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## ***OXYGEN and SYSTEM OXY***

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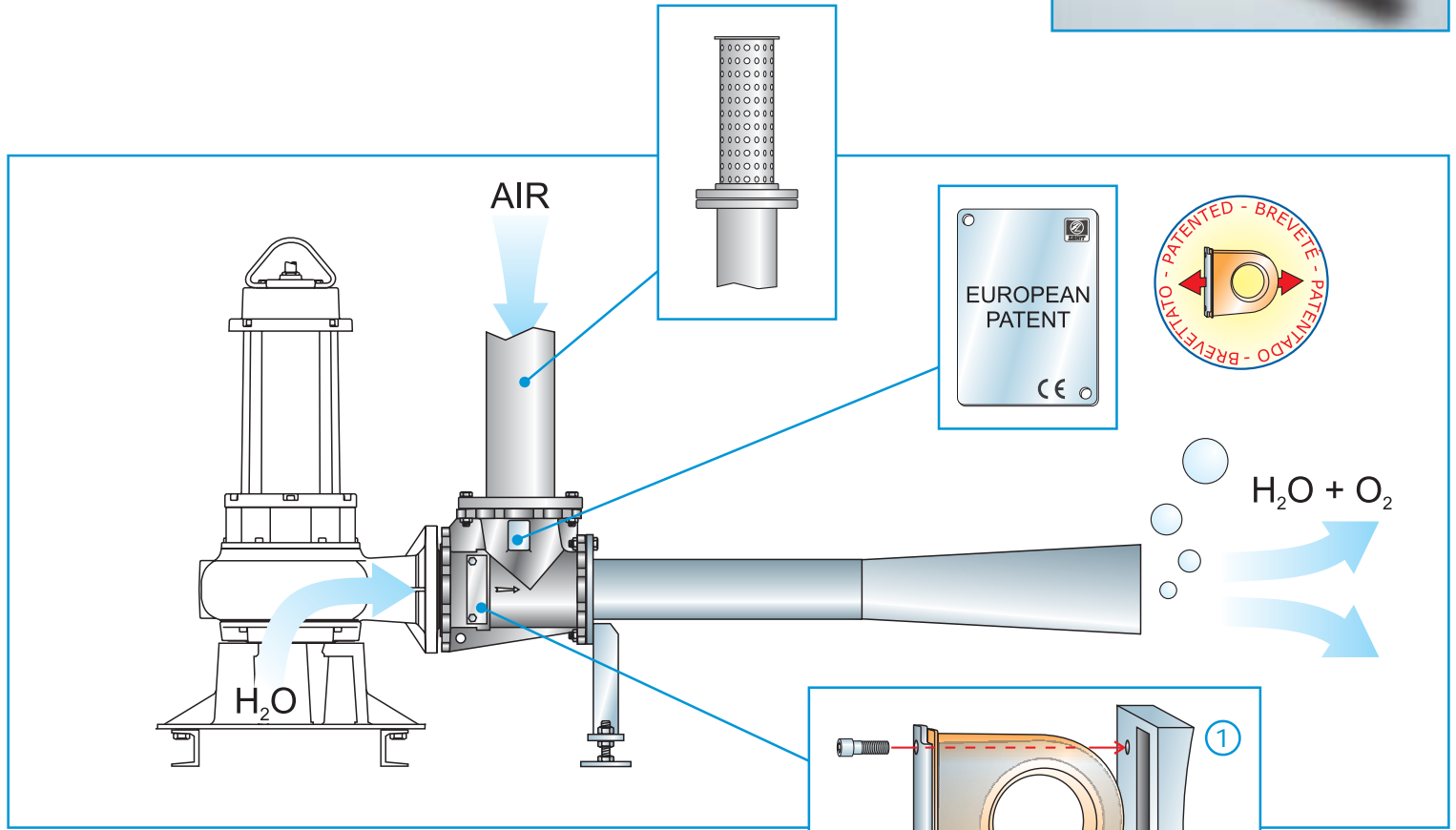
- Used to mix the treated liquid with air allowing a high degree of oxygen exchange
- Particularly indicated for an efficient oxigenation in waste water treatment plant as well as industrial and agricultural applications



