



»R16K« series, with high flow rates

One-hand quick disconnect couplings, one side sealing, that combine high flow rates (approx. twice as high as the popular DN 7.2 standard coupling) with minimal coupling forces.

Suitable for all applications with an above-average air requirement!

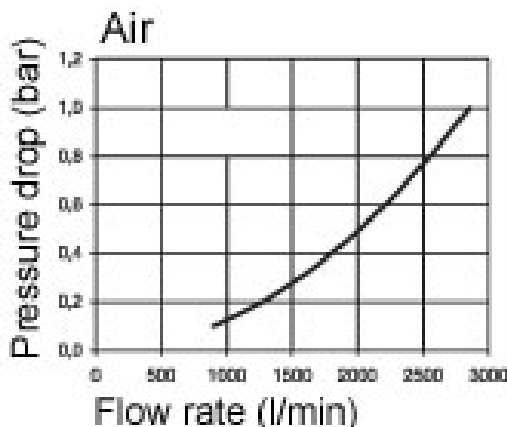
To prevent injuries or a "whiplash" effect, we recommend that the plug-in nipple is held with one hand during uncoupling.

These quick disconnect 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, measurement, monitoring and control systems, manufacturing industry, medical technology, chemical / pharmaceutical industry, workshops, automotive, food technology, aerospace.

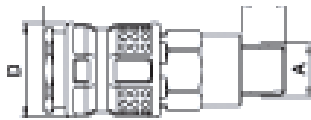
Operating pressure	0 - 35 bar
Medium temperature	-20 °C to 40 °C
Ambient temperature	-20 °C to 40 °C
Flow rate (air)	2100 l/min (air)
Flow rate measurement	at 6 bar and $\Delta p = 0.5$ bar
Threaded piece	Nickel-plated brass
Valve body	Steel, QPQ treated
Unlocking sleeve	Extremely robust, ergonomic plastic
Valve	Brass
Valve, seat	Brass
Spring	Stainless steel
Retaining ring	Stainless steel
Ball	Stainless steel
Sealant	NBR

Flow rate:





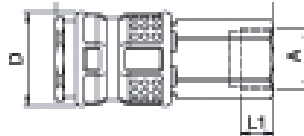
241.11



male



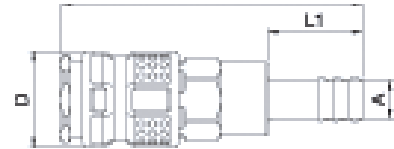
241.21



female



241.31



Hose connection

Quick disconnect coupling DN 7.8 - for extremely high flow rates, male

Type No.	Article No.	Connection	a/f mm	L mm	D mm	L1 mm
241.11	107406	R 1/4 male	19	65.0	25.0	12.0
241.12	107407	R 3/8 male	19	65.0	25.0	12.0
241.13	107408	R 1/2 male	22	59.0	25.0	17.0

Quick disconnect coupling DN 7.8 - for extremely high flow rates, female

Type No.	Article No.	Connection	a/f mm	L mm	D mm	L1 mm
241.21	107409	G 1/4 female	19	59.0	25.0	9.0
241.22	107410	G 3/8 female	19	59.0	25.0	9.0
241.23	107411	G 1/2 female	24	62.0	25.0	12.0

Quick disconnect coupling DN 7.8 - for extremely high flow rates, with hose stem

Type No.	Article No.	Connection	a/f mm	L mm	D mm	L1 mm
241.31	107412	Stem, I.D. 6 mm	19	80.0	25.0	25.0
241.32	107413	Stem, I.D. 8 mm	19	80.0	25.0	25.0
241.33	107414	Stem, I.D 9 mm	19	80.0	25.0	25.0
241.34	107415	Stem, I.D 10 mm	19	80.0	25.0	25.0
241.35	107416	Stem, I.D. 13 mm	19	80.0	25.0	25.0

QPQ means Quench-Polish-Quench and it thereby contains a TENIFER treatment combined with an oxidising cool down step that is done twice with an intermediate treatment (polishing). Oxidation gives components an aesthetic black surface which is resistant to corrosion and in many cases even overlays galvanic or chemical edge layers. The QPQ process is a good alternative to nickel or chrome plating of materials.



