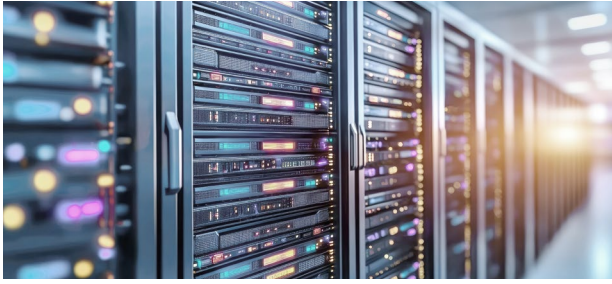




Stainless steel quick couplings

Compact and versatile



Energy technology / IT

Compact, reliable and can be uncoupled dry

In the energy and IT tech sectors, liquid coolant systems are essential for regulating the performance of frequency inverters, transformers, network components and server hardware.

SERTO stainless steel couplings can provide leakage-free connections in the tightest of spaces and are hard-wearing, low-maintenance and exceptionally reliable over extended use.

Typical applications

- Cooling systems for frequency inverters, power inverters and rectifiers
- Temperature regulation and cooling devices



Industrial technology

Robust and versatile with process reliability

In industrial production, a wide variety of media must be reliably conveyed – from gases and liquids to aggressive chemicals, lubricants and foodstuffs. Leak-free, durable and low-maintenance connections are crucial for the safety and efficiency of the systems.

SERTO stainless steel couplings are designed to fulfil these requirements and provide maximum process reliability, even under the most demanding conditions – whether in the chemical industry, in plant engineering, in food production or in the supply of media to machines and devices.

Typical applications

- Lines for gases, liquids and lubricants
- Transport and metering of chemicals and aggressive media
- Media supply in the food and process industry

Applications and markets – precise solutions for every environment



Pharma & biotech

Hygienic, secure and simple

In pharmaceutical and biotechnological processes, media and temperature control circuits must be connected quickly, securely and without any contamination.

SERTO quick couplings meet these requirements thanks to their one-handed operation, clear mechanical and colour coding and smooth, easy-to-clean surfaces – ideal for use in clean rooms and sensitive environments.

Typical applications

- Temperature control circuits in reactors, fermenters and mixers
- Media supply for storage tanks and filling lines



Semiconductors / lasers

Clean, coded and precise

In semiconductor and laser technology, the requirements for cleanliness, process reliability and repeatability are extremely strict.

SERTO stainless steel couplings offer leakage-free, lubricant-free and mechanically coded connections for ultrapure water, gas or solvent circuits that are reliable even under clean room conditions.

Typical applications

- Etching processes using hydrogen or acids
- Ultrapure water and solvent circuits (isopropanol)
- Temperature regulation with CO₂ lasers
- Inert gas circuits (e.g. argon)



SERTO quick couplings – the Q5x series at a glance

The Q5x series of SERTO quick couplings provide compact, secure and leakage-free unions for demanding liquid and gas circuits – ideal for applications in energy technology, pharma/biotech, semiconductors and lasers.

SERTO's three series of Q50, Q51 and Q52 provide a flexible range of quick couplings for industrial and hygienically sensitive applications. Securely coded, contamination-free and particularly compact, each series meets the strictest requirements in terms of ease of use, leak tightness and reliability.

Modular system for flexible integration

SERTO quick couplings are part of a sophisticated modular system. This provides you with numerous connection variants – for simple and precise integration into your application: with internal or external thread, SERTO connection, hose nozzle, or as a bulkhead fitting. More available on request Maximum flexibility – products from different series can be used together.

Quick couplings can be configured flexibly

Choose from various sealing materials, all optimised for your application:

FFKM (perfluorelastomer): Offers the highest chemical resistance to aggressive media, and excellent temperature and ageing stability. Ideal for the most demanding industrial and chemical applications.

EPDM (ethylene propylene diene monomer rubber): Excellent resistance to water, vapour and many polar media. Particularly suitable for cooling and temperature control systems as well as the food and beverage industry.

VMQ (silicone rubber): High temperature resistance, flexibility even at low temperatures, excellent physiological compatibility. The perfect choice for medical technology, food and pharmaceutical applications.

More options available on request: special materials for extreme operating conditions.

We also offer separate **cleaning and lubrication** products, such as:



for use in oxygen systems



silicone-free variant for sensitive applications



food-safe lubricant under regulation
(EC) 1935/2004

Customised solutions – a wide range of technical variants tailored to your requirements

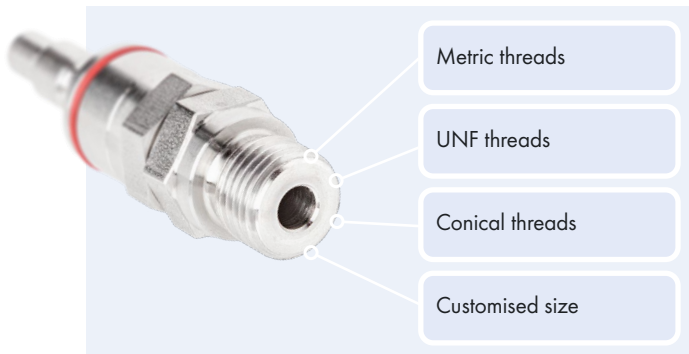
Quick couplings are central interfaces for efficiency, safety and flexibility in modern system concepts. However, every application has different requirements – whether in terms of medium, pressure range, temperature, flow rate or geometric integration into existing systems. This is why the SERTO range extends beyond the standard versions listed in the catalogue: On request, we can develop customised variants that are precisely tailored to your technical and operational requirements.

Variable back adapters and flexible connection concepts enable seamless integration into existing tubework systems without compromising on functionality or safety.

The following options are available on request:

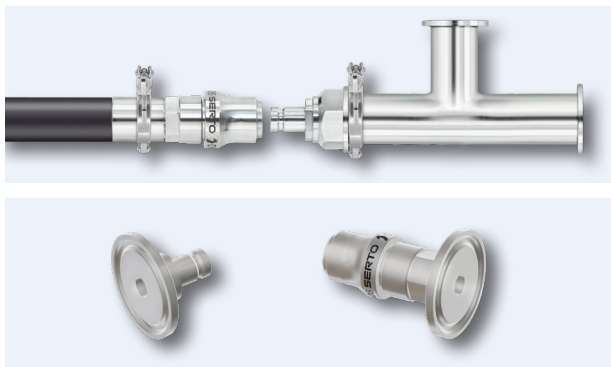
Customised threaded connections

Couplers and nipples with specific threaded connection or with connection sizes deviating from the standard range.



