

## »R410ST« series

High-quality, robust and durable, one-hand quick disconnect safety couplings, with very high flow rate and only a small pressure drop.

The coupling is released fully automatically in two steps. Air is relieved from the coupling before it is completely disconnected. The plug is only disconnected from the coupling if the residual pressure has dropped below 0.3 bar. The dreaded "whiplash effect" is thus avoided and the risk of injury virtually eliminated.

Suitable for all applications with an above-average air consumption and characterised by extreme conditions.

This safety version conforms to ISO-Standard DIN EN ISO 4414.

These safety couplings are not suitable for direct attachment to pulsating tools.

We recommend using our vibration dampers, according to ISO 6150 § 7.1.

Areas of application: Pneumatic system, machine and plant engineering, manufacturing industry, workshops, automotive, mining.

Operating pressure:	Max. 16 bar
Medium and ambient temperature:	-20 °C to 100 °C
Flow rate (air):	4.000 l/min (at 6 bar and $\Delta p = 0.5$ bar)
Material:	Steel / zinc-plated brass
Springs:	Stainless steel
Sealant:	NBR



411.38-I



411.34-A



411.13-T

### Safety coupling DN 10, male

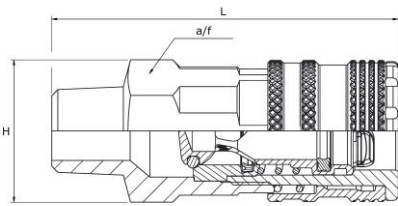
Type No.	Art. No.	Connection	a/f mm	L mm	H mm
411.38-A	107615	R 3/8 male	24	68.0	27.7
411.12-A	107616	R 1/2 male	24	70.3	27.7
411.34-A	107617	R 3/4 male	27	60.8	31.2

### Safety coupling DN 10, female

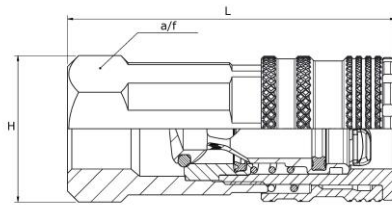
Type No.	Art. No.	Connection	a/f mm	L mm	H mm
411.38-I	107618	G 3/8 female	24	62.3	27.7
411.12-I	107619	G 1/2 female	25	67.3	28.9
411.34-I	107620	G 3/4 female	32	64.5	37.0

### Safety coupling 10, with hose stem

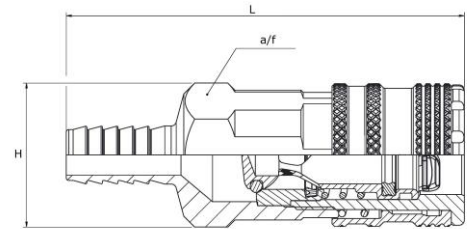
Type No.	Art. No.	Connection	a/f mm	L mm	H mm
411.10-T	107621	Stem, I.D. 10	24	77.0	27.7
411.13-T	107622	Stem, I.D. 13	24	75.3	27.7
411.16-T	107623	Stem, I.D. 16	24	75.3	27.7
411.19-T	107624	Stem, I.D. 19	24	74.3	27.7



Male



Female



Hose connection

**Stem for couplings DN 10, hardened, galvanised steel, robust type**

Type No.	Art. No.	Description	a/f mm	Length mm	L1 mm	L2 mm	Ø mm
410.91	107471	Stem, I.D. 10	-	46.0	21.3	21.0	10.4
410.92	107472	Stem, I.D. 13	-	45.0	21.3	21.0	10.4

**Plug for couplings DN 10, hardened, galvanised steel, robust type, male**

Type No.	Art. No.	Description	a/f mm	Length mm	L1 mm	L2 mm	Ø mm
410.93	107473	Plug R 3/8 male	17	41.0	21.3	11.4	10.4
410.94	107474	Plug R 1/2 male	22	48.0	21.3	15.0	10.4

**Plug for couplings DN 10, hardened, galvanised steel, robust type, female**

Type No.	Art. No.	Description	a/f mm	Length mm	L1 mm	L2 mm	Ø mm
410.95	107475	Plug G 3/8 female	20	38.0	21.3	11.4	10.4
410.96	107476	Plug G 1/2 female	27	44.0	21.3	15.0	10.4



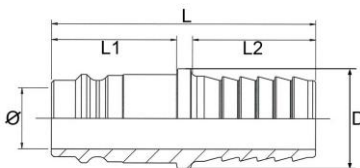
410.92



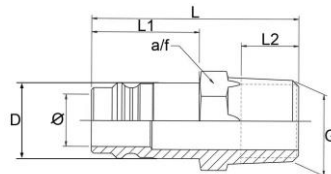
410.93



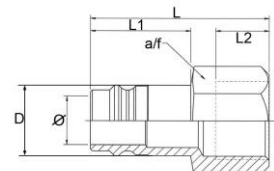
410.95



Stem



Plug male



Plug female

## Installation location

The installation location of the quick-connect coupling must be selected so that the health of the person operating it cannot be harmed by sources of danger in the immediate surroundings, e.g. from slipping, jamming, contaminating or burning.

## Low pressure applications

Threads for low-pressure applications are, if series-related no corresponding coatings or sealing rings are present, to be provided with suitable sealing materials, such as a PTFE belt or liquid sealing agent. Here the resistance to the flowing medium must be paid attention to.

## Service manual

Quick-connect couplings are predominantly maintenance-free, if used in standard applications and handled carefully. The selection of the quick-connect coupling must be compatible with the intended purpose of use and material. Depending on the operating conditions it is recommended to provide the following points during maintenance:

**External visual inspection** with dirt in the functioning area of coupling and plug (seal area, control elements) these must be cleaned. The following distinguishing symptoms require replacement of the corresponding parts: Torn, damaged, heavily damaged or corroded parts, leaks on coupling and / or plug parts.

**Function test** under maximum Max. operating pressure can be used to test the quick-connect coupling for possible malfunctions and leaks. During the testing and operating phase it must be ensured that the operating personnel work protected.

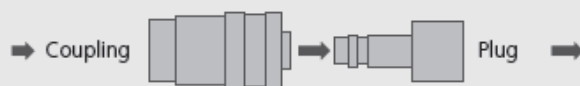
**Replacement intervals** for quick-connect couplings must, if available, be adapted to the state or technical standards. However, also operating experiential values, which result from the required operational safety and the conditions of use, such as downtimes, coupling frequency, Max. operating pressure and properties of the medium, are critical for establishing the replacement intervals.

## Pulsating tool

When using pulsating tools it is recommended to observe the standard ISO 6150, § 7.1. It recommends installing a minimum 300 mm long, flexible hose between the pulsating tool and the quick-connect coupling. The oscillating forces are taken by the hose piece and thus increase the service life of the quick-connect coupling. No warranty can be made for couplings mounted directly on pulsating tools.

## Flow direction

The recommended flow direction is from the coupling to the plug if nothing else is specified in the technical data sheet.



## Application with hoses

When using hoses the permissible Max. operating pressure and the working temperature must absolutely be observed and suitable hose connections must be seen to.