



TECHNICAL DATA SHEET

FRABOPRESS 316 SECURFRABO

STAINLESS STEEL PRESS FITTINGS

FRABOPRESS 316 SECURFRABO

Stainless steel press fittings



DESCRIPTION

FRABOPRESS 316 SECURFRABO is a stainless steel presfitting system manufactured using high quality AISI 316L austenitic stainless steel (material 1.4404). Each fitting features the new **SECURFRABO** Security System allowing a fast leak detection on unpressed fittings. The sealing ring is made of black **EPDM**.

APPLICATIONS

The **FRABOPRESS 316 SECURFRABO** system can be used for the following applications and temperatures, as indicated in table A.

TABLE A

| APPLICATION | | Pmax (bar) | Tmax °C |
|--|--|------------|-------------|
|  | Sanitary water | 16 | 0°/+110°C |
|  | Drinking water | 16 | 0°/+110°C |
|  | Heating | 16 | 0°/+110°C |
|  | Cooling * | 16 | -10°/+110°C |
|  | Oil free compressed air (residual oil <5 mg/m ³) | 16 | 30°C |
|  | Compressed air (residual oil >5 mg/m ³) (with FKM O-ring) ** | 16 | 30°C |
|  | Oils (with FKM Oring) ** | 16 | 30°C |
|  | Fire prevention | 16 | 30°C |
|  | Solar Systems (with FKM Oring) *** | 6 | 160°C |
|  | Steam conveying Systems (with FKM Oring) | 1 | 120°C |
|  | Sprinkler | | |
|  | Naval plants | | |

* any additives contained in the cooling media must be compatible with the EPDM O-rings

** for this application RED FKM O-RINGS must be used.

*** for this application GREEN FKM O-RINGS must be used

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

SECURFRABO SYSTEM

FRABOPRESS 316 SECURFRABO fittings are equipped with the new **SECURFRABO** safety system, which allows any unpressed fittings to be detected.

The **SECURFRABO** system is made using an elastomeric gasket whose patented shape allows liquid to leak out if the junction has not been pressed.

Thanks to **SECURFRABO** when the system is tested, any unpressed fitting can be quickly identified and correctly installed so as to reduce the possibility of mistakes or oversights that can reduce the system's effectiveness over time

AVAILABLE DIMENSIONS

The series is available in the dimensions 15, 18, 22, 28, 35, 42 and 54 mm. For the complete list of available items refer to the catalogue.

THREADED AND MIXED ENDS

Mixed connection fittings to other systems are made using **AISI 316L** austenitic stainless steel (material 1.4404) threaded parts with press ends. The threads comply with UNI EN 10226-1 standard.

FRABOPRESS 316 SECURFRABO SYSTEM PIPES

FRABOPRESS 316 SECURFRABO system pipes are thin-walled welded pipes made in AISI 316L austenitic stainless steel (material 1.4404) marked according the EN 10312 standard and DVGW GW 541 worksheet.

Pipes can be supplied in 6 m long bundled bars with dimensions ranging from 15 to 54.

PIPES – TECHNICAL FEATURES

TABLE B

| | |
|---------------------|---|
| Material | Austenitic stainless steel X2CrNiMo17-12-2 AISI 316L (material 1.4404) chemical composition according UNI EN 10088-1 standard |
| Tolerances | DVGW W 541 |
| Supplied dimensions | 6 ± 25 mm meter long bars with end caps |
| Standard Marking | [Dimensions] EN10312 DVGW GW541 [Traceability code] |

PIPES – LINEAR MASS AND DIMENSIONS

| Nominal Diameter | Diameter x Thickness [mm] | Inner Diameter [mm] | Mass [kg / m] | Inner volume [l / m] |
|------------------|---------------------------|---------------------|---------------|----------------------|
| DN 12 | 15 x1,0 | 13 | 0,351 | 0,133 |
| DN 15 | 18 x1,0 | 16 | 0,426 | 0,201 |
| DN 20 | 22 x1,2 | 19,6 | 0,625 | 0,302 |
| DN 25 | 28 x1,2 | 25,6 | 0,805 | 0,515 |
| DN 32 | 35 x1,5 | 32 | 1,258 | 0,804 |
| DN 40 | 42 x1,5 | 39 | 1,521 | 1,195 |
| DN 50 | 54x1,5 | 51 | 1,972 | 2,043 |

PRESSING TOOLS

The **FRABOPRESS** system can be installed with the original system tools or using tools that have been checked and declared compatible by **FRABO**.

For a full list of compatible tools, please see the documentation available on the website: www.frabo.com.

CORROSION

INNER CORROSION

AISI 316L stainless steel used in **FRABOPRESS 316 SECURFRABO** system for both pipes and fittings shows a high degree of resistance to inner corrosion and will not suffer from corrosion-related problems if correctly installed and in case of normal operating conditions.

OUTER CORROSION

AISI 316L stainless steel used in **FRABOPRESS 316 SECURFRABO** system for both pipes and fittings are naturally protected against corrosion due to its specific chemical composition and physical characteristics.

However in case of prolonged activity, medium to high concentration of corrosive agents can affect the system components (both pipes and fittings) leading in some case to localized corrosion of the outer surface.

Avoiding mutual contacts between fittings or pipes and building materials showing high degrees of chlorides is highly recommended; in such cases protective tapes or coatings are necessary.

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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