

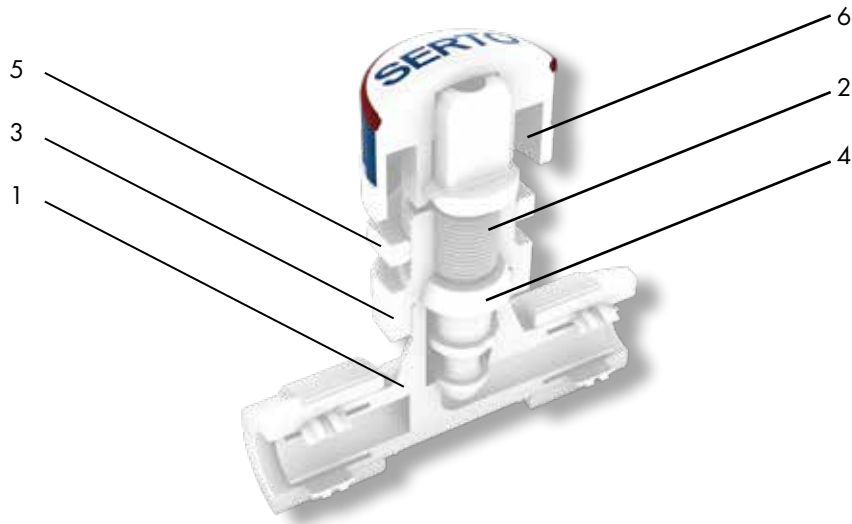


Compact, for versatile use



The valves in PVDF and PA

The compact, color-codable PVDF regulating valve



No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Valve body	PVDF	3	Panel top	PVDF	5	Counter nut	PVDF
2	Valve spindle	PVDF	4	Washer	PTFE	6*	Hand wheel	PVDF/Santoprene®

* Options

- No. 6: exchangeable marking rings in neutral (white), blue, red, yellow, green (included in the scope of delivery)
- Other versions: with female adaptor SO 20030, with hose nozzle SO 20503, with adjustable male adaptor SO 21600
- Accessory: flange mount SO 29900

Characteristics

- Function: regulation and shut-off
- Perfect regulating properties due to precise matching of the valve spindle and the valve body
- Color coding of the hand wheel with exchangeable rings (included in the scope of delivery)
- Two-piece hand wheel for non-slip operation (Santoprene® has identical properties as PVDF)
- Low dead space design, compact sizes
- Spindle thread not in contact with the medium
- Suitable for installation on control panel

Fields of application (examples)

- Medical equipment
- Chemical industry
- Pharma
- Water treatment

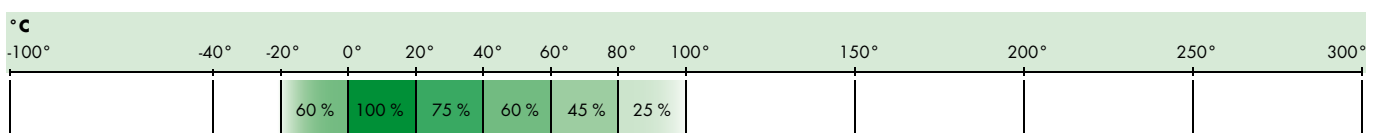
Specifications

Working pressure (PN): 10 bar

Temperature: -20°C to +100°C

Safety factor: 1.5 times

Pressure coefficient in % of PN



Regulierventil

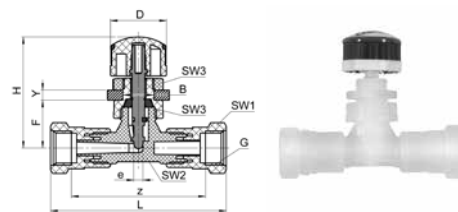
mit Innengewinde

Vanne de réglage

avec taraudage

Regulating valve

with female thread

SO NV 22A00

Type -G	Mat.-Nr.	bar	SW1	SW2	SW3	L	D	H	B	F	z	e	kv	kg/100
G=Rohrgewinde (zylindrisch)			G=Filetage-gaz BSP (cylindrique)						G=BSP thread (parallel)					
SO NV 22A00-1/8	148.1000.042	10	14	10	17	59.0	21.5	42.5	12.5	18.0	45.0	3.5	2.2	2.200
SO NV 22A00-1/4	148.1000.104	10	17	11	17	67.0	21.5	42.5	12.5	18.0	51.0	3.5	3.3	2.700
SO NV 22A00-3/8	148.1000.166	10	22	14	24	75.0	29.5	61.5	18.5	26.0	58.0	7.0	10.0	5.600

Y = max. 3 mm ≤ Anschlussgrösse 1/4
max. 8 mm ≥ Anschlussgrösse 3/8

Y = max. 3 mm ≤ Dimension 1/4
max. 8 mm ≥ Dimension 3/8

Y = max. 3 mm ≤ Dimension 1/4
max. 8 mm ≥ Dimension 3/8

Montagehinweis: Nippel ist handfest montiert. Bei Endmontage mit 1/4 Umdrehung anziehen.

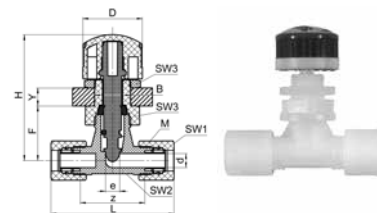
Wir empfehlen eine zusätzliche Schmierung auf der Planfläche.

Note d'installation: L'adaptateur femelle-mâle est monté serré à la main. Pour le montage final, serrer avec 1/4 de tour.

Nous recommandons une lubrification supplémentaire sur la surface plane.

Assembly information: Male adaptor is mounted finger-tight. For final assembly, tighten with 1/4 turn.

We recommend additional lubrication on the plane surface.

Regulierventil**Vanne de réglage****Regulating valve****SO NV 22A21**

Type -d	Mat.-Nr.	bar	M	SW1	SW2	SW3	L	D	H	B	F	z	e	kv	kg/100
SO NV 22A21-6	148.1010.060	10	10x1.0	12	10	17	51.0	21.5	42.5	12.5	18.0	28.0	3.5	2.2	2.000
SO NV 22A21-8	148.1010.080	10	12x1.0	14	11	17	56.0	21.5	42.5	12.5	18.0	29.0	3.5	3.3	2.400
SO NV 22A21-10	148.1010.100	10	14x1.0	17	14	24	61.0	29.5	61.5	18.5	26.0	32.0	7.0	10.0	5.100
SO NV 22A21-12	148.1010.120	10	16x1.0	19	16	24	68.0	29.5	61.5	18.5	26.0	32.0	7.0	12.1	5.700

