

Throttle Valve with Push-in Connectors



AVS Römer function fittings, i.e., filters, non-return valves, throttles, quick-release couplings... in combination with the Established **ELSA push-in connectors** by AVS-Römer.

Application

AVS Römer function fittings are used in a variety of neutral gaseous and liquid media. If the fitting materials are suitable, application with aggressive media is permitted. See also the information on characteristics.

CHARACTERISTICS

BODY MATERIAL / SUITABILITY

Stainless steel AISI 316L	Corresponds to 1.4404 stainless steel . Suitable for many aggressive media, in particular at higher pressures.	
Plastic PPSU	Polyphenylsulfone . Suitable for many aggressive media with temperatures up to 140 °C (hot water, steam). Can be used with FDA-compliant FKM sealing rings or FDA-compliant and KTW-approved EPDM sealing rings in the food and pharmaceutical industries. Caution! PPSU should not be used in contact with aromatic hydrocarbons, oxidising acids, acetone, chlorinated hydrocarbons, ethers or ketones! Also, PPSU should not be placed directly in contact with anaerobic adhesives!	
Other materials	see relevant products	
Approval	NSF/ANSI 169	
TUBE		
Outside diameter [mm]	4 and 6	
Perm. tolerance [mm]	±0.1	
Permitted grade	Polyamide (PA), polyurethane (PU), fluorine polymer (FEP and PFA)	
OPERATING PRESSURE / TEMPERATURE		
Plastic version	Operating pressure 0 to 20 bar Temperature-dependent	Means that the allowable operating pressure OP is also dependent on the medium temperature within the allowable ambient temperature. Values on request.
Allowable operating pressure and operating temperature of pipe/tube must be observed!		

Throttle Valve with Push-in Connectors

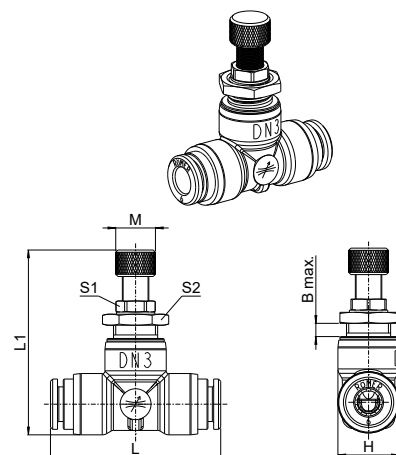
Price group	27	PN 20		Constr. design: Precision cone throttle	Amb. temp. T_{min} 0 °C, T_{max} +60 °C Med. temp. T_{min} 0 °C, T_{max} +140 °C		Plastic PPSU
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Operating pressure 0 to max. 20 bar
Temperature-dependent

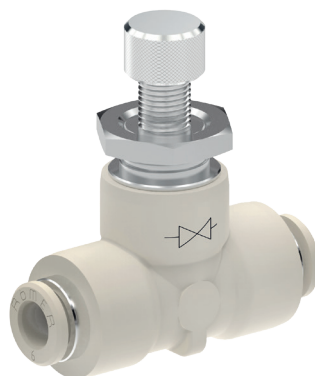
Material: Body: PPSU, spindle 1.4404,
seal: FKM (FDA-compliant)

DN	KV value water [m³/h]	for tube D	L	L1	M	B	H	S1	S2	Weight in [g]	Type	Order number	Price
1.5	0 - 0.05	4	37.8	42.2	M10x1	3.5	13.9	8	13	22	RF0-958-P315-4FF	635635	o. r.
1.5	0 - 0.05	6	38.8	42.2	M10x1	3.5	13.9	8	13	23.2	RF0-958-P315-6FF	635636	o. r.
2	0 - 0.05	4	37.8	42	M10x1	3.5	13.9	8	13	23.1	RF0-958-P320-4FF	635637	o. r.
2	0 - 0.05	6	38.8	42	M10x1	3.5	13.9	8	13	22.4	RF0-958-P320-6FF	635638	o. r.
3	0 - 0.15	6	38.8	42	M10x1	3.5	13.9	8	13	23.4	RF0-958-P330-6FF	635639	o. r.

