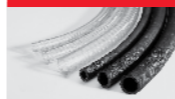























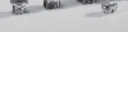
# Connection Elements





## Fastening Elements



### Overview

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Connections	Technical Data		Description	Page
	Plug-in connector in Y form SVB-Y	Hose-Ø 4 ... 16		8.26
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	Plug-in connector straight reducing SVB-GR	Hose-Ø 4 ... 16		8.28
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	Thread union straight, GVS-G	Thread connection G1/8 ... G1		8.31
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Distribution elements	Technical Data		Description	Page
	Quick-change coupling SWK-	Thread connection G1/8 ... G1	Self-closing, for vacuum connections, that are being used variably	8.41
	Distribution block VTB	Connections Number of exits 1/4 ... 1/2 4 ... 8	Distribution of hose lines	8.43
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## Vacuum Hose

VS for hose nipple

# FEZER

Simply move more.

### Description

Robust vacuum hose with wire insert which prevents a compression of the hose - even on high vacuum. The vacuum hoses are available in various materials and suitable for vacuum pumps.

### Application

- on vacuum systems
- for vacuum lifters
- for robust applications
- suitable for cable drag chains (PU)



VS-1/2-S ... VS-1-S

### Article number

Type	Material sold by metre	Coil	Length of Coil (m)	Suitable hose clamps	
VS-10-T-PVC	1.54.1.0025	1.54.1.0026	30	SK-10	6.21.1.0657
VS-1/2-T-PVC	1.54.1.0020	1.54.1.0021	30	SK-1/2	6.21.1.0656
VS-1/2-T-PU	1.54.1.0086	1.54.1.00127	30	SK-1/2	6.21.1.0656
VS-1/2-S	1.54.1.0018	1.54.1.0019	25	SK-1/2	6.21.1.0656
VS-3/4-T-PVC	1.54.1.0033	1.54.1.0034	30	SK-3/4	6.21.1.0658
VS-3/4-T-PU	1.54.1.0066	1.54.1.00128	30	SK-3/4	6.21.1.0658
VS-3/4-S	1.54.1.0031	1.54.1.0032	25	SK-3/4	6.21.1.0658
VS-1-T-PVC	1.54.1.0029	1.54.1.0030	30	SK-1	6.21.1.0655
VS-1-T-PU	1.54.1.0126	1.54.1.00129	30	SK-1	6.21.1.0655
VS-1-S	1.54.1.0027	1.54.1.0028	25	SK-1	6.21.1.0655
VS-38-T-PVC	1.54.1.0035	1.54.1.0036	30	SK-38	6.21.1.0659

### Technical data

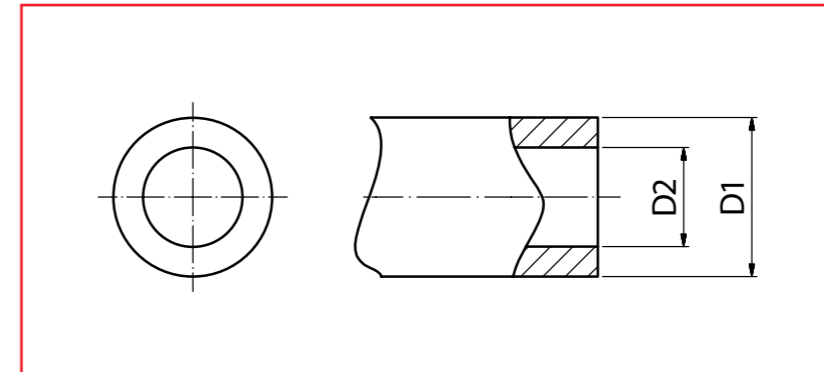
Type	Pressure range (bar)	Material	Bend radius (mm)	Volume (l/m)	Temperature (°C)	Weight (kg/m)
VS-10-T-PVC	-1 ... 0	PVC	22	0,080	- 10 ... + 70 °C	0,16
VS-1/2-T-PVC	-1 ... 0	PVC	32	0,015	- 10 ... + 70 °C	0,34
VS-1/2-T-PU	-1 ... 0	PU	25	0,015	- 20 ... + 90 °C	0,34
VS-1/2-S	-1 ... 0	SBR+CR	70	0,015	- 10 ... + 70 °C	0,35
VS-3/4-T-PVC	-1 ... 0	PVC	52	0,031	- 10 ... + 70 °C	0,38
VS-3/4-T-PU	-1 ... 0	PU	35	0,031	- 20 ... + 90 °C	0,38
VS-3/4-S	-1 ... 0	SBR+CR	100	0,031	- 10 ... + 70 °C	0,43
VS-1-T-PVC	-1 ... 0	PVC	62	0,050	- 10 ... + 70 °C	0,51
VS-1-T-PU	-1 ... 0	PU	40	0,050	- 20 ... + 90 °C	0,51
VS-1-S	-1 ... 0	SBR+CR	180	0,050	- 10 ... + 70 °C	0,74
VS-38-T-PVC	-1 ... 0	PVC	92	0,113	- 10 ... + 70 °C	0,95

## Vacuum Hose

VS for hose nipple

# FEZER

Simply move more.



VS-10 ... VS-38, VS-1/2-S ... VS-1-S

### Dimensions

Type	D1	D2
VS-10-T-PVC	16	10
VS-1/2-T-PVC	20	14
VS-1/2-T-PU	21,5	14
VS-1/2-S	21,5	14
VS-3/4-T-PVC	26,5	20
VS-3/4-T-PU	26,5	20
VS-3/4-S	28	20
VS-1-T-PVC	34	25
VS-1-T-PU	34	25
VS-1-S	33	25
VS-38-T-PVC	50	38

### Material characteristics

Criteria	PVC	PU	S
Material	Polyvinylchloride	Polyurethane	SBR+CR
Oil resistance	+	+++	+++
Weather resistance	+	+++	+++
Wear resistance	++	+++	+++
Cable drag suitability	+	+++	+
Tensile strength	20 N/mm <sup>2</sup>	50 N/mm <sup>2</sup>	30 N/mm <sup>2</sup>

not suitable -  
 limited suitability +  
 well suitable ++  
 very well suitable +++

## Vacuum hose

VS for tube socket

# FEZER

Simply move more.

### Description

Robust vacuum hoses in spiral design with large flow cross sections and wire insert. The vacuum hoses are available in various materials and designed for vacuum blowers.

### Application

- on vacuum systems with blowers
- for robust applications
- suitable for cable drag chains (PU)



VS-22 ... VS-60

### Article number

Type	Material sold by the metre	Coil 20m	Suitable hose clamp	
VS-22-PVC	5.26.4.0400	5.26.4.0402	SK-22	5.26.4.0004
VS-22-PU	5.26.4.0012	5.26.4.0401	SK-22	5.26.4.0004
VS-32-PVC	5.26.4.0013	5.26.4.0403	SK-32	5.26.4.0003
VS-32-PU	5.26.4.0014	5.26.4.0404	SK-32	5.26.4.0003
VS-40-PVC	5.26.4.0399	5.26.4.0405	SK-40	5.26.4.0268
VS-40-PU	5.26.4.0073	5.26.4.0406	SK-40	5.26.4.0268
VS-45-PVC	5.26.4.0386	5.26.4.0407	SK-46	5.26.4.0020
VS-45-PU	5.26.4.0019	5.26.4.0408	SK-46	5.26.4.0020
VS-50-PVC	5.26.4.0015	5.26.4.0409	SK-50	5.26.4.0005
VS-50-PU	5.26.4.0016	5.26.4.0410	SK-50	5.26.4.0005
VS-60-PVC	5.26.4.0072	5.26.4.0411	SK-60	5.26.4.0276
VS-60-PU	5.26.4.0071	5.26.4.0412	SK-60	5.26.4.0276

### Technical data

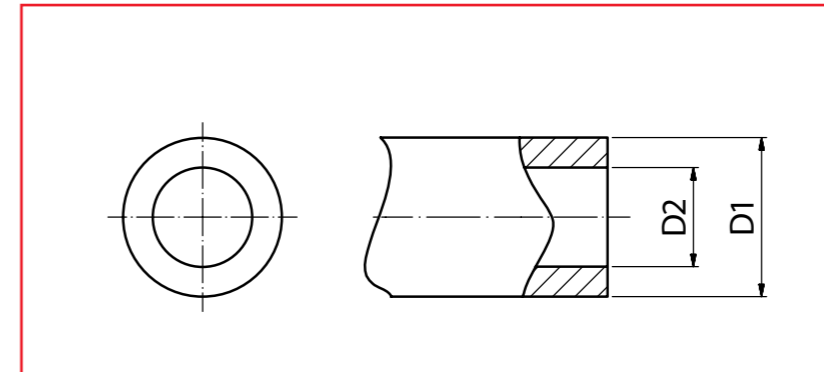
Type	Pressure range (bar)	Material	Bend radius (mm)	Volume (l/m)	Temperature (°C)	Weight (kg/m)
VS-22-PVC	-1 ... 0	PVC	30	0,038	-10 ... +60	0,12
VS-22-PU	-1 ... 0	PU	25	0,038	-20 ... +80	0,12
VS-32-PVC	-1 ... 0	PVC	40	0,080	-10 ... +60	0,18
VS-32-PU	-1 ... 0	PU	35	0,080	-20 ... +80	0,18
VS-40-PVC	-1 ... 0	PVC	50	0,126	-10 ... +60	0,22
VS-40-PU	-1 ... 0	PU	45	0,126	-20 ... +80	0,22
VS-45-PVC	-1 ... 0	PVC	60	0,159	-10 ... +60	0,27
VS-45-PU	-1 ... 0	PU	55	0,159	-20 ... +80	0,27
VS-50-PVC	-1 ... 0	PVC	90	0,196	-10 ... +60	0,76
VS-50-PU	-1 ... 0	PU	85	0,196	-20 ... +80	0,76
VS-60-PVC	-1 ... 0	PVC	120	0,283	-10 ... +60	0,88
VS-60-PU	-1 ... 0	PU	110	0,283	-20 ... +80	0,88

## Vacuum Hose

VS for tube socket

# FEZER

Simply move more.