Y = max. 3 mm ≤ Anschlussgrösse 8
max. 8 mm ≥ Anschlussgrösse 10

Y = max. 3 mm ≤ Dimension 8
max. 8 mm ≥ Dimension 10

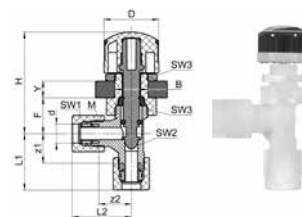
Y = max. 3 mm ≤ Dimension 8
max. 8 mm ≥ Dimension 10

d=Rohrussen-ø
e=kleinste Bohrung
kv=Kenngrösse für das Durchflussverhalten (l/min)
L=Mass in montiertem Zustand
H=Ventil geöffnet

d=ø extérieur du tube
e=ø-min. de passage
kv=facteur d'écoulement (l/min)
L=après montage
H=vanne ouvert

d=tube outside diameter
e=minimum bore
kv=flow factor (l/min)
L=installed length
H=valve opened

Regulier-Eckventil
Vanne-équerre de réglage
Elbow regulating valve



SO NV 22A21E

Type -d	Mat.-Nr.	bar	M	SW1	SW2	SW3	L1	L2	H	B	F	z1	z2	e	kv	kg/100
SO NV 22A21E-6	148.1410.060	10	10x1.0	12	10	17	26.0	26.0	38.0	12.5	13.5	14.0	14.0	3.5	2.7	2.000
SO NV 22A21E-8	148.1410.080	10	12x1.0	14	11	17	28.5	28.5	38.0	12.5	13.5	15.0	15.0	3.5	5.3	2.300
SO NV 22A21E-10	148.1410.100	10	14x1.0	17	14	24	30.5	32.0	54.0	18.5	18.0	16.0	17.5	7.0	14.7	5.000
SO NV 22A21E-12	148.1410.120	10	16x1.0	19	16	24	34.0	35.5	53.0	18.5	18.0	16.0	17.5	7.0	22.3	5.600

D = ø 21,5 mm ≤ Anschlussgrösse 8
 ø 29,5 mm ≥ Anschlussgrösse 10

D = ø 21,5 mm ≤ Dimension 8
 ø 29,5 mm ≥ Dimension 10

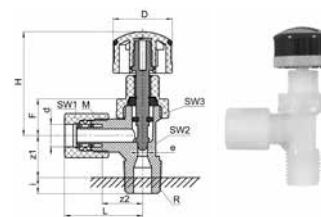
D = ø 21,5 mm ≤ Dimension 8
 ø 29,5 mm ≥ Dimension 10

Y = max. 3 mm ≤ Anschlussgrösse 8
 max. 8 mm ≥ Anschlussgrösse 10

Y = max. 3 mm ≤ Dimension 8
 max. 8 mm ≥ Dimension 10

Y = max. 3 mm ≤ Dimension 8
 max. 8 mm ≥ Dimension 10

Regulier-Eckventil
 mit Einschraubgewinde
Vanne-équerre de réglage
 avec filetage
Elbow regulating valve
 with male adaptor thread



SO NV 22A21EB

Type -d-R	Mat.-Nr.	bar	M	SW1	SW2	SW3	L	H	F	i	z1	z2	e	kv	kg/100
R=Rohrgewinde (kegelig)															
SO NV 22A21EB-6-¼	148.1410.110	10	10x1.0	12	10	17	25.0	38.0	13.5	12.0	8.5	14.0	3.5	2.7	1.900
SO NV 22A21EB-8-¼	148.1410.170	10	12x1.0	14	11	17	28.0	38.0	13.5	12.0	9.0	15.0	3.5	5.3	2.100

D = ø 21,5 mm ≤ Anschlussgrösse 8

D = ø 21,5 mm ≤ Dimension 8

D = ø 21,5 mm ≤ Dimension 8

d=Rohrussen-ø
 e=kleinste Bohrung
 kv=Kenngrösse für das Durchflussverhalten (l/min)
 L=Mass in montiertem Zustand
 H=Ventil geöffnet

d=ø extérieur du tube
 e=ø-min. de passage
 kv=facteur d'écoulement (l/min)
 L=après montage
 H=vanne ouvert

d=tube outside diameter
 e=minimum bore
 kv=flow factor (l/min)
 L=installed length
 H=valve opened

Regulier-Eckventil

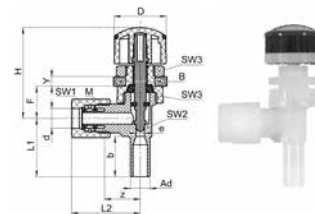
mit Einstellzapfen

Vanne-équerre de réglage

orientable

Elbow regulating valve

adjustable



SO NV 22A21EL

Type -d -Ad	Mat.-Nr.	bar	M	SW1	SW2	SW3	L1	L2	H	B	F	b	z	e	kv	kg/100
SO NV 22A21EL-6-A6	148.1500.060	10	10x1.0	12	10	17	22.0	25.5	38.0	12.5	13.5	15.0	14.0	3.5	2.7	1.700
SO NV 22A21EL-8-A8	148.1500.080	10	12x1.0	14	11	17	24.0	28.5	38.0	12.5	13.5	16.5	15.0	3.5	5.3	1.900

D = ø 21,5 mm
Y = max. 3 mm

D = ø 21,5 mm
Y = max. 3 mm

D = ø 21,5 mm
Y = max. 3 mm

Empfehlung: Für die einfache und korrekte Platzierung des Klemmrings die Montagehilfe AC 870 verwenden.

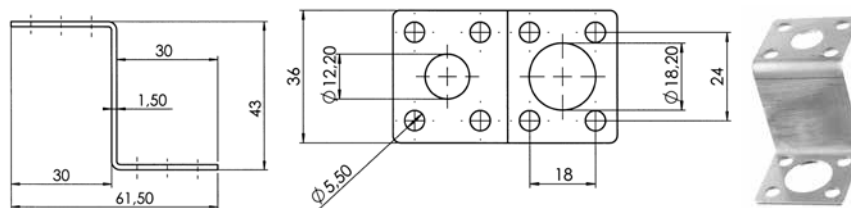
Recommendation: Pour un positionnement facile et correct de la bague de serrage, utiliser l'aide au montage AC 870.

Recommendation: For easy and correct placement of the compression ferrule, use the assembly aid AC 870.

Anschraubfuss

Support de fixation

Flange mount



SO 29900

Type	Mat.-Nr.	kg/100
SO 29900	146.6006.001	0.500

Werkstoff: Inox 1.4571

Matériau: Inox 1.4571

Material: Inox 1.4571

Passend zu allen PVDF und PA Regulierventilen.

Approprié pour tous les vannes de réglage en PVDF et PA.

