

OPERATING LIMITS

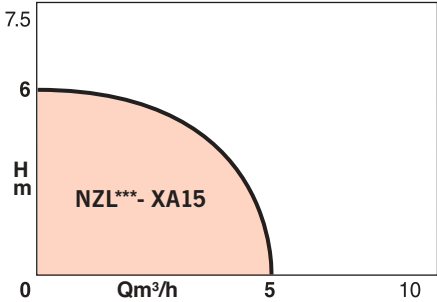
Flow rates up to:	5 m ³ /h
Heads up to:	6 m
Max. operating pressure:	10 bar
Temperature range:	+ 1° to 110°C
Max. ambient temperature:	+ 40°C

* - 10° for the NZL***

NZL ★★ ★ - XA15

DOMESTIC HEATING CIRCULATORS

For specific needs
50 Hz



APPLICATIONS

Accelerated hot water circulation in open or closed heating circuits.

- Private houses.
- Greenhouses, etc.

These circulators are particularly well adapted to the replacement market.



• NZL***13-40: 120 mm port to port, low noise level



• XA15 NS: 158 mm port to port; 4 pole motor at slow speed = increased service life



• NZL***33-40: 120 mm port to port, low noise level

NZL ★★ - XA15

ADVANTAGES

- Intrinsically-safe motors against overloads, circuit breaker not essential.
- Multispeed, for better adaptation to all types of installation.
- Impeller shaft does stick due to high start-up couple.
- Optimum range of hydraulic features.
- Silent operation.
- Maintenance-free.

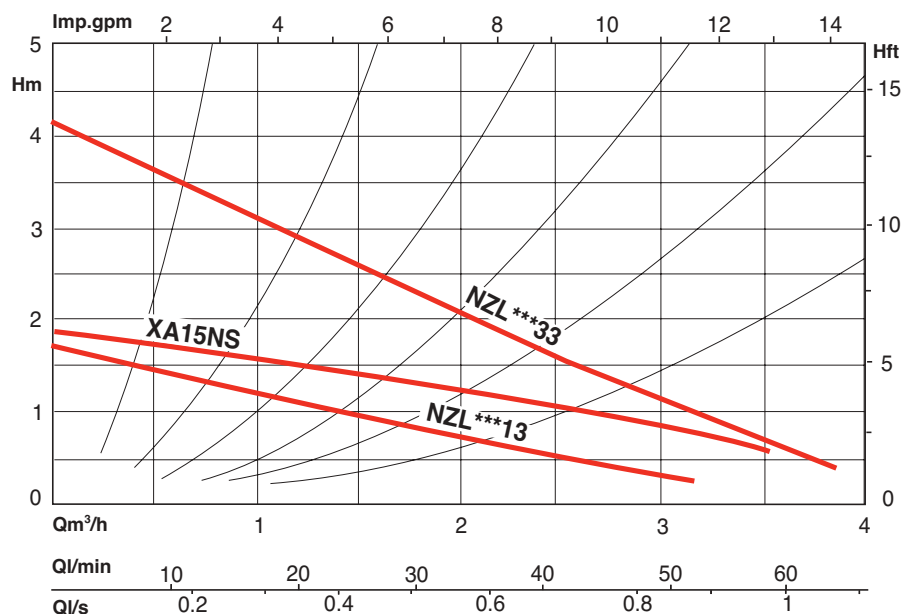
> XA15 NS

- 4 pole slow speed motor increases circulator service life. Fitted with a SALMSONIC variator.

> NZL***

- Hydraulics especially well adapted to installations with low speed liquid circulation.

PRESELECTION CURVE AT MAXIMUM SPEED



DESIGN

• Hydraulic part

Casing with flanges for direct assembly on piping.
Rotating parts in contact with water in anti-corrosive material.
Stainless steel suction ring and end-shield with bronze filter.

• Motors

3-speed and multispeed with manual selector.
Wet rotor, self-lubricated bushings by the liquid pumped.
Rotor chamber protected by sinterbronze filter.

Manual venting at commissioning.