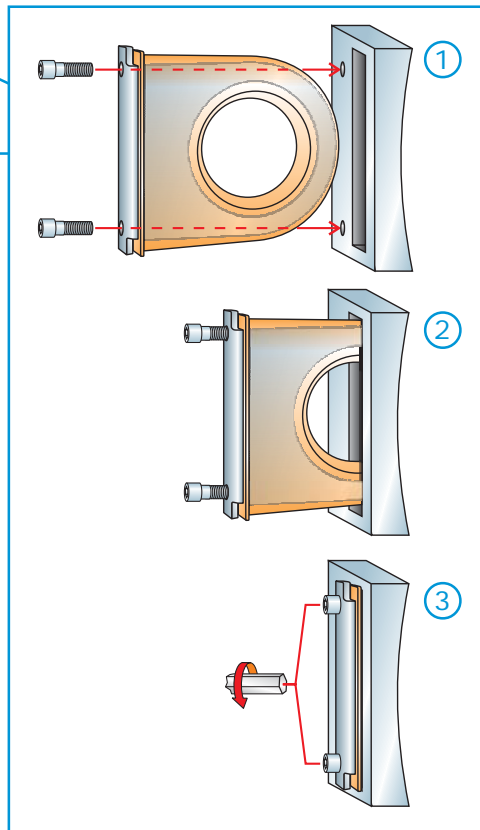
# OXYGEN EJECTORS

## "OXY 80" - "OXY 100" - "OXY 150"

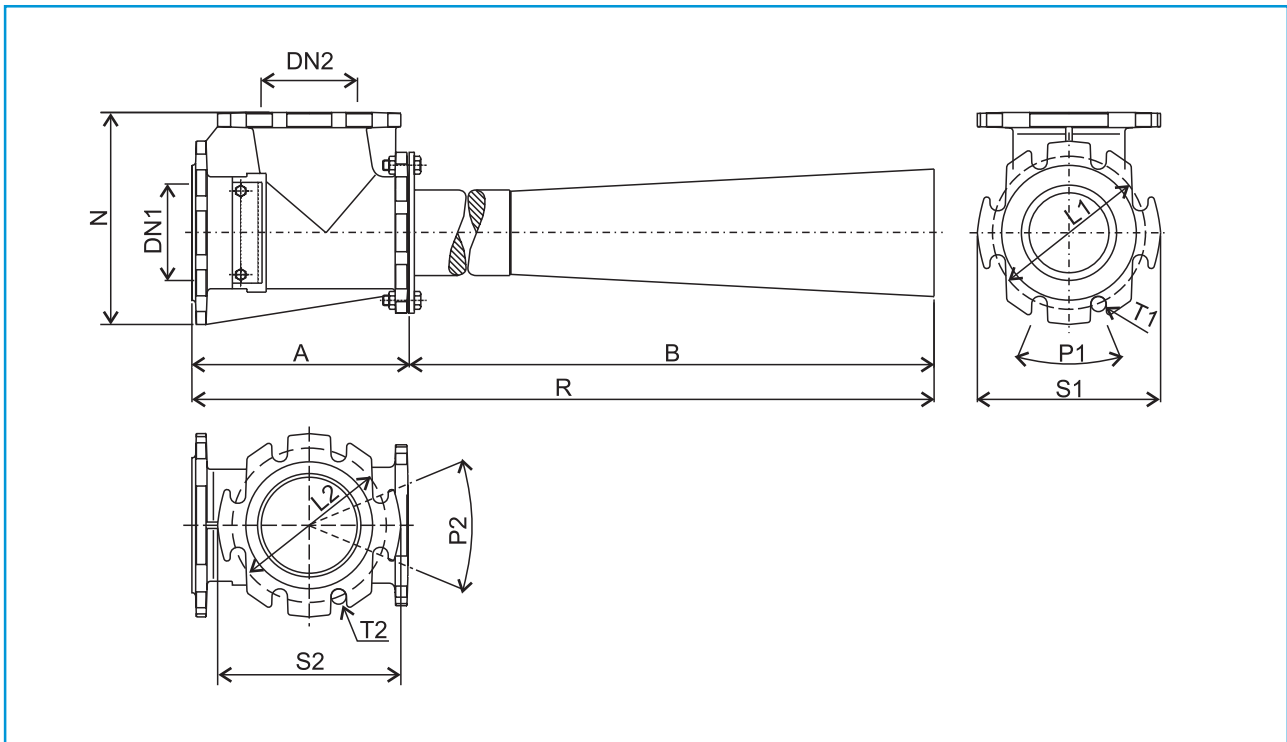
In the OXYGEN ejector devices, the liquid drawn in is mixed by the "Venturi" effect with medium-fine air bubbles which increase the contact surface and encourage a high performance exchange of oxygen



The OXYGEN 80, 100 and 150 ejectors are characterised by the presence of an interchangeable diaphragm covered in corrosion resistant polyurethane material (Vulkollan), which is fixed by two nuts which can be easily replaced and which makes the initial calibration of the system or any maintenance work much easier.



## Dimensions



	DN1	DN2	A	B	L1	N	P1	R1	S1	T1	L2	P2	S2	T2	Kg
<b>OXY 80</b>	80	100	250	750	160	255	90°	1000	200	17	180	45°	220	20	13+13
<b>OXY 100</b>	100	100	250	750	180	255	45°	1000	200	17	180	45°	220	20	13+13
<b>OXY 150</b>	150	150	338	1100	240	332	45°	1438	285	24	240	45°	285	24	32+15

Except where specified all dimensions are expressed in mm.

\* The weights indicate respectively that of the OXYGEN body and that of the choke

## Materials used

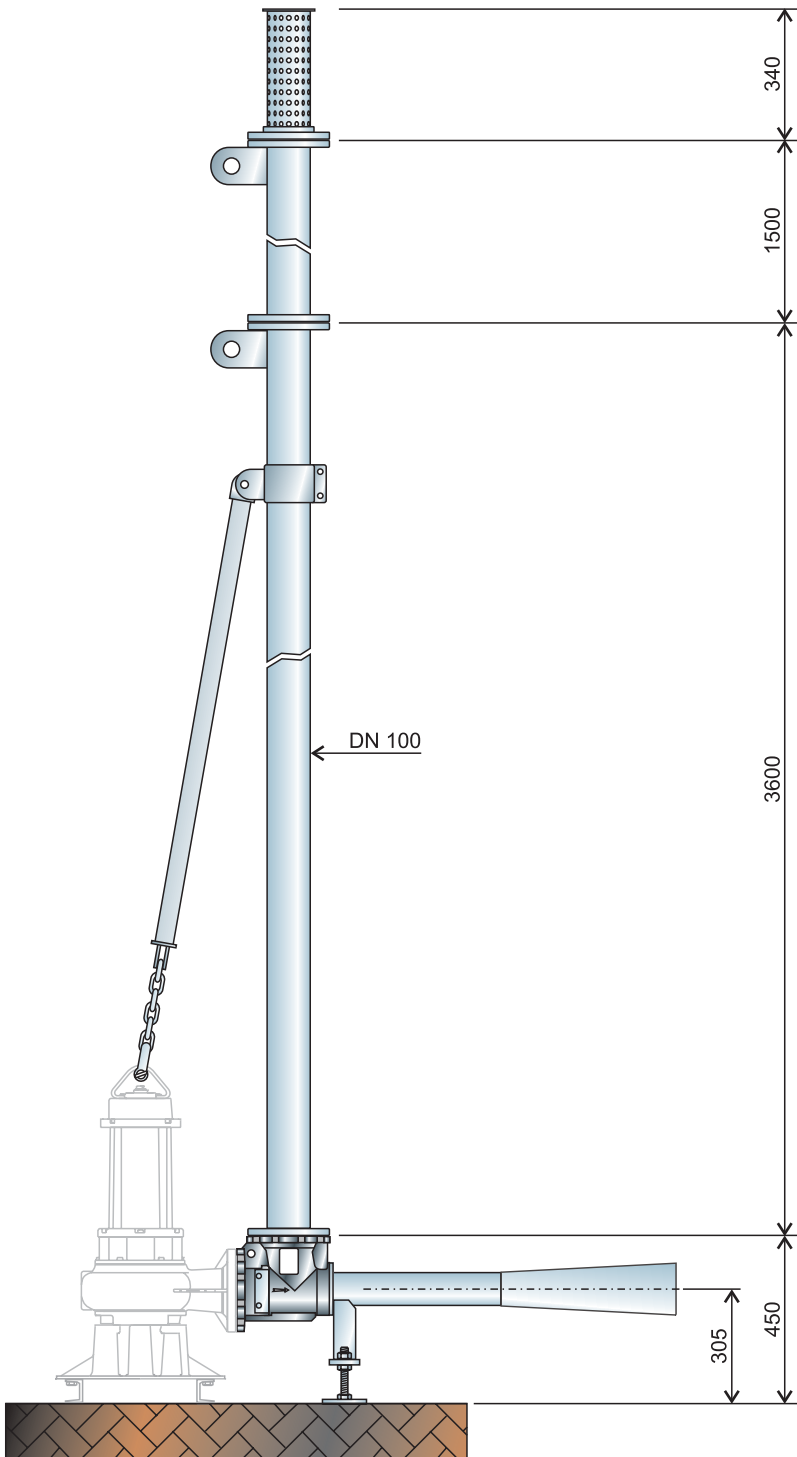
<b>Body</b>	Cast iron GJL-250
<b>Choke</b>	Stainless steel INOX AISI 304
<b>Diaphragm cover</b>	Vulkollan
<b>Clamping nuts</b>	Steel A2
<b>Paint finish</b>	Ecological epoxy vinyl

## Limits of use

<b>Liquid temperature</b>	-15 ÷ 120°C
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# OXY Ø 80 - OXY Ø 100