VS-22 ... VS-60

### Dimensions

Type	D1	D2
VS-22-PVC	25	22
VS-22-PU	25	22
VS-32-PVC	36	32
VS-32-PU	36	32
VS-40-PVC	44	40
VS-40-PU	44	40
VS-45-PVC	49	45
VS-45-PU	49	45
VS-50-PVC	55	50
VS-50-PU	55	50
VS-60-PVC	66	60
VS-60-PU	66	60

### Material characteristics

Criteria	PVC	PU
Material	Polyvinylchloride	Polyurethane
Oil resistance	+	+++
Weather resistance	+	+++
Wear resistance	++	+++
Cable drag suitability	+	+++
Tensile strength	15 N/mm <sup>2</sup>	40 N/mm <sup>2</sup>
not suitable -		
limited suitability	+	
well suitable	++	
very well suitable	+++	

## Vacuum hose

VS for plug connections

# FEZER

Simply move more.

### Description

Robust hose connections suitable both for vacuum and compressed air. Large range of diameters and materials. All hoses are calibrated on the outside and available in colours nature (vacuum supply) and blue (compressed air).

### Application

- vacuum systems
- vacuum suction spiders
- robots and automation



VS-4 ... VS-16

### Article number

Type	Material sold by the metre colour nature	Coil 50m colour nature	Material sold by the metre colour blue	Coil 50m colour blue
VS-4-PE	1.54.1.0096	1.54.1.0120	1.54.1.0145	1.54.1.0146
VS-4-PU	1.54.1.0112	1.54.1.0121	1.54.1.0037	1.54.1.0136
VS-6-PE	1.54.1.0097	1.54.1.0039	1.54.1.0147	1.54.1.0148
VS-6-PU	1.54.1.0113	1.54.1.0122	1.54.1.0039	1.54.1.0135
VS-8-PE	1.54.1.0059	1.54.1.0123	1.54.1.0149	1.54.1.0150
VS-8-PU	1.54.1.0114	1.54.1.0124	1.54.1.0057	1.54.1.0134
VS-10-PE	1.54.1.0067	1.54.1.0115	1.54.1.0080	1.54.1.0140
VS-10-PU	1.54.1.0109	1.54.1.0116	1.54.1.0131	1.54.1.0139
VS-12-PE	1.54.1.0060	1.54.1.0125	1.54.1.0141	1.54.1.0142
VS-12-PU	1.54.1.0110	1.54.1.0117	1.54.1.0132	1.54.1.0138
VS-16-PE	1.54.1.0061	1.54.1.0118	1.54.1.0143	1.54.1.0144
VS-16-PU	1.54.1.0111	1.54.1.0119	1.54.1.0133	1.54.1.0137

### Technical data

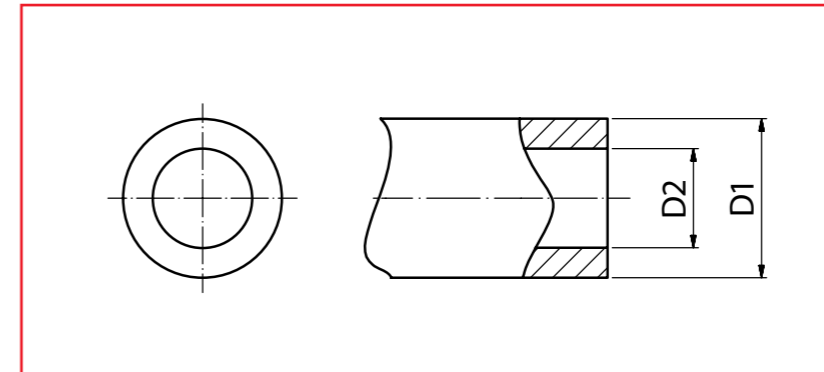
Type	Pressure range (bar)	Bend radius (mm)	Volume (l/m)	Temperature (°C)	Weight (kg/m)
VS-4-PE	-1 ... 10	15	0,001	-20 ... +60	0,006
VS-4-PU	-1 ... 10	12	0,001	-30 ... +80	0,008
VS-6-PE	-1 ... 10	20	0,001	-20 ... +60	0,015
VS-6-PU	-1 ... 10	15	0,001	-30 ... +80	0,018
VS-8-PE	-1 ... 10	30	0,003	-20 ... +60	0,025
VS-8-PU	-1 ... 10	25	0,003	-30 ... +80	0,029
VS-10-PE	-1 ... 10	40	0,004	-20 ... +60	0,038
VS-10-PU	-1 ... 10	30	0,004	-30 ... +80	0,047
VS-12-PE	-1 ... 10	50	0,006	-20 ... +60	0,054
VS-12-PU	-1 ... 10	40	0,006	-30 ... +80	0,073
VS-16-PE	-1 ... 10	80	0,011	-20 ... +60	0,103
VS-16-PU	-1 ... 10	60	0,011	-30 ... +80	0,123

## Vacuum hose

VS for plug connections

# FEZER

Simply move more.



VS-4 ... VS-16

### Dimensions

Type	D1	D2
VS-4-PE	4	2,7
VS-4-PU	4	2,6
VS-6-PE	6	4,0
VS-6-PU	6	4,0
VS-8-PE	8	5,7
VS-8-PU	8	5,7
VS-10-PE	10	7,0
VS-10-PU	10	7,0
VS-12-PE	12	8,4
VS-12-PU	12	8,0
VS-16-PE	16	10,8
VS-16-PU	16	11,0

### Material characteristics

Criteria	PE	PU
Material	Polyethylene	Polyurethane
Oil resistance	++	+++
Lebensmittelzulassung	-	+++
Weather resistance	+	+++
Wear resistance	++	+++
Cable drag suitability	+	+++
Tensile strength	20 N/mm <sup>2</sup>	50 N/mm <sup>2</sup>
not suitable		
limited suitability	+	
well suitable	++	
very well suitable	+++	

## Vacuum Hose

### Hose clamps SK

#### Description

Hose clamps made of galvanized steel to fasten vacuum hoses to hose nipples or tube ends. The hose clamps can be used a number of times.

#### Application

- to secure vacuum hoses against accidental pull-off
- on vacuum lifters
- for automation and robotics



SK-6 ... SK-60

#### Article number

Type	
SK-6	6.21.1.0660
SK-10	6.21.1.0657
SK-1/2	6.21.1.0656
SK-3/4	6.21.1.0658
SK-1	6.21.1.0655
SK-38	6.21.1.0659
SK-22	5.26.4.0004
SK-32	5.26.4.0003
SK-40	5.26.4.0268
SK-46	5.26.4.0020
SK-50	5.26.4.0005
SK-60	5.26.4.0276

#### Technical data

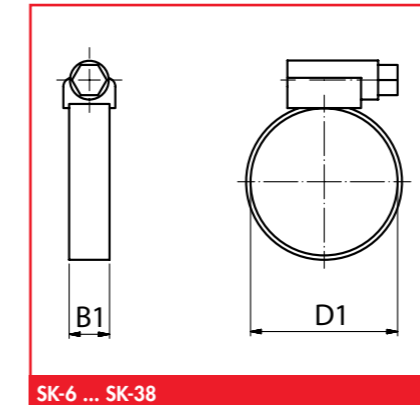
Type	Clamping range (mm)	Weight (kg)
SK-6	8 ... 16	0,011
SK-10	12 ... 22	0,013
SK-1/2	14 ... 30	0,014
SK-3/4	20 ... 35	0,015
SK-1	26 ... 40	0,017
SK-38	38 ... 53	0,018
SK-22	21 ... 23	0,015
SK-32	32 ... 35	0,021
SK-40	38 ... 43	0,024
SK-46	43 ... 48	0,025
SK-50	48 ... 53	0,025
SK-60	58 ... 65	0,026

# FEZER

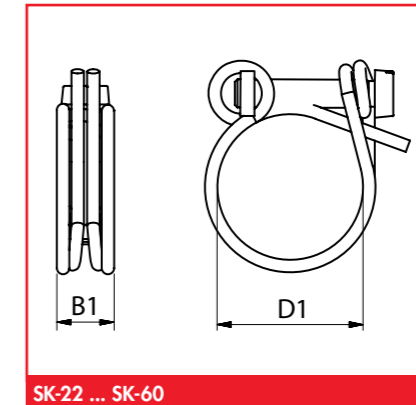
Simply move more.

## Vacuum Hose

### Hose clamps SK



SK-6 ... SK-38



SK-22 ... SK-60

#### Dimensions

Type	B1	D1
SK-6	9	8 ... 16
SK-10	9	12 ... 22
SK-1/2	9	14 ... 30
SK-3/4	9	20 ... 35
SK-1	9	26 ... 40
SK-38	13	38 ... 53
SK-22	11	21 ... 23
SK-32	11	32 ... 35
SK-40	13	38 ... 43
SK-46	13	43 ... 48
SK-50	15	48 ... 53
SK-60	15	58 ... 65

# FEZER

Simply move more.

## Connections

### Hose nipple SN

#### Description

Robust hose nipples made of galvanized steel. Available for the hose nipples are both suitable sealing rings made of vulcanite fibre and a sealing band.

