



»R20MSV« series

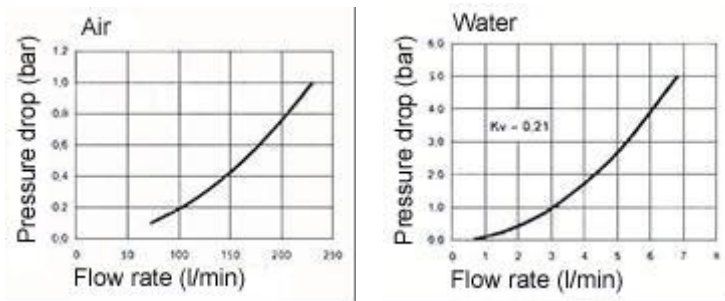
One-hand quick disconnect couplings, one side sealing, extremely compact with a large bore and only a small pressure drop.

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, machine and plant engineering, measurement, monitoring and control systems, manufacturing industry, medical technology, chemical / pharmaceutical industry, automotive.

Operating pressure	0 to 35 bar, maximum static working pressure (non-pulsating)
Medium temperature	-20 °C to 100 °C
Ambient temperature	-20 °C to 100 °C
Housing	Nickel-plated brass
Sleeve	Nickel-plated brass
Valve Body	Nickel-plated brass
Spring	Stainless steel
Retaining ring	Stainless steel
Ball	Stainless steel
Sealant	NBR

Flow values:



### Quick disconnect coupling DN 2.7, nickel-plated brass, male

Type No.	Article No.	Connection	a/f mm	L mm	D mm	L1 mm
243.08/1-N	107087	M5 male	9	26.0	10.0	5.0
243.08/2-N	107088	G 1/8 male	11	28.0	10.0	7.0

### Quick disconnect coupling DN 2.7, nickel-plated brass, female

Type No.	Article No.	Connection	a/f mm	L mm	D mm	L1 mm
243.08/3-N	107089	M5 female	9	25.0	10.0	5.0
243.08/4-N	107090	G 1/8 female	12	28.0	10.0	7.0

**Quick disconnect coupling DN 2.7, nickel-plated brass, with hose stem**

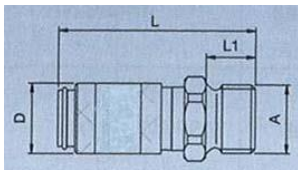
Type No.	Article No.	Connection	L mm	D mm	L1 mm
243.08/5-N	107091	Stem, I.D. 3	35.0	10.0	13.0
243.08/6-N	107092	Stem, I.D. 4	35.0	10.0	13.0

**Quick disconnect coupling DN 2.7, nickel-plated brass, with hose connector**

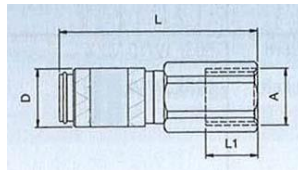
Type No.	Article No.	Connection	L mm	D mm	L1 mm	L2 mm	G mm
243.08/7-N	107093	Hose connection 4x3	34.0	10.0	7.0	5.0	M7x0.5
243.08/8-N	107094	Hose connection 5x3	34.0	10.0	7.0	5.0	M7x0.5
243.08/9-N	107095	Hose connection 6x4	34.0	10.0	7.0	5.0	M8x0.5

**Quick disconnect coupling DN 2.7, nickel-plated brass, with push-in fitting**

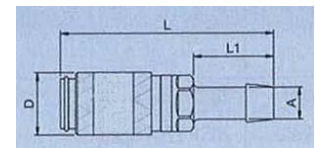
Type No.	Article No.	Connection	a/f mm	L mm	D mm
243.08/10-N	107096	4 mm	10	35.0	10.0



male



female



Hose stem



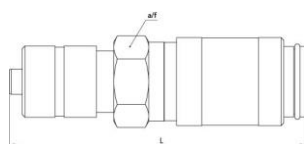
243.08/2-N



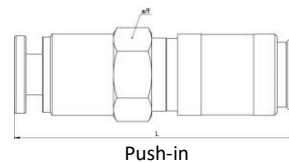
243.08/4-N



243.08/6-N



Hose connector



Push-in



243.08/8-N



243.08/10-N

## Stem for couplings DN 2.7, nickel-plated brass

Type No.	Article No.	Description	L mm	D mm	L1 mm
243.09/1-N	107097	Stem, I.D. 3	24.0	7.0	13.0
243.09/2-N	107098	Stem, I.D. 4	24.0	7.0	13.0

## Plug for couplings DN 2.7, nickel-plated brass, for hose

Type No.	Article No.	Description	a/f mm	L mm	L1 mm	L2 mm	G mm
243.09/3-N	107099	Plug for hose 4x3	7	25.0	7.0	5.0	M7x0.5
243.09/4-N	107100	Plug for hose 5x3	7	25.0	7.0	5.0	M7x0.5
243.09/5-N	107101	Plug for hose 6x4	8	25.0	7.0	5.0	M8x0.5

## Plug for couplings DN 2.7, nickel-plated brass, male

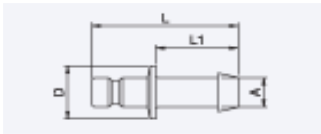
Type No.	Article No.	Description	a/f mm	L mm	L1 mm
243.09/6-N	107102	Plug, M5 male	7	18.0	5.0
243.09/7-N	107103	Plug, G 1/8 male	11	20.0	7.0

## Plug for couplings DN 2.7, nickel-plated brass, female

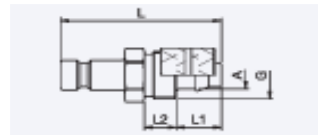
Type No.	Article No.	Description	a/f mm	L mm	L1 mm
243.09/8-N	107104	Plug, M5 female	7	17.0	5.0
243.09/9-N	107105	Plug, G 1/8 female	12	19.0	7.0

## Push-in plug for couplings DN 2.7, nickel-plated brass

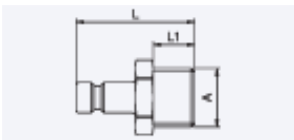
Type No.	Article No.	Description	a/f mm	L mm	D mm
243.09/10-N	107106	4 mm	10	25.0	10.0



Stem



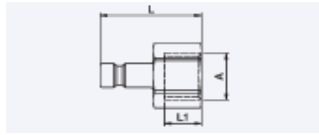
Plug for hose



male



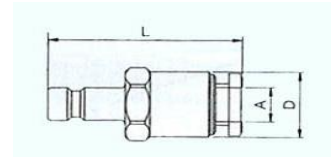
.09/2-N



female



243.09/5-N



push-in



243.09/6-N



243.09/8-N



243.09/10-N

## 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.