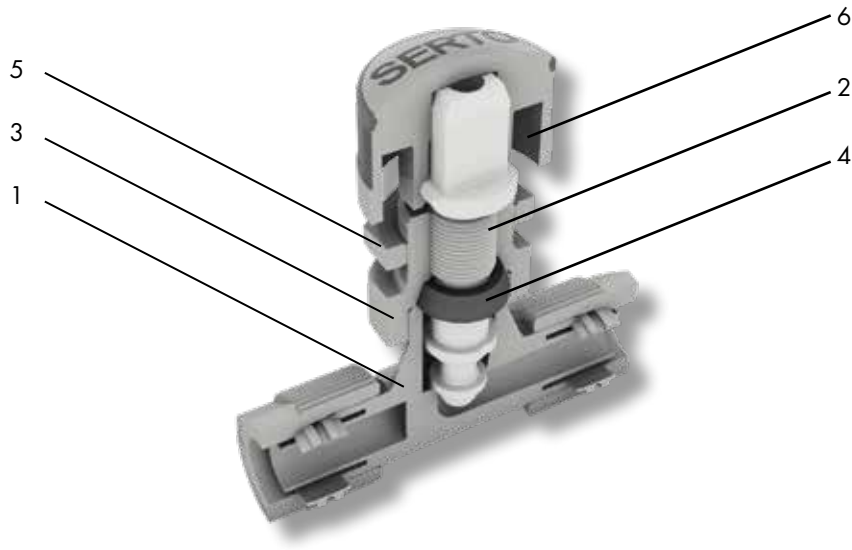
Suitable for all PVDF and PA regulating valves.

d=Rohraussen-ø
Ad=Aussen-ø der Andrehung
e=kleinste Bohrung
kv=Kenngröße für das Durchflussverhalten (l/min)
L=Mass in montiertem Zustand
H=Ventil geöffnet

d=ø extérieur du tube
Ad=ø extérieur de la portée cylindrique
e=ø-min. de passage
kv=facteur d'écoulement (l/min)
L=après montage
H=vanne ouvert

d=tube outside diameter
Ad=outside diameter of cyl. stub
e=minimum bore
kv=flow factor (l/min)
L=installed length
H=valve opened

The compact PA regulating valve



No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Valve body	PA	3	Panel top	PA	5	Counter nut	PA
2	Valve spindle	PVDF	4	Sealing ring	EPDM	6	Handwheel	PA/TPE

Characteristics

- Function: regulating and stop valve
- Uses: for non-aggressive media (see chemical resistance list PA)
- Two-piece hand wheel for non-slip operation (TPE has identical properties as PA)
- Special: zero static construction, compact size
- Suitable for installation on control panel

Fields of application (examples)

- Pneumatics
- Measurement and control technology
- Machine and apparatus engineering

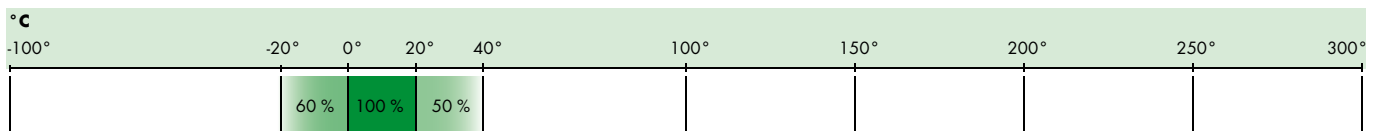
Specifications

Working pressure (PN): 10 bar

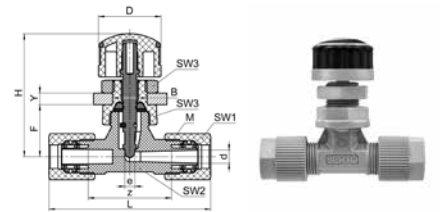
Temperature: -20°C to +40°C

Safety factor: 1.5 times

Pressure coefficient in % of PN



Regulierventil
Vanne de réglage
Regulating valve



SO NV 32A21

Type -d	Mat.-Nr.	bar	M	SW1	SW2	SW3	L	D	H	B	F	z	e	kv	kg/100
SO NV 32A21-6	138.1010.060	10	10x1.0	12	10	17	51.0	21.5	42.5	12.5	18.0	28.0	3.5	2.2	1.500
SO NV 32A21-8	138.1010.080	10	12x1.0	14	11	17	56.0	21.5	42.5	12.5	18.0	29.0	3.5	3.3	1.800
SO NV 32A21-10	138.1010.100	10	14x1.0	17	14	24	61.0	29.5	61.5	18.5	26.0	32.0	7.0	10.0	4.000
SO NV 32A21-12	138.1010.120	10	16x1.0	19	16	24	68.0	29.5	61.5	18.5	26.0	32.0	7.0	12.1	4.500

Y = max. 3 mm ≤ Anschlussgrösse 8
 max. 8 mm ≥ Anschlussgrösse 10

Y = max. 3 mm ≤ Dimension 8
 max. 8 mm ≥ Dimension 10

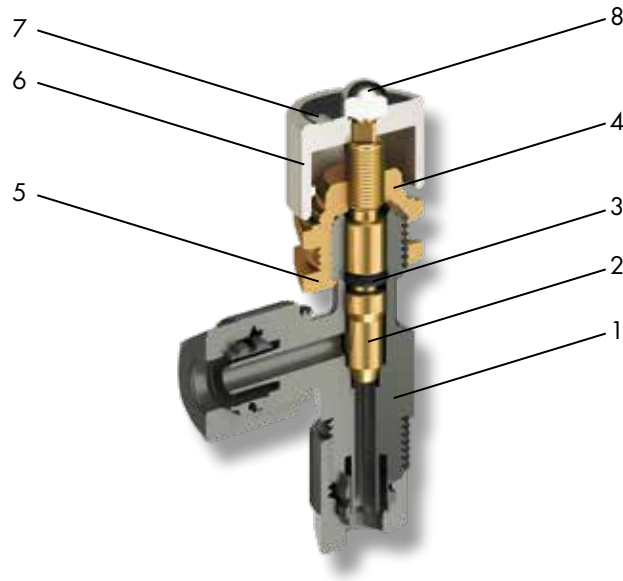
Y = max. 3 mm ≤ Dimension 8
 max. 8 mm ≥ Dimension 10

d=Rohrussen-ø
 e=kleinste Bohrung
 kv=Kenngrösse für das Durchflussverhalten (l/min)
 L=Mass in montiertem Zustand
 H=Ventil geöffnet

d=diámetro exterior del tubo
 e=menor diámetro de orificio
 kv=factor de caudal (l/m(h)min)
 L=dimensión montaje
 H=valor abierto

d=tube outside diameter
 e=minimum bore
 kv=flow factor (l/min)
 L=installed length
 H=valve opened

The compact PA elbow regulating valve



No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Valve body	PA	4	Valve cap	Brass	7	Valve label	Aluminium
2	Valve spindle	Brass	5	Counter nut	Brass	8	Cap nut	Brass CV
3	Seal	NBR	6	Handwheel	Aluminium			