#### Application

- connection of vacuum hoses
- sealing rings and sealing band to seal the hose nipples



SN-1/8-6 ... SN-11/2-38

#### Article number

Type	
SN-1/8-6	1.54.1.0011
SN-1/4-6	1.54.1.0008
SN-1/4-10	1.54.1.0007
SN-1/4-1/2	1.54.1.0006
SN-3/8-10	1.54.1.0017
SN-3/8-1/2	1.54.1.0016
SN-1/2-1/2	1.54.1.0005
SN-3/4-1/2	1.54.1.0003
SN-3/4-3/4	1.54.1.0015
SN-1-1	1.54.1.0012
SN-11/4-38	1.54.1.0014
SN-11/2-38	1.54.1.0013

#### Technical data

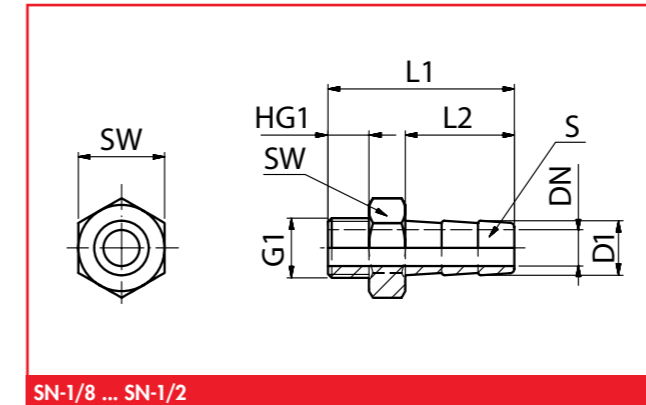
Type	Pressure range (bar)	Hose type	Temperature (°C)	Weight (kg)
SN-1/8-6	-1 ... +10	VS-6	-10 ... +80	0,012
SN-1/4-6	-1 ... +10	VS-6	-10 ... +80	0,018
SN-1/4-10	-1 ... +10	VS-10	-10 ... +80	0,030
SN-1/4-1/2	-1 ... +10	VS-1/2	-10 ... +80	0,038
SN-3/8-10	-1 ... +10	VS-10	-10 ... +80	0,042
SN-3/8-1/2	-1 ... +10	VS-1/2	-10 ... +80	0,048
SN-1/2-1/2	-1 ... +10	VS-1/2	-10 ... +80	0,070
SN-3/4-1/2	-1 ... +10	VS-1/2	-10 ... +80	0,123
SN-3/4-3/4	-1 ... +10	VS-3/4	-10 ... +80	0,107
SN-1-1	-1 ... +10	VS-1	-10 ... +80	0,212
SN-11/4-38	-1 ... +10	VS-38	-10 ... +80	0,385
SN-11/2-38	-1 ... +10	VS-38	-10 ... +80	0,452

# FEZER

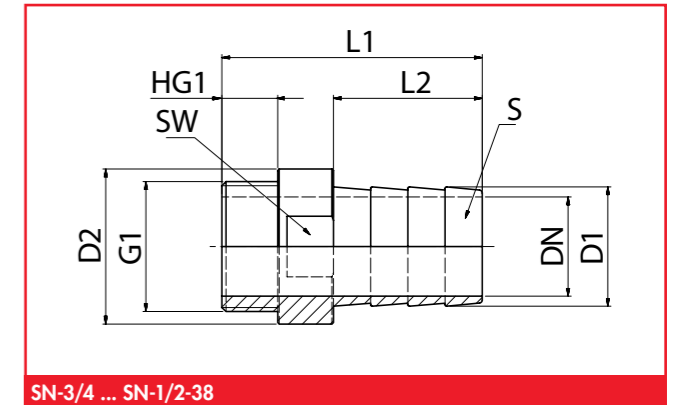
Simply move more.

## Connections

### Hose nipple SN



SN-1/8 ... SN-1/2



SN-3/4 ... SN-1/2-38

#### Dimensions

Type	D1	D2	S	DN	L1	L2	G1	HG1	SW
SN-1/8-6	9	---	6	6	25	20	G1/8	9	14
SN-1/4-6	9	---	6	6	25	20	G1/4	9	17
SN-1/4-10	12	---	10	8	32	24	G1/4	9	19
SN-1/4-1/2	15	---	1/2"	8	32	24	G1/4	9	19
SN-3/8-10	12	---	10	8	32	24	G3/8	9	22
SN-3/8-1/2	15	---	1/2"	11	32	24	G3/8	9	22
SN-1/2-1/2	15	---	1/2"	11	40	30	G1/2	10	27
SN-3/4-1/2	15	---	1/2"	11	42	30	G3/4	12	32
SN-3/4-3/4	21	---	3/4"	17	52	40	G3/4	12	32
SN-1-1	26,5	42	1"	22	63	48	G1	16	36
SN-11/4-38	38,5	50	38	32	66	48	G11/4	18	46
SN-11/2-38	38,5	55	38	32	66	48	G11/2	18	50

## Connections

### Sealing rings DR

#### Description

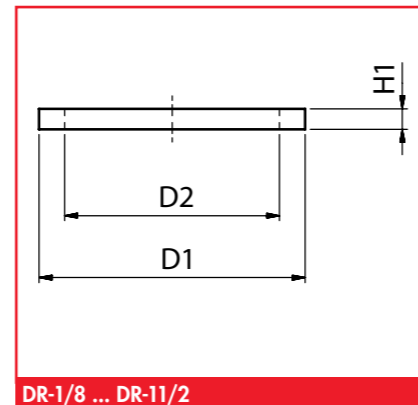
Sealing rings made of high-quality polyamide with a large range of diametres.

#### Application

- sealing of hose nipples and connection elements



DR-1/8 ... DR-11/2



DR-1/8 ... DR-11/2

#### Article number

Type	
DR-1/8	6.21.5.0029
DR-1/4	6.21.5.0472
DR-3/8	6.21.5.0033
DR-1/2	6.21.5.0027
DR-3/4	6.21.5.0032
DR-1	6.21.5.0026
DR-11/4	6.21.5.0031
DR-11/2	6.21.5.0030

#### Dimensions

Type	D1	D2	H1
DR-1/8	16	10	1,5
DR-1/4	18	13	2
DR-3/8	23	17	2
DR-1/2	26	21	2
DR-3/4	32	26,5	2,5
DR-1	39	33	2,5
DR-11/4	49	42	2,5
DR-11/2	55	48	2,5

# FEZER

Simply move more.

## Connections

### Flat sealing band FDB

#### Description

flexible sealing band made of white teflon.

#### Application

- sealing of thread connections (winding contrary to thread direction)



Flat sealing band FDB

#### Article number

Type	Roll ca. 12 m
Flat sealing band FDB	2.54.1.0001

# FEZER

Simply move more.



## Connections

### Plug and thread connections

#### Plug-in connections

Absolutely vacuum-dense plug-in connections made of plastic with outer thread and plug connection to connect tubes. The plug-in connections and connectors have an inner locking ring and can be used without additional hose clamps.

#### Application

- to screw in and connect vacuum and compressed air lines.



Plug-in connections and -Verbindungen SVS- ... SVB-

#### Thread connections

Robust connections with conical inch-thread made of die-cast. The connections can be wrapped with silicone band for an absolutely vacuum-dense connection. The thread connections serve mainly to reduce, connect or extend thread drillings on connection drillings.

#### Application:

- connecting and distributing vacuum lines of all kinds



Thread connections GVS

#### Technical data

Type	Pressure range (bar)	Hose type	Temperature (°C)
SVS- ...	-1 ... +10	VS-4 ... 16	-10 ... +60
SVB- ...	-1 ... +10	VS-4 ... 16	-10 ... +60
GVS- ...	-1 ... +6	G1/8 ... G3/4	-10 ... +80

# FEZER

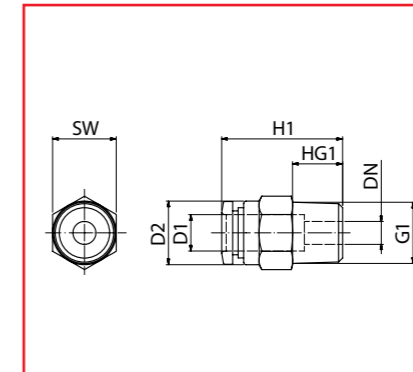
Simply move more.

## Connections

### Plug-in connections straight SVS-G



SVS-G



SVS-G

#### Article number

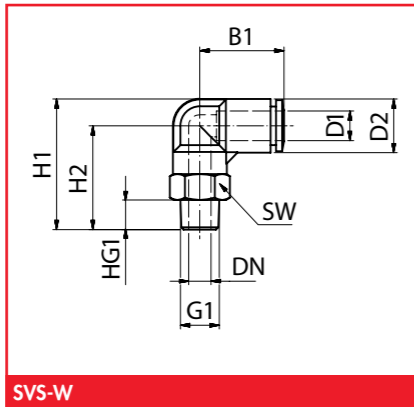
Type		Hose-Ø (mm)	Weight (kg)
SVS-G-M5-4	6.21.5.0801	4	0,003
SVS-G-M5-6	6.21.5.0802	6	0,004
SVS-G-1/8-4	6.21.5.0594	4	0,008
SVS-G-1/8-6	6.21.5.0493	6	0,009
SVS-G-1/8-8	6.21.5.0701	8	0,016
SVS-G-1/4-6	6.21.5.0494	6	0,018
SVS-G-1/4-8	6.21.5.0702	8	0,016
SVS-G-1/4-10	6.21.5.0703	10	0,020
SVS-G-1/4-12	6.21.5.0704	12	0,044
SVS-G-3/8-6	6.21.5.0705	6	0,028
SVS-G-3/8-8	6.21.5.0480	8	0,024
SVS-G-3/8-10	6.21.5.0590	10	0,027
SVS-G-3/8-12	6.21.5.0706	12	0,035
SVS-G-1/2-10	6.21.5.0707	10	0,050
SVS-G-1/2-12	6.21.5.0481	12	0,050
SVS-G-1/2-16	6.21.5.0708	16	0,067

#### Dimensions

Type	D1	D2	DN	H1	HG1	G1	SW
SVS-G-M5-4	4	8	1,8	16,2	3	M5	8
SVS-G-M5-6	6	10	1,7	17,3	3	M5	10
SVS-G-1/8-4	4	10	2,6	21	8	G1/8	10
SVS-G-1/8-6	6	12	5,6	22,6	8	G1/8	12
SVS-G-1/8-8	8	14	5	27,9	8	G1/8	14
SVS-G-1/4-6	6	12	6	24,6	11	G1/4	14
SVS-G-1/4-8	8	14	5	26,6	11	G1/4	14
SVS-G-1/4-10	10	17	6,7	30	11	G1/4	17
SVS-G-1/4-12	12	21	8,7	36	11	G1/4	21
SVS-G-3/8-6	6	71	4	23,6	12	G3/8	17
SVS-G-3/8-8	8	14	8	23,9	12	G3/8	17
SVS-G-3/8-10	10	17	6,7	29,3	12	G3/8	17
SVS-G-3/8-12	12	21	8,7	32	12	G3/8	21
SVS-G1/2-10	10	21	6,7	30,3	15	G1/2	21
SVS-G-1/2-12	12	20	12	33,9	15	G1/2	21
SVS-G-1/2-16	16	24	12	41,5	15	G1/2	24

