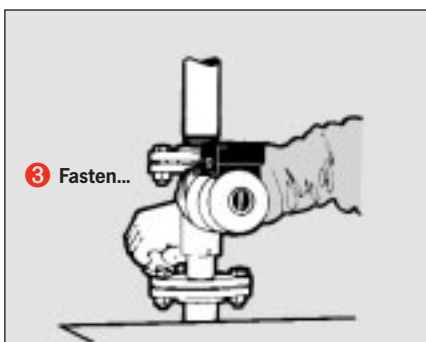
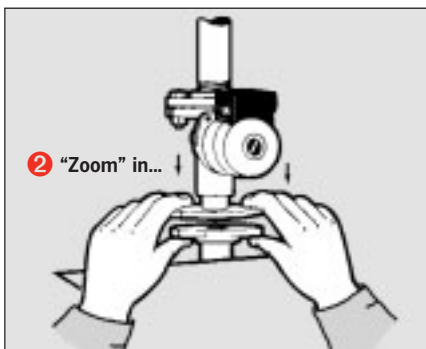
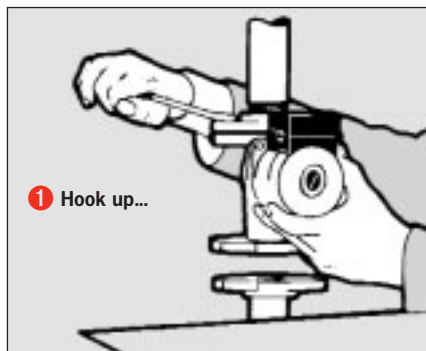
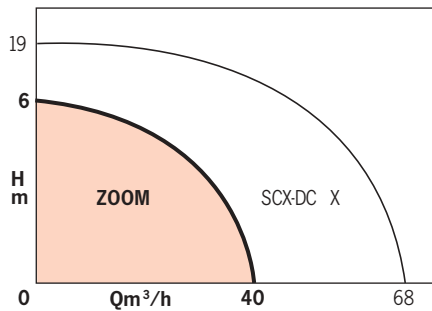


OPERATING LIMITS

Flow rates up to:	40 m ³ /h
Heads up to:	6 m
Max. operating pressure:	6/10 bar
Temperature range:	+ 1° to 110°C*
Max. ambient temperature:	+ 40°C
ND of ports:	25 to 65

* - 20° to + 120°C: ZOOM 300 L and 300 NB
 - 20° to + 130°C: ZOOM 320 C.



ZOOM

CIRCULATORS WITH TELESCOPIC FLANGE

Replacement market 50 Hz

APPLICATIONS

- Accelerated circulation in loops such as:
 - individual and commercial heating,
 - air conditioning,
 - heating in greenhouses, swimming pools.
- Line of circulators specially designed for the **replacement market**.



• ZOOM 225 NXL

ZOOM

ADVANTAGES

- All circulators can be replaced without having to modify the piping.
- Easy, speedy and a esthetic replacement.
- Considerable time saved on assembly.
- Perfect seal between casing and telescopic flange.
- Shaft-rotor cannot stick because of high starting torque.
- Flexible speed adjustment accurately adapts the circulator to the head losses of the installation.

DESIGN

• Pump

Flanged casing for direct mounting on pipe. Telescopic flange (corrosion-proof surface treatment) allowing variable height between flanges

Seal between telescopic flange and casing by special gasket.

ZOOM 320 C with hydraulic speed controller.

• Motor

Multispeed (ZOOM 320 C single-speed), with manual selection by switch, or jumpers on ZOOM 300 NB.

Wet rotor and sleeve-bearings self-lubricated by the pumped liquid.

Rotor chamber protected by sintered bronze filter.

Manual bleed at started up.

