring shaft with turbo propeller Code No A00001310

Characteristics: It generates an axial flow in the container with suction of the substance from the top towards the bottom with low shearing forces. Limited danger of any contact of the blade with the walls of the product's container.



Stirring shaft with anchor

Code No A00001311 Characteristics: It generates a tangential flow with high shearing forces on the ends. The flow generated limits the possibility of sedimentation on the walls of the container.



() DESCRIPTION	CODE No	BLADES NUMBER	BLADES Ø mm	SHAFT Ø mm	LENGHT SHAFT m		
		-					
Stirring shaft with floating blades, stainless ste	el A00001304	2	93	7	400	M-H	VL-L
Stirring shaft with folding blade, stainless steel	A00001305	1	60	7	400	M-H	VL-L
Stirring shaft with fixed blade, stainless steel	A00001306	1	50	7	400	M-H	VL-L-M
Stirring shaft with propeller, stainless steel	A00001307	3	60	7	400	M-H	VL-L-M
Stirring shaft with paddle,six holes, stainless s	teel A00001308	1	69	7	450	L-M	L-M
Stirring shaft with turbine, stainless steel	A00001309	10	49	7	450	M-H	M-H
Stirring shaft with turbo propeller, stainless ste	el A00001310	3	46	7	450	M-H	M-H
Stirring shaft with anchor, stainless steel	A00001311	2	45	8	450	L-M	M-H
Choosing the correct shaft Stirring shafts must be chosen	SPEED RANGE	rpm	VISCOSITY RANGE	mPa*s		VISCOSITY mPa*s	SUBSTANCE
bearing in mind the stirrer power, the volume of substances to be	Low (L)	< 250	Very low (VL)	0 – 100		1	Water
stirred and its viscosity. The	Medium (M)	250 - 800	Low (L)	100 - 1,00	00	5	Milk
technical features and the	High (H)	> 800	Medium (M)	1,000 – 10	,000	10	Kerosene
application fields of the stirring			High (H)	10,000 – 1	00,000	100	Lubricating oil
shafts are summarized in the						1,000	Castor oil, Glicerine
following tables:						7,000	Refined honey
						25,000	Chocolate syrup
						50,000	Ketchup
						100,000	Molasses