

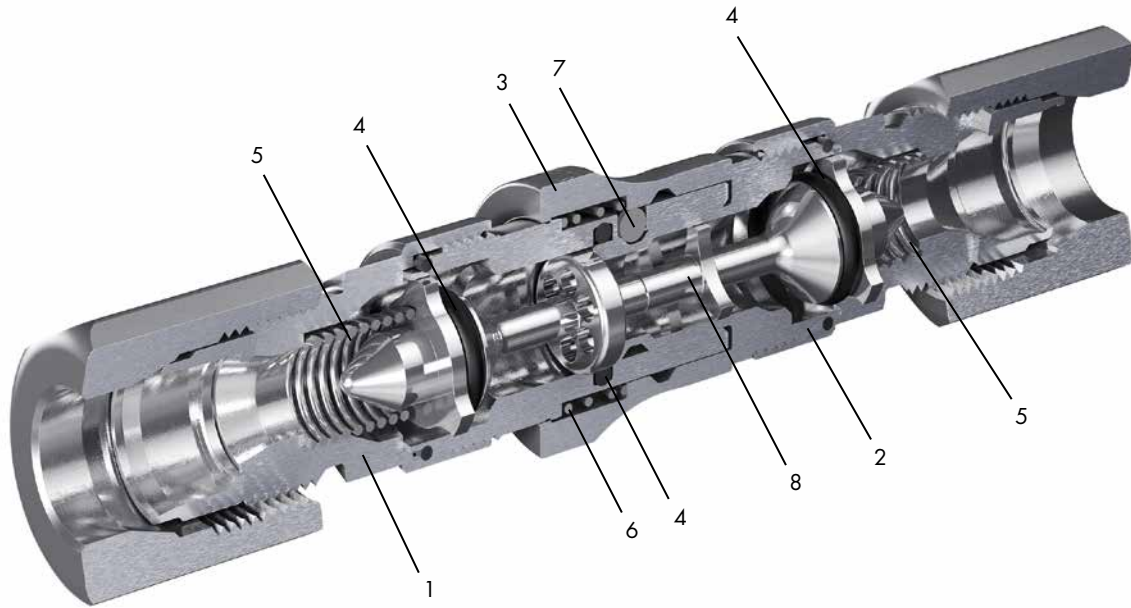


Compact and high flow rate



The stainless steel quick coupling SERTO Flow Series 51

Quick coupling in stainless steel for high flow rate



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

Options

- Seal: other materials on request (EPDM, FFKM, VMQ)
- Cleaning / lubricating: OX (for use with oxygen) and SI (silicone-free)

Characteristics

Feature	Customer benefit
• ergonomic design	coupling fits optimally in the hand; operating errors are practically impossible
• intelligent construction	noiseless even with vibrations
• one-hand operation	efficient and convenient coupling and decoupling
• smooth surface	easy cleaning, low dirt accumulation
• innovative valve design	higher-than-average flow rate with low pressure drop
• FDA-compliant materials	wide range of applications, including the food sector
• SERTO modular system	various connection types possible
• SERTO options	individual configurations thanks to alternative sealing materials and cleaning / lubrication options