Illustration



Shut-Off Valve with Push-in Connectors



AVS Römer function fittings, i.e., filters, non-return valves, throttles, quick-release couplings... in combination with the Established **ELSA push-in connectors** by AVS-Römer.

Application

AVS Römer function fittings are used in a variety of neutral gaseous and liquid media. If the fitting materials are suitable, application with aggressive media is permitted. See also the information on characteristics.

CHARACTERISTICS

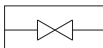
BODY MATERIAL / SUITABILITY

Stainless steel AISI 316L	Corresponds to 1.4404 stainless steel . Suitable for many aggressive media, in particular at higher pressures.	
Plastic PPSU	Polyphenylsulfone. Suitable for many aggressive media with temperatures up to 140 °C (hot water, steam). Can be used with FDA-compliant FKM sealing rings or FDA-compliant and KTW-approved EPDM sealing rings in the food and pharmaceutical industries. Caution! PPSU should not be used in contact with aromatic hydrocarbons, oxidising acids, acetone, chlorinated hydrocarbons, ethers or ketones! Also, PPSU should not be placed directly in contact with anaerobic adhesives!	
Other materials	see relevant products	
Approval	NSF/ANSI 169	
TUBE		
Outside diameter [mm]	6	
Perm. tolerance [mm]	±0.1	
Permitted grade	Polyamide (PA), polyurethane (PU), fluorine polymer (FEP and PFA)	
OPERATING PRESSURE / TEMPERATURE		
Plastic version	Operating pressure 0 to 16 bar Temperature-dependent	Means that the allowable operating pressure OP is also dependent on the medium temperature within the allowable ambient temperature. Values on request.
	Allowable operating pressure and operating temperature of pipe/tube must be observed!	

Shut-Off Valve with Push-in Connectors

Price group **27**

PN 16


Constr. design:
Cone poppet valve

Amb. temp. T_{min} 0 °C, T_{max} +60 °C
Med. temp. T_{min} 0 °C, T_{max} +140 °C

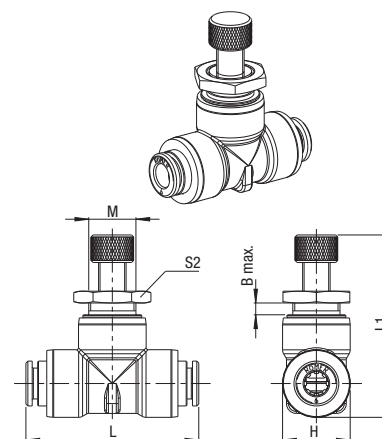
Plastic
PPSU

Operating pressure 0 to max. 16 bar
Temperature-dependent

Material: Body: PPSU, spindle 1.4404,
Seal: FKM (FDA-compliant)

DN	KV value water [m³/h]	for tube D	L	L1	M	B	H	S2	Weight in [g]	Type	Order number	Price
4	0-0.22	6	44	46.4	M12x1	3.5	17,2	17	35.3	AFO-958-P340-6FF	694949	o. r.

Illustration



Non-Return Valves with Push-in Connectors



AVS Römer function fittings, i.e., filters, non-return valves, throttles, quick-release couplings... in combination with the Established **ELSA push-in connectors** by AVS-Römer.

Application

AVS Römer function fittings are used in a variety of neutral gaseous and liquid media. If the fitting materials are suitable, application with aggressive media is permitted. See also the information on characteristics.