Speed : see table

Winding: 1-ph : 230 V
3-ph : 230-400 V

Frequency : 50 Hz

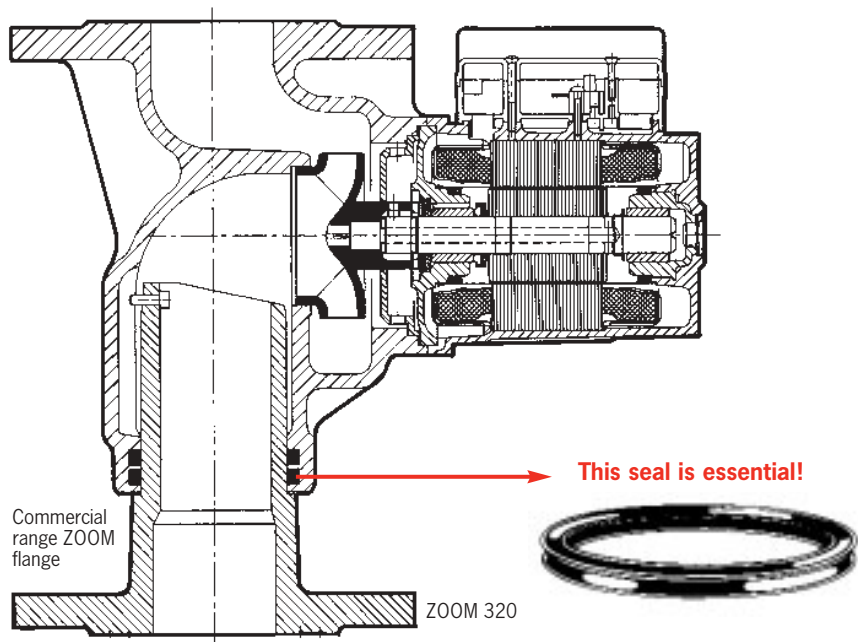
Insulation category : F (155°C)

Conformity : NF EN
60.335.2.51
& PR EN 809

STANDARD CONSTRUCTION

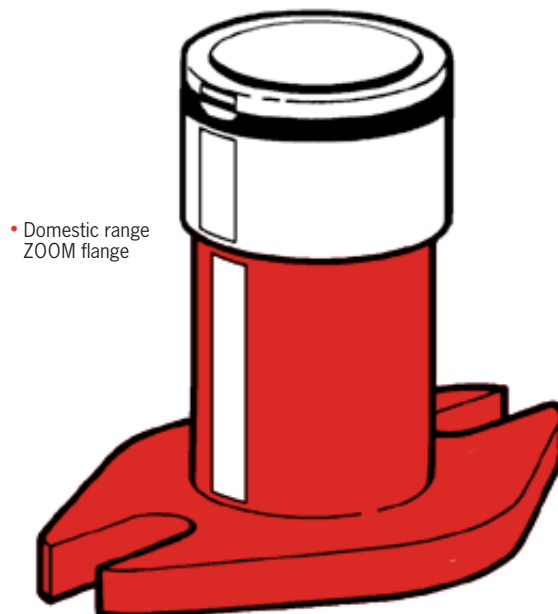
Main parts	Material
Pump casing	Cast iron
Impeller	Composite mat.
Shaft	Stainless steel
Impeller seal ring	Stainless steel
Sleeve bearings	Graphite
Motor can	Stainless steel
Seals	Ethyl.-Propylene

HIGH QUALITY DESIGN



This is a "QUADRI" seal: one of the reasons why ZOOM is so popular with installers.

Each of its faces has two lips whose clearance provides a **complete seal** with **absolute security**.