## Connections

Plug-in connections angular, endlessly turnable SVS-W



SVS-W

SVS-W

### Article number

Type		Hose-Ø (mm)	Weight (kg)
SVS-W-M5-4	6.21.5.0803	4	0,003
SVS-W-M5-6	6.21.5.0804	6	0,004
SVS-W-1/8-4	6.21.5.0710	4	0,007
SVS-W-1/8-6	6.21.5.0487	6	0,008
SVS-W-1/8-8	6.21.5.0406	8	0,010
SVS-W-1/4-6	6.21.5.0495	6	0,020
SVS-W-1/4-8	6.21.5.0444	8	0,020
SVS-W-1/4-10	6.21.5.0711	10	0,020
SVS-W-1/4-12	6.21.5.0675	12	0,020
SVS-W-3/8-6	6.21.5.0709	6	0,020
SVS-W-3/8-8	6.21.5.0511	8	0,020
SVS-W-3/8-10	6.21.5.0712	10	0,030
SVS-W-3/8-12	6.21.5.0713	12	0,030
SVS-W-1/2-10	6.21.5.0526	10	0,040
SVS-W-1/2-12	6.21.5.0479	12	0,050
SVS-W-1/2-16	6.21.5.0483	16	0,080

### Dimensions

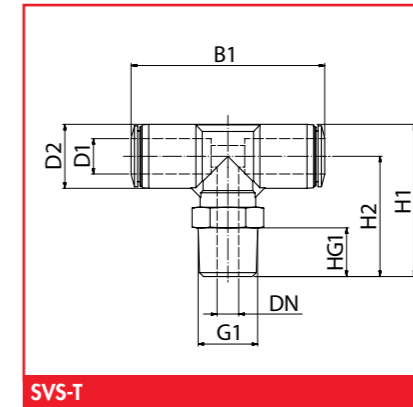
Type	D1	D2	DN	B1	H1	H2	HG1	G1	SW
SVS-W-M5-4	4	8	1,7	15,7	17,5	13,5	3	M5	8
SVS-W-M5-6	6	10,5	2,1	16,3	19,75	14,5	3	M5	8
SVS-W-1/8-4	4	10	2,2	16,8	23,9	18,9	8	G1/8	10
SVS-W-1/8-6	6	12,5	3,2	19,8	31,25	25	8	G1/8	12
SVS-W-1/8-8	8	14,5	4,6	22,7	35,3	28	8	G1/8	14
SVS-W-1/4-6	6	12,5	3,4	19,8	34,25	28	11	G1/4	14
SVS-W-1/4-8	8	14,5	4,8	22,7	38,25	31	11	G1/4	14
SVS-W-1/4-10	10	17,5	6	25	36,85	28,1	11	G1/4	14
SVS-W-1/4-12	12	21	5,8	29,2	40,3	29,8	11	G1/4	14
SVS-W-3/8-6	6	12,5	3,3	20,12	32,75	26,5	12	G3/8	17
SVS-W-3/8-8	8	14,5	4,8	23	40,25	33	12	G3/8	17
SVS-W-3/8-10	10	17,5	6,4	25	38,35	29,6	12	G3/8	17
SVS-W-3/8-12	12	21	6,6	29,5	41,8	31,3	12	G3/8	17
SVS-W-3/8-10	10	17,5	6,2	26,2	48,75	40	15	G1/2	21
SVS-W-1/2-12	12	21	7,1	29,5	43,5	33	15	G1/2	21
SVS-W-1/2-16	16	25	10,9	33,1	63,44	51	15	G1/2	22

**FEZER**

Simply move more.

## Connections

Plug-in connections in T form SVS-T



SVS-T

SVS-T

### Article numbers

Type		Hose-Ø (mm)	Weight (kg)
SVS-T-M5-4	6.21.5.0805	4	0,0040
SVS-T-M5-6	6.21.5.0806	6	0,0060
SVS-T-1/8-4	6.21.5.0714	4	0,0100
SVS-T-1/8-6	6.21.5.0715	6	0,0100
SVS-T-1/8-8	6.21.5.0578	8	0,0200
SVS-T-1/4-6	6.21.5.0716	6	0,0200
SVS-T-1/4-8	6.21.5.0482	8	0,0200
SVS-T-1/4-10	6.21.5.0717	10	0,0300
SVS-T-1/4-12	6.21.5.0718	12	0,0300
SVS-T-3/8-6	6.21.5.0719	6	0,0300
SVS-T-3/8-8	6.21.5.0720	8	0,0300
SVS-T-3/8-10	6.21.5.0721	10	0,0300
SVS-T-3/8-12	6.21.5.0697	12	0,0400
SVS-T-1/2-10	6.21.5.0722	10	0,0500
SVS-T-1/2-12	6.21.5.0723	12	0,0600
SVS-T-1/2-16	6.21.5.0724	16	0,1000

### Dimensions

Type	D1	D2	DN	B1	H1	H2	HG1	G1	SW
SVS-T-M5-4	4	8	2,2	26	19	15	8	M5	8
SVS-T-M5-6	6	10,5	2,1	28,5	21,5	16	8	M5	8
SVS-T-1/8-4	4	10	2,1	34	28,5	23,5	8	G1/8	12
SVS-T-1/8-6	6	12,5	3,2	41	32,5	26	8	G1/8	12
SVS-T-1/8-8	8	15	4,6	45	34	33	8	G1/8	14
SVS-T-1/4-6	6	13	3,3	41	29	35,5	11	G1/4	14
SVS-T-1/4-8	8	15	4,9	45	30	37,5	11	G1/4	14
SVS-T-1/4-10	10	17,5	5,9	51	36	44	11	G1/4	14
SVS-T-1/4-12	12	21	5,9	57	38	48,5	11	G1/4	14
SVS-T-3/8-6	6	13	3,3	40	37,5	31	12	G3/8	17
SVS-T-3/8-8	8	15	4,8	45	39	31,5	12	G3/8	17
SVS-T-3/8-10	10	17,5	6,2	51	46	37	12	G3/8	17
SVS-T-3/8-12	12	21	6,7	56	49,5	39	12	G3/8	21
SVS-T-1/2-10	10	17,5	6,3	50,5	49	40	15	G1/2	21
SVS-T-1/2-12	12	21	7,1	56	52,5	42	15	G1/2	21
SVS-T-1/2-16	16	25	10,8	67	63,5	51	15	G1/2	21

**FEZER**

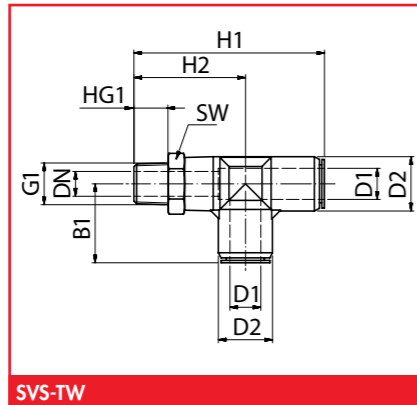
Simply move more.

## Connections

Plug-in connections in TW form SVS-TW



SVS-TW



SVS-TW

### Article number

Type		Hose-Ø (mm)	Weight (kg)
SVS-TW-1/8-4	6.21.5.0728	4	0,010
SVS-TW-1/8-6	6.21.5.0727	6	0,010
SVS-TW-1/8-8	6.21.5.0726	8	0,020
SVS-TW-1/4-6	6.21.5.0725	6	0,020
SVS-TW-1/4-8	6.21.5.0659	8	0,020
SVS-TW-1/4-10	6.21.5.0747	10	0,040
SVS-TW-3/8-6	6.21.5.0729	6	0,020
SVS-TW-3/8-8	6.21.5.0730	8	0,030
SVS-TW-3/8-10	6.21.5.0731	10	0,050
SVS-TW-3/8-12	6.21.5.0732	12	0,040
SVS-TW-1/2-10	6.21.5.0733	10	0,050
SVS-TW-1/2-12	6.21.5.0734	12	0,060
SVS-TW-1/2-16	6.21.5.0735	16	0,100

### Dimensions

Type	D1	D2	DN	B1	H1	H2	HG1	G1	SW
SVS-TW-1/8-4	4	10	2,2	16,9	40,2	23,3	8	G1/8	10
SVS-TW-1/8-6	6	13	3,4	20,1	46,2	26,1	8	G1/8	12
SVS-TW-1/8-8	8	15	4,7	22,1	50,4	28,2	8	G1/8	14
SVS-TW-1/4-6	6	13	3,4	20,1	49,2	29,1	11	G1/4	14
SVS-TW-1/4-8	8	15	4,7	22,2	53,4	31,2	11	G1/4	14
SVS-TW-1/4-10	10	17,5	6,7	25,5	61,5	36	11	G1/4	17
SVS-TW-3/8-6	6	13	3,4	20,1	51	30,9	12	G3/8	17
SVS-TW-3/8-8	8	15	4,7	22,2	55,2	33	12	G3/8	17
SVS-TW-3/8-10	10	17,5	6,7	25,2	62,3	37	12	G3/8	17
SVS-TW-3/8-12	12	21	6,5	28,2	67	38,8	12	G3/8	21
SVS-TW-1/2-10	10	17,5	5,9	25,2	65,2	40	15	G1/2	21
SVS-TW-1/2-12	12	21	6,8	28,2	70,6	42,4	15	G1/2	21
SVS-TW-1/2-16	16	25	10,9	33,5	84,5	51	15	G1/2	22

# FEZER

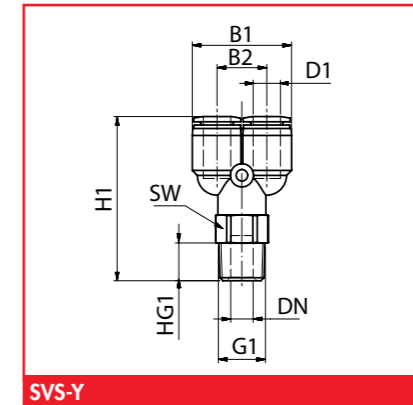
Simply move more.