CHARACTERISTICS

BODY MATERIAL / SUITABILITY

Stainless steel AISI 316L	Corresponds to 1.4404 stainless steel . Suitable for many aggressive media, in particular at higher pressures.	
Plastic PPSU	Polyphenylsulfone . Suitable for many aggressive media with temperatures up to 140 °C (hot water, steam). Can be used with FDA-compliant FKM sealing rings or FDA-compliant and KTW-approved EPDM sealing rings in the food and pharmaceutical industries. Caution! PPSU should not be used in contact with aromatic hydrocarbons, oxidising acids, acetone, chlorinated hydrocarbons, ethers or ketones! Also, PPSU should not be placed directly in contact with anaerobic adhesives!	
Other materials	see relevant products	
Approval	NSF/ANSI 169	
TUBE		
Outside diameter [mm]	4, 6 and 8	
Perm. tolerance [mm]	±0.1	
Permitted grade	Polyamide (PA), polyurethane (PU), fluorine polymer (FEP and PFA)	
THREAD		
External thread	“G” cylindrical thread: Whitworth pipe thread DIN ISO 228-1 G 1/8-G 1/4	
OPERATING PRESSURE / TEMPERATURE		
Plastic version	Operating pressure 0 to 16 bar Temperature-dependent	Means that the allowable operating pressure OP is also dependent on the medium temperature within the allowable ambient temperature. Values on request.
Allowable operating pressure and operating temperature of pipe/tube must be observed!		
THREAD SEAL		
Cylindrical threaded nipple	Thread sealed by a FKM O-Ring in recess	applies to all cylindrical threaded nipples

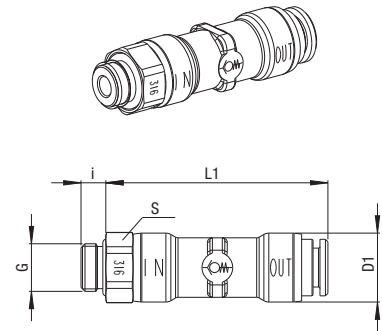
Non-Return Valve with Push-in Connector on Outlet

Price group	23	PN 16		Constr. design: spring-loaded cone non-return valve	Amb. temp. T_{min} 0 °C, T_{max} +60 °C Med. temp. T_{min} 0 °C, T_{max} +140 °C	NSF	Plastic PPSU
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Operating pressure 0.1 to max. 16 bar, Temperature-dependent	Thread sealed by a FKM O-Ring in recess	Material: Body: PPSU, nipple: 1.4404, cone PPSU, spring: Stainless steel 1.4310, seal: FKM (FDA-compliant)
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DN	KV value water [m³/h]	for tube D	G	i	L1	D1	S	Weight in [g]	Type	Order number	Price
2.5	0.15	4	1/8	5	48	13.9	13	20.2	VNR-951-P325-4FF-1/8	634901	o. r.
2.5	0.15	4	1/4	7	48.5	13.9	17	28.7	VNR-951-P325-4FF-1/4	634902	o. r.
4	0.4	6	1/8	5	44.8	13.9	13	16.7	VNR-951-P340-6FF-1/8	634903	o. r.
4	0.4	6	1/4	7	45.3	13.9	17	26.4	VNR-951-P340-6FF-1/4	634904	o. r.

Illustration



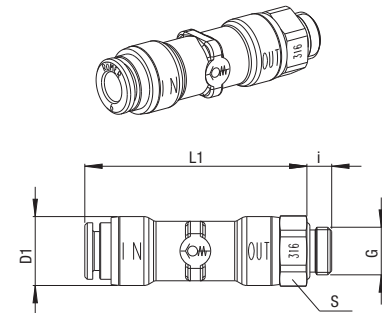
Non-Return Valve with Push-in Connector on Inlet

Price group	23	PN 16		Constr. design: spring-loaded cone non-return valve	Amb. temp. T_{min} 0 °C, T_{max} +60 °C Med. temp. T_{min} 0 °C, T_{max} +140 °C	NSF	Plastic PPSU
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Operating pressure 0.1 to max. 16 bar, Temperature-dependent	Thread sealed by a FKM O-Ring in recess	Material: Body: PPSU, nipple: 1.4404, cone PPSU, spring: Stainless steel 1.4310, seal: FKM (FDA-compliant)
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DN	KV value water [m³/h]	for tube D	G	i	L1	D1	S	Weight in [g]	Type	Order number	Price
2.5	0.15	4	1/8	5	44.5	13.9	13	16.6	VRN-951-P325-4FF-1/8	634909	o. r.
2.5	0.15	4	1/4	7	45	13.9	17	25.7	VRN-951-P325-4FF-1/4	634910	o. r.
4	0.4	6	1/8	5	44.8	13.9	13	17	VRN-951-P340-6FF-1/8	634911	o. r.
4	0.4	6	1/4	7	45.3	13.9	17	25.8	VRN-951-P340-6FF-1/4	634912	o. r.