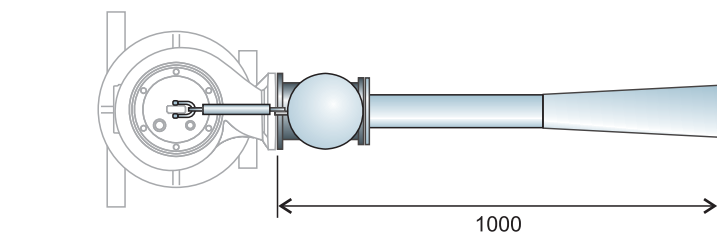
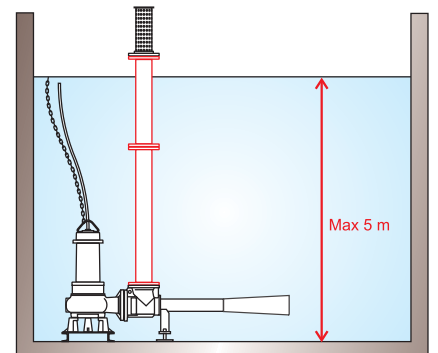
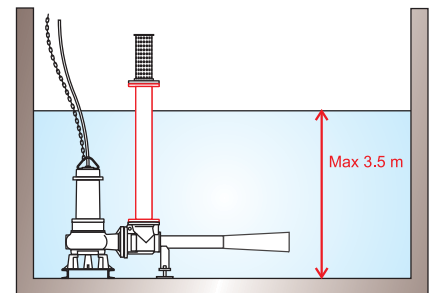


## SYSTEM OXY 80 – 100 composed of:

- 1 OXYGEN unit
- pump baseplate
- front support for the ejector body
- pipe and intake filter
- oblique tie-rod for the pump