## Connections

Plug-in connections in Y form SVS-Y



SVS-Y



SVS-Y

### Article numbers

Type		Hose-Ø (mm)	Weight (kg)
SVS-Y-1/8-4	6.21.5.0736	4	0,010
SVS-Y-1/8-6	6.21.5.0737	6	0,010
SVS-Y-1/8-8	6.21.5.0738	8	0,020
SVS-Y-1/4-6	6.21.5.0739	6	0,020
SVS-Y-1/4-8	6.21.5.0740	8	0,020
SVS-Y-1/4-10	6.21.5.0746	10	0,030
SVS-Y-3/8-6	6.21.5.0741	6	0,030
SVS-Y-3/8-8	6.21.5.0742	8	0,030
SVS-Y-3/8-10	6.21.5.0743	10	0,030
SVS-Y-3/8-12	6.21.5.0824	12	0,040
SVS-Y-1/2-10	6.21.5.0744	10	0,050
SVS-Y-1/2-12	6.21.5.0745	12	0,060

### Dimensions

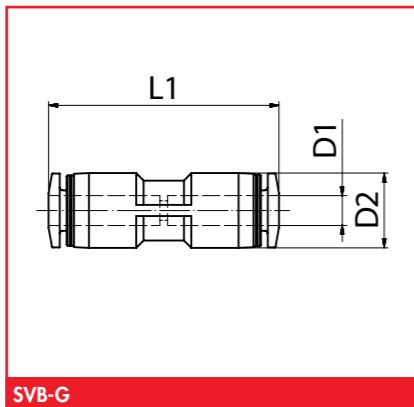
Type	D1	DN	B1	B2	H1	HG1	G1	SW
SVS-Y-1/8-4	4	2,1	20,3	10,3	36,1	8	G1/8	10
SVS-Y-1/8-6	6	3,5	25	12,5	42,1	8	G1/8	12
SVS-Y-1/8-8	8	4,4	29	14,5	46	8	G1/8	12
SVS-Y-1/4-6	6	3,6	25	12,5	44,1	11	G1/4	14
SVS-Y-1/4-8	8	4,9	29	14,5	48	11	G1/4	14
SVS-Y-1/4-10	10	5,7	36	18	58,5	11	G1/4	17
SVS-Y-3/8-6	6	3,6	25	12,5	44,6	11	G3/8	17
SVS-Y-3/8-8	8	4,9	29	14,5	48,5	12	G3/8	17
SVS-Y-3/8-10	10	5,7	35	17,5	51,7	12	G3/8	17
SVS-Y-3/8-12	12	6,4	41	20	64,5	12	G3/8	21
SVS-Y-1/2-10	10	5,7	35	17,5	54,7	15	G1/2	21
SVS-Y-1/2-12	12	6,5	42	21	59,9	15	G1/2	21

# FEZER

Simply move more.

## Connections

### Plug-in connector straight SVB-G



SVB-G

SVB-G

#### Article number

Type		Hose-Ø (mm)	Weight (kg)
SVB-G-4	6.21.5.0748	4	0,0050
SVB-G-6	6.21.5.0749	6	0,0060
SVB-G-8	6.21.5.0750	8	0,0090
SVB-G-10	6.21.5.0510	10	0,0150
SVB-G-12	6.21.5.0751	12	0,0200
SVB-G-16	6.21.5.0752	16	0,0250

#### Dimensions

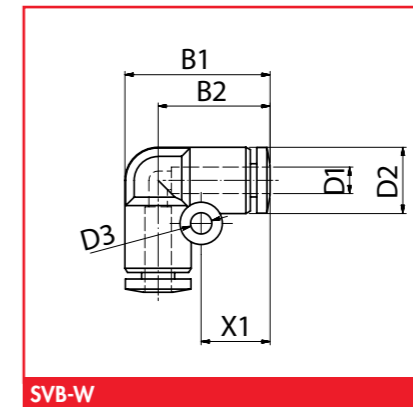
Type	D1	D2	L1
SVB-G-4	4	10	30,8
SVB-G-6	6	12,5	34,9
SVB-G-8	8	14,5	37,8
SVB-G-10	10	17,5	44
SVB-G-12	12	21	47,8
SVB-G-16	16	25	49,4

# FEZER

Simply move more.

## Connections

### Plug-in connector angular SVB-W



SVB-W

SVB-W

#### Article number

Type		Hose-Ø (mm)	Weight (kg)
SVB-W-4	6.21.5.0753	4	0,0050
SVB-W-6	6.21.5.0754	6	0,0070
SVB-W-8	6.21.5.0755	8	0,0100
SVB-W-10	6.21.5.0756	10	0,0200
SVB-W-12	6.21.5.0757	12	0,0250
SVB-W-16	6.21.5.0758	16	0,0300

#### Dimensions

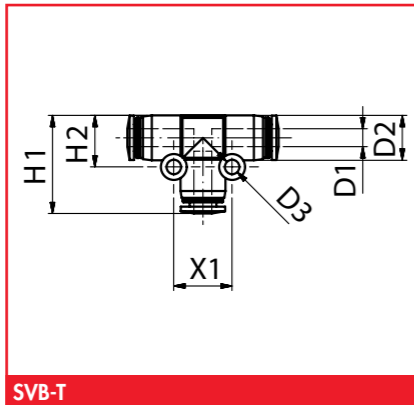
Type	D1	D2	D3	B1	B2	X1
SVB-W-4	4	10	3,2	21,9	16,9	10,4
SVB-W-6	6	12,5	3,2	26,4	20,1	12,1
SVB-W-8	8	15	4,2	29,9	22,4	12,4
SVB-W-10	10	17,5	4,2	34,95	26,2	14,2
SVB-W-12	12	21	4,2	39,5	29,4	15,4
SVB-W-16	16	25	4,2	45,5	33	21

# FEZER

Simply move more.

## Connections

Plug-in connector in T form SVB-T



SVB-T

SVB-T

### Article number

Type		Hose-Ø (mm)	Weight (kg)
SVB-T-4	6.21.5.0759	4	0,0070
SVB-T-6	6.21.5.0760	6	0,0100
SVB-T-8	6.21.5.0761	8	0,0150
SVB-T-10	6.21.5.0534	10	0,0250
SVB-T-12	6.21.5.0762	12	0,0350
SVB-T-16	6.21.5.0763	16	0,0400

### Dimensions

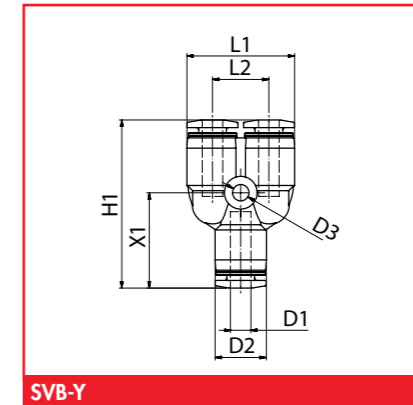
Type	D1	D2	D3	H1	H2	X1
SVB-T-4	4	10	3,2	21,9	16,9	13
SVB-T-6	6	13	3,5	26,6	20,1	16
SVB-T-8	8	15	3,5	29,7	22,2	18
SVB-T-10	10	17,5	4,2	33,95	25,2	24
SVB-T-12	12	21	4,2	38,7	28,2	28
SVB-T-16	16	25	4,2	45,6	33,1	24

# FEZER

Simply move more.

## Connections

Plug-in connector in Y form SVB-Y



SVB-Y

SVB-Y

### Article number

Type		Hose-Ø (mm)	Weight (kg)
SVB-Y-4	6.21.5.0764	4	0,0070
SVB-Y-6	6.21.5.0765	6	0,0098
SVB-Y-8	6.21.5.0683	8	0,0150
SVB-Y-10	6.21.5.0766	10	0,0250
SVB-Y-12	6.21.5.0767	12	0,0350
SVB-Y-16	6.21.5.0768	16	0,0450

### Dimensions

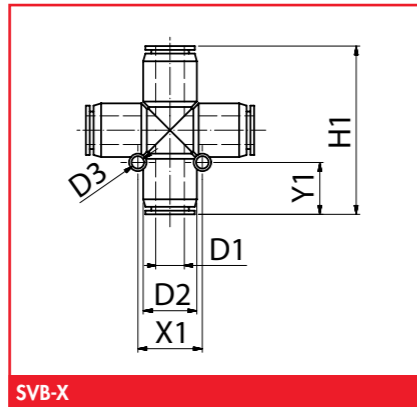
Type	D1	D2	D3	L1	L2	H1	X1
SVB-Y-4	4	10	3,2	21	11	32,8	18,6
SVB-Y-6	6	12,5	3,2	24,5	12	37,7	21,9
SVB-Y-8	8	14,5	3,2	28,5	14	42,4	25,2
SVB-Y-10	10	17,5	4,2	35,5	18	48,4	28,9
SVB-Y-12	12	21	4,2	41	20	54,8	32,6
SVB-Y-16	16	25	4,5	49	24	62,2	40,1

# FEZER

Simply move more.