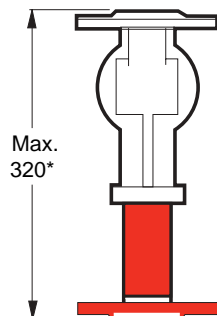
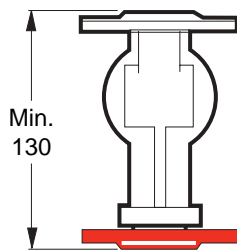
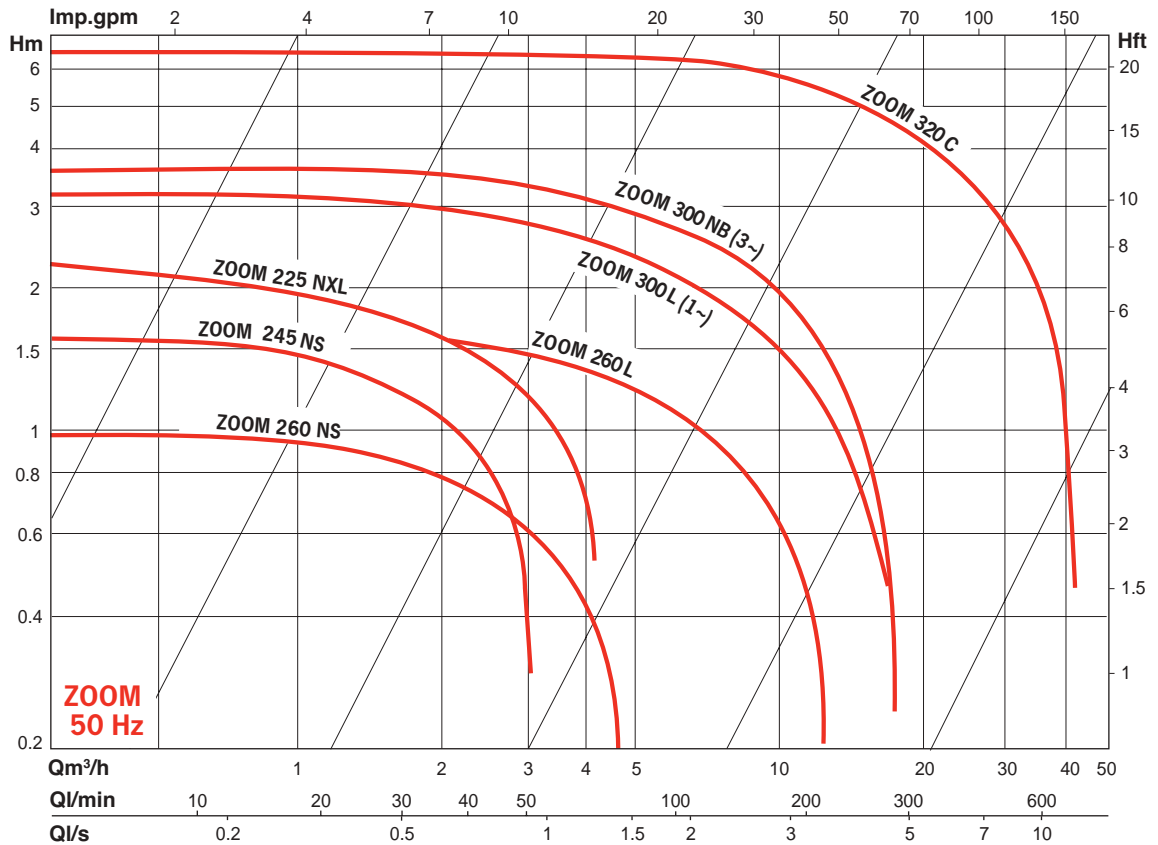
The telescopic flange is specially treated to eliminate all risks of corrosion.

As an expansion flange, it absorbs the micro-shifts, shrinking or expansion of the installation.

ZOOM: THE ALL-PURPOSE SOLUTION TO REPLACE A DEFECTIVE CIRCULATOR

- No installation modification.
- No need for adjustment shims (except ZOOM 320 C).
- No sawing, no "do-it-yourself" of any kind, neither on the piping or on the circulator.