### NOTE

To be used with 4 or 6 poles pumps only



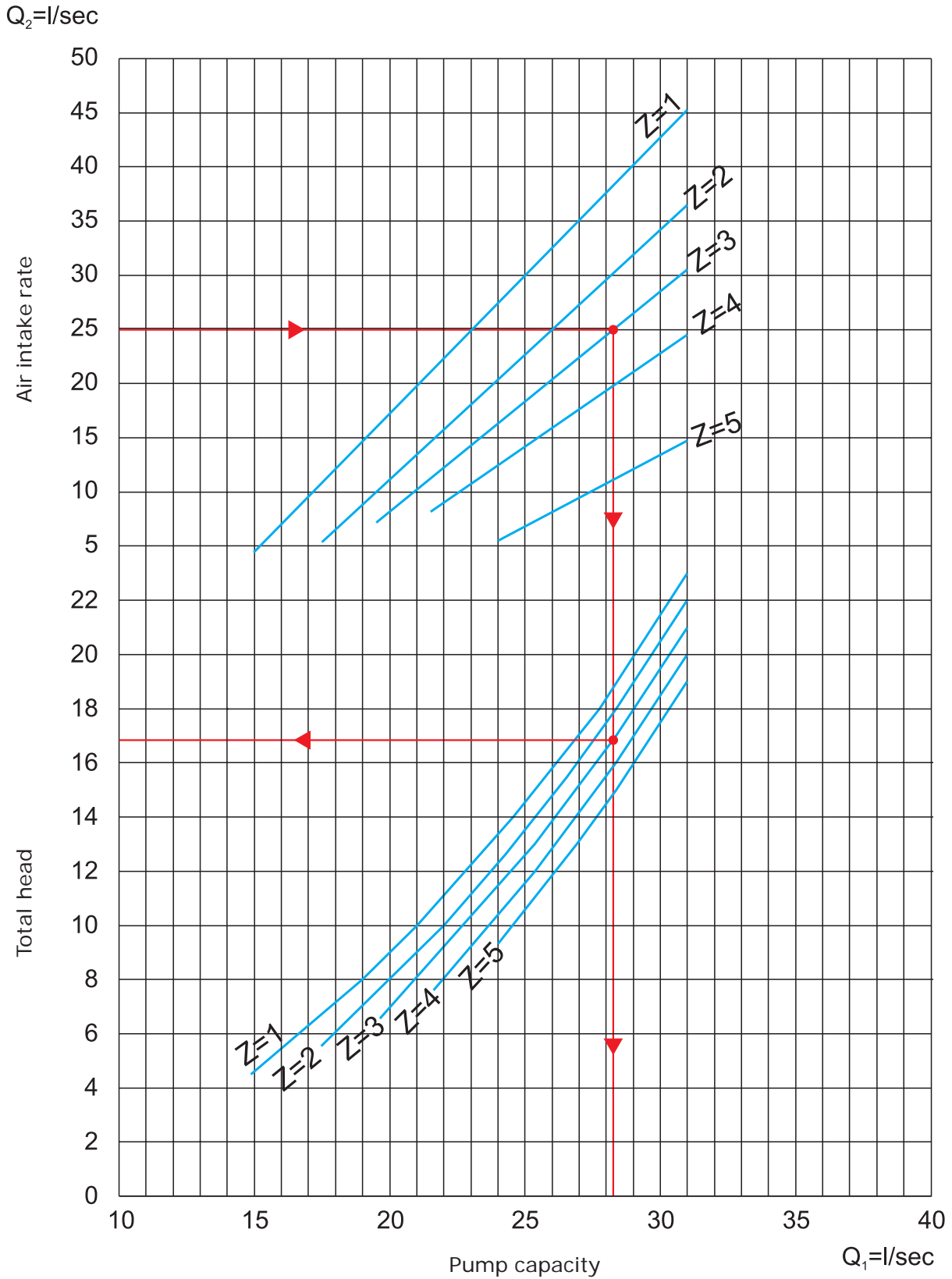
Dimensions are expressed in mm

Aspiration pipes for tanks having a depth of 3,5 and 5 mtrs

# Diagram OXY Ø 80 - OXY Ø 100

For identifying the characteristics of the pump

Ejector diaphragm Ø55 - Ejector body DN 80-100 - Air intake pipe Ø 100



### How to read the diagram:

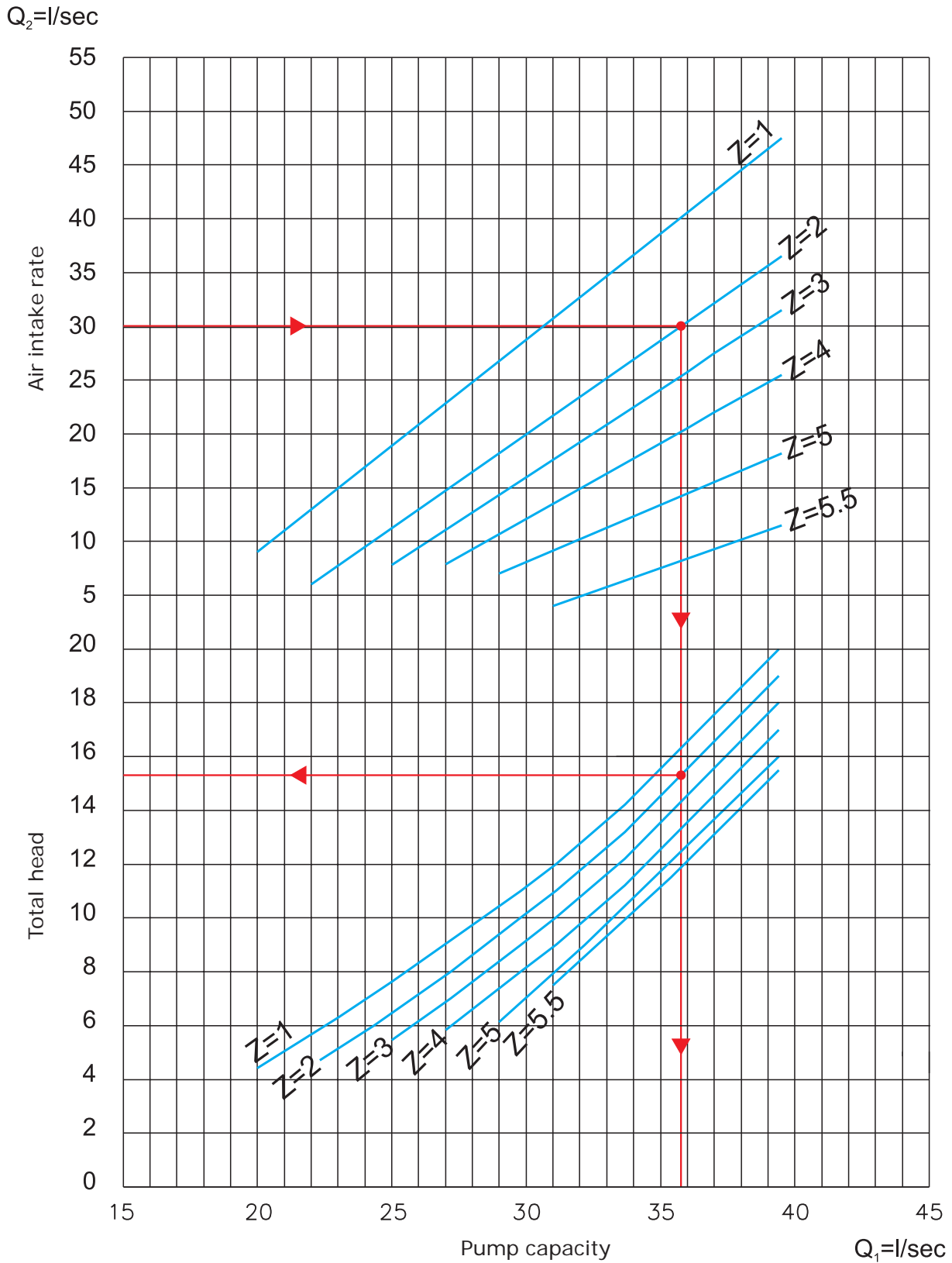
A pump installed at a depth  $Z$ , is required to supply a value  $Q_2$  air suction.

From the intersection of the axis of the air intake rate and the depth curve, move down vertically to find the curve marked with the same  $Z$  value: the coordinates of the intersection correspond to the head values  $H$  and  $Q_1$ , the capacity required of the pump.

# Diagram OXY Ø 80 - OXY Ø 100

For identifying the characteristics of the pump

Ejector diaphragm Ø63 - Ejector body DN 80-100 - Air intake pipe Ø 100

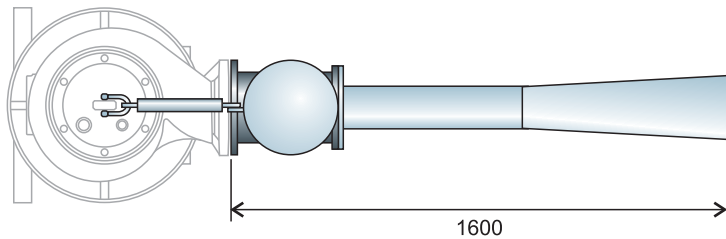
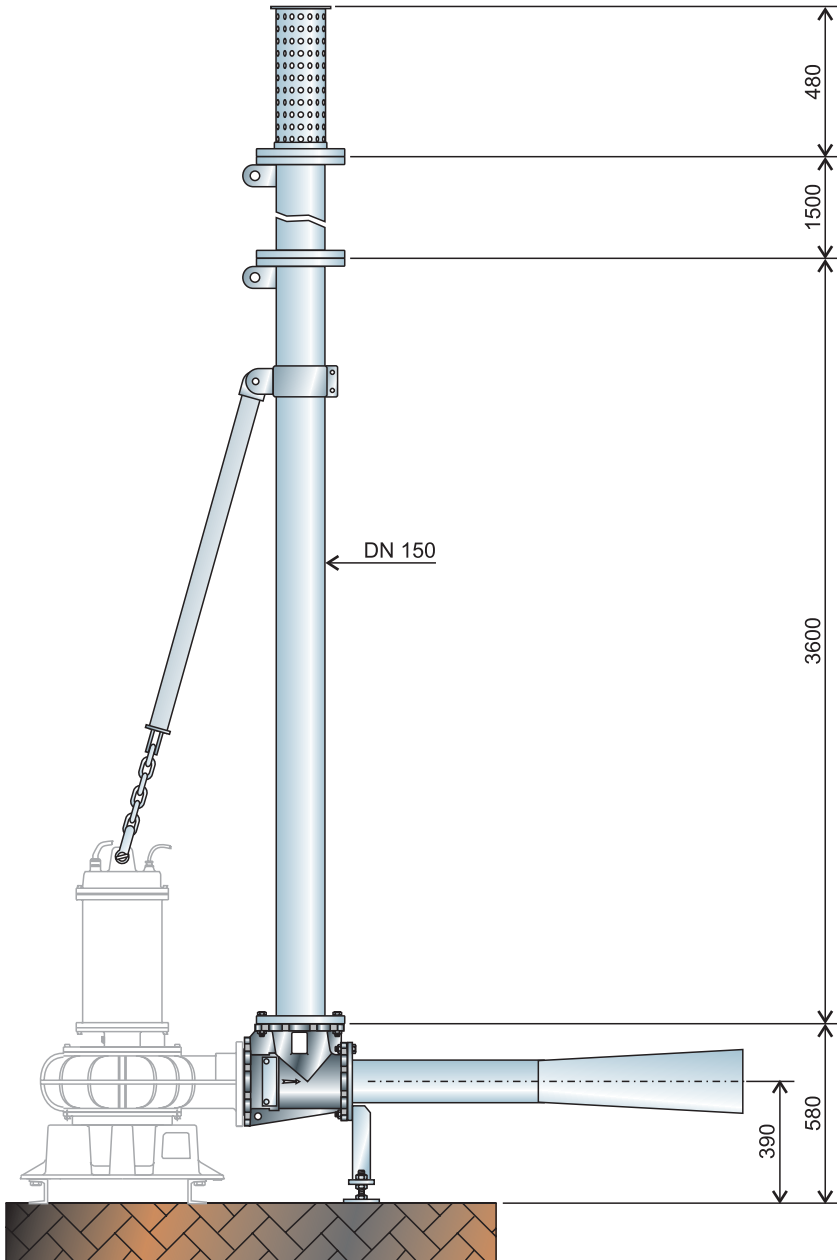


### How to read the diagram:

A pump installed at a depth  $Z$ , is required to supply a value  $Q_2$  air suction.

From the intersection of the axis of the air intake rate and the depth curve, move down vertically to find the curve marked with the same  $Z$  value: the coordinates of the intersection correspond to the head values  $H$  and  $Q_1$ , the capacity required of the pump.

