



»R27EMSV« series

Single-sided blocking and robust quick connect coupling with high flow performance.

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 100 °C
Ambient temperature	-20 °C to 100 °C
Flow rate	3500 l/min (air)
Flow rate measurement	at 6 bar and $\Delta p = 0.5$ bar
Housing	Nickel-plated brass
Valve	Nickel-plated brass
Spring	Stainless steel
Sleeve	Galvanised steel
Threaded piece	Nickel-plated brass
Sealant	NBR

### Quick disconnect coupling DN 10, steel / nickel-plated brass, male

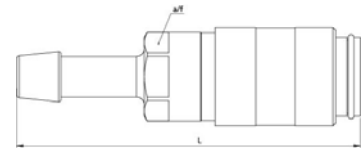
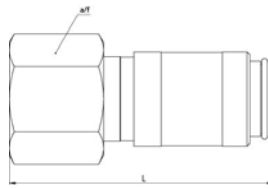
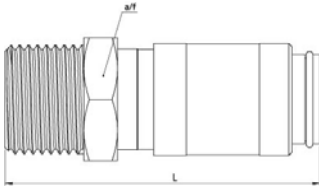
Art. No.	Type No.	Connection	Length mm	a/f mm
141553	241.42-E	R 3/8 ET	65.0	24
141554	241.43-E	R 1/2 ET	65.0	24
141555	241.44-E	R 3/4 ET	65.0	27

### Quick disconnect coupling DN 10, steel / nickel-plated brass, female

Art. No.	Type No.	Connection	Length mm	a/f mm
141556	241.52-E	G 3/8 IT	59.0	24
141557	241.53-E	G 1/2 IT	62.0	24
141558	241.54-E	G 3/4 IT	66.0	30

### Quick disconnect coupling DN 10, steel / nickel-plated brass, with hose stem

Art. No.	Type No.	Connection	Length mm	a/f mm
141559	241.64-E	Stem, I.D. 10	75.0	24
141560	241.65-E	Stem, I.D. 13	75.0	24
142168	241.66-E	Stem, I.D. 16	75.0	24



241.42-E



241.52-E



241.64-E

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

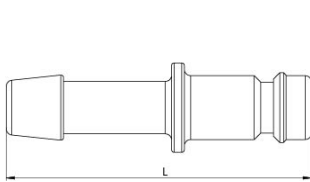
Art. No.	Type No.	Description	Length mm
107450	T 243/6	Stem, I.D. 6	48.0
107451	T 243/8	Stem, I.D. 8	48.0
107452	T 243/9	Stem, I.D. 9	48.0
107453	T 243/10	Stem, I.D. 10	48.0
107454	T 243/13	Stem, I.D. 13	48.0
107455	T 243/16	Stem, I.D. 16	49.0
107456	T 243/19	Stem, I.D. 19	49.0

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

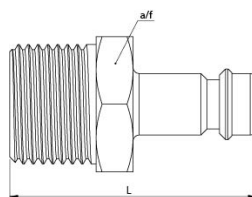
Art. No.	Type No.	Description	Length mm	a/f mm
107457	N 243/1	Plug, R 1/4 ET	40.0	17
107458	N 243/2	Plug, R 3/8 ET	40.0	17
107459	N 243/3	Plug, R 1/2 ET	45.0	22
107460	N 243/4	Plug, R 3/4 ET	48.0	27

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

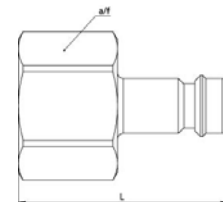
Art. No.	Type No.	Description	Length mm	a/f mm
107461	N 243/6	Plug, G 1/4 IT	33.0	17
107462	N 243/7	Plug, G 3/8 IT	33.0	19
107463	N 243/8	Plug, G 1/2 IT	37.0	24
107464	N 243/9	Plug, G 3/4 IT	42.0	32



T 243/9



N 243/2



N 243/7



## 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.