

»R244AAL« 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.

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

Max. operating pressure	12 bar
Medium temperature	-20 °C to 70 °C
Ambient temperature	-20 °C to 70 °C
Flow rate	1.080 l/min (air)
Flow rate measurement	at 6 bar and $\Delta p = 1$ bar
Housing	Anodised aluminium
Pushbutton	Hardened, galvanised steel
Valve	Hardened, galvanised steel
Internal parts	Stainless steel 1.4404
Threaded piece	Nickel-plated brass
Sealant	NBR
Plug profile	acc. ARO 210



244.11-D-A



244.21-D-A



244.32-D-A

Pushbutton safety coupling DN 5.5, acc. ARO 210, male, swivel type

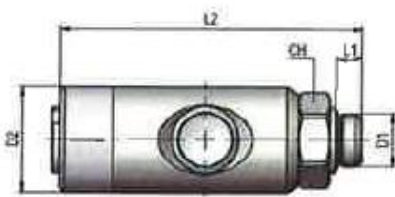
Art. No.	Type No.	Connection	a/f mm	L1 mm	L2 mm	D2 mm	Weight g
134054	244.11-D-A	G 1/4 ET	21	6.5	75.0	26.0	144.84
134055	244.12-D-A	G 3/8 ET	21	7.0	75.0	26.0	146.17
134056	244.13-D-A	G 1/2 ET	25	8.5	77.5	26.0	168.27

Pushbutton safety coupling DN 5.5, acc. ARO 210, female, swivel type

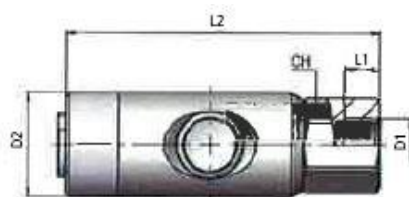
Art. No.	Type No.	Connection	a/f mm	L1 mm	L2 mm	D2 mm	Weight g
134057	244.21-D-A	G 1/4 IT	21	9.0	78.5	26.0	166.11
134058	244.22-D-A	G 3/8 IT	21	10.0	80.5	26.0	162.80
134059	244.23-D-A	G 1/2 IT	24	11.0	82.5	26.0	175.08

Pushbutton safety coupling DN 5.5, acc. ARO 210, with hose stem, swivel type

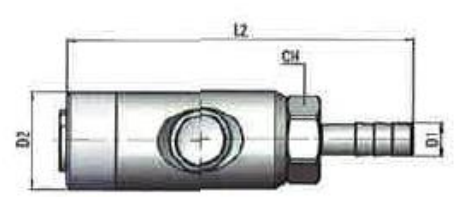
Art. No.	Type No.	Connection	a/f mm	L2 mm	D2 mm	Weight g
134060	244.31-D-A	Stem, I.D. 6	21	93.5	26.0	148.21
134061	244.32-D-A	Stem, I.D. 9	21	93.5	26.0	150.19
134062	244.33-D-A	Stem, I.D. 13	21	93.5	26.0	157.84



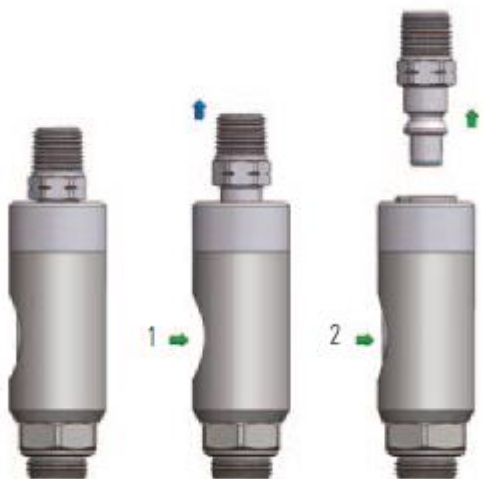
Male



Female



Hose connection



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 5.5, ARO 210, hardened, galvanised steel

Art. No.	Type No.	Description	a/f mm	L mm
134063	243.06-A-ST	Stem, I.D. 6	-	50.0
134064	243.07-A-ST	Stem, I.D. 9	-	50.0
134065	243.10-A-ST	Stem, I.D. 13	-	50.0

Plug for couplings DN 5.5, ARO 210, hardened, galvanised steel, male

Art. No.	Type No.	Description	a/f mm	L mm
134066	243.49-A-ST	Plug, G 1/8 ET	13	38.0
134067	243.50-A-ST	Plug, G 1/4 ET	14	42.0
134068	243.51-A-ST	Plug, G 3/8 ET	17	43.0
134069	243.52-A-ST	Plug, G 1/2 ET	22	43.0
140095	243.60-A-ST	Plug, R 1/8 ET	13	41.0
140096	243.61-A-ST	Plug, R 1/4 ET	14	44.0
140099	243.62-A-ST	Plug, R 3/8 ET	17	44.0
140100	243.63-A-ST	Plug, R 1/2 ET	22	48.0

Plug for couplings DN 5.5, ARO 210, hardened, galvanised steel, female

Art. No.	Type No.	Description	a/f mm	L mm
134070	243.54-A-ST	Plug, G 1/8 IT	14	34.0
134071	243.55-A-ST	Plug, G 1/4 IT	17	36.0
134072	243.56-A-ST	Plug, G 3/8 IT	19	36.0
134073	243.57-A-ST	Plug, G 1/2 IT	24	40.0



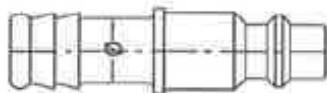
243.07-A-ST



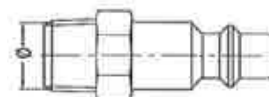
243.51-A-ST



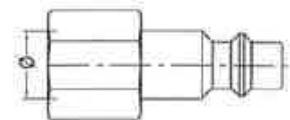
243.56-A-ST



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.