PRESELECTION GRAPH AT MAXIMUM SPEED



THE LINE OF CIRCULATORS TO MEET ALL NEEDS

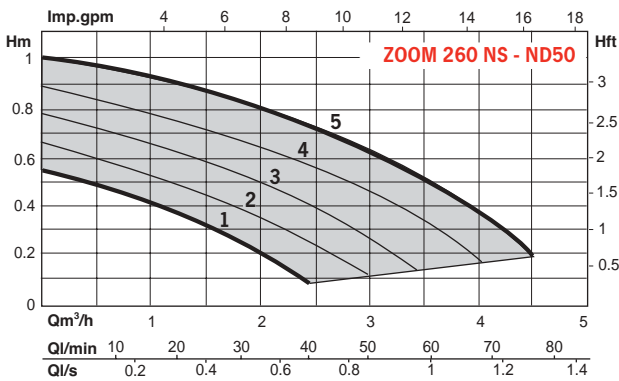
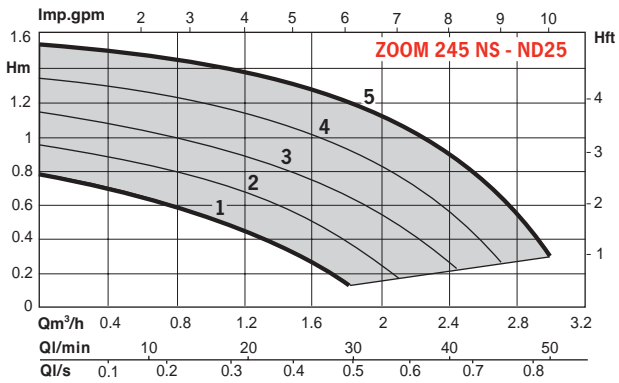
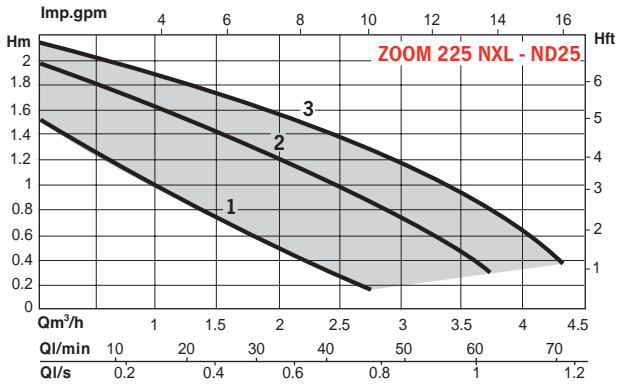
TYPE	SPEED	POWER SUPPLY	DIST. BETWEEN FLANGES	FLANGES
		50 Hz	VARIABLE DE	
ZOOM 225 NXL	3	1-PHASE 230 V	130 to 225 mm	oval
ZOOM 245 NS	multi	1-PHASE 230 V	150 to 245 mm	oval
ZOOM 260 NS	multi	1-PHASE 230 V	210 to 260 mm	round
ZOOM 260 L	3	1-PHASE 230 V	210 to 260 mm	round
ZOOM 300 L	3	1-PHASE 230 V	250 to 300 mm	round
ZOOM 300 NB	2	3-PHASE 230 V or 400 V	250 to 300 mm	round
ZOOM 320 C	1*	3-PHASE 230-400 V	280 to 320 mm	round

* With hydraulic flow/pressure controller.

