

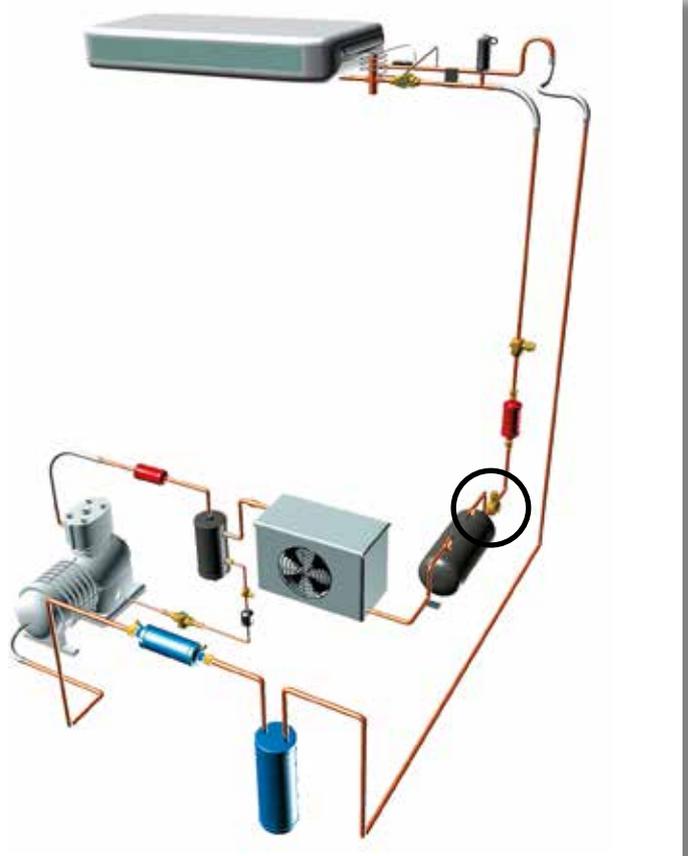


## Receiver sight glasses

### → VCYR / VCYR-W

#### ■ Applications

- Immediate and direct monitoring of levels of refrigerant in its liquid phase or of refrigerating oil, in refrigerating and air conditioning installations.
- In addition, the VCYR-W allows the monitoring of the moisture content in the refrigerant.
- These level sight glasses are to be positioned directly on the receivers' body or on the piping.



#### ■ Functional features

- Products are compatible with CFCs, HCFCs, HFCs, CO<sub>2</sub>, as well as with their associated oils and additives. Products are designed for use of non-hazardous refrigerants from group 2 of PED 2014/68/EU. To use CARLY components with fluids of the hydrocarbon group 1 – Propane R290, Butane R600, Isobutane R600a, Propylene R1270 – with HFOs and transcritical CO<sub>2</sub> and for a RANKINE organic cycle application, contact CARLY technical department.
- Product classification in CE categories is performed using the PED 2014/68/EU table, corresponding to a nominal diameter-based selection.
- The sight glass is made of four parts:
  - a steel base intended to be directly welded on a bracket after drilling.
  - a glass screwed on the base.
  - a PTFE O-ring gasket ensuring air-tightness between the base and the glass.
  - a coloured ball ensures a correct liquid level visualisation inside the component on which the sight glass is positioned.
- Model VCYR-W 32 : include a glass with a moisture indicator resistant to acids.

#### ■ CARLY advantages

- Maximum working pressure: 46 bar
- The large size of the glass ensures an excellent visibility of refrigerant.
- Saves space, material and assembly time, compared to the installation of a sight glass mounted in series with the refrigerating piping.
- The nickel-plated steel base and the dichromated zinc-plated steel glass guarantee perfect resistance to corrosion.
- The glass is cast in metal; therefore it eliminates risks of leak.



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### ■ Warning

Before selecting or installing any component, please refer to the chapter 0 - **WARNING**.

### ■ General assembly precautions

The installation of a component in a refrigeration system by a skilled professional, requires some precautions:

- Some are specific to each component, and in this case, they are specified in the

**RECOMMENDATIONS SPECIFIC** part defined hereafter ;

- Other are general to all CARLY components, they are presented in the chapter 115 – **GENERAL ASSEMBLY PRECAUTIONS**.

- The recommendations relating to the CARLY components for the subcritical CO<sub>2</sub> applications are also developed in chapter 115 – **GENERAL ASSEMBLY PRECAUTIONS**.

### ■ Recommendations specific to the receiver sight glass VCYR

- The glass and the O-ring gasket should be removed during the welding of the base on the bracket.
- After this welding and when the base

temperature is low enough, put the O-ring seal back into its compartment and screw the glass back complying with the recommended tightening torque of 25

N.m.

- The O-ring seal (CARLY reference CY15552180) must be replaced after each removal of the glass.

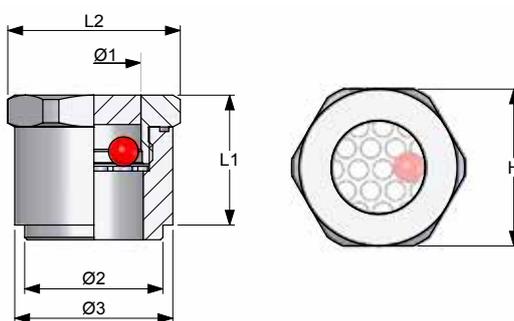


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### ■ Technical features

CARLY references	Dimensions mm					
	L1	L2	H upper faces	Ø1	Ø2	Ø3
VCYR 32	27	35	32	19	28	32
VCYR-W 32	27	35	32	19	28	32



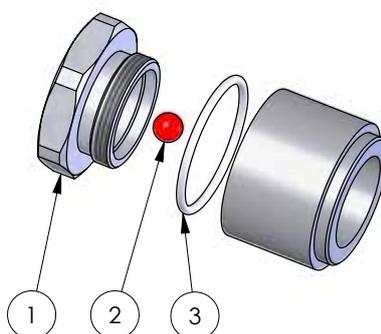
CARLY references	Maximal working pressure	Working pressure <sup>(1)</sup>	Maximal working temperature	Minimal working temperature	Working temperature <sup>(1)</sup>	CE Category <sup>(2)</sup>
	PS bar	PS BT bar	TS maxi °C	TS mini °C	TS BT °C	
VCYR 32	46	15	120	-40	-30	Art4\$3
VCYR-W 32	46	15	120	-40	-30	Art4\$3

<sup>(1)</sup> The working pressure is limited to the PS BT value when working temperature is lower than or equal to TS BT value.

<sup>(2)</sup> Accessories, according to PED 2014/68/EU (refer to chapter 0).

### ■ Spare parts

CARLY references		Part N°	Description	Quantity
Receiver sight glass	Spare parts			
VCYR 32	CY 35012150	1	Glass without moisture indicator, gasket included	1
VCYR-W 32	CY 35012140	1	Glass with moisture indicator, gasket included	1
VCYR 32	CY 10501000	2	Colour ball for sight glass	1
VCYR-W 32				
VCYR 32	CY 15552180	3	O-ring PTFE gasket for sight glass	1
VCYR-W 32				





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### ■ Weights and packaging

CARLY references	Unit weight kg		Packaging number of pieces
	With packaging	Without packaging	
VCYR 32	0,10	0,10	1
VCYR-W 32	0,10	0,10	1