Fields of application



Water treatment



Medical equipment



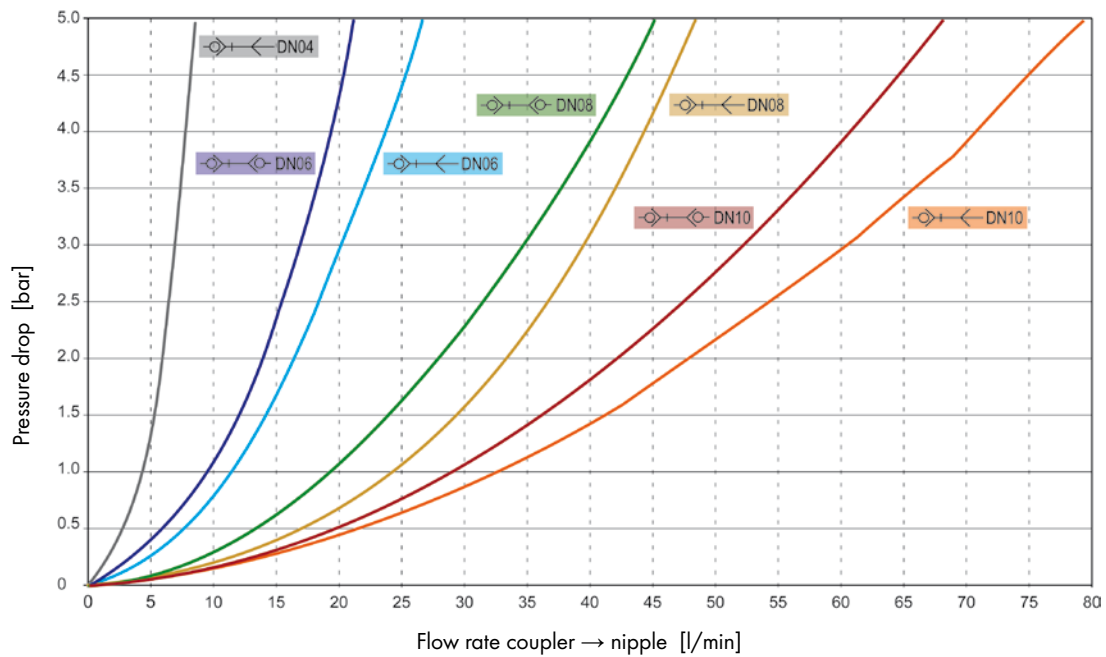
Chemical industry



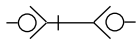
Pharma

Technical information

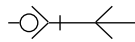
Pressure loss curve for water



Functions



double-sided shut-off
coupler shut-off Q51 C..V
nipple shut-off Q51 N..V



one-sided shut-off
coupler shut-off Q51 C..V
nipple no shut-off Q51 N..P

Note: For coupling/decoupling the quick coupling systems must always be depressurised. This pressureless condition must be maintained until the next coupling as coupling under maximum nominal pressure is not possible.

Specifications

Working pressure (PN): 65 to 200 bar, depending on DN/size (static working pressure in coupled condition)
The maximum recommended coupling pressure of 5 % of the working pressure is significantly lower.

Temperature: -15°C to +200°C (depending on the sealing material)

Sterilizable: yes

Safety factor: 1.5 times

Leak rate: 10^{-7} mbar * l/s in the coupled and decoupled condition

Vacuum rate: rough vacuum (atmosphere up to 300 mbar), fine vacuum on request

Pressure coefficient in % of PN

°C											
-100°	-40°	-15°	0°	23°	60°	80°	100°	150°	200°	250°	300°
		20 %	60 %	100 %	80 %	60 %	40 %	10 %			

Order information material description

Example: Q51 C04VS-6

Q	5	1	C	04	V	S-	6
Coupling	Material: Stainless steel	Series	C Coupler N Nipple	DN04 DN06 DN08 DN10	V shut-off (V)alve P no shut-off (P)lain	S SERTO connection P panel mount with SERTO connection M male thread (parallel) F female thread (parallel) N hose nozzle	Size: tube outside dia. or thread

Kuppler mit SERTO-Anschluss

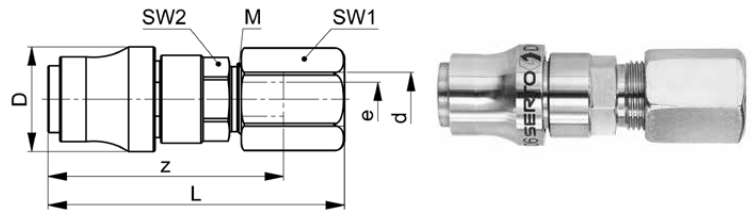
absperrend

Coupleur avec connexion SERTO

obturant

Coupler with SERTO connection

shut-off

**Q51 C..VS**

Type -DN -d	Mat.-Nr.	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

Nur Typen mit dem gleichen DN (Nennweite) lassen sich miteinander koppeln.

Seuls les types ayant le même DN (diamètre nominal) peuvent être couplés entre eux.

Only types with the same DN (nominal diameter) can be coupled together.