Special connection types

Couplers and connectors with Tri-Clamp connection for quicker disconnection and/or connection of existing Tri-Clamp lines.



SERTO also offers the option of purchasing quick-release couplings as fully assembled modules – including connecting cables made of plastic or metal tubes.

These ready-to-fit solutions significantly reduce installation times, minimise interface risks and ensure immediate, smooth installation in your system. The individual adaptability opens up new scope for design in system development and optimisation. Whether compact designs in confined spaces, special sealing concepts for critical media, fully assembled tubework systems or detachable connections in automated processes – the customised variants always ensure a technically optimal, reliable and durable connection solution.

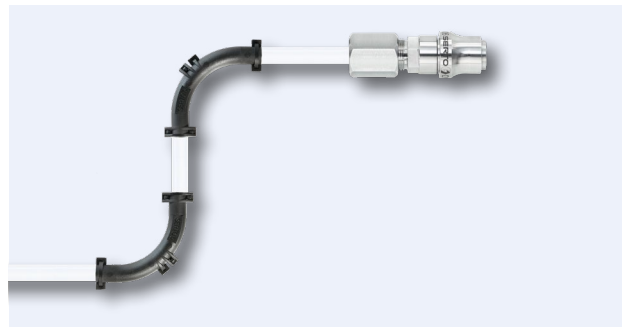
Ready-to-fit cable assemblies



Ready-to-fit cable assemblies with SERTO Jacoflon, optionally with SERTO connection or with direct connection (hose nozzle).



Ready-to-fit cable assemblies with bent metal tubes.

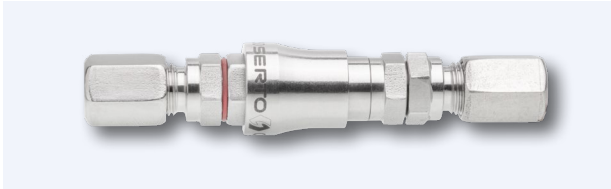


Ready-to-fit cable assemblies with plastic tube and bend clips.

Q50/Q50+

Reliable connection for multi-circuit applications

- mechanically and colour-coded
- can be coded 8 times (Q50+)
- unmistakable



Q51

Universal industry coupling

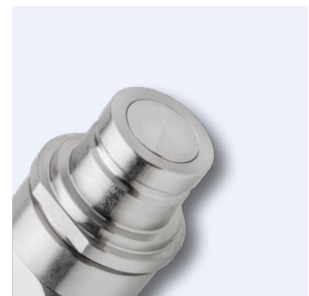
- compact
- one-handed operation
- space-saving



Q52

Hygienic & suitable for clean rooms

- flat-face
- contamination-free
- easy to clean





Q50+

Stainless steel quick coupling for safe coupling



Mechanically / colour-coded

secure coupling with no risk of misuse
(Poka-yoke principle)



8 codings

vast array of potential applications



Backwards-compatible

existing Q50 B, R, G and Y nipples and
couplers can still be used



Ergonomic design

couplings fit perfectly in the hand



One-handed operation

efficient and comfortable coupling and
uncoupling



FDA-compliant materials

broad field of applications, e.g. in the food
industry



SERTO modular system

numerous connection options available

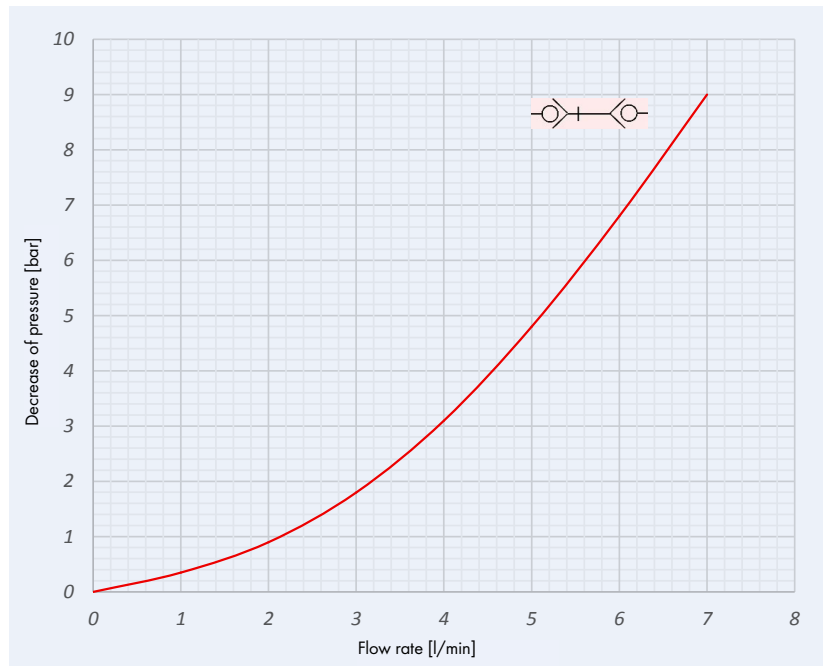


SERTO options

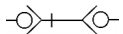
custom models thanks to alternative
materials/lubricants