Speed : See table
Winding 1-phase : 230 V
Frequency : 50 Hz
(option 60 Hz)

Insulating category : F (155°C)

Protection index : IP 42

Conformity : EN 61000-6-2

: EN 61000-6-3

: CE

TF110 or TF95 : Depending on models

Approvals : VDE - IMQ

• NZL***13-40



• NZL***33-40



RANGE

type	speed number	between flanges mm	connec- tion
XA15NS	multi	158	CF
NZL***13	3	120	CF
NZL***33	3	120	CF

• XA15NS



STANDARD CONSTRUCTION

Main parts	Material
Pump casing	GG20 cast iron
Impeller	Composite material
Shaft-sleeve can	X40 Cr 13 st. steel
Suction ring	Stainless steel
Bushings	Graphite
Leaktight seals	Ethylene Propylene

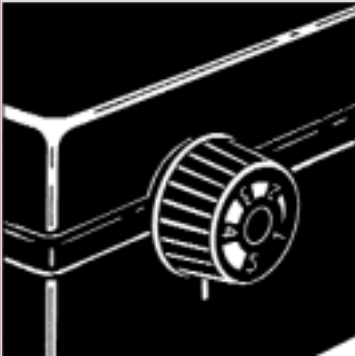
MINIMUM SUCTION PRESSURES DEPENDING ON OPERATING TEMPERATURES

Type	82°C	95°C	110°C
All models	1.5 m w.c.	3.0 m w.c.	10 m w.c.

10.2 m w.c. = 1 bar

In order to avoid bearing deterioration and the risk of pump cavitation, it is essential to follow the minimum pressures given above.

HYDRAULIC PERFORMANCES



• ELECTRONIC SPEED VARIATOR

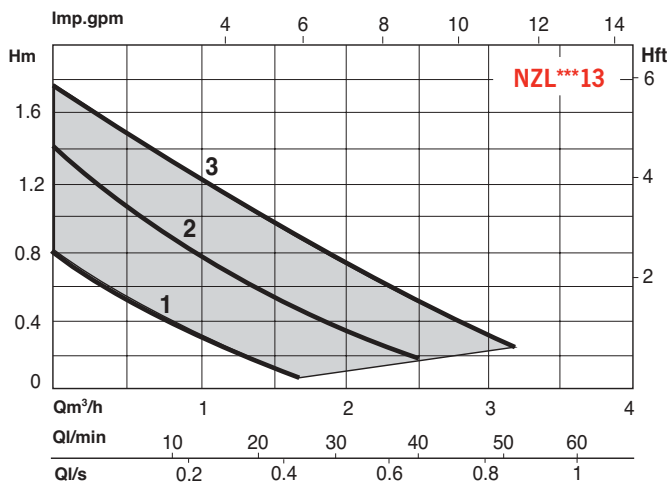
Flexibility in speed adjustment and better adaptation to the actual installation characteristics.

NB

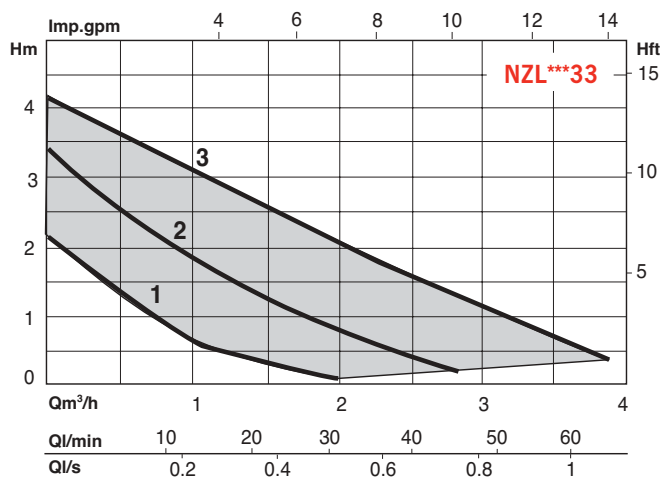
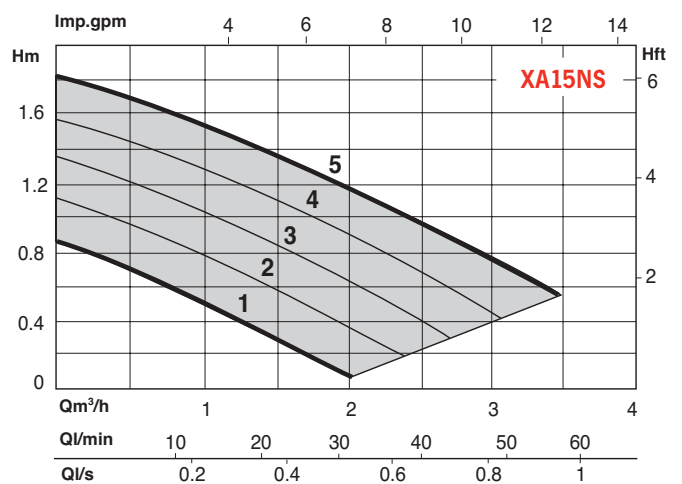
1 - The figures **1 to 5** shown on the curves below are only to locate intermediate positions on the hydraulic range.