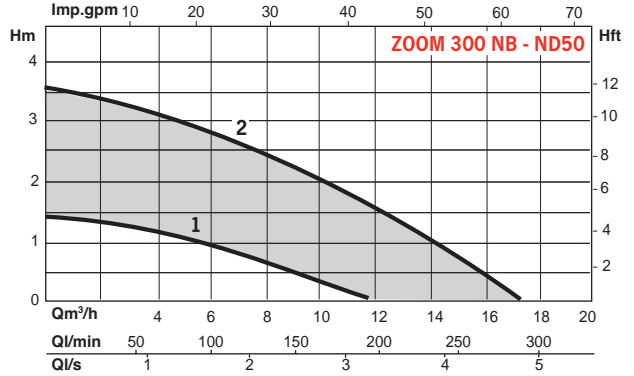
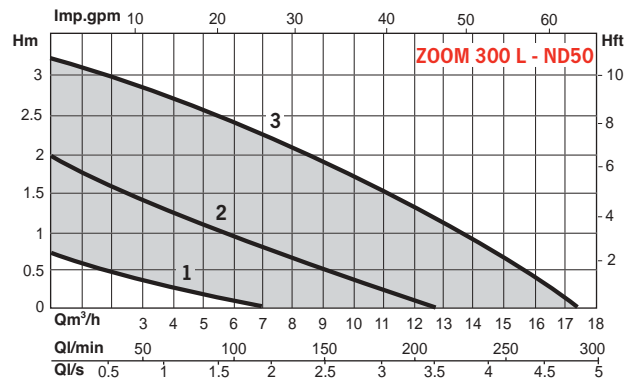
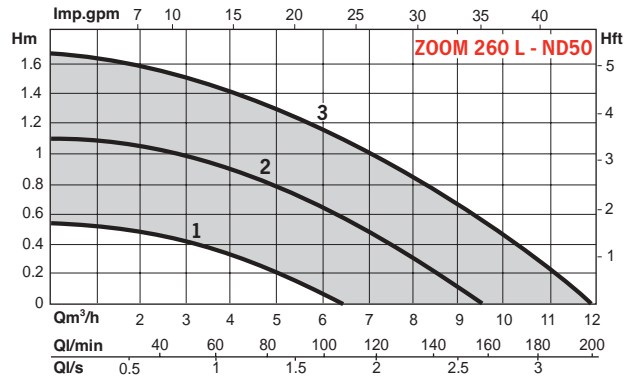
NOTE: the ZOOM 225 and 245 offer a choice of two telescopic flanges to cover all replacement cases from 130 to 245 mm (see following pages).

ZOOM

DOMESTIC RANGE CIRCULATORS



COMMERCIAL RANGE CIRCULATORS

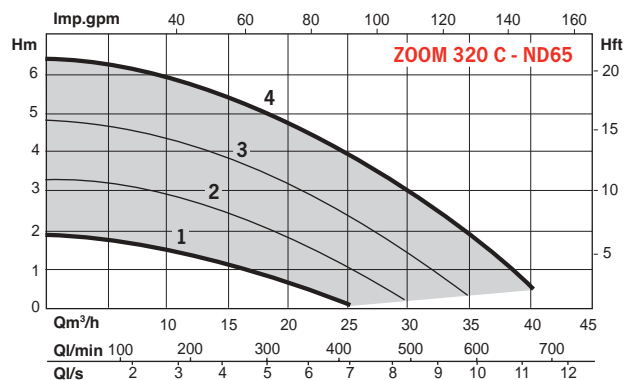


MINIMUM SUCTION PRESSURES ACCORDING TO OPERATING TEMPERATURE

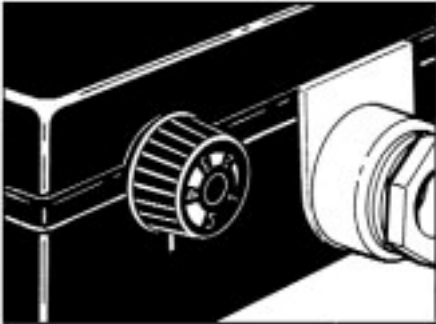
TYPE	82°C	95°C	110°C
ZOOM 225 NXL	1.5 m w.g.	3 m w.g.	10 m w.g.
ZOOM 245 NS	3 m w.g.	6 m w.g.	13 m w.g.
ZOOM 260 NS	3 m w.g.	6 m w.g.	13 m w.g.
ZOOM 260 L	1.5 m w.g.	3 m w.g.	10 m w.g.
ZOOM 300 L	3 m w.g.	6 m w.g.	13 m w.g.
ZOOM 300 NB	3 m w.g.	6 m w.g.	13 m w.g.
ZOOM 320 C	9 m w.g.	12 m w.g.	17 m w.g.

10.2 m w.g. = 1 bar

To avoid sleeve bearing damage and the risks of cavitation of the pump, it is essential to observe the minimum pressures stated above.



SPECIAL TECHNICAL SPECIFICATIONS



ZOOM 245 and 260 NS

The only circulators on the market with SAMSONIC electronic speed variator.

