

»R27MSV« series, with high flow rates

One-hand quick disconnect couplings, one side sealing, that combine high flow rates (approx. 3.5 times 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 to 35 bar
Medium and ambient temperature	-20 °C to 100 °C
Threaded piece	Nickel-plated brass
Valve body	Steel, QPQ treated
Unlocking sleeve	Nickel-plated brass
Valve, seat	Brass
Springs, retaining ring and balls	Stainless steel
Sealant	NBR



241.42

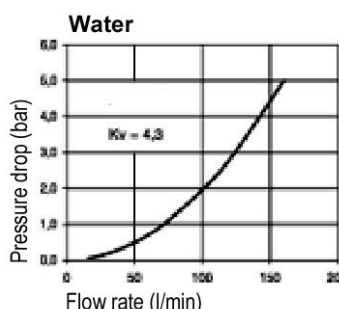
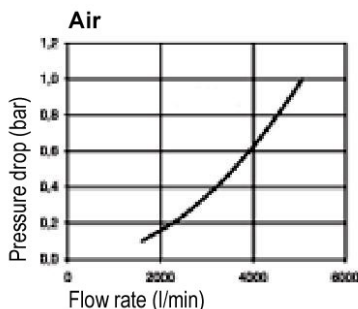


241.52



241.65

Durchflusswerte:



Quick disconnect coupling DN 10 - for extremely high flow rates, male

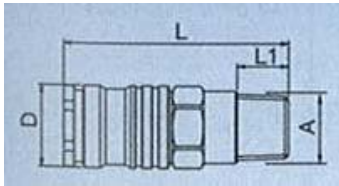
Type No.	Art. No.	Connection	a/f mm	L mm	D mm	L1 mm
241.42	107441	R 3/8 male	24	69.7	27.0	12.0
241.43	107442	R 1/2 male	24	74.7	27.0	17.0
241.44	107443	R 3/4 male	27	63.7	27.0	17.0

Quick disconnect coupling DN 10 - for extremely high flow rates, female

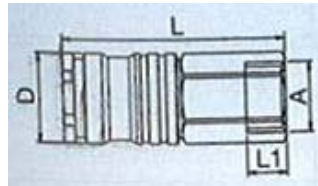
Type No.	Art. No.	Connection	a/f mm	L mm	D mm	L1 mm
241.52	107444	G 3/8 female	24	67.7	27.0	10.0
241.53	107445	G 1/2 female	24	67.6	27.0	11.0
241.54	107446	G 3/4 female	32	73.7	27.0	14.0

Quick disconnect coupling DN 10 - for extremely high flow rates, with hose stem

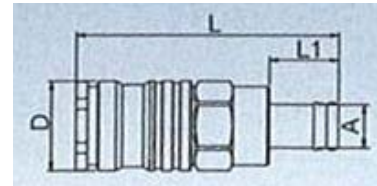
Type No.	Art. No.	Connection	a/f mm	L mm	D mm	L1 mm
241.64	107447	Stem, I.D. 10	24	79.7	27.0	21.0
241.65	107448	Stem, I.D. 13	24	79.7	27.0	21.0
241.66	107449	Stem, I.D. 16	24	79.7	27.0	21.0



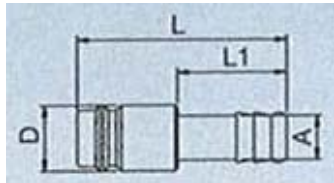
Male



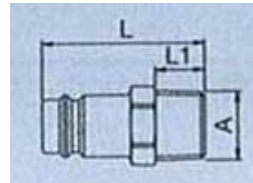
Female



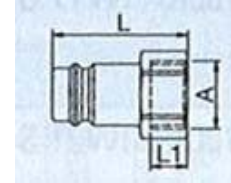
Hose connection



Stem



Plug male



Plug female



T 243/9



N 243/2



N 243/7

Stem for couplings DN 10, hardened, nickel-plated steel

Type No.	Art. No.	Description	a/f mm	L mm	D mm	L1 mm
T 243/6	107450	Stem, I.D. 6	-	48.0	15.0	25.0
T 243/8	107451	Stem, I.D. 8	-	48.0	15.0	25.0
T 243/9	107452	Stem, I.D. 9	-	48.0	15.0	25.0
T 243/10	107453	Stem, I.D. 10	-	48.0	15.0	25.0
T 243/13	107454	Stem, I.D. 13	-	48.0	15.0	25.0
T 243/16	107455	Stem, I.D. 16	-	49.0	18.0	25.0
T 243/19	107456	Stem, I.D. 19	-	49.0	21.0	25.0

Plug for couplings DN 10, hardened, nickel-plated steel, male PTFE coated

Type No.	Art. No.	Description	a/f mm	L mm	D mm	L1 mm
N 243/1	107457	Plug, R 1/4 male	17	40.0	-	12.0
N 243/2	107458	Plug, R 3/8 male	17	40.0	-	12.0
N 243/3	107459	Plug, R 1/2 male	22	45.0	-	17.0
N 243/4	107460	Plug, R 3/4 male	27	48.0	-	19.0

Plug for couplings DN 10, hardened, nickel-plated steel, female

Type No.	Art. No.	Description	a/f mm	L mm	D mm	L1 mm
N 243/6	107461	Plug, G 1/4 female	17	33.0	-	9.0
N 243/7	107462	Plug, G 3/8 female	19	33.0	-	9.0
N 243/8	107463	Plug, G 1/2 female	24	37.0	-	12.0
N 243/9	107464	Plug, G 3/4 female	32	42.0	-	16.0

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.