## Connections

Plug-in connector in X form SVB-X



SVB-X

SVB-X

### Article number

Type		Hose-Ø (mm)	Weight (kg)
SVB-X-4	6.21.5.0792	4	0,0050
SVB-X-6	6.21.5.0793	6	0,0050
SVB-X-8	6.21.5.0794	8	0,0200
SVB-X-10	6.21.5.0795	10	0,0300
SVB-X-12	6.21.5.0796	12	0,0450

### Dimensions

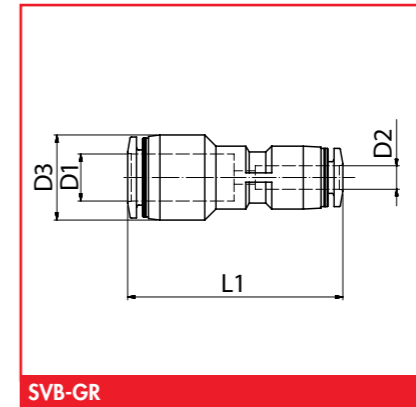
Type	D1	D2	D3	H1	X1
SVB-X-4	4	8	3,2	27	11
SVB-X-6	6	10,5	3,2	31	13
SVB-X-8	8	15	3,5	47	18
SVB-X-10	10	17,5	4,5	55	22
SVB-X-12	12	21	4,5	62	24

# FEZER

Simply move more.

## Connections

Plug-in connector straight, reducing SVB-GR



SVB-GR

SVB-GR

### Article number

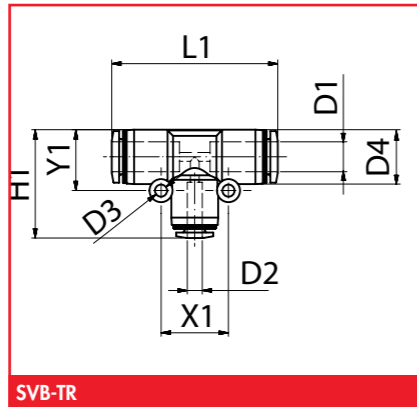
Type	1 piece	Hose-Ø (mm)	Weight (kg)
SVB-GR-6-4	6.21.5.0777	6 - 4	0,0060
SVB-GR-8-4	6.21.5.0778	8 - 4	0,0070
SVB-GR-8-6	6.21.5.0779	8 - 6	0,0080
SVB-GR-10-6	6.21.5.0780	10 - 6	0,0100
SVB-GR-10-8	6.21.5.0781	10 - 8	0,0150
SVB-GR-12-8	6.21.5.0782	12 - 8	0,0150
SVB-GR-12-10	6.21.5.0783	12 - 10	0,0200

### Dimensions

Type	D1	D2	D3	L1
SVB-GR-6-4	6	4	12,5	34,4
SVB-GR-8-4	8	4	14,5	36,6
SVB-GR-8-6	8	6	14,5	37,9
SVB-GR-10-6	10	6	17,5	39,8
SVB-GR-10-8	10	8	17,5	41,2
SVB-GR-12-8	12	8	21	44
SVB-GR-12-10	12	10	21	47,6

## Connections

Plug-in connector in T-Form, reducing SVB-TR



SVB-TR

SVB-TR

### Article number

Type		Hose-Ø (mm)	Weight (kg)
SVB-TR-6-4	6.21.5.0784	6 - 4	0,010
SVB-TR-8-4	6.21.5.0785	8 - 4	0,015
SVB-TR-8-6	6.21.5.0786	8 - 6	0,015
SVB-TR-10-6	6.21.5.0787	10 - 6	0,020
SVB-TR-10-8	6.21.5.0788	10 - 8	0,020
SVB-TR-12-8	6.21.5.0789	12 - 8	0,030
SVB-TR-12-10	6.21.5.0790	12 - 10	0,020
SVB-TR-16-12	6.21.5.0791	16 - 12	0,040

### Dimensions

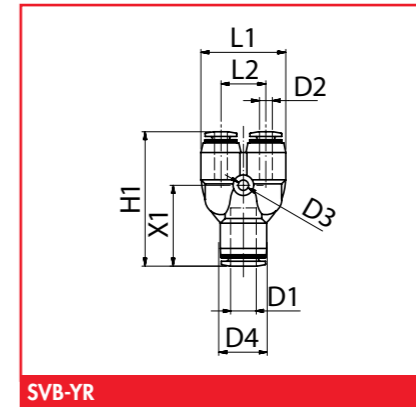
Type	D1	D2	D3	D4	L1	H1	H2	X1
SVB-TR-6-4	6	4	3,2	13	40,1	26	14,5	16
SVB-TR-8-4	8	4	3,2	15,1	44,4	29	16,25	18
SVB-TR-8-6	8	6	3,2	15,1	44,4	29,5	16,25	18
SVB-TR-10-6	10	6	4,2	18,2	50,4	33,74	20,75	24
SVB-TR-10-8	10	8	4,2	18,2	50,4	33,64	20,75	24
SVB-TR-12-8	12	8	4,2	21,7	56,8	38,19	20,75	28
SVB-TR-12-10	12	10	4,2	21,7	56,8	38,49	24,5	28
SVB-TR-16-12	16	12	4,2	25,6	66,2	45,69	24,5	24

# FEZER

Simply move more.

## Connections

Plug-in connector in Y form, reducing SVB-YR



SVB-YR

SVB-YR

### Article number

Type		Hose-Ø (mm)	Weight (kg)
SVB-YR-6-4	6.21.5.0769	6 - 4	0,010
SVB-YR-8-4	6.21.5.0770	8 - 4	0,010
SVB-YR-8-6	6.21.5.0771	8 - 6	0,010
SVB-YR-10-6	6.21.5.0772	10 - 6	0,020
SVB-YR-10-8	6.21.5.0773	10 - 8	0,020
SVB-YR-12-8	6.21.5.0774	12 - 8	0,030
SVB-YR-12-10	6.21.5.0775	12 - 10	0,030
SVB-YR-16-12	6.21.5.0776	16 - 12	0,050

### Dimensions

Type	D1	D2	D3	D4	L1	L2	H1	X1
SVB-YR-6-4	6	4	3,2	12,9	24,5	12	37,2	22
SVB-YR-8-4	8	4	3,2	15,1	26,5	14	41,9	25,2
SVB-YR-8-6	8	6	3,2	15,1	26,5	14	42,5	25,2
SVB-YR-10-6	10	6	4,2	18,2	32,5	18	48,2	30,9
SVB-YR-10-8	10	8	4,2	18,2	32,5	18	48,1	28,9
SVB-YR-12-8	12	8	4,2	21,7	37,5	20	54,3	32,6
SVB-YR-12-10	12	10	4,2	21,7	37,5	20	54,6	32,6
SVB-YR-16-12	16	12	4,2	25	49	24	62,3	40,1

# FEZER

Simply move more.

## Connections

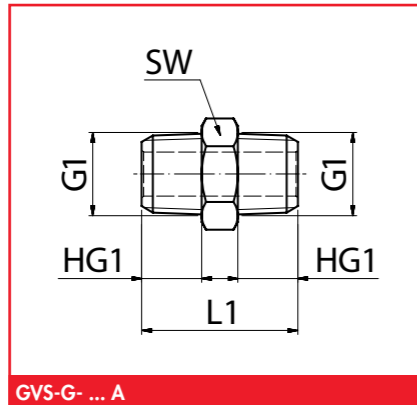
Thread union straight, GVS-G

# FEZER

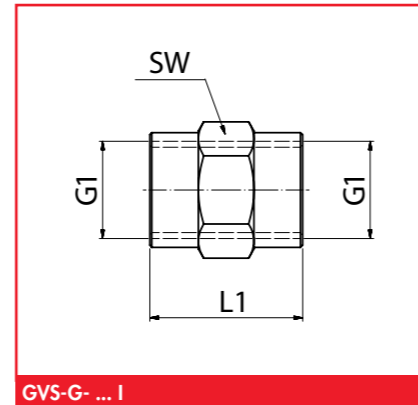
Simply move more.



GVS-G



GVS-G- ... A



GVS-G- ... I

### Article number

Type		Weight (kg)
GVS-G-1/8A	6.21.5.0833	0,010
GVS-G-1/8I	6.21.5.0835	0,010
GVS-G-1/4A	6.21.5.0641	0,015
GVS-G-1/4I	6.21.5.0426	0,020
GVS-G-3/8A	6.21.5.0834	0,020
GVS-G-3/8I	6.21.5.0836	0,020
GVS-G-1/2A	6.21.5.0661	0,040
GVS-G-1/2I	6.21.5.0640	0,030

### Dimensions

Type	L1	L2	G1	HG1	SW
GVS-G-1/8A	19,5	7,5	G1/8	7,5	12
GVS-G-1/8I	15	7,5	G1/8	7,5	13
GVS-G-1/4A	27	11	G1/4	11	14
GVS-G-1/4I	22	11	G1/4	11	17
GVS-G-3/8A	28	11,5	G3/8	11	17
GVS-G-3/8I	23	11,5	G3/8	11	20
GVS-G-1/2A	33,5	14	G1/2	11	22
GVS-G-1/2I	28	14	G1/2	11	24

## Connections

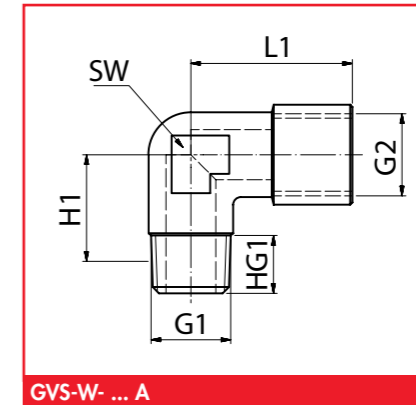
Thread union angular, GVS-W

# FEZER

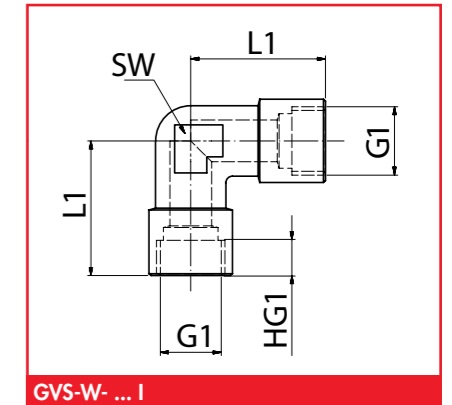
Simply move more.