# OXY Ø 150



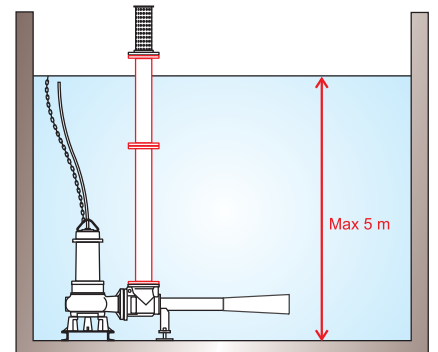
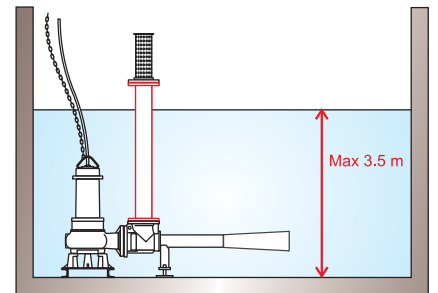
Dimensions are expressed in mm

## SYSTEM OXY 150 composed of:

- 1 OXYGEN unit
- pump baseplate
- front support for the ejector body
- pipe and intake filter
- oblique tie-rod for the pump

### NOTE

To be used with 4 or 6 poles pumps only



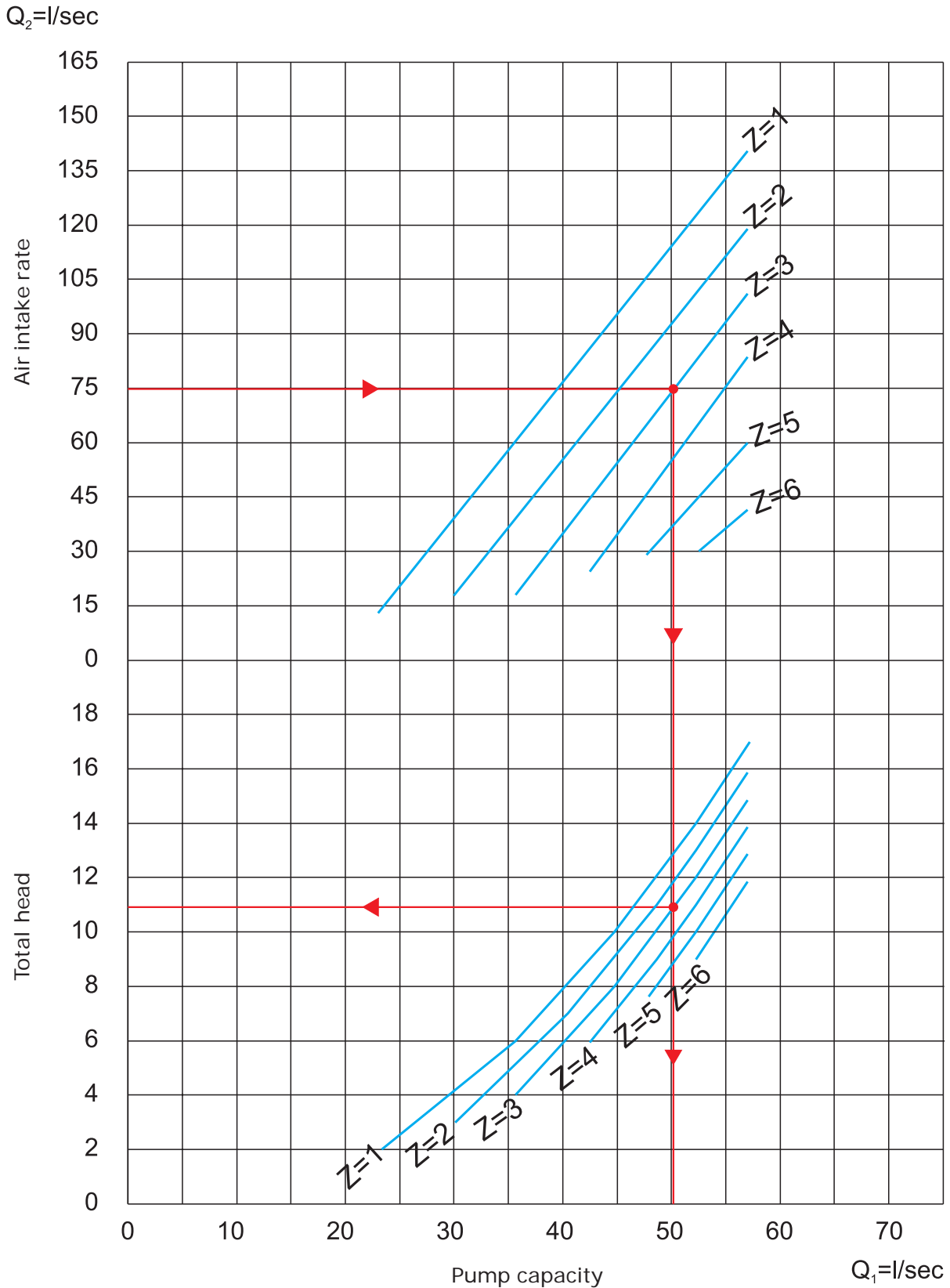
Aspiration pipes for tanks having a depth of 3,5 and 5 mtrs