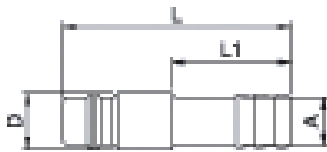
243.351-N



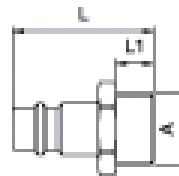
243.50-N



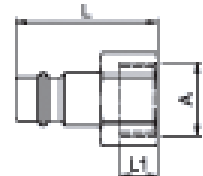
243.55-N



Stem



Plug male



Plug female

Stem for couplings DN 7.2 - DN 7.8, nickel-plated brass

Type No.	Article No.	Description	L mm	D mm	L1 mm
243.06-N	107300	Stem, I.D. 6	44.0	12.0	24.0
243.351-N	107301	Stem, I.D. 8	48.0	12.0	25.0
243.07-N	107302	Stem, I.D. 9	44.0	12.0	24.0
243.352-N	107303	Stem, I.D. 10	48.0	12.0	25.0
243.10-N	107304	Stem, I.D. 13	46.0	11.9	24.0

Plug for couplings DN 7.2 - DN 7.8, nickel-plated brass, male

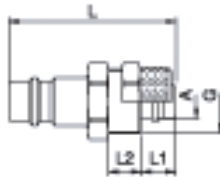
Type No.	Article No.	Description	a/f mm	L mm	L1 mm
243.48-N	107305	Plug, G 1/8 male	14	31.0	7.0
243.50-N	107306	Plug, G 1/4 male	17	32.0	8.0
243.51-N	107307	Plug, G 3/8 male	19	33.0	8.5
243.52-N	107308	Plug, G 1/2 male	24	35.0	10.0

Plug for couplings DN 7.2 - DN 7.8, nickel-plated brass, female

Type No.	Article No.	Description	a/f mm	L mm	L1 mm
243.54-N	107309	Plug, G 1/8 female	14	31.0	9.0
243.55-N	107310	Plug, G 1/4 female	17	32.0	10.0
243.56-N	107311	Plug, G 3/8 female	19	32.0	10.0
243.57-N	107312	Plug, G 1/2 female	24	34.0	12.0



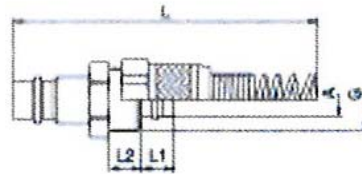
243.216-N



Plug for hose



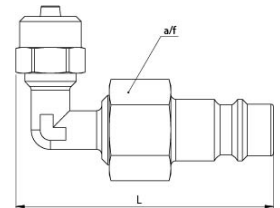
243.357-N



Plug for hose with swivel nut and kink protector spring



243.761



Push-in elbow

Plug for couplings DN 7.2 - DN 7.8, nickel-plated brass, for hose

Type No.	Article No.	Description	a/f mm	L mm	D mm	L1 mm	L2 mm
243.216-N	107313	Plug for hose 6x4	12	34.0	12.0	6.0	6.0
243.217-N	107314	Plug for hose 8x6	14	34.0	12.0	6.0	5.0
243.218-N	107315	Plug for hose 10x8	17	42.0	12.0	8.0	6.0

Plug for couplings DN 7.2 - DN 7.8, nickel-plated brass, for hose with swivel nut and kink protector spring

Type No.	Article No.	Description	a/f mm	L mm	D mm	L1 mm	L2 mm
243.355-N	107316	for hose 6x4 with swivel nut and kink protector spring	-	111.0	12.0	7.0	6.0
243.356-N	107317	for hose 8x6 with swivel nut and kink protector spring	-	117.0	12.0	7.0	6.0
243.357-N	107318	for hose 10x8 with swivel nut and kink protector spring	17	132.0	-	9.0	8.0
243.358-N	107319	for hose 12x9 with swivel nut and kink protector spring	17	139.0	-	9.0	8.0

Push-in elbow for coupling DN 7.2 - DN 7.8, nickel-plated brass

Type No.	Article No.	Description	L mm	Height mm
243.761	107254	Push-in elbow for hose 8x6	48.0	27.0

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.

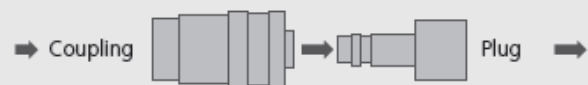
Replacement intervals for quick-connect couplings must, if available, be adapted to the state or technical standards. However, also operating experiential values, which result from the required operational safety and the conditions of use, such as downtimes, coupling frequency, Max. operating pressure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