Kuppler in Schottausführung mit SERTO-Anschluss

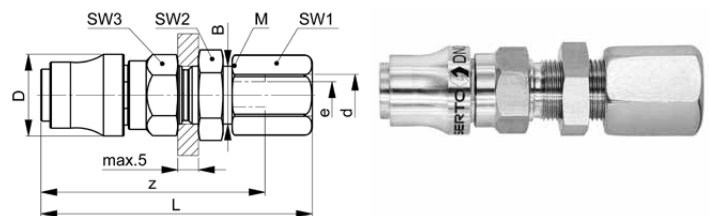
absperrend

Coupleur traversée de cloison avec connexion SERTO

obturant

Panel mount coupler with SERTO connection

shut-off

**Q51 C..VP**

Type -DN -d	Mat.-Nr.	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

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e=kleinste Bohrung
*=mit reduziertem Klemmring

d=ø extérieur du tube
e=ø-min. de passage
*=avec bague de serrage de réduction

d=tube outside diameter
e=minimum bore
*=with reduction compression ferrule

Kuppler mit Aussengewinde

mit Conovor O-Ringabdichtung (FKM), absperrend

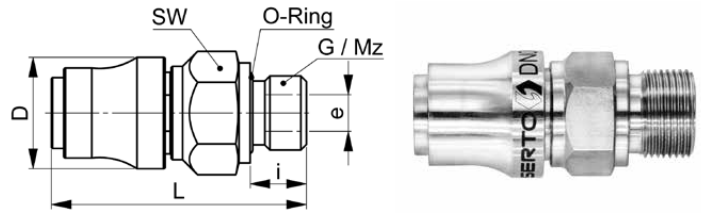
Coupleur avec filetage

avec joint torique système Conovor (FKM), obturant

Coupler with male thread

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

Q51 C..VM



Type -DN -G / -Mz	Mat.-Nr.	bar	DN	SW	L	D	i	O-Ring	e	kg/100
G=Rohrgewinde (zylindrisch)				G=Filetage-gaz BSP (cylindrique)		G=BSP thread (parallel)				
Mz=metrisches Gewinde (zylindrisch)				Mz=Filetage métrique (cylindrique)		Mz=Metric thread (parallel)				
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.

Taille M5 avec joint en POM.

Size M5 with POM sealing washer.

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Kuppler mit Innengewinde

absperrend

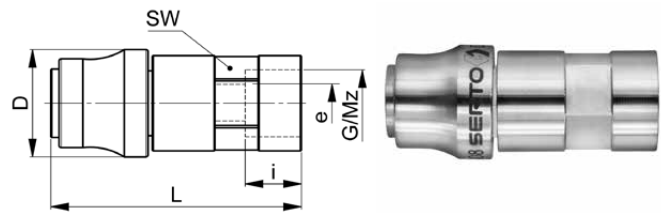
Coupleur avec taraudage

obturant

Coupler with female thread

shut-off

Q51 C..VF



Type -DN -G / -Mz	Mat.-Nr.	bar	DN	SW	L	D	i	e	kg/100	
G=Rohrgewinde (zylindrisch)				G=Filetage-gaz BSP (cylindrique)		G=BSP thread (parallel)				
Mz=metrisches Gewinde (zylindrisch)				Mz=Filetage métrique (cylindrique)		Mz=Metric thread (parallel)				
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	