# Diagram OXY Ø 150

For identifying the characteristics of the pump

Ejector diaphragm Ø80 - Ejector body DN 150 - Air intake pipe Ø 150



### How to read the diagram:

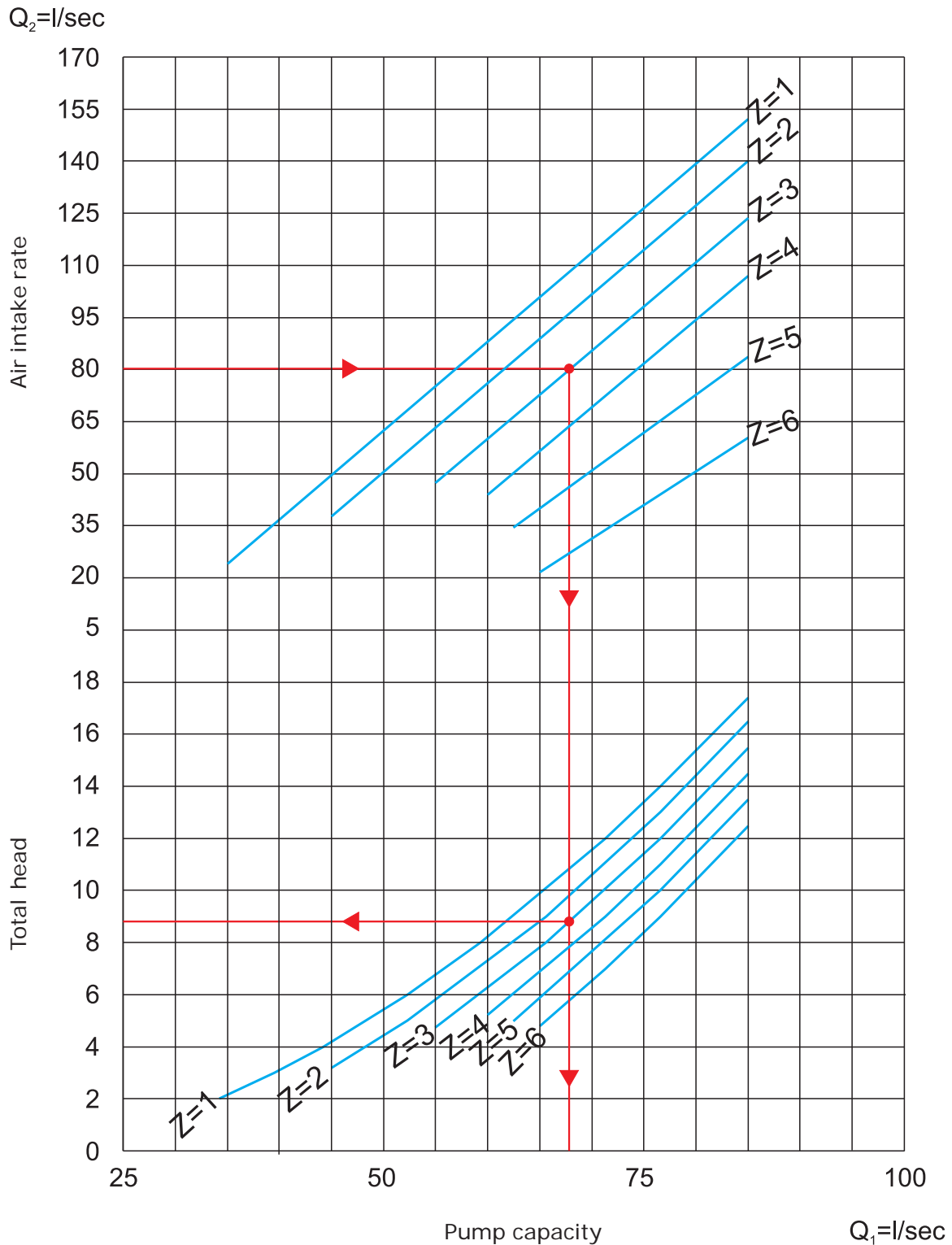
A pump installed at a depth  $Z$ , is required to supply a value  $Q_2$  air suction.

From the intersection of the axis of the air intake rate and the depth curve, move down vertically to find the curve marked with the same  $Z$  value: the coordinates of the intersection correspond to the head values  $H$  and  $Q_1$ , the capacity required of the pump.

# Diagram OXY Ø 150

For identifying the characteristics of the pump

Ejector diaphragm Ø95 - Ejector body DN 150 - Air intake pipe Ø 150

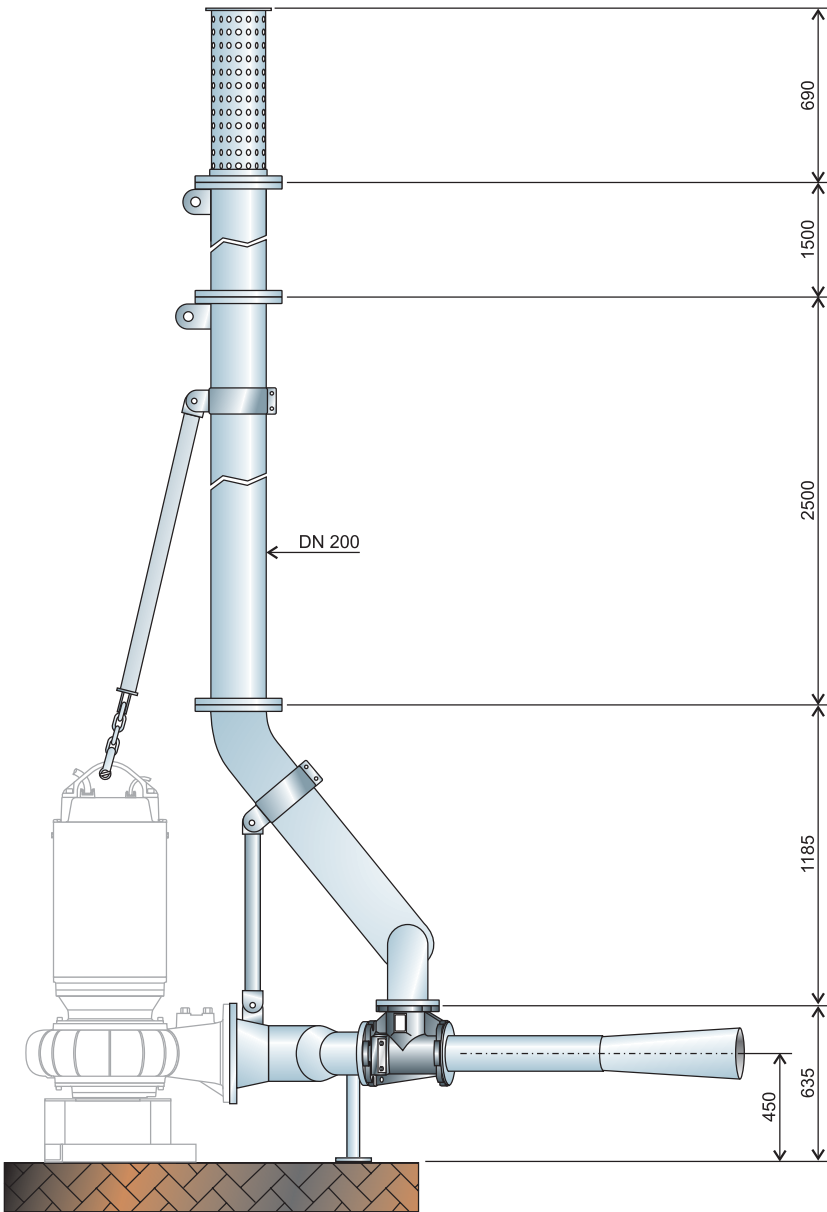


## How to read the diagram:

A pump installed at a depth  $Z$ , is required to supply a value  $Q_2$  air suction.

From the intersection of the axis of the air intake rate and the depth curve, move down vertically to find the curve marked with the same  $Z$  value: the coordinates of the intersection correspond to the head values  $H$  and  $Q_1$ , the capacity required of the pump.