Illustration



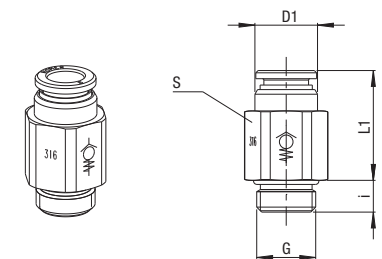
Non-Return Valve with Push-in Connector on Inlet

Price group	23	PN 8		Constr. design: spring-loaded cone non-return valve	T_{min} 0 °C T_{max} +140 °C	NSF	Stainless steel AISI 316L
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Operating pressure 0.1 to max. 8 bar	Thread sealed by a FKM O-Ring in recess	Material: Body: 1.4404, cone PPSU, spring: Stainless steel 1.4310, seal: FKM (FDA-compliant)
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DN	KV value water [m³/h]	for tube D	G	i	L1	D1	S	Weight in [g]	Type	Order number	Price
4	0.45	6	1/4	7	22.2	11.8	17	25.3	VRN-951-X 440-6FF-1/4-P3	634941	o. r.
4	0.45	6	3/8	8	21.2	11.8	19	35.2	VRN-951-X 440-6FF-3/8-P3	634942	o. r.
4	0.45	8	1/4	7	24.2	13.8	17	26.5	VRN-951-X 440-8FF-1/4-P3	634943	o. r.
4	0.45	8	3/8	8	23.2	13.8	19	37.3	VRN-951-X 440-8FF-3/8-P3	634944	o. r.

Illustration



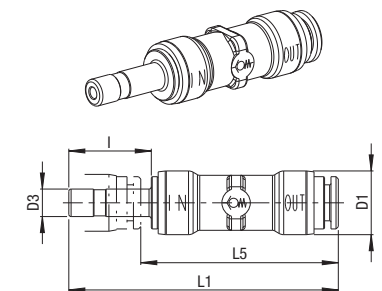
Non-Return Valve with Plug-in Connector - Stem on Inlet

Price group	23	PN 16		Constr. design: spring-loaded cone non-return valve	Amb. temp. T_{min} 0 °C, T_{max} +60 °C Med. temp. T_{min} 0 °C, T_{max} +140 °C	NSF	Plastic PPSU
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Operating pressure 0.1 to max. 16 bar, Temperature-dependent	Material: Body: PPSU, Stem: 1.4404, cone PPSU, spring: Stainless steel 1.4310, seal: FKM (FDA-compliant)
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DN	KV value water [m³/h]	for tube D	D3	I	L1	L5	D1	Weight in [g]	Type	Order number	Price
2.5	0.15	4	4	17	60.5	47	13.9	14.3	VNR-947-P325-4FF-D4	634917	o. r.
2.5	0.15	4	6	18	61.5	46	13.9	15.1	VNR-947-P325-4FF-D6	634918	o. r.
2.5	0.15	6	4	17	57.3	42.6	13.9	11.3	VNR-947-P325-6FF-D4	634919	o. r.
4	0.4	6	6	18	58.3	43.7	13.9	11	VNR-947-P340-6FF-D6	634920	o. r.

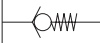
Illustration



Non-Return Valve with Plug-in Connector - Stem on Outlet

Price group **23**

PN 16



Constr. design: spring-loaded cone non-return valve

Amb. temp. T_{min} 0 °C, T_{max} +60 °C
Med. temp. T_{min} 0 °C, T_{max} +140 °C

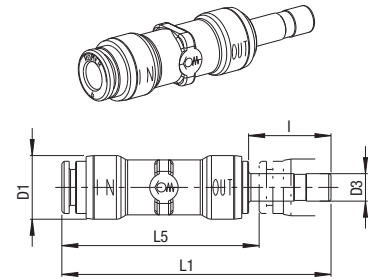
Plastic PPSU

Operating pressure 0.1 to max. 16 bar
Temperature-dependent

Material: Body: PPSU, Stem: 1.4404, cone PPSU, spring: Stainless steel 1.4310, seal: FKM (FDA-compliant)

DN	KV value water [m³/h]	for tube D	D3	I	L1	L5	D1	Weight in [g]	Type	Order number	Price
2.5	0.15	4	4	17	56.8	42.1	13.9	11.2	VRN-947-P325-4FF-D4	634925	o. r.
2.5	0.15	4	6	18	57.8	42.2	13.9	12	VRN-947-P325-4FF-D6	634926	o. r.
2.5	0.15	6	4	17	57.3	43.6	13.9	11.3	VRN-947-P325-6FF-D4	634927	o. r.
4	0.4	6	6	18	58.3	43.7	13.9	10	VRN-947-P340-6FF-D6	634928	o. r.