GVS-W



GVS-W- ... A



GVS-W- ... I

### Article number

Type		Weight (kg)
GVS-W-1/8I	6.21.5.0825	0,015
GVS-W-1/8A-1/8I	6.21.5.0827	0,015
GVS-W-1/4I	6.21.5.0427	0,030
GVS-W-1/4A-1/4I	6.21.5.0584	0,030
GVS-W-3/8I	6.21.5.0826	0,040
GVS-W-3/8A-3/8I	6.21.5.0580	0,030
GVS-W-1/2I	6.21.5.0639	0,070
GVS-W-1/2A-1/2I	6.21.5.0525	0,060

### Dimensions

Type	L1	H1	G1	G2	HG1	SW
GVS-W-1/8I	19	11,5	G1/8	G1/8	8,5	11
GVS-W-1/8A-1/8I	19	11,5	G1/8	G1/8	8,5	11
GVS-W-1/4I	23	15	G1/4	G1/4	11	14
GVS-W-1/4A-1/4I	23	15	G1/4	G1/4	11	13
GVS-W-3/8I	25	15	G3/8	G3/8	11,5	16
GVS-W-3/8A-3/8I	25	15	G3/8	G3/8	11,5	15
GVS-W-1/2I	31,5	17,5	G1/2	G1/2	14	20
GVS-W-1/2A-1/2I	31,5	17,5	G1/2	G1/2	14	20



## Connections

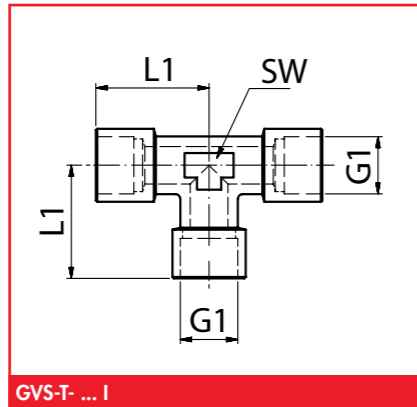
Thread union in T form, GVS-T

# FEZER

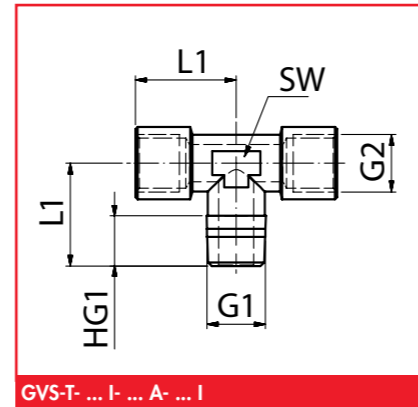
Simply move more.



GVS-T



GVS-T ... I



GVS-T ... I ... A- ... I

### Article number

Type		Weight (kg)
GVS-T-1/8I	6.21.5.0828	0,020
GVS-T-1/8I-1/8A-1/8I	6.21.5.0830	0,030
GVS-T-1/4I	6.21.5.0416	0,040
GVS-T-1/4I-1/4A-1/4I	6.21.5.0657	0,040
GVS-T-3/8I	6.21.5.0829	0,050
GVS-T-3/8A-3/8A-3/8I	6.21.5.0831	0,050
GVS-T-1/2I	6.21.5.0636	0,100
GVS-T-1/2A-1/2A-1/2I	6.21.5.0832	0,070

### Dimensions

Type	L1	G1	G2	HG1	SW
GVS-T-1/8I	19	G1/8	G1/8	8,5	12
GVS-T-1/8I-1/8A-1/8I	19	G1/8	G1/8	8,5	12
GVS-T-1/4I	23	G1/4	G1/4	11	13
GVS-T-1/4I-1/4A-1/4I	23	G1/4	G1/4	11	13
GVS-T-3/8I	25	G3/8	G3/8	11,5	16
GVS-T-3/8A-3/8A-3/8I	25	G3/8	G3/8	11,5	16
GVS-T-1/2I	31,5	G1/2	G1/2	14	20
GVS-T-1/2A-1/2A-1/2I	31,5	G1/2	G1/2	14	20

## Connections

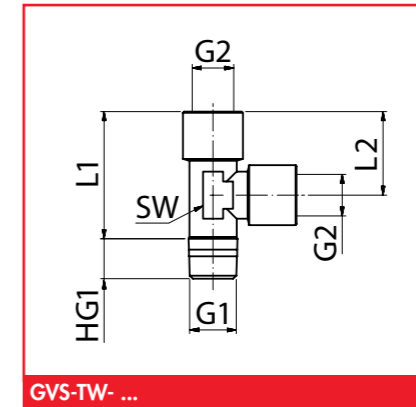
Thread union in TW form, GVS-TW

# FEZER

Simply move more.



GVS-TW



GVS-TW- ...

### Article number

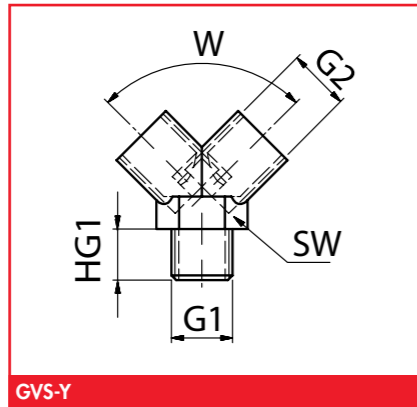
Type		Weight (kg)
GVS-TW-1/8I-1/8I-1/8A	6.21.5.0860	0,022
GVS-TW-1/4I-1/4I-1/4A	6.21.5.0861	0,037
GVS-TW-3/8I-3/8I-3/8A	6.21.5.0862	0,049
GVS-TW-1/2I-1/2I-1/2A	6.21.5.0863	0,089

### Dimensions

Type	L1	L2	G1	G2	HG1	SW
GVS-TW-1/8A-1/8I	28,5	19	G1/8	G1/8	8,5	12
GVS-TW-1/4A-1/4I	35	23	G1/4	G1/4	11	13
GVS-TW-3/8A-3/8I	37	25	G3/8	G3/8	11,5	16
GVS-TW-1/2A-1/2I	45,5	31,5	G1/2	G1/2	14	20

## Connections

Thread union in Y form, GVS-Y



GVS-Y

GVS-Y

### Article number

Type		Weight (kg)
GVS-Y-1/8I-1/8A-1/8I	6.21.5.0837	0,020
GVS-Y-1/4I-1/4A-1/4I	6.21.5.0434	0,040
GVS-Y-3/8I-3/8A-3/8I	6.21.5.0838	0,050
GVS-Y-1/2I-1/2A-1/2I	6.21.5.0617	0,100

### Dimensions

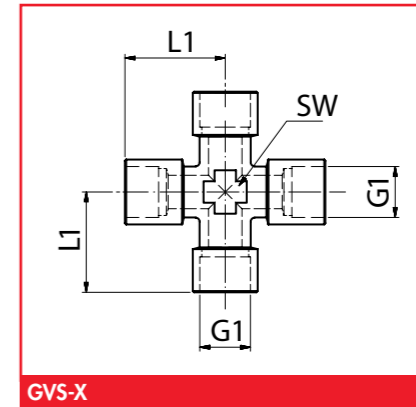
Type	G1	G2	HG1	W	SW
GVS-Y-1/8I	G1/8	G1/8	8	90°	13
GVS-Y-1/4I	G1/4	G1/4	11	90°	17
GVS-Y-3/8I	G3/8	G3/8	11,5	90°	20
GVS-Y-1/2I	G1/2	G1/2	14	90°	25

# FEZER

Simply move more.

## Connections

Thread union in X form, GVS-X



GVS-X

GVS-X

### Article number

Type		Weight (kg)
GVS-X-1/8I	6.21.5.0839	0,030
GVS-X-1/4I	6.21.5.0411	0,050
GVS-X-3/8I	6.21.5.0840	0,070

### Dimensions

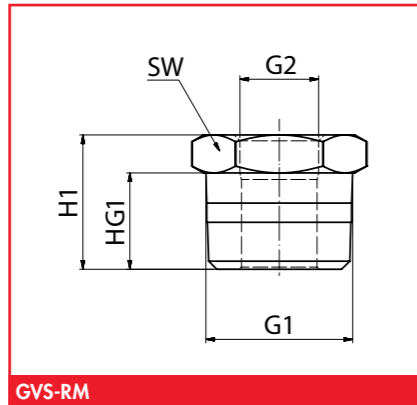
Type	L1	G1	SW
GVS-X-1/8I	19	G1/8	12
GVS-X-1/4I	23	G1/4	14
GVS-X-3/8I	25	G3/8	16

# FEZER

Simply move more.

## Connections

Thread union reduction bushing, GVS-RM



GVS-RM

GVS-RM

### Article number

Type		Weight (kg)
GVS-RM-1/4A-1/8I	6.21.5.0634	0,010
GVS-RM-3/8A-1/8I	6.21.5.0854	0,015
GVS-RM-3/8A-1/4I	6.21.5.0662	0,030
GVS-RM-1/2A-1/8I	6.21.5.0855	0,015
GVS-RM-1/2A-1/4I	6.21.5.0629	0,030
GVS-RM-1/2A-3/8I	6.21.5.0856	0,020

### Dimensions

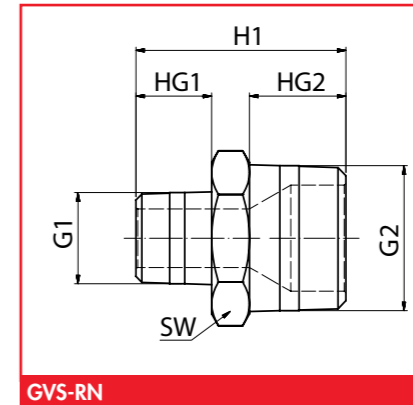
Type	H1	G1	G2	HG1	SW
GVS-RM-1/4A-1/8I	16	R1/4	R1/8	11	16
GVS-RM-3/8A-1/8I	16,5	R3/8	R1/8	11,5	17
GVS-RM-3/8A-1/4I	16,5	R3/8	R1/4	11,5	17
GVS-RM-1/2A-1/8I	19,5	R1/2	R1/8	14	22
GVS-RM-1/2A-1/4I	19,5	R1/2	R1/4	14	22
GVS-RM-1/2A-3/8I	19,5	R1/2	R3/8	14	22

# FEZER

Simply move more.