# Double OXY Ø 150

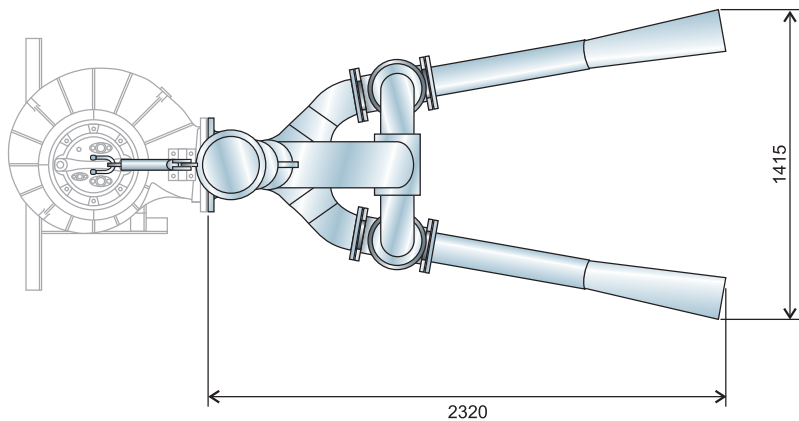


## DOUBLE OXY 150 composed of:

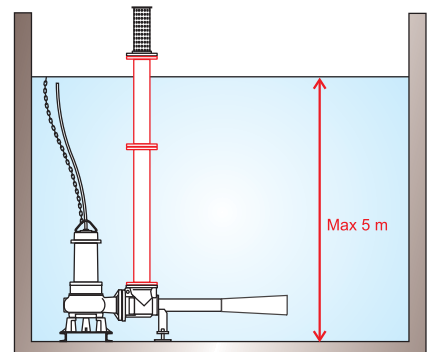
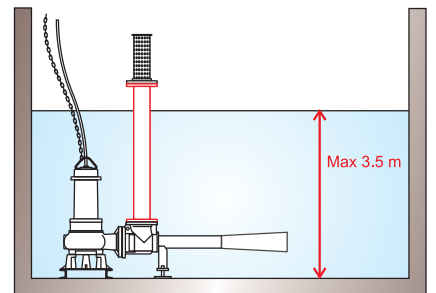
- 2 OXYGEN units
- pump baseplate
- horizontal manifold for double ejector
- vertical manifold for intake flue
- intake pipe and filter 2 oblique tie-rods

## NOTE

To be used with 4 or 6 poles pumps only



Dimensions are expressed in mm

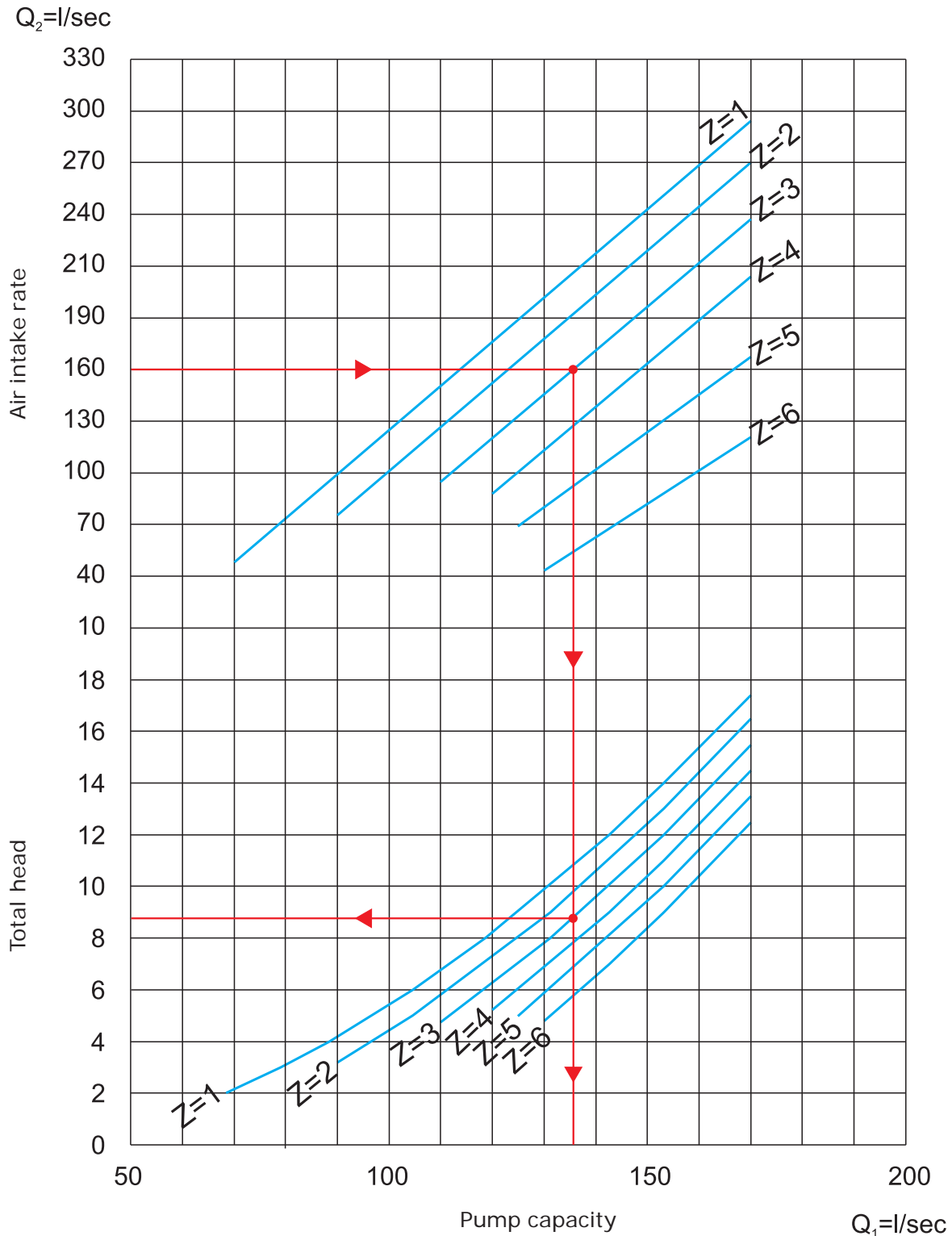


Aspiration pipes for tanks having a depth of 3,5 and 5 mtrs

# Diagram DOUBLE OXY Ø 150

For identifying the characteristics of the pump

Ejector diaphragm Ø95 - Ejector bodies DN 150 - Air intake pipe Ø 200



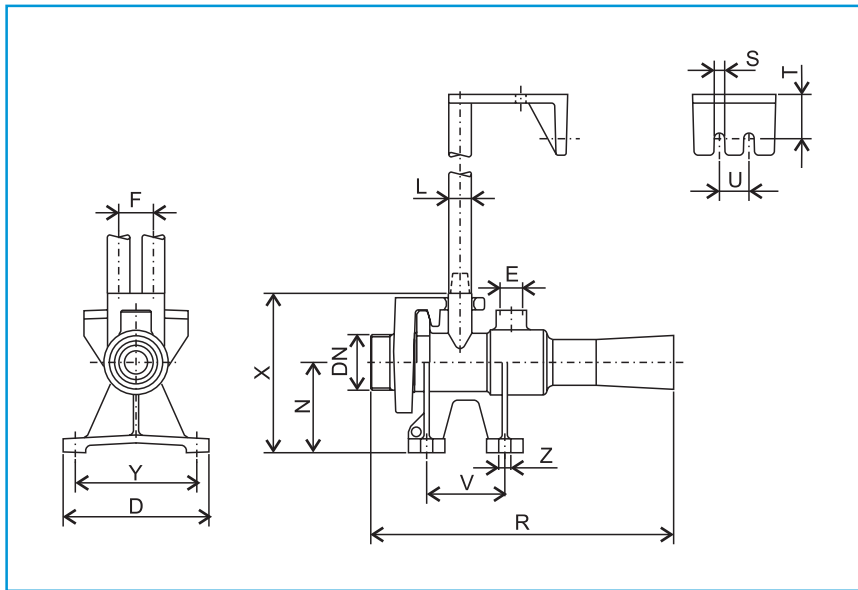
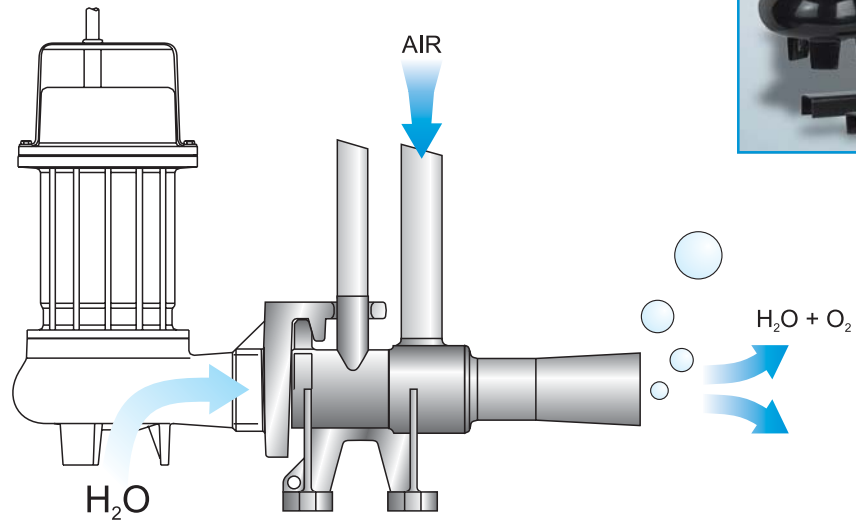
## How to read the diagram:

