



TECHNICAL DATA SHEET

## **FRABOPRESS C-STEEL BIG-SIZE**

GALVANIZED CARBON STEEL PRESS FITTINGS

# FRABOPRESS C-STEEL BIG-SIZE

Galvanized carbon steel press fittings



## DESCRIPTION

**FRABOPRESS C-STEEL BIG-SIZE** is a series of large diameter (> 66,7 mm) carbon-steel press fittings with corrosion resistant zinc-plating treatment and high-performance **EPDM** o-ring.






These fittings comply with the requirements of UNI 11179 standard and feature a red mark indicating they are not suitable for use with drinkable water. Suitable for pressing with "M" type jaws.

Press ends with diameter of 66,7, 76,1, 88,9 and 108 are in M profile and they must be installed with the appropriate equipment. Press ends with smaller diameter can be in M or in V profile. Refer to AC0131 and ACM131 model and to AC0243 and ACM243 model in the price list or in the dimensional catalogue.

## APPLICATIONS

The **FRABOPRESS C-STEEL BIG-SIZE** system can be used for the following applications and temperatures, as indicated in table A

TABLE A

APPLICATION		Pmax (bar)	Tmax °C
	Heating	10	0° / +110°C
	Cooling *	10	-10° / +110°C
	Sprinkler **	10	30°C
	Compressed air (residual oil <5 mg/m <sup>3</sup> )	10	30°C
	Industrial installations		

\* Residual oil content below 5mg/m<sup>3</sup> (Class from 1 to 4 according to ISO 8573-1:2001). For oily residue according to Class 5 use the seal in FKM;

\*\* Sprinkler fire-fighting systems. Please contact our technical department for further information regarding fire protection applications;

**For uses other than those mentioned thus far, please request the maximum operating conditions from the FRABO technical support office.**

**NOT FOR DRINKING WATER:** this means that the tubes used with carbon-steel fittings are not suitable for drinking water applications.



## FLANGED COUPLERS

Connections with other systems are made possible by flanged couplers with a pressfitting female end. Flanges are available in PN10 or PN16 version. Mixed threaded couplers are available on request.

## FRABOPRESS C-STEEL PIPES

**FRABOPRESS C-STEEL** pipes with thin walls and longitudinal welding are made of carbon steel according to UNI EN 10305-3 standard.

Hot zinc-plated and laminated tape is used for production (called "Sendzimir"). The pipe is therefore zinc-plated both externally and internally with a uniform layer of zinc at least 10 µm thick in the welding area, and about 20 µm in the others. The welding is laminated externally so as to guarantee a perfect sealing surface.

**FRABOPRESS C-STEEL** pipes are available up to diameter 108 mm. All the versions of **FRABOPRESS C-STEEL** pipes are supplied in 6 metre rods.

## BARE PIPES - TECHNICAL FEATURES

Material	Non alloyed carbon steel (material no. 1.0020) in compliance with EN 10305-3 legislation
External diameter tolerance	EN 10305-3
Supply status	6 m ± 25 mm long rods packaged in bunches protected by PET film
Standard Marking	FRABOPRESS C-STEEL [Dimensions] EN10305-3 [Traceability code]

## BARE PIPES – DIMENSIONS AND MASSES

Rated diameter	Diameter x thickness [mm]	Inner Diameter [mm]	Internal diameter [mm]	Mass [kg / m]	Water content [l / m]
DN 65	76,1 x 2,0	±0,30	72,1	3,632	4,080
DN 80	88,9 x 2,0	±0,30	84,9	4,259	5,660
DN 100	108 x 2,0	±0,60	104,0	5,195	8,490

## PRESSING TOOLS

The pressing profile chosen by Frabo for **FRABOPRESS CSTEEL BIG SIZE** is, unlike the lower diameters, “M” shaped. Some of the most widely-spread on the market machines and tools can be safely used for installing the series.

For a full list of compatible tools, please see the documentation available on the website: [www.frabo.com](http://www.frabo.com).

## CORROSION

### INTERNAL CORROSION

In closed-circuit systems there is not usually any exchange of oxygen, therefore there is no risk of corrosion. Small amounts of oxygen can penetrate into the system during filling or topping up, however this has almost no effect on the system since the amount of oxygen is practically negligible with respect to the whole internal metal surface area of the pipe.

### EXTERNAL CORROSION

**FRABOPRESS C-STEEL** pipes/fittings are protected against external corrosion by zinc plating. However, if the humidity acts over a prolonged period on the system components, external corrosion may arise.

The PP coating offers effective additional protection against external corrosion for **FRABOPRESS C-STEEL** pipes, whereas the fittings can be protected with some simple steps, such as:

- Coatings with closed-cell expanded elastomer insulating materials
- Corrosion resistant bandages
- Painting

**NOTICE:** Felt coatings are not allowed as it would absorb and withhold the humidity, hence causing more corrosion.

**NOTICE:** Do not lay in corrosive environments (e.g. floors in direct contact with the soil).

**The designer and/or installer is responsible for choosing and applying the corrosion resistant protection and for evaluating the most effective protection methods in relation to the environment where the piping will be located.**



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