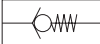
Illustration



Non-Return Valve with Push-in Connectors

Price group **23**

PN 16



Constr. design: spring-loaded cone non-return valve

Amb. temp. T_{min} 0 °C, T_{max} +60 °C
Med. temp. T_{min} 0 °C, T_{max} +140 °C

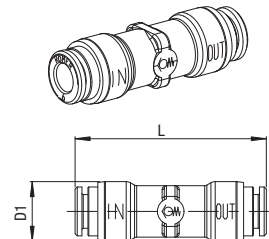
Plastic PPSU

Operating pressure 0.1 to max. 16 bar
Temperature-dependent

Material: Body: PPSU, cone PPSU, spring: Stainless steel 1.4310, seal: FKM (FDA-compliant)

DN	KV value water [m³/h]	for tube D	L	D1	Temperature [°C]	Operating pressure Temperature-dependent [bar]	Weight in [g]	Type	Order number	Price
2.5	0.15	4	47.3	13.9	0 bis +140	0.1 bis max. 16	10.9	VNR-958-P325-4FF	635077	o. r.
4	0.4	6	44.6	13.9	0 bis +140	0.1 bis max. 16	8.2	VNR-958-P340-6FF	635080	o. r.
6	0.8	8	50.2	17.2	0 bis +140	0.1 bis max. 16	13.1	VNR-958-P360-8FF	634803	o. r.

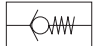
Illustration



Non-Return Valve with Push-in Connectors and Hose Tail

Price group **23**

PN 16



Constr. design: spring-loaded cone non-return valve

Amb. temp. T_{min} 0 °C, T_{max} +60 °C
Med. temp. T_{min} 0 °C, T_{max} +140 °C

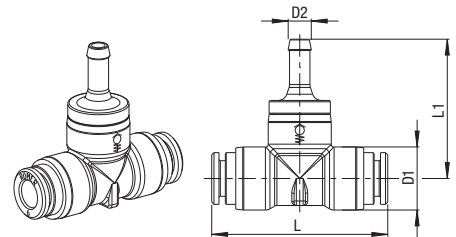
Plastic PPSU

Operating pressure 0.1 to max. 16 bar
Temperature-dependent

Material: Body: PPSU, cone PPSU, spring: Stainless steel 1.4310, seal: FKM (FDA-compliant)

DN	KV value water [m³/h]	for tube D	for tube LW	L	L1	D1	D2	Weight in [g]	Type	Order number	Price
2.5	0.12	4	3.5-4	37.8	30.7	13.9	5.1	9.1	VRN-954-P325-4FF-4	634933	o. r.
3	0.2	6	3.5-4	39	30.5	13.9	5.1	25	VRN-954-P330-6FF-4	634934	o. r.

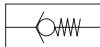
Illustration



Non-Return Valve with Push-in Connectors

Price group **23**

PN 16



Constr. design: spring-loaded cone non-return valve

Amb. temp. T_{min} 0 °C, T_{max} +60 °C
Med. temp. T_{min} 0 °C, T_{max} +140 °C

Plastic PPSU

Operating pressure 0.1 to max. 16 bar
Temperature-dependent

Material: Body: PPSU, cone PPSU, spring: Stainless steel 1.4310, seal: FKM (FDA-compliant)

DN	KV value water [m³/h]	for tube D	L	L1	D1	D2	Weight in [g]	Type	Order number	Price
2.5	0.12	4	37.8	29.4	13.9	13.9	11.3	VRN-954-P325-4FF	634937	o. r.
4	0.4	6	38.8	29.9	13.9	13.9	11.6	VRN-954-P340-6FF	634938	o. r.

Illustration