Technical information

Water pressure loss curve



Coupling functions

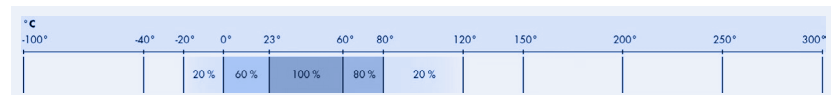


shut-off on both sides
coupler with valve Q50+ C..V
nipple with valve Q50+ N..V

Specifications

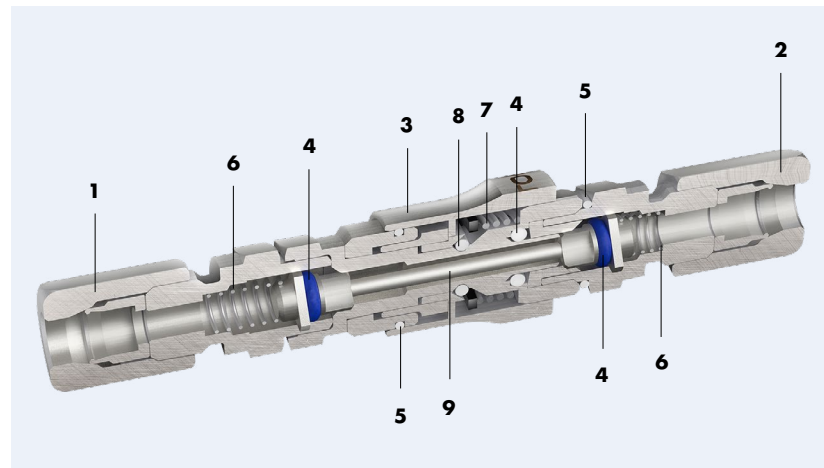
Operating pressure PN:	200 bar
Safety factor:	1.5
Temperature:	from -15 up to +120 °C (FKM sealing material)
Leak-tightness:	10 ⁻⁷ mbar l/s (helium leakage rate)
Vacuum:	up to 300 mbar relative to atmosphere
Sterilisable:	at 121 °C

Degree of pressure evaluation in % of PN



Materials

No.	Name	Material
1	Nipple	Inox 1.4571
2	Coupler	Inox 1.4571
3	Sliding sleeve	Inox 1.4571
4	Seal	FKM (FDA)
5	Colour coding	FKM
6	Compression spring	Inox 1.4310
7	Return spring	Inox 1.4310
8	Piston	Inox 1.4305
9	Valve	Inox 1.4571

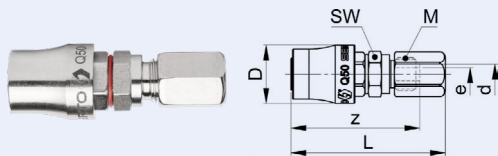


Inox couplings 50+ series Only couplers and nipples of the same colour can be coupled.

Q50+ C..V

Coupler with SERTO connection

with shut-off

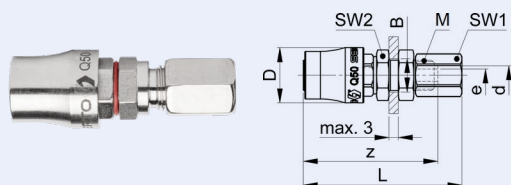


Type-DN-d	Mat. No.	bar	col	M	SW	L	D	z	e	kg/100
Q50+ C04VS-6 B	B58.2100.060	200	blue	10x1	12	47	17.5	39	3.5	3.600
Q50+ C04VS-6 R	B58.2110.060	200	red	10x1	12	47	17.5	39	3.5	3.600
Q50+ C04VS-6 G	B58.2120.060	200	green	10x1	12	47	17.5	39	3.5	3.600
Q50+ C04VS-6 Y	B58.2130.060	200	yellow	10x1	12	47	17.5	39	3.5	3.600
Q50+ C04VS-6 F	B58.2160.060	200	brown	10x1	12	47	17.5	39	3.5	3.800
Q50+ C04VS-6 W	B58.2170.060	200	white	10x1	12	47	17.5	39	3.5	3.800
Q50+ C04VS-6 P	B58.2180.060	200	purple	10x1	12	47	17.5	39	3.5	3.800
Q50+ C04VS-6 O	B58.2190.060	200	orange	10x1	12	47	17.5	39	3.5	3.800

Q50+ C..VP

Bulkhead coupler with SERTO connection

with shut-off

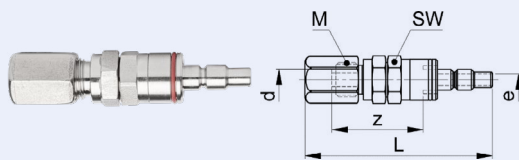


Type-DN-d	Mat. No.	bar	col	M	SW1	SW2	L	D	B	z	e	kg/100
Q50+ C04VP-6 B	B58.2200.060	200	blue	10x1	12	14	51	17.5	10	43.5	3.5	3.900
Q50+ C04VP-6 R	B58.2210.060	200	red	10x1	12	14	51	17.5	10	43.5	3.5	3.900
Q50+ C04VP-6 G	B58.2220.060	200	green	10x1	12	14	51	17.5	10	43.5	3.5	3.900
Q50+ C04VP-6 Y	B58.2230.060	200	yellow	10x1	12	14	51	17.5	10	43.5	3.5	3.900
Q50+ C04VP-6 F	B58.2260.060	200	brown	10x1	12	14	51	17.5	10	43.5	3.5	4.100
Q50+ C04VP-6 W	B58.2270.060	200	white	10x1	12	14	51	17.5	10	43.5	3.5	4.100
Q50+ C04VP-6 P	B58.2280.060	200	purple	10x1	12	14	51	17.5	10	43.5	3.5	4.100
Q50+ C04VP-6 O	B58.2290.060	200	orange	10x1	12	14	51	17.5	10	43.5	3.5	4.100

Q50+ C..V

Coupler with SERTO connection

with shut-off

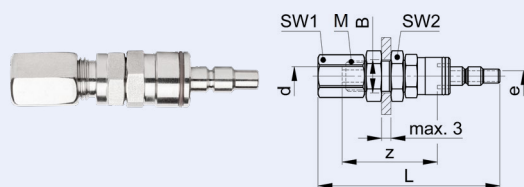


Type-DN-d	Mat. No.	bar	col	M	SW	L	D	z	e	kg/100
Q50+ C04VS-6 B	B58.2100.060	200	blue	10x1	12	47	17.5	39	3.5	3.600
Q50+ C04VS-6 R	B58.2110.060	200	red	10x1	12	47	17.5	39	3.5	3.600
Q50+ C04VS-6 G	B58.2120.060	200	green	10x1	12	47	17.5	39	3.5	3.600
Q50+ C04VS-6 Y	B58.2130.060	200	yellow	10x1	12	47	17.5	39	3.5	3.600
Q50+ C04VS-6 F	B58.2160.060	200	brown	10x1	12	47	17.5	39	3.5	3.800
Q50+ C04VS-6 W	B58.2170.060	200	white	10x1	12	47	17.5	39	3.5	3.800
Q50+ C04VS-6 P	B58.2180.060	200	purple	10x1	12	47	17.5	39	3.5	3.800
Q50+ C04VS-6 O	B58.2190.060	200	orange	10x1	12	47	17.5	39	3.5	3.800