Characteristics

- Function: regulating and stop valve
- Uses: for non-aggressive media (see chemical resistance list PA)
- Special: zero static construction, compact size
- Suitable for installation on control panel

Fields of application (examples)

- Pneumatics
- Measurement and control technology
- Machine and apparatus engineering

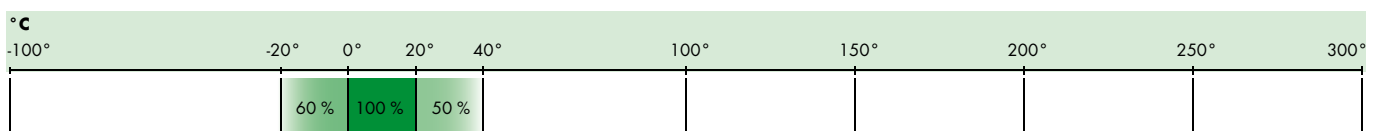
Specifications

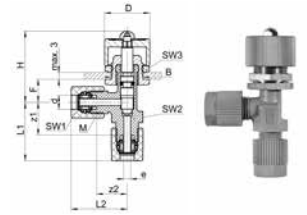
Working pressure (PN): 10 bar

Temperature: -20°C to +40°C

Safety factor: 1.5 times

Pressure coefficient in % of PN



Regulier-Eckventil**Vanne-équerre de réglage****Elbow regulating valve****SO NV 31A21E**

Type-d	Mat.-Nr.	bar	M	SW1	SW2	SW3	L1	L2	H	F	z1	z2	e	kv	kg/100
SO NV 31A21E-6	138.1500.060	10	10x1.0	12	12	17	26.0	25.0	34.5	10.0	14.5	13.5	3.1	2.5	3.000

D = ø 20 mm
B = ø 14,5 mm

D = ø 20 mm
B = ø 14,5 mm

D = ø 20 mm
B = ø 14,5 mm

Regulier-Eckventil

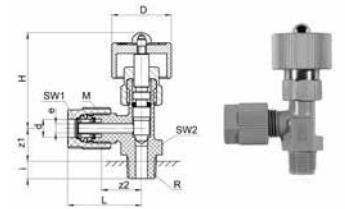
mit Einschraubgewinde

Vanne-équerre de réglage

avec filetage

Elbow regulating valve

with male adaptor thread

**SO NV 31A21EB**

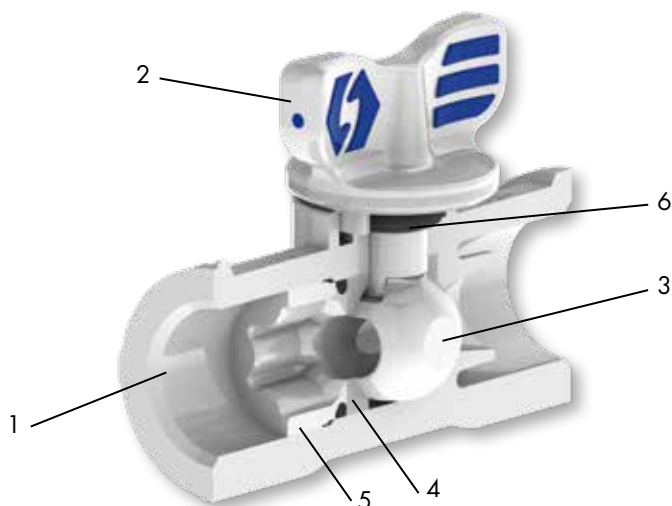
Type-d-R	Mat.-Nr.	bar	M	SW1	SW2	L	D	H	i	z1	z2	e	kv	kg/100
R=Rohrgewinde (kegelig)														
R=Filetage-gaz BSP (conique)														
R=BSP thread (tapered)														
SO NV 31A21EB-6-1/8	138.1600.100	10	10x1.0	12	12	25.0	20.0	43.0	3.0	13.5	12.0	3.1	2.5	2.000

d=Rohraussen-ø
e=kleinste Bohrung
kv=Kenngröße für das Durchflussverhalten (l/min)
L=Mass in montiertem Zustand
H=Ventil geöffnet

d=ø extérieur du tube
e=ø-min. de passage
kv=facteur d'écoulement (l/min)
L=après montage
H=vanne ouvert

d=tube outside diameter
e=minimum bore
kv=flow factor (l/min)
L=installed length
H=valve opened

The compact stopcock in PVDF



No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Body	PVDF	3	Valve ball	PVDF	5	Adjusting screw	PVDF
2	Turning handle	PVDF/TPE	4	Sealing washer	PTFE	6	Seal	FKM

Options

Other version: with tube connection (type SO BV 28A21)

Characteristics

- Function: open and shut-off flow
- Two-piece turning handle for non-slip operation
- Low dead space design
- Compact sizes
- Integrated holes for mounting
- Used PVDF raw material and sealing are FDA compliant
- Suitable for use with aggressive media
- Special: adjustable sealing when sign of wear is showing

Fields of application (examples)

- Medical equipment
- Chemical industry
- Pharma
- Water treatment

Specifications

Working pressure (PN): 10 bar

Temperature: -20°C to +80°C

Safety factor: 1.5 times

Pressure coefficient in % of PN

°C							
-50°	-20°	0°	20°	40°	60°	80°	100°
	60 %	100 %	75 %	60 %	45 %		

Absperrhahn

mit Innengewinde

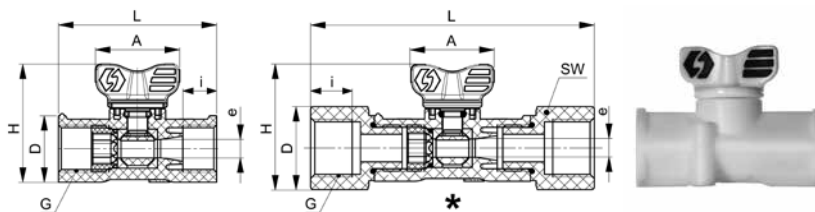
Vanne à boisseau

avec taraudage

Stopcock

with female thread

SO BV 28A00

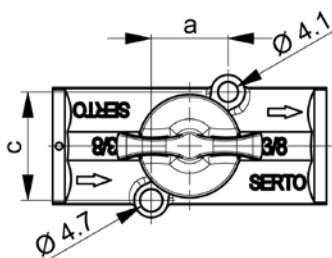


Type -G	Mat.-Nr.	bar	SW	L	D	H	A	a	c	i	kv	e	kg/100
SO BV 28A00-3/8	148.8100.060	10		56.5	24.0	42.0	30.0	15.8	22.3	12.0	22.0	6.6	3.070
SO BV 28A00-1/2 *	148.8100.080	10	27	102.0	30.0	45.0	30.0	15.8	22.3	15.0	22.0	6.6	6.510