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*=mit reduziertem Klemmring

d=ø extérieur du tube
e=ø-min. de passage
*=avec bague de serrage de réduction

d=tube outside diameter
e=minimum bore
*=with reduction compression ferrule

Stecker mit SERTO-Anschluss

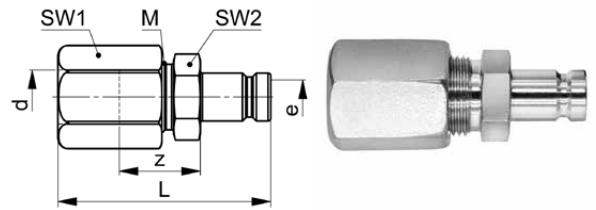
nicht absperrend

Embout avec connexion SERTO

non-obturant

Nipple with SERTO connection

no shut-off

Q51 N..PS

Type -DN -d	Mat.-Nr.	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

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Stecker mit SERTO-Anschluss

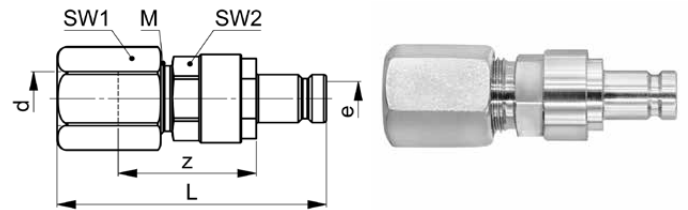
absperrend

Embout avec connexion SERTO

obturant

Nipple with SERTO connection

shut-off

Q51 N..VS

Type -DN -d	Mat.-Nr.	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

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*=mit reduziertem Klemmring

d= \varnothing extérieur du tube
e= \varnothing -min. de passage
*=avec bague de serrage de réduction

d=tube outside diameter
e=minimum bore
*=with reduction compression ferrule

Stecker mit Aussengewinde

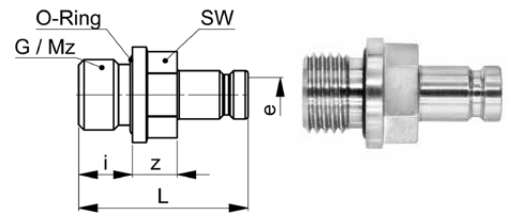
mit Conovor O-Ringabdichtung (FKM), nicht absperrend

Embout avec filetage

avec joint torique système Conovor (FKM), non-obturant

Nipple with male thread

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



Q51 N..PM

Type -DN -G / -Mz	Mat.-Nr.	bar	DN	SW	L	i	z	O-Ring	e	kg/100
G=Rohrgewinde (zylindrisch)				G=Filetage-gaz BSP (cylindrique)				G=BSP thread (parallel)		
Mz=metrisches Gewinde (zylindrisch)				Mz=Filetage métrique (cylindrique)				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

Grösse M5 mit POM-Dichtscheibe.

Taille M5 avec joint en POM.

Size M5 with POM sealing washer.

Nur Typen mit dem gleichen DN (Nennweite) lassen sich miteinander koppeln.

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Stecker mit Aussengewinde

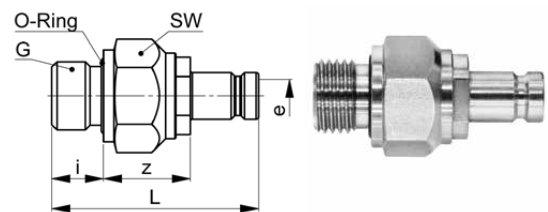
mit Conovor O-Ringabdichtung (FKM), absperrend

Embout avec filetage

avec joint torique système Conovor (FKM), obturant

Nipple with male thread

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



Q51 N..VM

Type -DN -G	Mat.-Nr.	bar	DN	SW	L	i	z	O-Ring	e	kg/100
G=Rohrgewinde (zylindrisch)				G=Filetage-gaz BSP (cylindrique)				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

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*=mit reduziertem Klemmring

d=ø extérieur du tube
e=ø-min. de passage
*=avec bague de serrage de réduction

d=tube outside diameter
e=minimum bore
*=with reduction compression ferrule

Stecker mit Innengewinde

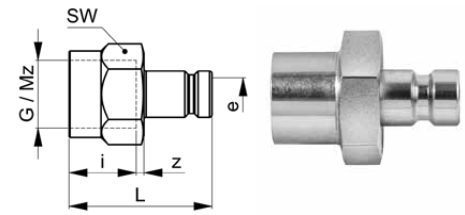
nicht absperrend

Embout avec taraudage

non-obturant

Nipple with female thread

no shut-off

**Q51 N..PF**

Type -DN -G / -Mz	Mat.-Nr.	bar	DN	SW	L	i	z	e	kg/100
G=Rohrgewinde (zylindrisch)	G=Filetage-gaz BSP (cylindrique)			G=BSP thread (parallel)					
Mz=metrisches Gewinde (zylindrisch)	Mz=Filetage métrique (cylindrique)			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