Q50+ C..VP

Bulkhead coupler with SERTO connection

with shut-off



Type-DN-d	Mat. No.	bar	col	M	SW1	SW2	L	D	B	z	e	kg/100
Q50+ C04VP-6 B	B58.2200.060	200	blue	10x1	12	14	51	17.5	10	43.5	3.5	3.900
Q50+ C04VP-6 R	B58.2210.060	200	red	10x1	12	14	51	17.5	10	43.5	3.5	3.900
Q50+ C04VP-6 G	B58.2220.060	200	green	10x1	12	14	51	17.5	10	43.5	3.5	3.900
Q50+ C04VP-6 Y	B58.2230.060	200	yellow	10x1	12	14	51	17.5	10	43.5	3.5	3.900
Q50+ C04VP-6 F	B58.2260.060	200	brown	10x1	12	14	51	17.5	10	43.5	3.5	4.100
Q50+ C04VP-6 W	B58.2270.060	200	white	10x1	12	14	51	17.5	10	43.5	3.5	4.100
Q50+ C04VP-6 P	B58.2280.060	200	purple	10x1	12	14	51	17.5	10	43.5	3.5	4.100
Q50+ C04VP-6 O	B58.2290.060	200	orange	10x1	12	14	51	17.5	10	43.5	3.5	4.100

d=Rohraussen-ø

LW=Rohrinnen-ø

e=kleinste Bohrung

*=mit reduziertem Klemmring

Q51



Compact and high flow



Ergonomic design

couplings fit perfectly in the hand; operating errors are virtually impossible



Intelligent construction

noise-free, even when there are vibrations



One-handed operation

efficient and comfortable coupling and uncoupling



Smooth surfaces

easy to clean, accumulates little dirt



Innovative valve construction

high flow rate with low pressure loss



FDA-compliant materials

broad field of applications, e.g. In the food industry



SERTO modular system

numerous connection options available

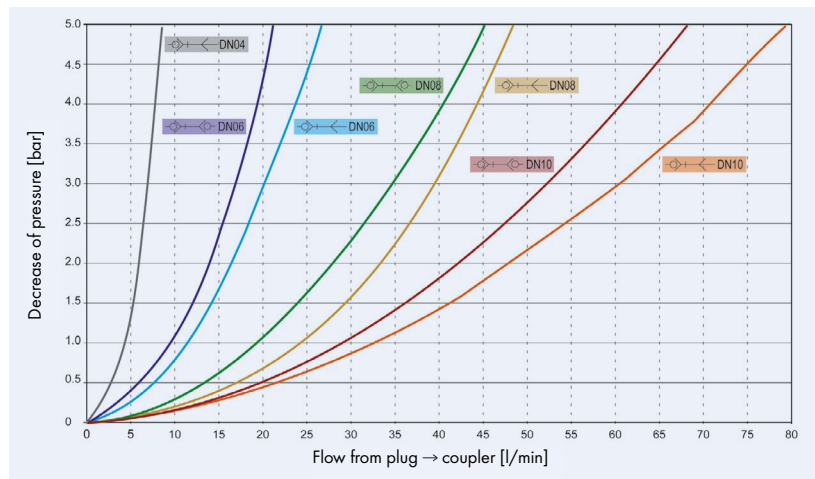


SERTO options

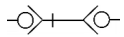
customised designs thanks to alternative sealing materials and cleaning/lubrication options

Technical information

Water pressure loss curve



Coupling functions

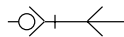


shut-off on both sides

coupler with valve Q51 C..V

nipple with valve Q51 N..V

shut-off on one side



coupler with shut-off Q51 C..V

nipple with no shut-off Q51 N..P

Specifications

Operating pressure PN:

65 to 200 bar

Temperature:

from -15 up to +200°C

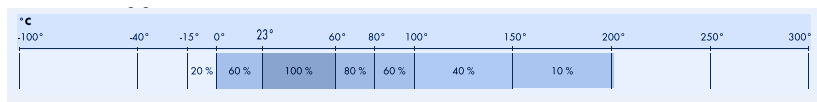
Sterilisable:

yes

Safety factor:

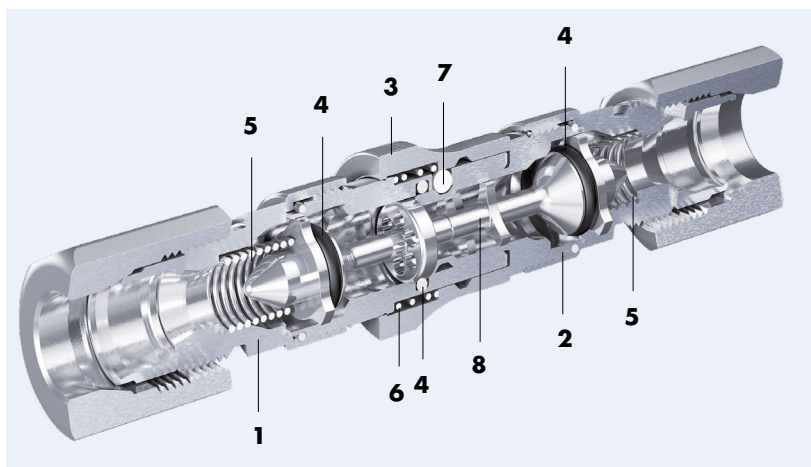
1.5 times

Degree of pressure evaluation in % of PN



Materials

No.	Name	Material
1	Nipple	Inox 1.4571
2	Coupler	Inox 1.4571
3	Sliding sleeve	Inox 1.4571
4	Seal	FKM (FDA)
5	Compression spring	Inox 1.4571/1.4404
6	Return spring	Inox 1.4571/1.4404
7	Balls	Inox 1.4404
8	Valve (option)	Inox 1.4571

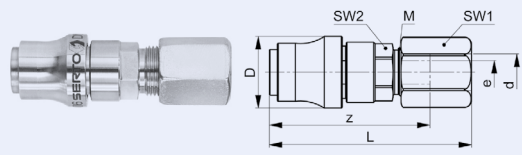


Inox couplings 51 series Only types with the same DN (nominal diameter) can be coupled together.