Anwendungsbeispiele:

Exemples d'utilisation:

Sample combinations:

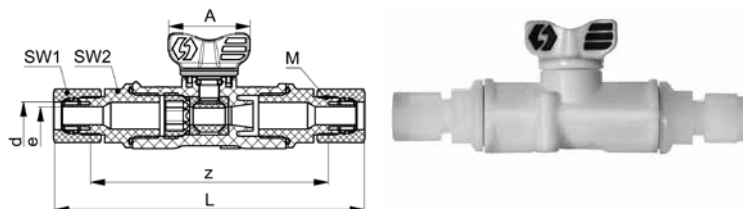


Absperrhahn

Vanne à boisseau

Stopcock

SO BV 28A21



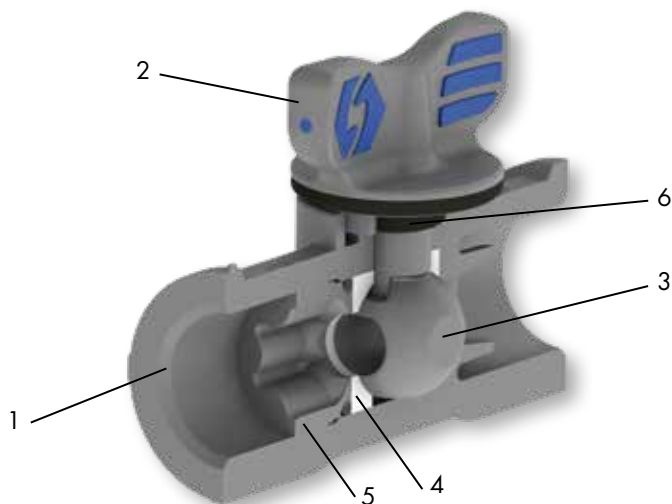
Type -d	Mat.-Nr.	bar	M	SW1	SW2	L	A	z	e	kg/100
SO BV 28A21-6	148.8110.060	10	10x1.0	12	17	110.0	30.0	89.0	2.8	4.930
SO BV 28A21-8	148.8110.080	10	12x1.0	14	17	114.0	30.0	89.0	4.8	5.110
SO BV 28A21-10	148.8110.100	10	14x1.0	17	17	114.0	30.0	88.0	6.6	5.570
SO BV 28A21-12	148.8110.120	10	16x1.0	19	17	120.0	30.0	86.0	6.6	6.070

d=Rohrassen-ø
 e=kleinste Bohrung
 kv=Kenngröße für das Durchflussverhalten (l/min)
 L=Mass in montiertem Zustand

d=ø extérieur du tube
 e=ø-min. de passage
 kv=facteur d'écoulement (l/min)
 L=après montage

d=tube outside diameter
 e=minimum bore
 kv=flow factor (l/min)
 L=installed length

The compact stopcock in PA



No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Body	PA 6.6	3	Valve ball	PA 12	5	Adjusting screw	PA 6.6
2	Turning handle	PA 12/TPE	4	Sealing washer	PTFE	6	Seal	FKM

Options

Other version: with tube connection (type SO BV 38A21)

Characteristics

- Function: open and shut-off flow
- Two-piece turning handle for non-slip operation
- Low dead space design
- Compact sizes
- Integrated holes for mounting
- Protect against direct UV radiation
- Special: adjustable sealing when sign of wear is showing

Fields of application (examples)

- Pneumatics
- Measurement and control technology
- Machine and apparatus engineering

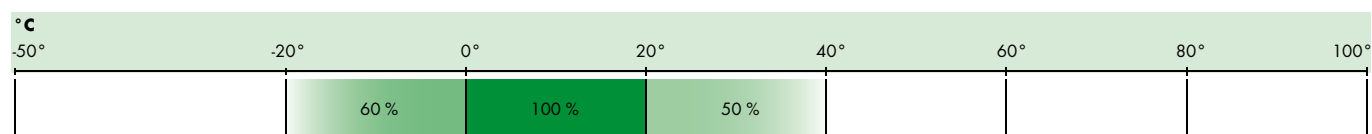
Specifications

Working pressure (PN): 10 bar

Temperature: -20°C to +40°C

Safety factor: 1.5 times

Pressure coefficient in % of PN



Absperrhahn

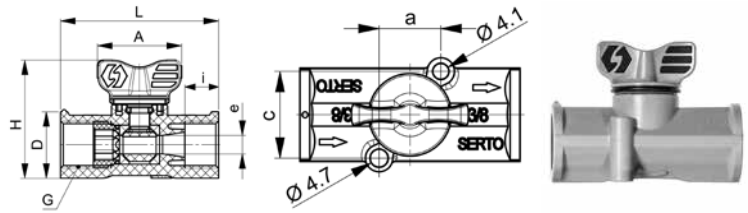
mit Innengewinde

Vanne à boisseau

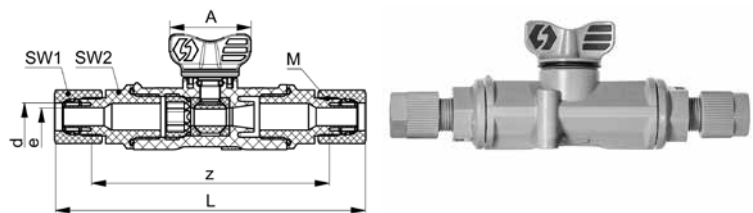
avec taraudage

Stopcock

with female thread

SO BV 38A00

Type -G	Mat.-Nr.	bar	L	D	H	A	a	c	i	kv	e	kg/100
SO BV 38A00-3/8	138.8105.060	10	56.5	24.0	42.0	30.0	15.8	22.3	12.0	22.0	6.6	2.120