Flexible speed adjustment and better adaptation to characteristics whatever the type of installation.

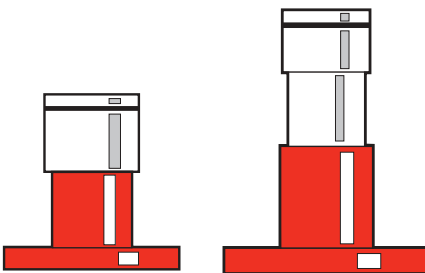
NOTE

The numbers 1 to 5 on the speed controller and on the hydraulic curves serve merely to indicate intermediate settings in the hydraulic range; values between these marked positions can be used to match the circulator to the needs of the installation.

TELESCOPIC FLANGES

M 76

M 126



ZOOM 225 and 245

The ZOOM 225 and 245 domestic range circulators are delivered without the telescopic flange, which is packaged separately and not included in the price of the ZOOM.

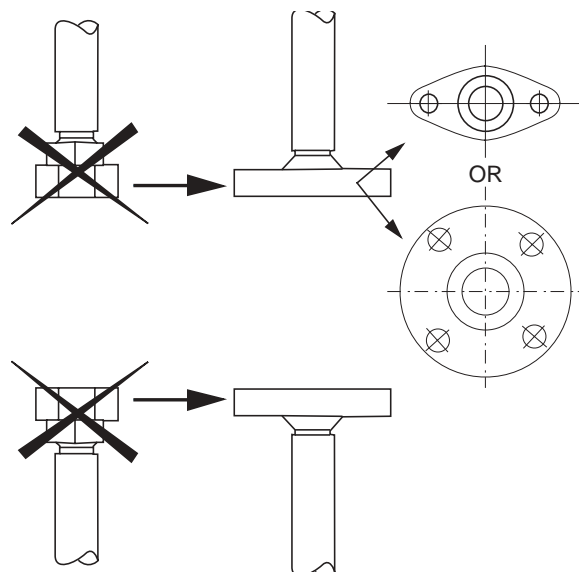
We propose a choice of two telescopic flanges, M 76 and M 126, to cover all

replacement cases up to 245 mm between flanges.

When ordering, take care to specify the telescopic flange, M 76 or M 126, corresponding to the desired height between flanges.

TYPE	M76 flange		M126 flange	
	height between flanges adjustable from			
	H mini	H maxi	H mini	H maxi
ZOOM225NXL	130	175	180	225
ZOOM245NS	150	195	200	245

REPLACEMENT

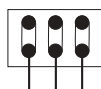
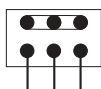


ZOOM 300 NB

Three-phase motor, 230 V (T2) or 400 V (T4), speed 1 or 2 selected by changing links on terminal box.

SPEED 1

SPEED 2



THREE-PHASE THREE-PHASE

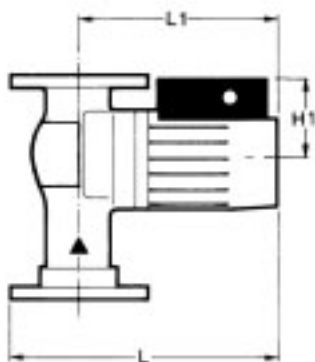
ZOOM 320 C

PLUG-IN SPEED SELECTOR coupled to operating voltage

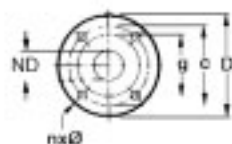
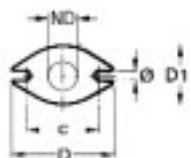
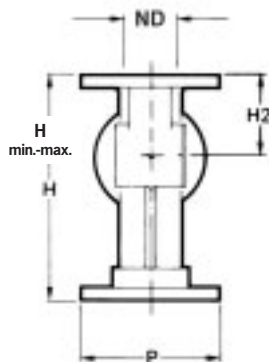


If the circulator on the previous installation is fitted with unions, these must be replaced by screw-on oval counter-flanges, or screw-on or welded round flanges (not included).