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Stecker mit Innengewinde

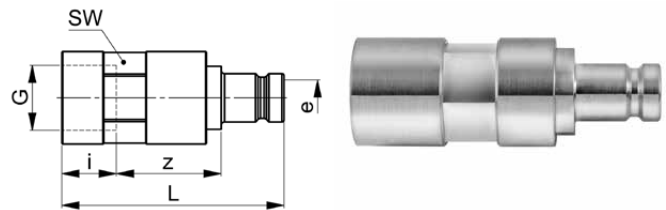
absperrend

Embout avec taraudage

obturant

Nipple with female thread

shut-off

**Q51 N..VF**

Type -DN -G	Mat.-Nr.	bar	DN	SW	L	i	z	e	kg/100
G=Rohrgewinde (zylindrisch)	G=Filetage-gaz BSP (cylindrique)			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

Nur Typen mit dem gleichen DN (Nennweite) lassen sich miteinander koppeln.

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Stecker mit Schlauchtülle

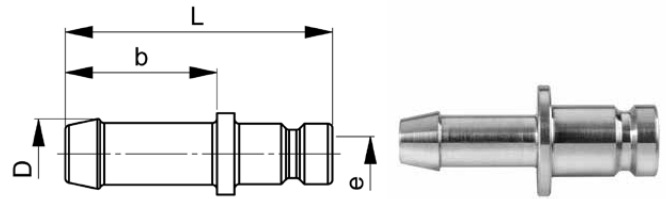
nicht absperrend

**Embout avec douille cannelée
pour tuyau**

non-obturant

Nipple with hose nozzle

no shut-off

Q51 N..PN

Type -DN -LW	Mat.-Nr.	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

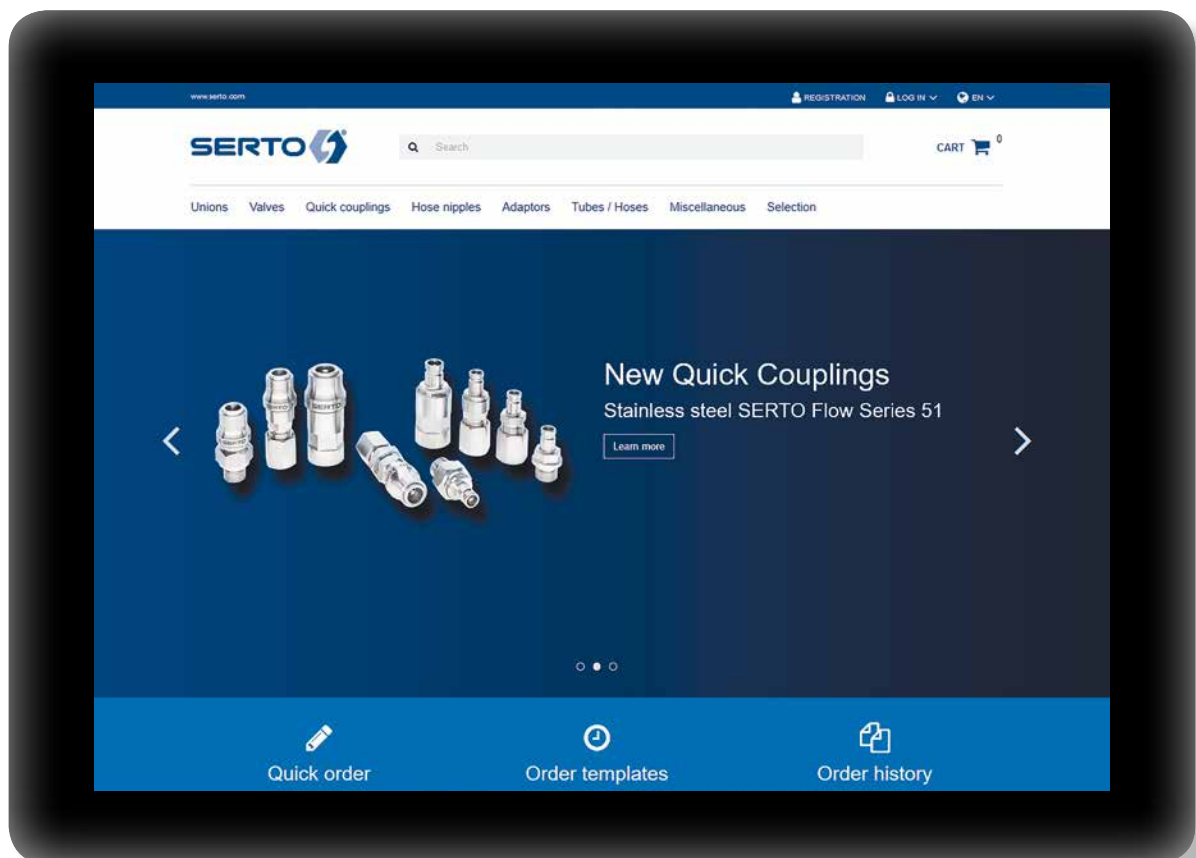
Nur Typen mit dem gleichen DN (Nennweite)
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nominal) peuvent être couplés entre eux.

