

»R21MSV« series

One-hand quick disconnect couplings, one side sealing, compact with a large bore and only a small pressure drop.

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



Areas of application: Pneumatic system, measurement, monitoring and control systems, manufacturing industry, medical technology, chemical / pharmaceutical industry, automotive, food technology.

Operating pressure	0 to 35 bar, maximum static working pressure (non-pulsating)
Medium and ambient temperature	-20 °C to 100 °C
Housing, sleeve and body	Nickel-plated brass
Spring, retaining ring, ball	Stainless steel
Sealant	NBR



243.19-N



243.21-N



243.26-N

### Quick disconnect coupling DN 5, nickel-plated brass, male

Type No.	Article No.	Connection	a/f mm	L mm	D mm	L1 mm
243.18-N	107158	G 1/8 male	14	36.5	16.0	7.0
243.19-N	107159	G 1/4 male	17	38.0	16.0	9.0
243.19/S-N	107160	G 3/8 male	19	38.0	16.0	9.0

### Quick disconnect coupling DN 5, nickel-plated brass, female

Type No.	Article No.	Connection	a/f mm	L mm	D mm	L1 mm
243.20-N	107161	G 1/8 female	14	38.0	16.0	9.0
243.21-N	107162	G 1/4 female	17	38.0	16.0	9.0
243.21/S-N	107163	G 3/8 female	19	40.0	16.0	10.5

### Quick disconnect coupling DN 5, nickel-plated brass with hose stem

Type No.	Article No.	Connection	a/f mm	L mm	D mm	L1 mm
243.25-N	107164	Stem, I.D. 4	-	47.0	16.0	17.0
243.42-N	107165	Stem, I.D. 5	-	46.0	16.0	17.0
243.26-N	107166	Stem, I.D. 6	-	46.0	16.0	17.0
243.43-N	107167	Stem, I.D. 8	-	46.0	16.0	17.0
243.26/S-N	107168	Stem, I.D. 9	-	46.0	16.0	17.0



243.27-N



243.35-N



243.006-N



243.008-N

**Quick disconnect coupling DN 5, nickel-plated brass with hose connector**

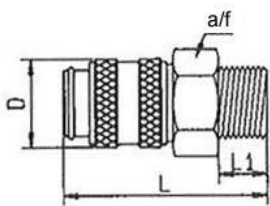
Type No.	Article No.	Connection	a/f mm	L mm	D mm	L1 mm
243.27-N	107169	Hose connection 6x4	14	43.0	16.0	-
243.28-N	107170	Hose connection 8x6	14	43.0	16.0	-

**Quick disconnect coupling DN 5, nickel-plated brass with hose connector, swivel nut and kink protector spring**

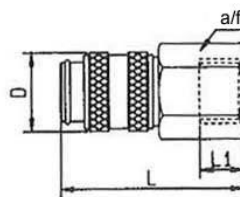
Type No.	Article No.	Version	Connection	a/f mm	L mm	D mm
243.35-N	107171	Rigid	Hose connection 6x4	14	120.0	16.0
243.36-N	107172	Rigid	Hose connection 8x6	14	132.0	16.0
243.37-N	107173	Swivelling 360°	Hose connection 6x4	14	134.0	16.0
243.38-N	107174	Swivelling 360°	Hose connection 8x6	14	142.5	16.0

**Quick disconnect coupling DN 5, nickel-plated brass, with push-in fitting**

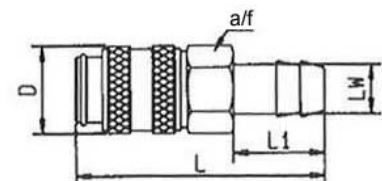
Type No.	Article No.	Connection	a/f mm	L mm	D mm
243.006-N	107175	6 mm	14	43.5	16.0
243.008-N	107176	8 mm	17	46.5	16.0



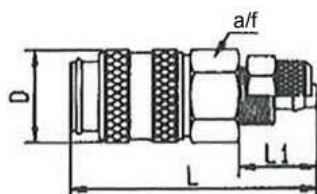
Male



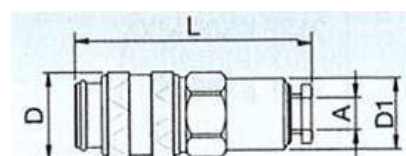
Female



Stem



Hose connection



push-in

## Stem for couplings DN 5, nickel-plated brass

Type No.	Article No.	Description	a/f mm	L mm	D mm	L1 mm	L2 mm
243.16-N	107177	Stem, I.D. 4	-	27.3	8.9	14.0	13.0
243.17-N	107178	Stem, I.D. 6	-	32.0	8.9	14.0	17.7
243.17/S-N	107179	Stem, I.D. 9	-	33.6	8.9	14.0	17.7

## Plug for couplings DN 5, nickel-plated brass, for hose

Type No.	Article No.	Description	a/f mm	L mm	D mm	L1 mm	L2 mm
243.29-N	107180	Plug for hose 6x4	14	32.2	-	14.0	14.0
243.30-N	107181	Plug for hose 8x6	14	32.2	-	14.0	14.0