ELECTRICAL DATA AND DIMENSIONS



Suction-discharge flanges



ND	PN	D	D1	c	g	n x Ø
		mm	mm	mm	mm	mm
25	6	130	90	80	-	2x14 grooves
50	6/10	165	-	106/122	102	4x16/18 oblong
65	6/10	190	-	139	122	4x24 round

CONNECTION POSSIBILITIES

Type	connection to counter-flanges (not included)
ZOOM 225 NXL	CBOV - PN6 - 2634 or 3342 or 4049 or 5060
ZOOM 245 NS	
ZOOM 260 NS	PN6 → CB 5060 or 6676 PN10 → CB 4049 or 5060
ZOOM 260 L	
ZOOM 300 L	
ZOOM 300 NB	PN6 → CB 6676 or 8289 PN10 → CB 6676
ZOOM 320 C	

FEATURES

a) Electrical data

- Motor protected by circuit breaker not necessary for single-phase motors, mandatory for three-phase motors.
- Connection to terminal box via cable gland.

b) Installation

- Motor shaft always horizontal.
- Connection to the installation:
 - On oval PN6 or round PN6/PN10 counterflanges. For installations with unions, they must be replaced by counter-flanges.

c) Packaging

- Supplied with gaskets and bolts, but without counter-flanges (optional).

d) Maintenance

- ZOOM domestic range: standard exchange of the entire circulator.
- ZOOM commercial range: exchange of the motor and pump unit (in kit form).

RECOMMENDED ACCESSORIES

- PN6 screw-on oval counter-flanges.
- PN6-PN10 screw-on or welded round counter-flanges.
- Isolating valves.
- Unsticking plug to facilitate unsticking of shaft without removing plug (except ZOOM 320 C).
- Protection circuit-breaker for three-phase motor

* See table of telescopic flanges

ORDER REFERENCE	50 Hz motor power supply	motor P2	capacitor (built-in)	speed		power input P1 max.	full load current	H mini	H maxi	L	P	L1	H1	H2	flanges type	approx. mass	REPLACEMENT HYDRAUL. MOTOR KIT ORDER REFERENCE		
				setting	rpm													W	A
ZOOM 225 NXL	1 x 230 V	12	2 x 400 V	1	2000	33	0.16	130	175*	190	130	145	66	43	oval	25	3.8	—	—
				2	2450	47	0.23	or											
				3	2700	73	0.33	180	225*										
ZOOM 245 NS	1 x 230 V	15	2.5 x 400 V	1 MNI.	1000	60	0.27	150	195*	239	130	194	91	72	oval	25	4.2	—	—
				5 MAX.	1300	100	0.42	200	or 245*										
ZOOM 260 NS	1 x 230 V	15	2.5 x 400 V	1 MNI.	1000	55	0.27	210	260	287	165	204	91	87	round	50	12	—	—
				5 MAX.	1300	100	0.42												
ZOOM 260 L	1 x 230 V	50	2.5 x 400 V	1	1000	50	0.24	210	260	287	165	204	91	87	round	50	12.5	—	—
				2	1550	80	0.38												
				112	0.49														
ZOOM 300 L	1 x 230 V	80	5 x 400 V	1	1100	90	0.45	250	300	304	165	221	91	87	round	50	13.3	PHR 38	M80-2-L
				2	1750	150	0.70												
				3	2300	198	0.90												
ZOOM 300 NB-T2	3 x 230 V	80	—	1	1750	110	0.32	250	300	302	165	219	90	87	round	50	13.3	PHR 38	—
ZOOM 300 NB-T4	3 x 400 V	—	—	2	2450	230	0.88												
ZOOM 320 C	3 x 230 V	750	—	1	1750	110	0.18	280	320	456	224	361	125	140	round	65	37.5	PHE 21	MA750-4
				2	2450	230	0.51												
	3 x 400 V	—	—	—	1450	835	4.20												
							3.00												