

»R244AL« series, swivel type

High-quality, robust and durable, one-hand quick disconnect safety couplings. When it is pressed for the first time, air is relieved from the coupling but the plug in the coupling remains locked. The plug is only disconnected when the pushbutton is pressed for the second time. The dreaded "whiplash effect" is avoided and the risk of injury to the operator virtually eliminated.



The 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.

Only use hardened and galvanized steel plug-in connector and nipples.

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



Operating pressure:	Max. 12 bar
Medium and ambient temperature:	-20 °C to 70 °C
Flow rate (air):	1.600 l/min (at 6 bar and $\Delta p = 1$ bar)
Housing:	Anodised aluminium
Pushbutton and valve:	Hardened, galvanised steel
Valve trim:	Stainless steel 1.4404
Port:	Nickel-plated brass
Sealant:	NBR



244.11-D



244.21-D



244.32-D

## Pushbutton safety coupling DN 7.4, male, swivel type

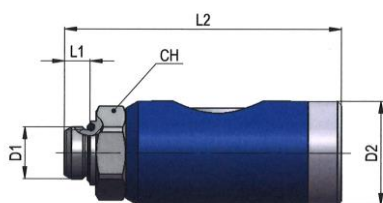
Type No.	Art. No.	Connection	a/f mm	L1 mm	L2 mm	D2 mm	Weight g
244.11-D	107565	G 1/4 male	21	6.5	70.0	26.0	144.0
244.12-D	107566	G 3/8 male	21	7.0	70.0	26.0	143.0
244.13-D	107567	G 1/2 male	25	8.5	72.5	26.0	146.0

## Pushbutton safety coupling DN 7.4, female, swivel type

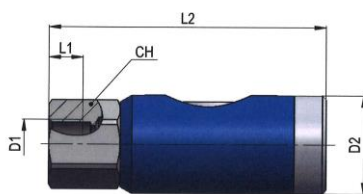
Type No.	Art. No.	Connection	a/f mm	L1 mm	L2 mm	D2 mm	Weight g
244.21-D	107568	G 1/4 female	21	9.0	73.5	26.0	144.0
244.22-D	107569	G 3/8 female	21	10.0	75.5	26.0	121.0
244.23-D	107570	G 1/2 female	24	11.0	77.5	26.0	150.0

**Pushbutton safety coupling DN 7.4, with hose stem, swivel type**

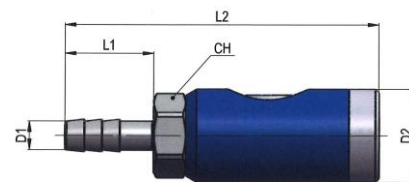
Type No.	Art. No.	Connection	a/f mm	L1 mm	L2 mm	D2 mm	Weight g
244.31-D	107571	Stem, I.D. 6	21	25.0	88.5	26.0	110.0
244.31-D8	107572	Stem, I.D. 8	21	25.0	88.5	26.0	127.0
244.32-D	107573	Stem, I.D. 9	21	25.0	88.5	26.0	112.0
244.32-D10	107574	Stem, I.D. 10	21	25.0	88.5	26.0	-
244.33-D	107575	Stem, I.D. 13	21	25.0	88.5	26.0	121.0



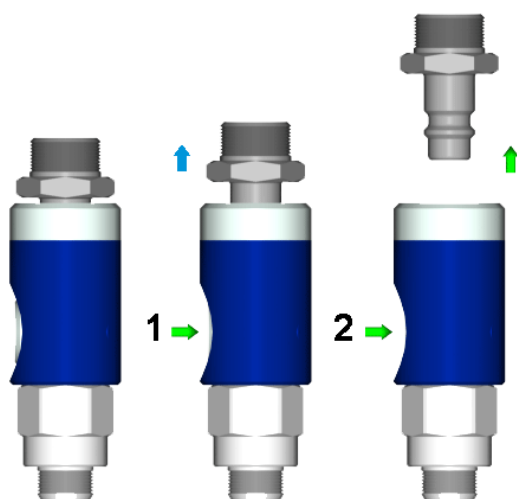
Male



Female



Hose stem



**Connection**

Insert the plug into the coupler

**To release**

Step 1: Press the button once to vent the downstream air from the circuit. At this time the plug is still captive in the coupling.

Step 2: Press the button one more time to release the plug.

### Stem for couplings DN 7.2 - DN 7.8, hardened, galvanised steel

Type No.	Art. No.	Description	a/f mm	L mm	D mm	L1 mm
243.06 ST	107541	Stem, I.D. 6	-	48.0	12.0	25.0
243.06 ST-8	107542	Stem, I.D. 8	-	48.0	12.0	25.0
243.07 ST	107543	Stem, I.D. 9	-	48.0	12.0	25.0
243.07 ST-10	107544	Stem, I.D. 10	-	48.0	12.0	25.0
243.10 ST	107545	Stem, I.D. 13	-	48.0	12.0	25.0

### Plug for couplings DN 7.2 - DN 7.8, hardened, galvanised steel, male

Type No.	Art. No.	Description	a/f mm	L mm	D mm	L1 mm
243.49 ST	107546	Plug, G 1/8 male	13	33.0	-	9.0
243.50 ST	107547	Plug, G 1/4 male	17	32.0	-	9.0
243.51 ST	107548	Plug, G 3/8 male	19	34.0	-	9.0
243.52 ST	107549	Plug, G 1/2 male	24	38.0	-	11.0

### Plug for couplings DN 7.2 - DN 7.8, hardened, galvanised steel, female

Type No.	Art. No.	Description	a/f mm	L mm	D mm	L1 mm
243.54 ST	107550	Plug, G 1/8 female	14	30.0	-	10.0
243.55 ST	107551	Plug, G 1/4 female	17	39.0	-	16.0
243.56 ST	107552	Plug, G 3/8 female	19	40.0	-	16.0
243.57 ST	107553	Plug, G 1/2 female	24	44.0	-	16.0



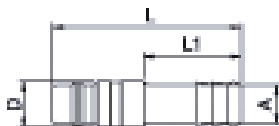
243.06 ST



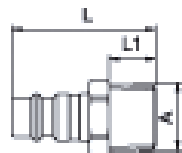
243.50 ST



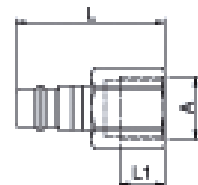
243.55 ST



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.