Q51 C..VS

Coupler with SERTO connection

with shut-off

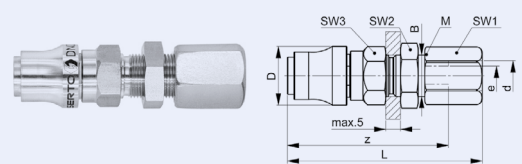


	Type-DN-d	Mat. No.	bar	DN	M	SW1	SW2	L	D	z	e	kg/100
*	Q51 C04VS-4	C58.2151.040	200	04	10x1.0	12	11	37.5	14.0	29.5	3.0	2.060
*	Q51 C04VS-5	C58.2151.050	200	04	10x1.0	12	11	37.5	14.0	29.5	3.0	2.050
	Q51 C04VS-6	C58.2151.060	200	04	10x1.0	12	11	37.5	14.0	29.5	3.0	2.360
*	Q51 C06VS-8	C58.2152.080	100	06	14x1.0	17	14	56.0	20.0	44.5	6.0	5.770
	Q51 C06VS-10	C58.2152.100	100	06	14x1.0	17	14	56.0	20.0	44.5	6.0	6.700
	Q51 C08VS-12	C58.2153.120	65	08	16x1.0	19	19	65.5	25.0	51.0	8.0	11.900
	Q51 C10VS-15	C58.2154.150	65	10	20x1.5	24	24	78.0	30.0	63.5	10.0	22.500

Q51 C..VP

Bulkhead coupler with SERTO connection

with shut-off

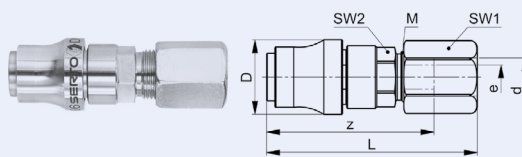


	Type-DN-d	Mat. No.	bar	DN	M	SW1	SW2	SW3	L	D	B	z	e	kg/100
*	Q51 C04VP-4	C58.2251.040	200	04	10x1.0	12	14	13	47.5	14.0	10.5	39.5	3.0	3.030
*	Q51 C04VP-5	C58.2251.050	200	04	10x1.0	12	14	13	47.5	14.0	10.5	39.5	3.0	3.020
	Q51 C04VP-6	C58.2251.060	200	04	10x1.0	12	14	13	47.5	14.0	10.5	39.5	3.0	3.330
*	Q51 C06VP-8	C58.2252.080	100	06	14x1.0	17	19	17	66.0	20.0	14.5	54.5	6.0	7.690
	Q51 C06VP-10	C58.2252.100	100	06	14x1.0	17	19	17	66.0	20.0	14.5	54.5	6.0	8.620
	Q51 C08VP-12	C58.2253.120	65	08	16x1.0	19	22	22	75.5	25.0	16.5	61.7	8.0	14.600
	Q51 C10VP-15	C58.2254.150	65	10	20x1.5	24	27	27	88.0	30.0	20.5	73.5	10.0	26.200

Q51 C..VM

Coupler with male thread

with Conovor O-ring seal (FKM), with shut-off



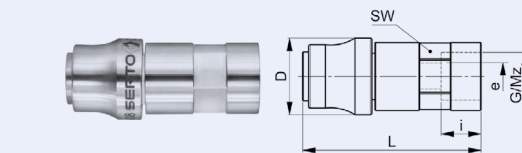
	Type-DN-G / -Mz	Mat. No.	bar	DN	SW	L	D	i	O-Ring	e	kg/100
G=Rohrgewinde (zylindrisch) Mz=metrisches Gewinde (zylindrisch)											
	Q51 C04VM-1/8 OR	C58.2451.100	200	04	12	21.5	14.0	8.0	8.73x1.78	3.0	1.740
	Q51 C04VM-M5	C58.2451.155	200	04	11	33.0	14.0	3.5	-	2.5	1.200
	Q51 C06VM-1/4 OR	C58.2452.270	100	06	19	45.5	20.0	10.0	11.1x1.78	6.0	5.520
	Q51 C08VM-3/8 OR	C58.2453.390	65	08	22	52.0	25.0	10.0	14.0x1.78	8.0	9.900
	Q51 C10VM-1/2 OR	C58.2454.534	65	10	27	63.0	30.0	12.0	18.72x2.62	10.0	17.900

Grösse M5 mit POM-Dichtscheibe.

Q51 C..VF

Coupler with female thread

with shut-off

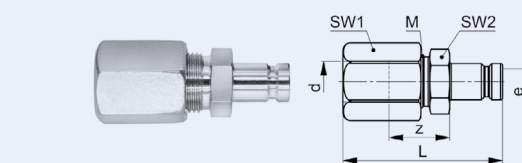


	Type-DN-G / -Mz	Mat. No.	bar	DN	SW	L	D	i	e	kg/100
G=Rohrgewinde (zylindrisch) Mz=metrisches Gewinde (zylindrisch)										
	Q51 C04VF-1/8	C58.2751.100	200	04	12	38.5	14.0	10.0	3.0	2.400
	Q51 C04VF-M5	C58.2751.155	200	04	9	34.0	14.0	5.0	3.0	1.800
	Q51 C06VF-1/4	C58.2752.270	100	06	14	52.0	20.0	13.0	6.0	5.600
	Q51 C08VF-3/8	C58.2753.390	65	08	19	58.0	25.0	13.0	8.0	11.200
	Q51 C10VF-1/2	C58.2754.534	65	10	24	71.0	30.0	16.0	10.0	20.300

Q51 N..PS

Nipple with SERTO connection

no shut-off

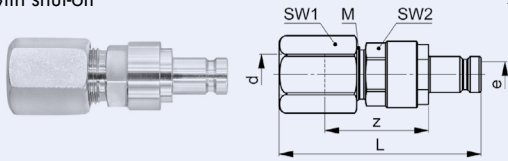


	Type-DN-d	Mat. No.	bar	DN	M	SW1	SW2	L	z	e	kg/100
*	Q51 N04PS-4	C58.4151.040	200	04	10x1.0	12	11	28.0	11.5	3.0	1.200
*	Q51 N04PS-5	C58.4151.050	200	04	10x1.0	12	11	28.0	11.5	3.0	1.190
	Q51 N04PS-6	C58.4151.060	200	04	10x1.0	12	11	28.0	11.5	3.0	1.500
*	Q51 N06PS-8	C58.4152.080	100	06	14x1.0	17	14	40.0	15.0	6.0	2.740
	Q51 N06PS-10	C58.4152.100	100	06	14x1.0	17	14	40.0	15.0	6.0	4.170
	Q51 N08PS-12	C58.4153.120	65	08	16x1.0	19	19	45.0	16.0	8.0	5.300
	Q51 N10PS-15	C58.4154.150	65	10	20x1.5	24	24	52.5	21.0	10.0	10.300