A pump installed at a depth  $Z$ , is required to supply a value  $Q_2$  air suction.

From the intersection of the axis of the air intake rate and the depth curve, move down vertically to find the curve marked with the same  $Z$  value: the coordinates of the intersection correspond to the head values  $H$  and  $Q_1$ , the capacity required of the pump.

# OXYGEN EJECTOR "OXY 50"

In the OXYGEN ejector devices, the liquid drawn in is mixed by the "Venturi" effect with medium-fine air bubbles which increase the contact surface and encourage a high performance exchange of oxygen.



	DNa	D	E	F	L	N	X	R	S	T	U	V	Z	Y	Kg
<b>OXY 50</b>	2"	168	3/4"	40	3/4"	104	183	349	12	51	34	91	14	140	11

Except where specified all dimensions are expressed in mm.

## Materials used

<b>Body</b>	Cast iron GJL-250
<b>Choke</b>	Stainless steel INOX AISI 304
<b>Clamping nuts</b>	Steel A2
<b>Paint finish</b>	Ecological epoxy vinyl

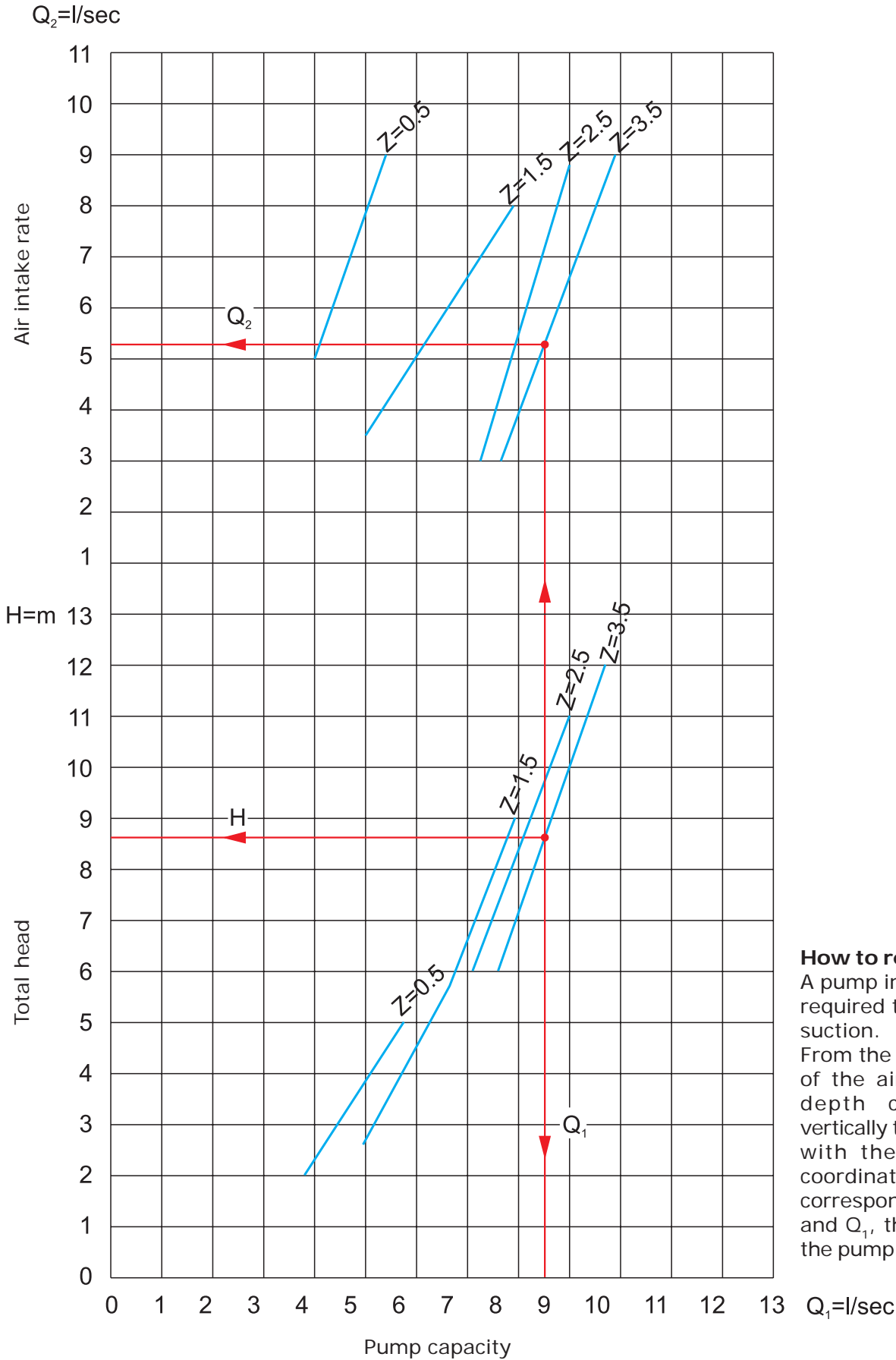
## Limits of use

<b>Liquid temperature</b>	-15 ÷ 120°C
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# Diagram OXY Ø 50

For identifying the characteristics of the pump

Ejector Ø27 - Ejector body DN 50 - Air intake pipe Ø 3/4" GAS - Ø int. 22 mm



### How to read the diagram:

A pump installed at a depth  $Z$ , is required to supply a value  $Q_2$  air suction.

From the intersection of the axis of the air intake rate and the depth curve, move down vertically to find the curve marked with the same  $Z$  value: the coordinates of the intersection correspond to the head values  $H$  and  $Q_1$ , the capacity required of the pump.



*The information contained herein is not binding.  
Zenit reserves the right to alter the product without prior notice*

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