Only types with the same DN (nominal diame-
ter) can be coupled together.

SERTO Online Shop

- daily updated data and prices
- just click to order, any time of the day
- access to order history

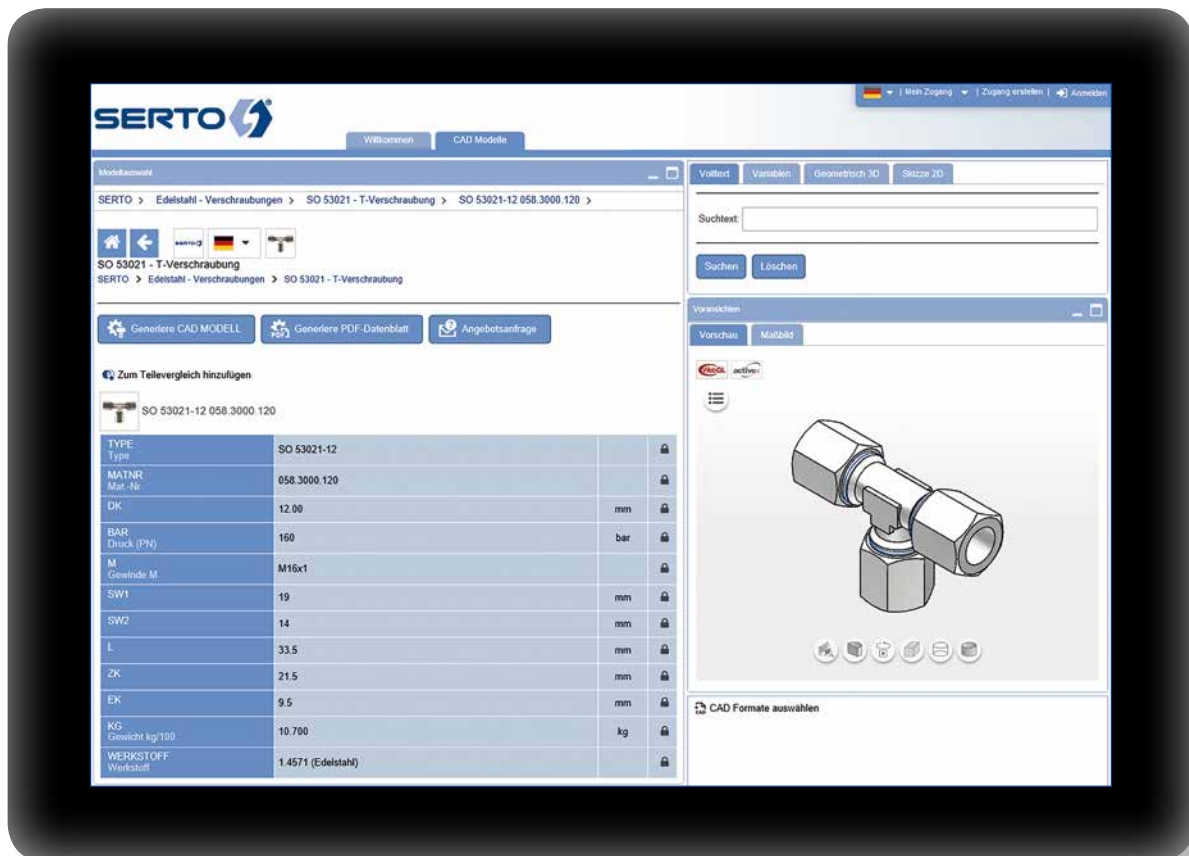


shop.serto.com