Absperrhahn**Vanne à boisseau****Stopcock****SO BV 38A21**

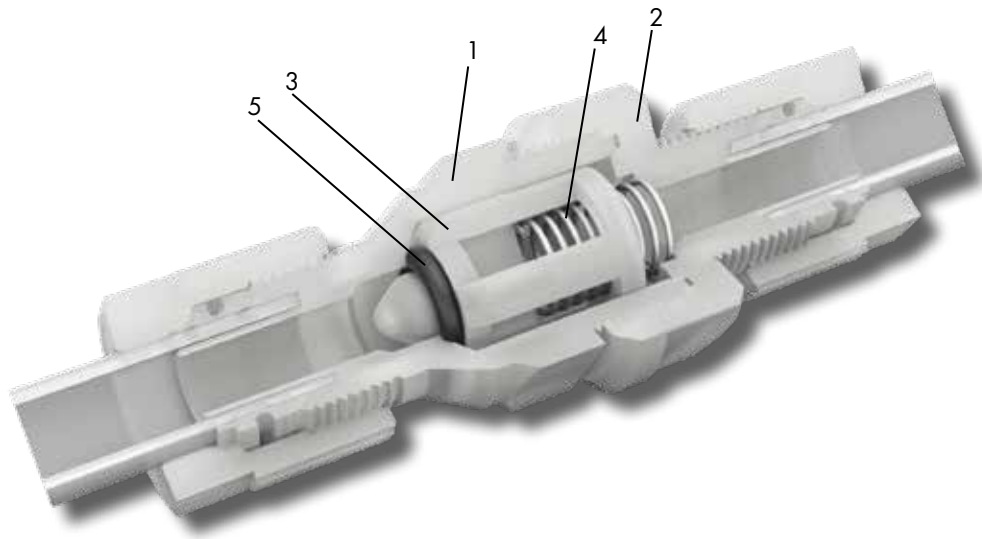
Type -d	Mat.-Nr.	bar	M	SW1	SW2	L	A	z	e	kg/100
SO BV 38A21-6	138.8115.060	10	10x1.0	12	17	110.0	30.0	89.0	2.8	3.440
SO BV 38A21-8	138.8115.080	10	12x1.0	14	17	114.0	30.0	89.0	4.8	3.570
SO BV 38A21-10	138.8115.100	10	14x1.0	17	17	114.0	30.0	88.0	6.6	3.860
SO BV 38A21-12	138.8115.120	10	16x1.0	19	17	120.0	30.0	86.0	6.6	4.240

d=Rohraussen-ø
 e=kleinste Bohrung
 kv=Kenngröße für das Durchflussverhalten (l/min)
 L=Mass in montiertem Zustand

d=ø extérieur du tube
 e=ø-min. de passage
 kv=facteur d'écoulement (l/min)
 L=après montage

d=tube outside diameter
 e=minimum bore
 kv=flow factor (l/min)
 L=installed length

The compact taper seat non-return valve in PVDF



No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Valve seat	PVDF (FDA)	3	Valve cone	PVDF (FDA)	5*	Seal	FKM (FDA)
2	Valve nut	PVDF (FDA)	4	Compression spring	Hastelloy® 2.4610 C4	6		

* Optionen

- No. 5 - Seal: EPDM, FFKM
- Other versions: with female adaptor SO 20030

Characteristics

- Function: check valve
- Uses: for aggressive media (see chemical resistance list PVDF and FKM)
- Special: low pressure loss due to flow-optimised design

Fields of application (examples)

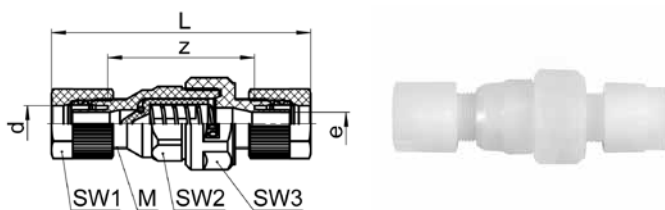
- Medical
- Clean rooms
- Laboratories

Specifications

Working pressure (PN): 10 bar
 Temperature: -20°C to +100°C
 Sterilizable: up to +121°C
 Opening pressure: 0.2 ± 0.1 bar
 Safety factor: 1.5 times

Pressure coefficient in % of PN

°C												
-100°	-40°	-20°	0°	20°	40°	60°	80°	100°	150°	200°	250°	300°
			60%	100%	75%	60%	45%	25%				

Kegelrückschlagventil**Clapet anti-retour à siège conique****Taper seat non-return valve****SO CV 23B21**

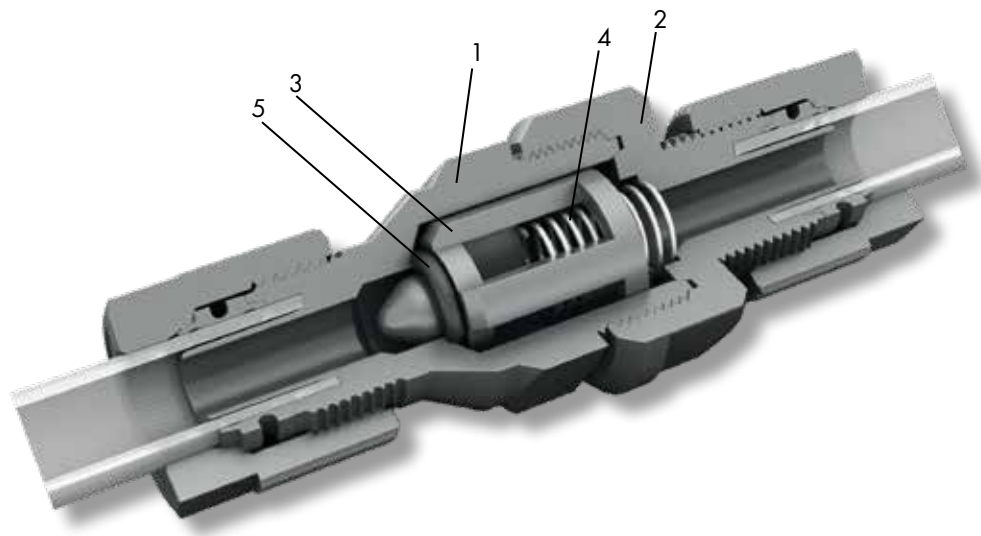
Type -d	Mat.-Nr.	bar	M	SW1	SW2	SW3	L	z	e	kg/100
* SO CV 23B21-4	148.3010.040	10	10x1.0	12	17	19	56.5	34.0	2.9	1.500
SO CV 23B21-6	148.3010.060	10	10x1.0	12	17	19	56.5	34.0	2.9	1.400
SO CV 23B21-8	148.3010.080	10	12x1.0	14	17	19	61.5	35.5	4.9	1.600
SO CV 23B21-10	148.3010.100	10	14x1.0	17	19	24	69.5	41.0	6.5	2.800
SO CV 23B21-12	148.3010.120	10	16x1.0	19	19	24	74.5	39.0	7.5	3.400

d=Rohrassens- \varnothing
e=kleinste Bohrung
L=Mass in montiertem Zustand
*=mit reduziertem Klemmring

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

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

The compact taper seat non-return valve in PA



No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Valve seat	PA	3	Valve cone	PA	5*	Seal	FKM
2	Valve nut	PA	4	Compression spring	Hastelloy® 2.4610 C4	6		

* Optionen

- No. 5 - Seal: EPDM

Characteristics

- Function: check valve
- Uses: for non-aggressive media (see chemical resistance list PA and FKM)
- Special: low pressure loss due to flow-optimised design

Fields of application (examples)