## Plug for couplings DN 5, nickel-plated brass, for hose with swivel nut and kink protector

Type No.	Article No.	Description	a/f mm	L mm	D mm	L1 mm	L2 mm
243.39-N	107182	Plug for hose 6x4	12	110.0	-	-	-
243.39/1-N	107183	Plug for hose 8x6	14	120.0	-	-	-

## Plug for couplings DN 5, nickel-plated brass, male

Type No.	Article No.	Description	a/f mm	L mm	D mm	L1 mm	L2 mm
243.031-N	107184	Plug, G 1/8 male	14	25.0	-	14.0	7.0
243.032-N	107185	Plug, G 1/4 male	17	26.2	-	14.0	8.0
243.032/S-N	107186	Plug, G 3/8 male	19	26.7	-	14.0	8.5

## Plug for couplings DN 5, nickel-plated brass, female

Type No.	Article No.	Description	a/f mm	L mm	D mm	L1 mm	L2 mm
243.033-N	107187	Plug, G 1/8 female	14	25.0	-	14.0	9.0
243.034-N	107188	Plug, G 1/4 female	17	26.0	-	14.0	10.0
243.034/S-N	107189	Plug, G 3/8 female	19	26.0	-	14.0	10.0

## Push-in plug for couplings DN 5, nickel-plated brass

Type No.	Article No.	Description	a/f mm	L mm	D mm
243.600-N	107190	Push-in plug, 6 mm	14	33.0	13.0
243.800-N	107191	Push-in plug, 8 mm	17	37.0	15.0



243.17-N



243.29-N



243.39/1-N



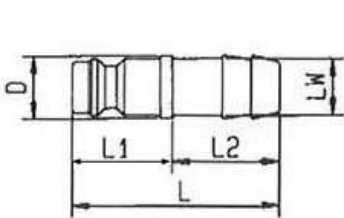
243.032-N



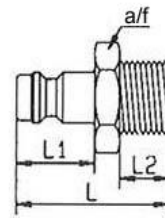
243.034-N



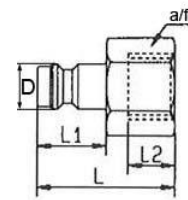
243.600-N



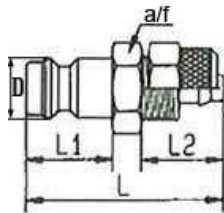
Stem



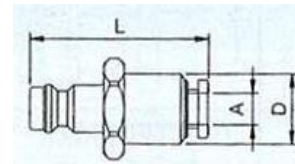
Plug (male)



Plug (female)

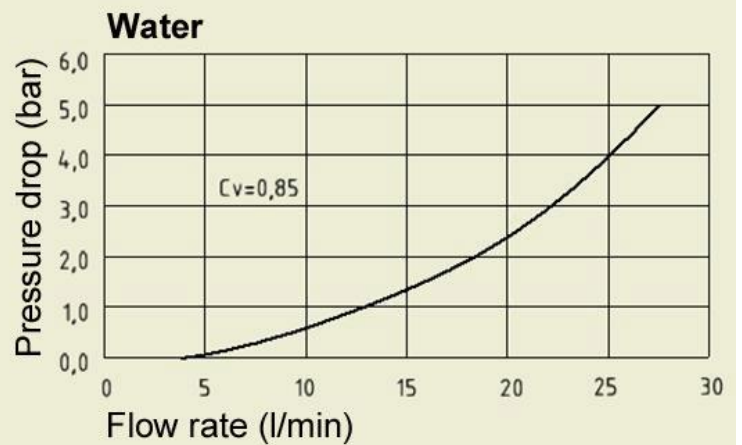
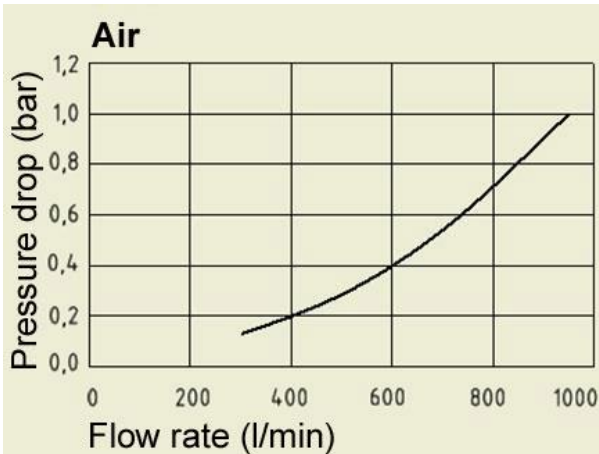


Plug for hose



push-in

Flow charts



## 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.

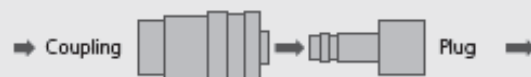
**Replacement intervals** for quick-connect couplings must, if available, be adapted to the state or technical standards. However, also operating experiential values, which result from the required operational safety and the conditions of use, such as downtimes, coupling frequency, Max. operating pressure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