Q51 N..VS

Nipple with SERTO connection

with shut-off

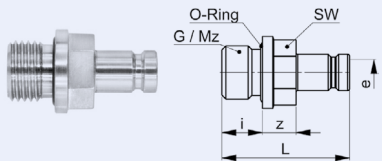


Type-DN-d	Mat. No.	bar	DN	M	SW1	SW2	L	z	e	kg/100
* Q51 N06VS-8	C58.5152.080	100	06	14x1.0	17	14	51.0	26.0	6.0	3.790
Q51 N06VS-10	C58.5152.100	100	06	14x1.0	17	14	51.0	26.0	6.0	4.720
Q51 N08VS-12	C58.5153.120	65	08	16x1.0	19	19	60.5	32.0	8.0	8.300
Q51 N10VS-15	C58.5154.150	65	10	20x1.5	24	24	70.5	38.0	10.0	16.500

Q51 N..PM

Nipple with male thread

with Conovor O-ring seal (FKM), no shut-off



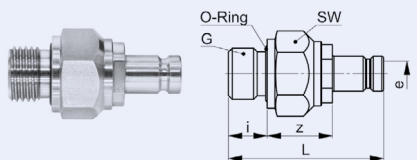
Type-DN-G/-Mz	Mat. No.	bar	DN	SW	L	i	z	O-Ring	e	kg/100
G=BSP thread (parallel) Mz= Metric thread (parallel)										
Q51 N04PM-1/8 OR	C58.4451.100	200	04	12	21.0	8.0	5.0	8.73x1.78	3.0	0.840
Q51 N04PM-M5	C58.4451.155	200	04	9	16.0	4.5	3.0	-	2.5	0.300
Q51 N06PM-1/4 OR	C58.4452.270	100	06	14	31.5	10.0	8.0	11.1x1.78	6.0	1.900
Q51 N08PM-3/8 OR	C58.4453.390	65	08	19	32.0	10.0	7.0	14.0x1.78	8.0	2.600
Q51 N10PM-1/2 OR	C58.4454.534	65	10	24	41.0	12.0	11.0	18.72x2.62	10.0	6.000

M5 thread with POM sealing washer

Q51 N..VM

Nipple with male thread

with Conovor O-ring seal (FKM), with shut-off

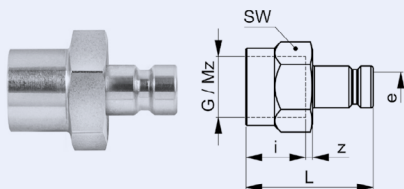


Type-DN-G	Mat. No.	bar	DN	SW	L	i	z	O-Ring	e	kg/100
G=BSP thread (parallel)										
Q51 N06VM-1/4 OR	C58.5452.270	100	06	19	40.0	10.0	17.0	11.1x1.78	6.0	3.520
Q51 N08VM-3/8 OR	C58.5453.390	65	08	22	47.0	10.0	22.0	14.0x1.78	8.0	6.200
Q51 N10VM-1/2 OR	C58.5454.534	65	10	27	56.0	12.0	26.0	18.72x2.62	10.0	11.900

Q51 N..PF

Nipple with female thread

no shut-off

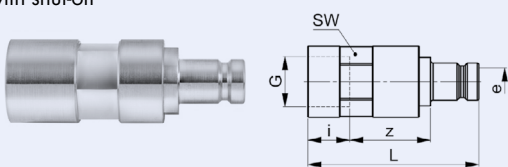


Type-DN-G / -Mz	Mat. No.	bar	DN	SW	L	i	z	e	kg/100
G=BSP thread (parallel) Mz= Metric thread (parallel)									
Q51 N04PF-1/8	C56.4751.100	200	04	12	20.0	10.0	8.5	3.0	0.900
Q51 N04PF-M5	C56.4751.155	200	04	11	17.0	5.0	8.5	3.0	0.500
Q51 N06PF-1/4	C56.4752.270	100	06	17	28.0	13.0	1.5	6.0	1.800
Q51 N08PF-3/8	C56.4753.390	65	08	19	30.0	13.0	2.0	8.0	2.500
Q51 N10PF-1/2	C56.4754.534	65	10	24	37.0	16.0	3.0	10.0	4.800

Q51 N..VF

Nipple with female thread

with shut-off

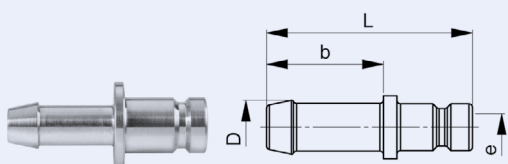


Type-DN-G	Mat. No.	bar	DN	SW	L	i	z	e	kg/100
G=BSP thread (parallel)									
Q51 N06VF-1/4	C58.5752.270	100	06	14	47.0	13.0	21.0	6.0	3.700
Q51 N08VF-3/8	C58.5753.390	65	08	19	53.0	13.0	25.0	8.0	7.400
Q51 N10VF-1/2	C58.5754.534	65	10	24	63.5	16.0	29.5	10.0	14.200

Q51 N..PN

Nipple with hose nozzle

no shut-off



Type-DN-LW	Mat. No.	bar	DN	L	D	b	e	kg/100
Q51 N04PN-LW4 (6/4)	C56.4651.040	200	04	21.0	5.0	11.0	3.0	0.190
Q51 N04PN-LW5 (8/5)	C56.4651.050	200	04	23.0	6.0	13.0	3.0	0.230
Q51 N06PN-LW6 (8/6)	C56.4652.060	100	06	32.0	7.5	17.0	4.0	0.760
Q51 N06PN-LW8 (10/8)	C56.4652.080	100	06	32.0	9.5	17.0	6.4	0.780
Q51 N08PN-LW8 (10/8)	C56.4653.080	65	08	34.0	9.5	17.0	6.0	1.300
Q51 N08PN-LW10 (12/10)	C56.4653.100	65	08	36.0	11.5	19.0	8.5	1.300