- Medical
- Clean rooms
- Laboratories

Specifications

Working pressure (PN): 10 bar

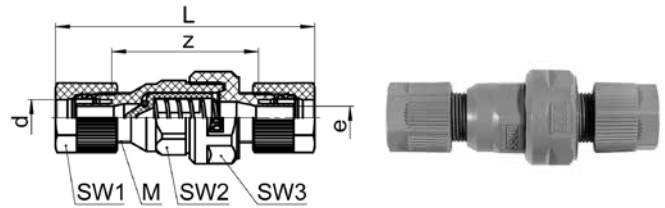
Temperature: -20°C to +80°C

Opening pressure: 0.2 ± 0.1 bar

Safety factor: 1.5 times

Pressure coefficient in % of PN

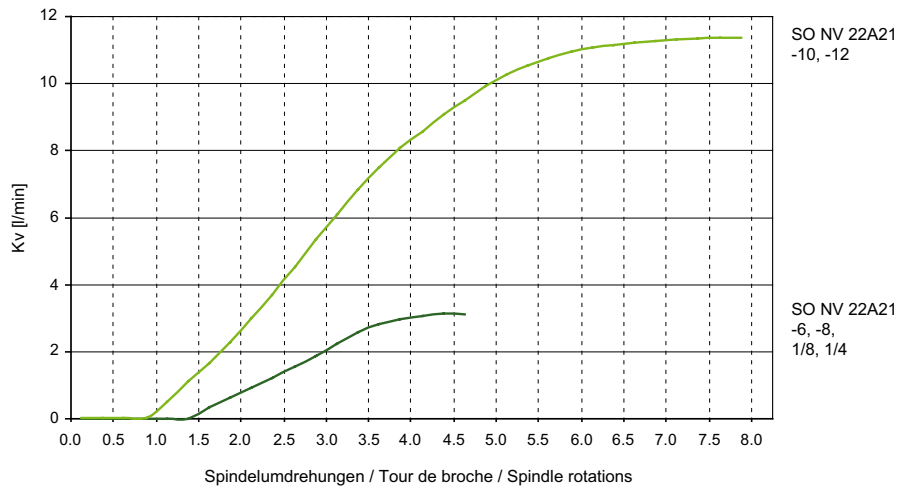
°C							
-50°	-20°	0°	20°	40°	60°	80°	100°
	60 %	100 %	75 %	60 %	45 %		

Kegelrückschlagventil**Clapet anti-retour à siège conique****Taper seat non-return valve****SO CV 33B21**

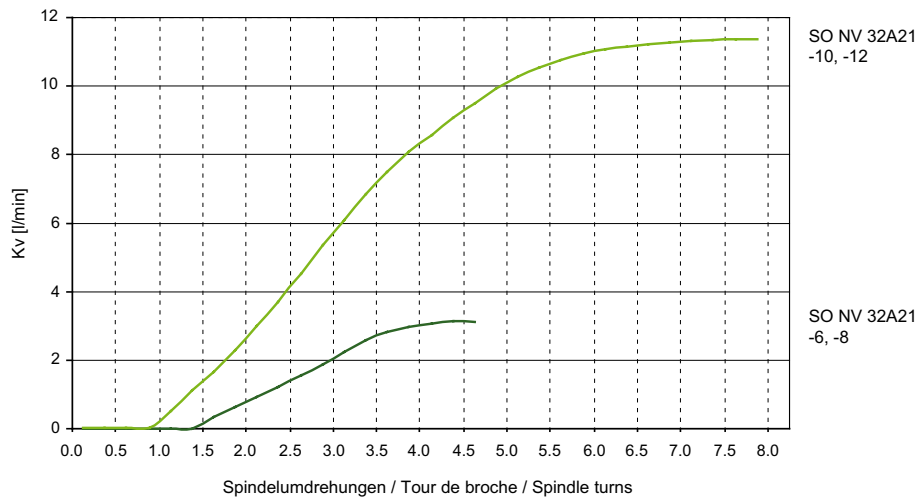
Type -d	Mat.-Nr.	bar	M	SW1	SW2	SW3	L	z	e	kg/100
SO CV 33B21-6	138.3010.060	10	10x1.0	12	17	19	56.5	34.0	2.9	1.400
SO CV 33B21-8	138.3010.080	10	12x1.0	14	17	19	61.5	35.5	4.9	1.600
SO CV 33B21-10	138.3010.100	10	14x1.0	17	19	24	69.5	41.0	6.5	2.800
SO CV 33B21-12	138.3010.120	10	16x1.0	19	19	24	74.5	39.0	7.5	3.400