2 - All intermediate positions are possible to adjust the circulator to the installation's characteristics.

3 SPEEDS

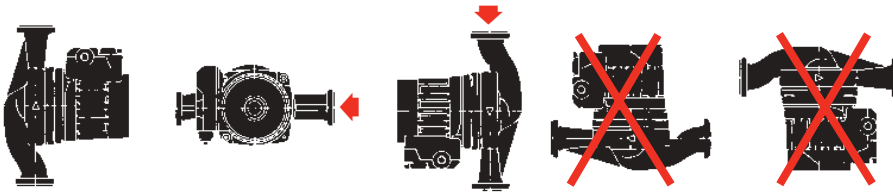


"SALMSONIC" MULTISPEED



NZL ★★★ - XA15

INSTALLATION POSITIONS



FEATURES

a) Electrical

- All types in single-phase 230 V, 50 Hz with capacitor integrated in the terminal box.
- Motor protection through circuit breaker not essential.

b) Installation

- Motor shaft always horizontal.
- Connection with the facility:
 - By oval mating pipe flange to be screwed PN 6 or 10, depending on model.

c) Packaging

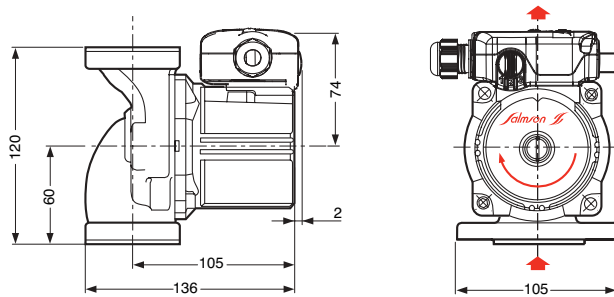
- NZL*** supplied without accessories
- XA 15 supplied without accessories.

d) Maintenance

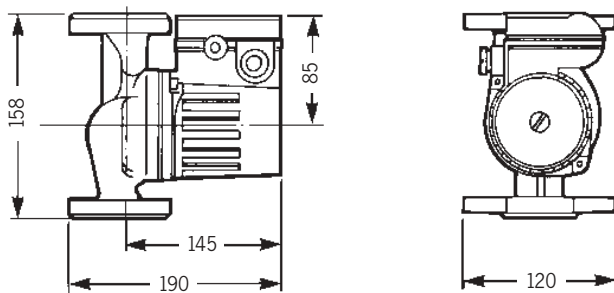
- Standard replacing of the appliance.

ELECTRICAL DATA AND DIMENSIONS

NZL*** - oval flanges - PN10 - ND40



XA15NS - oval flanges - PN6 - ND25



OPTIONS & ACCESSORIES

- Oval mating pipe flanges to be screwed PN6 or 10.
- Isolating valves.
- Threaded cleaner plug, facilitating the cleaning of the impeller shaft without plug removal.

ORDER REFERENCE	P2n W	capacitor μF x V	M O T O R			P U M P mass kg	CONNECTION POSSIBLE ON THREADED PIPE			
			speed selector position	speed rpm	P1 W max.		intensity A max.	G3/4	G1	G1 1/4
XA15NS	15	2.5 x 400	1 min.	1000	60	2.6	CBOV PN6 2634 or 3342 or 4049 or 5060			
			5 max.	1300	100					0.42
NZL***13-40P	10	1.6 x 400	1	1200	18	2.8	CBOV PN6 2634 or 3342 or 4049			
			2	1600	31					0.15
			3	1950	48					0.21
NZL***33-40P	20	2 x 400	1	1300	30	2.8	CBOV PN6 2634 or 3342 or 4049			
			2	1650	46					0.20
			3	2050	65					0.28