Q52

Stainless steel quick coupling for drip-free coupling



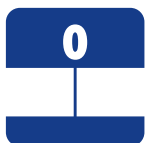
Ergonomic design

couplings fit perfectly in the hand



One-handed operation

efficient and comfortable coupling and uncoupling



Flat-face technology

leakage-free coupling and uncoupling, easy to clean



Smooth surfaces

easy to clean, accumulates little dirt



Innovative valve construction

high flow rate with low pressure loss



FDA-compliant materials

broad field of applications, e.g. in the food industry



SERTO modular system

numerous connection options available

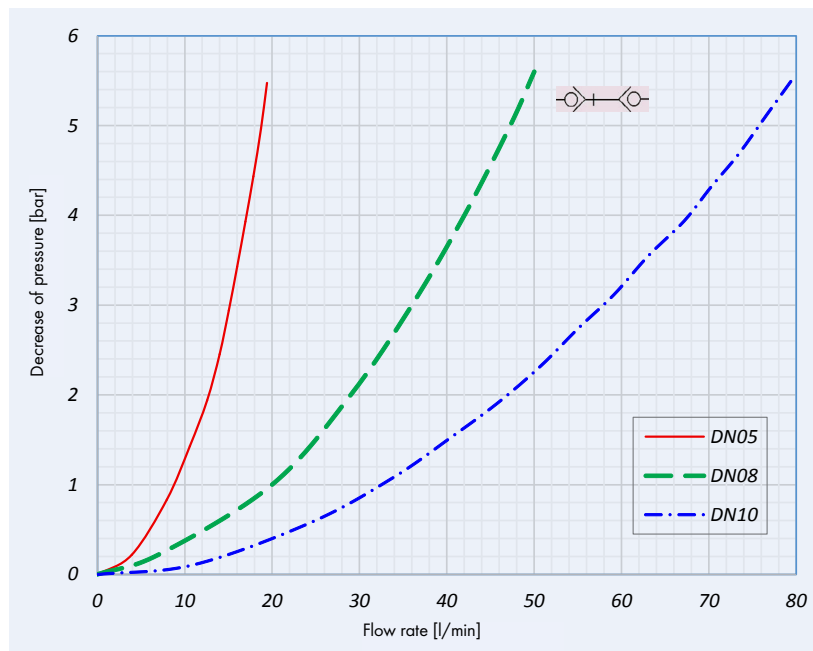


SERTO options

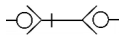
custom models thanks to alternative materials/lubricants

Technical information

Water pressure loss curve



Coupling functions



shut-off on both sides

coupler with valve Q52+ C..V

nipple with valve Q52+ N..V

Coupling / uncoupling under pressure

Depending on the installation or the aggressiveness and temperature of the medium, complete depressurisation is recommended before coupling or uncoupling.

The following maximum pressures should be considered as guide values.

Nominal width DN05: 5 bar

Nominal width DN08: 4 bar

Nominal width DN10: 3 bar

Specifications

Operating pressure PN:

from 65 up to 100 bar, depending on nominal width DN

1.5

Safety factor:

Temperature:

from -15 up to +200 °C

(FKM sealing material)

Leak-tightness:

10-7 mbar l/s (helium leakage rate)

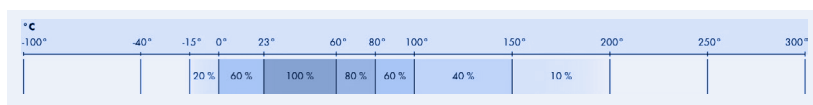
Vacuum: up to

300 mbar relative to atmosphere

Sterilisable:

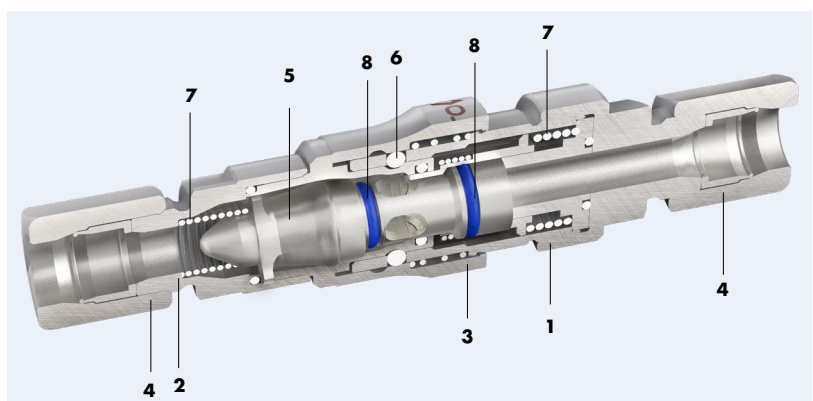
at 121 °C

Degree of pressure evaluation in % of PN



Materials

No.	Name	Material
1	Coupler	Inox 1.4571
2	Nipple	Inox 1.4571
3	Sliding sleeve	Inox 1.4571
4	Connections	Inox 1.4571
5	Interior parts	Inox 1.4571
6	Balls	Inox 1.4404
7	Springs	Inox 1.4571 / 1.4404
8	Seals	FKM (FDA)



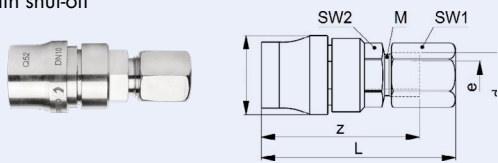
Inox couplings 52+ series

Only couplers and nipples with the same DN (nominal width) can be coupled.