Technical information

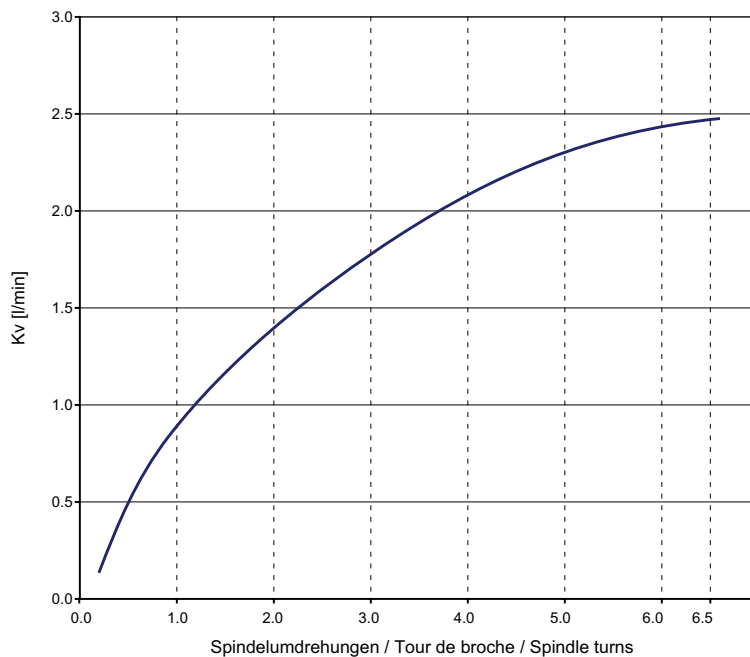
Flow rate regulating valve PVDF



Flow rate regulating valve PA

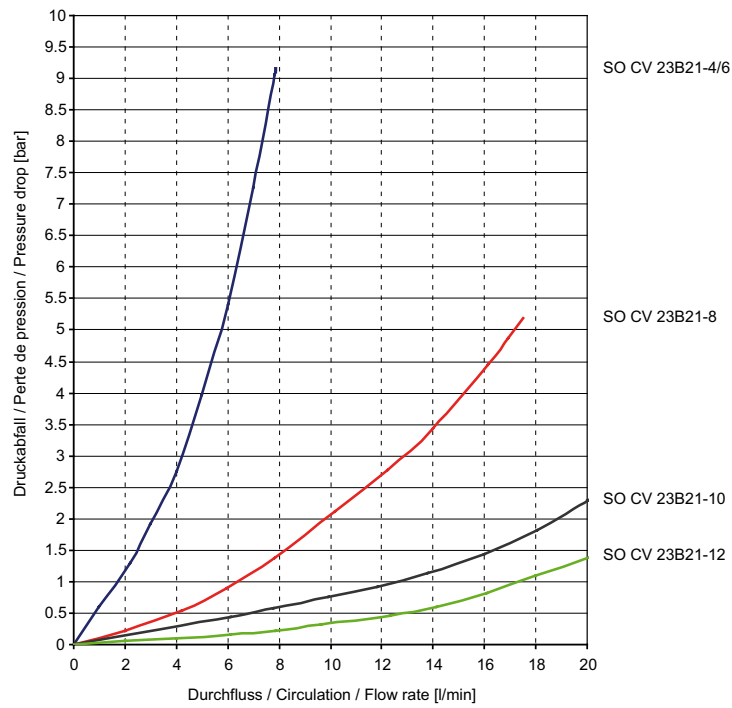


Flow rate elbow regulating valve PA

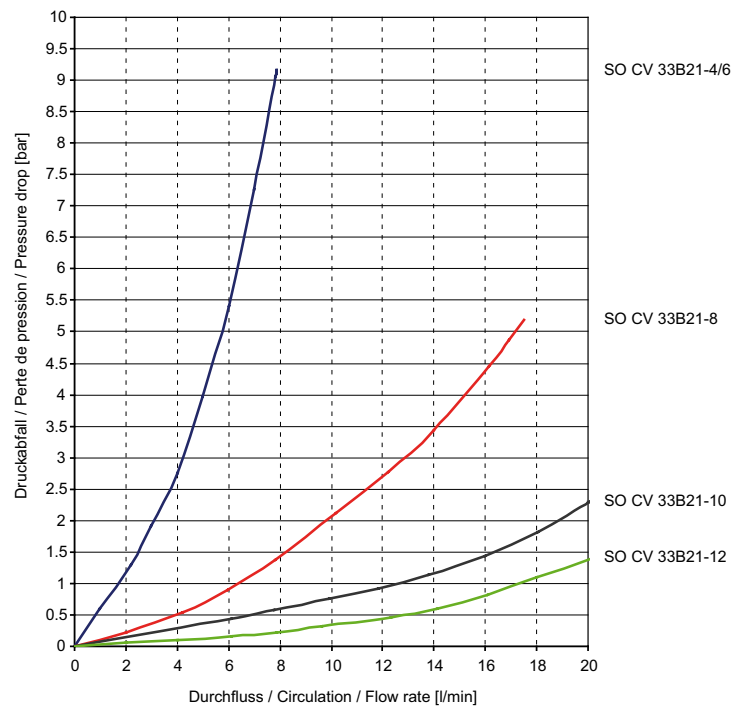


Technical information

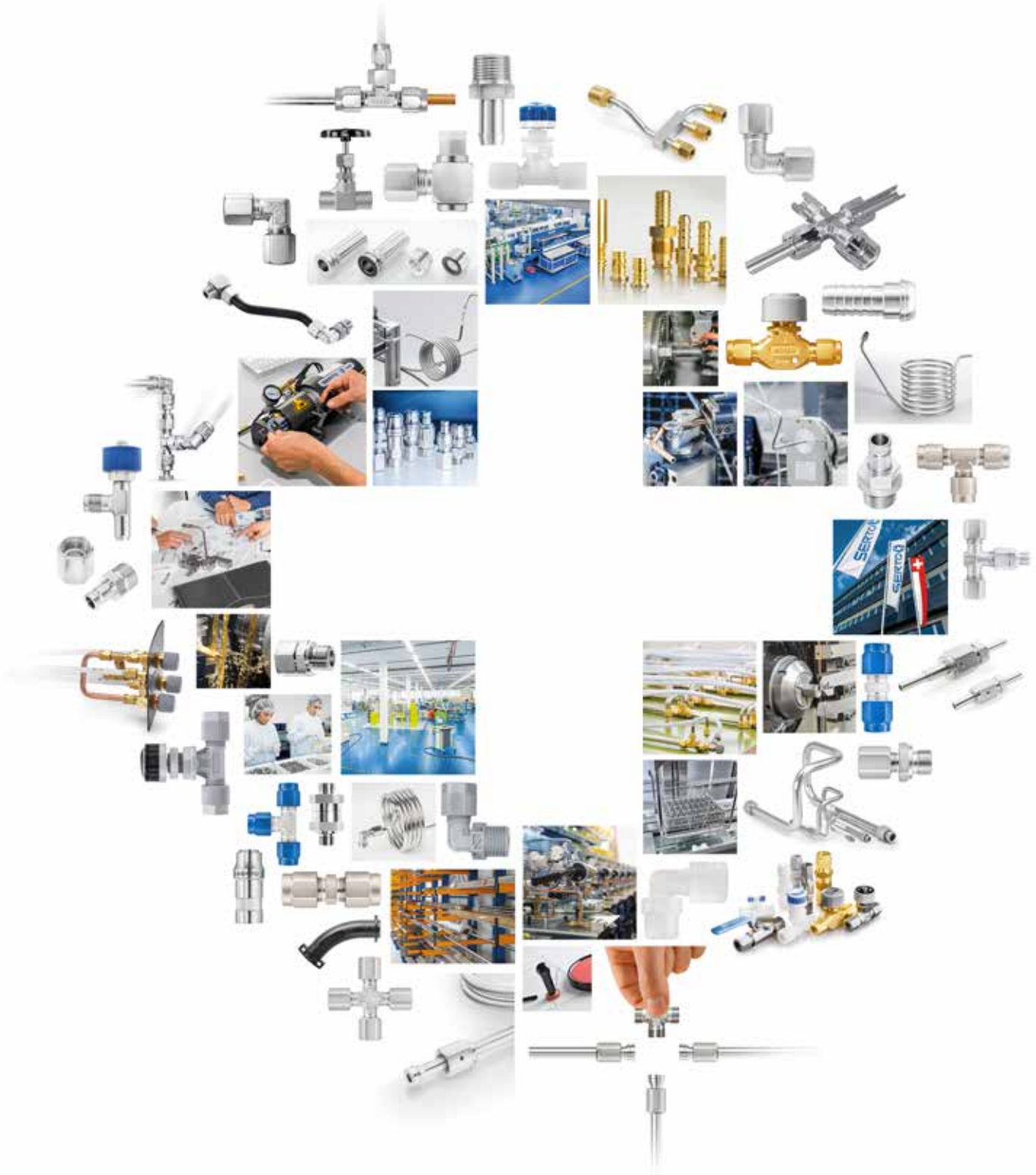
Flow rate taper seat non-return valve PVDF



Flow rate taper seat non-return valve PA



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