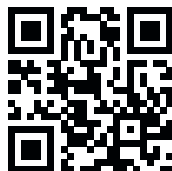


SERTO CAD Library

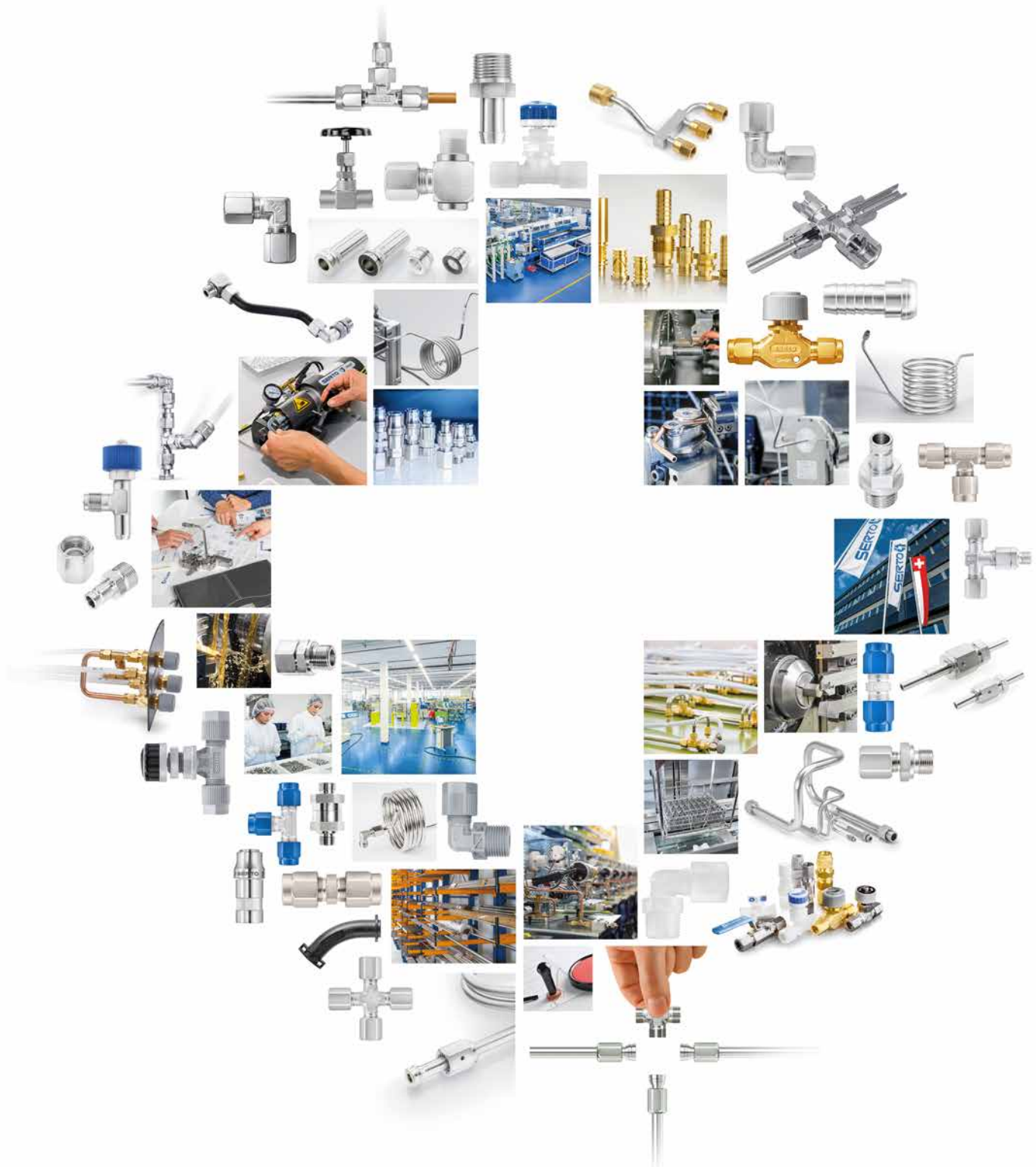
- technical data and drawings of all catalog items
- free downloads
- in the desired CAD format



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