

»R21ES« series

One-hand quick disconnect couplings, one side sealing, made of stainless steel 1.4305, compact with a large bore.

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, offshore.

Operating pressure	0 to 35 bar, maximum static working pressure (non-pulsating)
Medium and ambient temperature	-15 °C to 200 °C
Housing, sleeve and valve body	Stainless steel 1.4305
Spring, retaining ring, balls	Stainless steel
Sealant	FKM



243.330

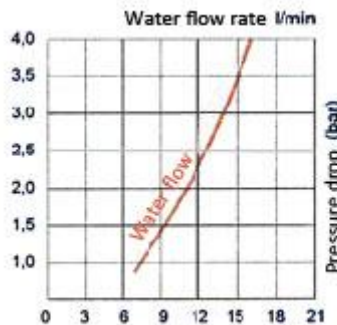
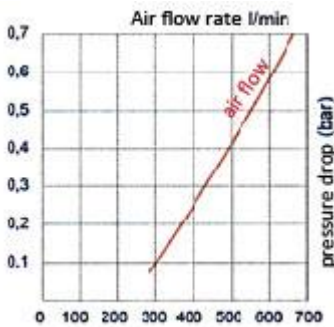


243.431



243.532

Flow charts:



Quick disconnect couplings DN 5, stainless steel 1.4305, male

Type No.	Art. No.	Connection	L mm	L1 mm	W	a/f mm
243.330	107192	G 1/8 male	36.0	7.0	45°	14
243.331	107193	G 1/4 male	38.0	9.0	45°	17
243.332	107194	G 3/8 male	38.0	9.0	45°	19

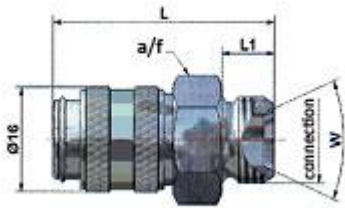
Quick disconnect couplings DN 5, stainless steel 1.4305, female

Type No.	Art. No.	Connection	L mm	L1 mm	a/f mm
243.430	107195	G 1/8 female	36.0	7.0	14
243.431	107196	G 1/4 female	38.0	7.5	17
243.432	107197	G 3/8 female	38.0	7.5	19

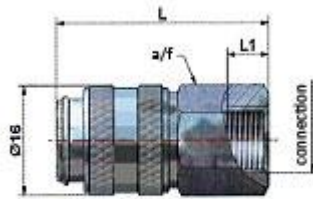
Quick disconnect couplings DN 5, stainless steel 1.4305, with hose stem

Type No.	Art. No.	Connection	L mm	L1 mm	a/f mm
243.532	107198	Stem, I.D. 6	46.0	17.0	14

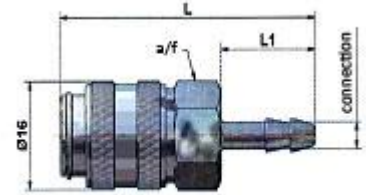
Quick disconnect couplings:



Male

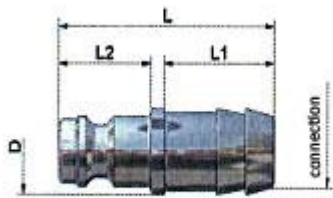


Female

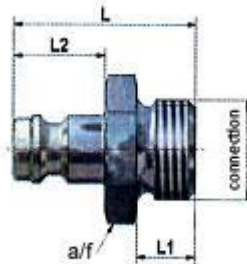


Hose stem

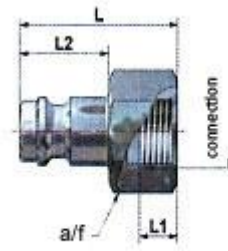
Stems and plugs:



Stem



Plug, male



Plug, female



243.815



243.856



243.875

Stems DN 5, stainless steel 1.4305

Type No.	Art. No.	Description	L mm	L1 mm	L2 mm	D mm
243.813	107199	Stem, I.D. 6	32.0	17.0	14.0	9.0
243.814	107200	Stem, I.D. 8	32.0	17.0	14.0	9.0
243.815	107201	Stem, I.D. 9	33.0	17.0	14.0	10.0

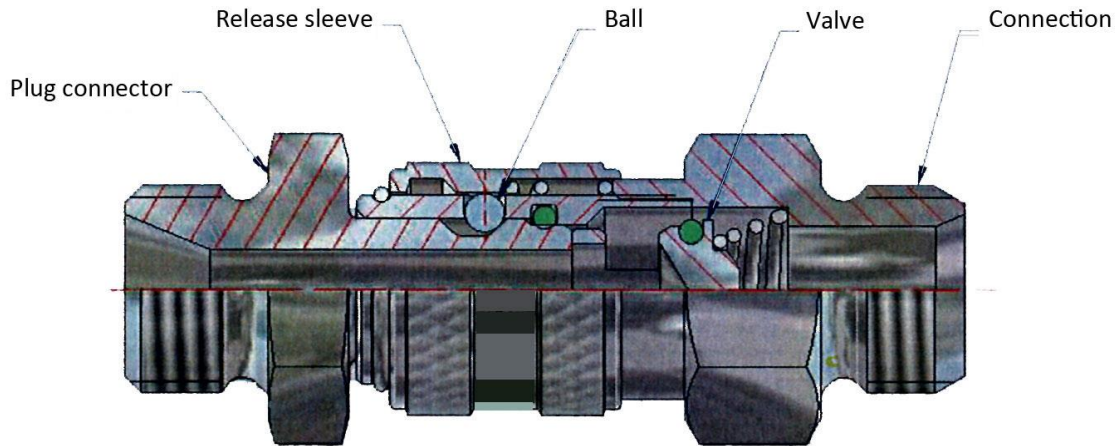
Plugs DN 5, stainless steel 1.4305, male

Type No.	Art. No.	Description	L mm	L1 mm	L2 mm	a/f mm
243.855	107202	Plug, G 1/8 male	25.0	7.0	14.0	14
243.856	107203	Plug, G 1/4 male	28.0	9.0	14.0	17
243.857	107204	Plug, G 3/8 male	28.0	9.0	14.0	19

Plugs DN 5, stainless steel 1.4305, female

Type No.	Art. No.	Description	L mm	L1 mm	L2 mm	a/f mm
243.875	107205	Plug, G 1/8 female	25.0	6.0	14.0	14
243.876	107206	Plug, G 1/4 female	26.0	7.0	14.0	17

Function



Single-handed coupling with automatic 5-point locking.

Locking elements are balls that are locked by a spring-loaded release sleeve. The de-coupling process is started by pushing the release sleeve back in the direction of the connection.

The valve returns to its original position and pushes the plug connector out of the coupling.

Valve



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.