Q52+ C..VS

Coupler with SERTO connection

with shut-off

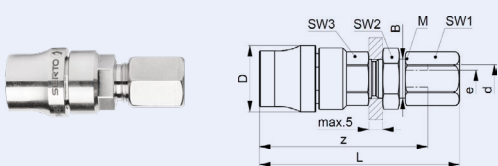


Type -DN -d	Mat. No.	bar	DN	M	SW1	SW2	L	D	z	e	kg/100
Q52 C05VS-10	D58.2150.100	100	05	14x1.0	17	17	59	24.0	47.5	5	10.200
Q52 C08VS-12	D58.2153.120	75	08	16x1.0	19	19	72	29.0	58.0	8	19.000
Q52 C10VS-15	D58.2154.150	65	10	20x1.5	24	24	83	34.5	69.0	10	29.400

Q52+ C..VP

Bulkhead coupler with SERTO connection

with shut-off

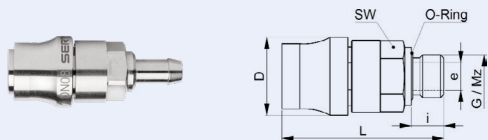


Type -DN -G	Mat. No.	bar	DN	SW	L	D	i	O-Ring	e	kg/100
G=BSP thread (parallel)										
Q52 C05VM-1/4 OR	D58.2450.270	100	05	19	50.0	24.0	10	11.1x1.78	5	8.300
Q52 C08VM-3/8 OR	D58.2453.390	75	08	22	59.0	29.0	10	14.0x1.78	8	15.500
Q52 C10VM-1/2 OR	D58.2454.534	65	10	27	70.5	34.5	12	18.72x2.62	10	23.400

Q52+ N..VM

Coupler with male thread

with Conovor O-ring seal (FKM), with shut-off

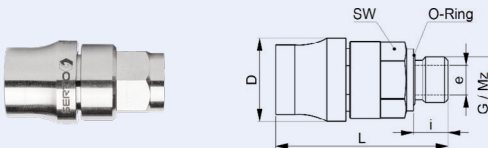


Type -DN -G	Mat. No.	bar	DN	SW	L	D	i	O-Ring	e	kg/100
G=BSP thread (parallel)										
Q52 C05VM-1/4 OR	D58.2450.270	100	05	19	50.0	24.0	10	11.1x1.78	5	8.300
Q52 C08VM-3/8 OR	D58.2453.390	75	08	22	59.0	29.0	10	14.0x1.78	8	15.500
Q52 C10VM-1/2 OR	D58.2454.534	65	10	27	70.5	34.5	12	18.72x2.62	10	23.400

Q52+ N..VM

Coupler with male thread

with Conovor O-ring seal (FKM), with shut-off

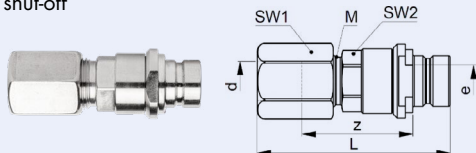


Type -DN -G	Mat. No.	bar	DN	SW	L	D	i	O-Ring	e	kg/100
G=BSP thread (parallel)										
Q52 C05VM-1/4 OR	D58.2450.270	100	05	19	50.0	24.0	10	11.1x1.78	5	8.300
Q52 C08VM-3/8 OR	D58.2453.390	75	08	22	59.0	29.0	10	14.0x1.78	8	15.500
Q52 C10VM-1/2 OR	D58.2454.534	65	10	27	70.5	34.5	12	18.72x2.62	10	23.400

Q52+ N..VS

Nipple with SERTO connection

with shut-off



Type -DN -d	Mat. No.	bar	DN	M	SW1	SW2	L	z	e	kg/100
Q52 N05VS-10	D58.5150.100	100	05	14x1.0	17	14	49.5	28.5	5	7.000
Q52 N08VS-12	D58.5153.120	75	08	16x1.0	19	19	62.0	34.5	8	12.500
Q52 N10VS-15	D58.5154.150	65	10	20x1.5	24	24	71.0	51.5	10	18.400

d=Tube outside diameter-

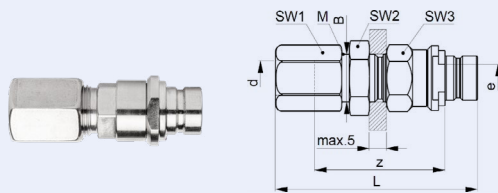
LW=Tube inside diameter-

e=Minimum bore

*=With reduction compression ferrule

Q52+ C..VP

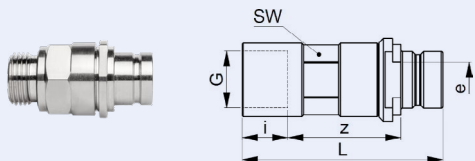
Bulkhead nipple with SERTO connection with shut-off



Type -DN -d	Mat. No.	bar	DN	M	SW1	SW2	SW3	L	B	z	e	kg/100
Q52 N05VP-10	D58.5250.100	100	05	14x1.0	17	19	17	59.5	14.5	38.5	5	7.300
Q52 N08VP-12	D58.5253.120	75	08	16x1.0	19	22	22	71.5	16.5	44.5	8	13.000
Q52 N10VP-15	D58.5254.150	65	10	20x1.5	24	27	27	81.0	20.5	51.0	10	19.200

Q52+ N..VF

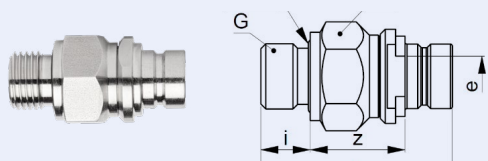
Nipple with female thread with shut-off



Type -DN -G	Mat. No.	bar	DN	SW	L	i	z	e	kg/100
G=BSP thread (parallel)									
Q52 N05VF-1/4	D58.5750.270	100	05	14	46	13	23.0	5	5.400
Q52 N08VF-3/8	D58.5753.390	75	08	19	54	13	27.5	8	10.000
Q52 N10VF-1/2	D58.5754.534	65	10	24	64	16	33.0	10	15.400

Q52+ C..VM

Bulkhead nipple with SERTO connection with shut-off



Type -DN -G	Mat. No.	bar	DN	SW	L	i	z	O-Ring	e	kg/100
G=BSP thread (parallel)										
Q52 N05VM-1/4 OR	D58.5450.270	100	05	19	40.0	10	19.0	11.1x1.78	5	5.300
Q52 N08VM-3/8 OR	D58.5453.390	75	08	22	48.0	10	24.5	14.0x1.78	8	9.300
Q52 N10VM-1/2 OR	D58.5454.534	65	10	27	56.5	12	29.5	18.72x2.62	10	13.600

d=Tube outside diameter-
LW=Tube inside diameter-
e=Minimum bore
*=With reduction compression ferrule



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