## Connections

Thread union reduction nipple, GVS-RN



GVS-RN

GVS-RN

### Article number

Type		Weight (kg)
GVS-RN-1/8-1/4	6.21.5.0841	0,015
GVS-RN-1/8-3/8	6.21.5.0686	0,019
GVS-RN-1/4-3/8	6.21.5.0842	0,020
GVS-RN-1/4-1/2	6.21.5.0682	0,032
GVS-RN-3/8-1/2	6.21.5.0843	0,034

### Dimensions

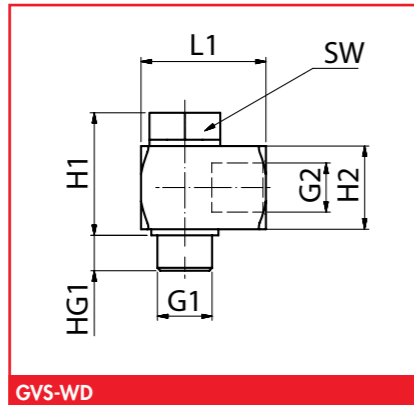
Type	H1	G1	G2	HG1	HG2	SW
GVS-RN-1/8-1/4	23,5	R1/8	R1/4	7,5	11	14
GVS-RN-1/8-3/8	24	R1/8	R3/8	7,5	11,5	17
GVS-RN-1/4-3/8	27,5	R1/4	R3/8	11	11,5	17
GVS-RN-1/4-1/2	30,5	R1/4	R1/2	11	14	22
GVS-RN-3/8-1/2	31	R3/8	R1/2	11,5	14	22

# FEZER

Simply move more.

## Connections

Thread union angular turnable, GVS-WD



GVS-WD

GVS-WD

### Article number

Type		Weight (kg)
GVS-WD-1/8A-1/8I	1.54.2.0055	0,010
GVS-WD-1/4A-1/4I	1.54.2.0084	0,025
GVS-WD-3/8A-3/8I	1.54.2.0085	0,040
GVS-WD-1/2A-1/2I	1.54.2.0086	0,055

### Dimensions

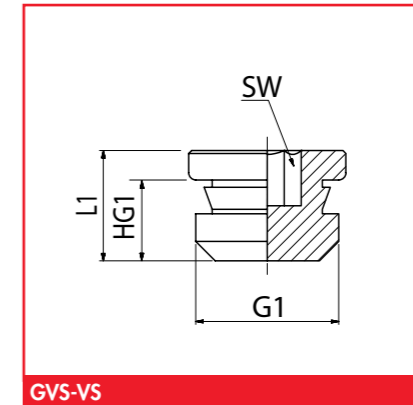
Type	L1	H1	H2	G1	G2	HG1	SW
GVS-WD-1/8A-1/8I	22	20,2	15	G1/8	G1/8	7,8	14
GVS-WD-1/4A-1/4I	29	26,8	20	G1/4	G1/4	10	17
GVS-WD-3/8A-3/8I	34	29,2	22	G3/8	G3/8	6,85	22
GVS-WD-1/2A-1/2I	42	35,7	28	G1/2	G1/2	8,85	27

# FEZER

Simply move more.

## Connections

Thread union sealing plug, GVS-VS



GVS-VS

GVS-VS

### Article number

Type		Weight (kg)
GVS-VS-1/8	6.21.5.0844	0,005
GVS-VS-1/4	6.21.5.0845	0,005
GVS-VS-3/8	6.21.5.0846	0,010
GVS-VS-1/2	6.21.5.0847	0,020

### Dimensions

Type	L1	G1	SW
GVS-VS-1/8	7,5	G1/8	4
GVS-VS-1/4	9	G1/4	6
GVS-VS-3/8	10	G3/8	8
GVS-VS-1/2	11	G1/2	10

# FEZER

Simply move more.

## Connections

### Quick-change coupling SWK

#### Description

Quick-change coupling with inside thread and one-sided shut-off. I.e. when loosening the plug the holder stays closed and the vacuum is conserved in the system.

#### Application:

- when using several suction pads
- on variable lifters (extensions, etc.)
- any mounting position



SWK-1/4 - SWK-1

#### Article number

Type	Complete set	Holder (F)	Plug (S)
SWK-1/4I	1.54.2.0080	6.21.5.0497	6.21.5.0496
SWK-3/8I	1.54.2.0081	6.21.5.0850	6.21.5.0848
SWK-1/2I	1.54.2.0082	6.21.5.0851	6.21.5.0849
SWK-3/4I	1.54.2.0052	1.54.2.0048	1.54.2.0044
SWK-1I	1.54.2.0053	1.54.2.0049	1.54.2.0045

#### Technical data

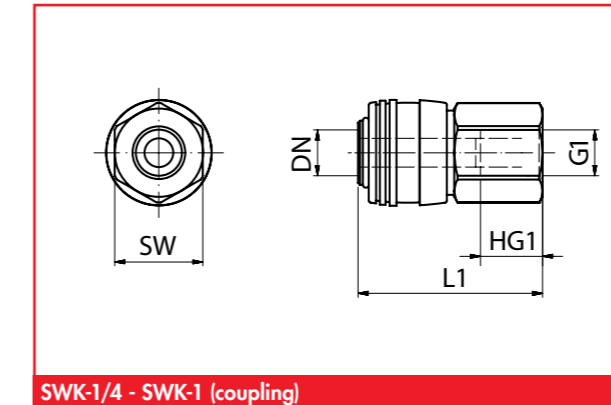
Type	Pressure range (bar)	Temperature (°C)	Weight (kg)
SWK-1/4	-1 ... +1	+5 ... +80	0,120
SWK-1/4-F	-1 ... +1	+5 ... +80	0,090
SWK-1/4-S	-1 ... +1	+5 ... +80	0,030
SWK-3/8	-1 ... +1	+5 ... +80	0,110
SWK-3/8-F	-1 ... +1	+5 ... +80	0,080
SWK-3/8-S	-1 ... +1	+5 ... +80	0,030
SWK-1/2	-1 ... +1	+5 ... +80	0,150
SWK-1/2-F	-1 ... +1	+5 ... +80	0,090
SWK-1/2-S	-1 ... +1	+5 ... +80	0,060
SWK-3/4	-1 ... +1	+5 ... +80	0,20
SWK-3/4-F	-1 ... +1	+5 ... +80	0,12
SWK-3/4-S	-1 ... +1	+5 ... +80	0,08
SWK-1	-1 ... +1	+5 ... +80	0,30
SWK-1-F	-1 ... +1	+5 ... +80	0,20
SWK-1-S	-1 ... +1	+5 ... +80	0,10

# FEZER

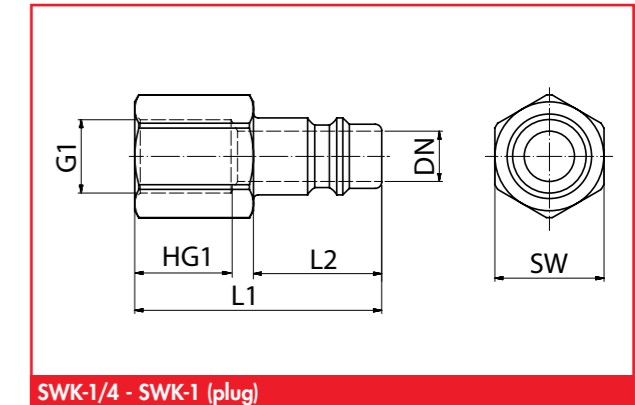
Simply move more.

## Connections

### Quick-change coupling SWK



SWK-1/4 - SWK-1 (coupling)



SWK-1/4 - SWK-1 (plug)

#### Dimensions

Type	L1	L2	DN	G1	HG1	SW
SWK-1/4-F	46	---	7,2	G1/4	12	22
SWK-1/4-S	38,5	20	7,85	G1/4	12	17
SWK-3/8-F	47,5	---	7,2	G3/8	12	22
SWK-3/8-S	39,5	20	7,85	G3/8	12	19
SWK-1/2-F	50,5	---	7,2	G1/2	12	24
SWK-1/2-S	44	20	7,85	G1/2	12	24
SWK-3/4-F	94	---	19	G3/4	17	46
SWK-3/4-S	57,5	32,5	19	G3/4	19	36
SWK-1-F	98	---	21	G1	20	46
SWK-1-S	61,5	32,5	21	G1	23	41

# FEZER

Simply move more.

## Distribution Elements

### Distribution block VTB

#### Description

Robust distribution housing made of aluminum for distributing vacuum/compressed air. The distribution blocks have 2 central connections and are available with 4, 8 or 12 exits.

#### Application:

- distribution of vacuum lines for several suction pads
- many connection possibilities of hose nipples and plug-in connections, cut-off cocks, etc.
- any mounting position

#### Article number

Type	
VTB-1/2-4x1/4	2.54.2.0015
VTB-1/2-8x1/4	2.54.2.0016
VTB-1/2-12x1/4	2.54.2.0017
VTB-3/4-4x1/4	2.54.2.0018
VTB-3/4-8x1/4	2.54.2.0019
VTB-3/4-12x1/4	2.54.2.0020

#### Technical data

Type	Pressure range (bar)	Feed line	Exits	Weight (kg)
VTB-1/2-4x1/4	-1 ... +10	2 x G1/2	4 x G1/8	0,800
VTB-1/2-8x1/4	-1 ... +10	2 x G1/2	8 x G1/8	1,600
VTB-1/2-12x1/4	-1 ... +10	2 x G1/2	12 x G1/8	2,400
VTB-3/4-4x1/4	-1 ... +10	2 x G3/4	4 x G1/4	0,700
VTB-3/4-8x1/4	-1 ... +10	2 x G3/4	8 x G1/4	1,400
VTB-3/4-12x1/4	-1 ... +10	2 x G3/4	12 x G1/4	2,100

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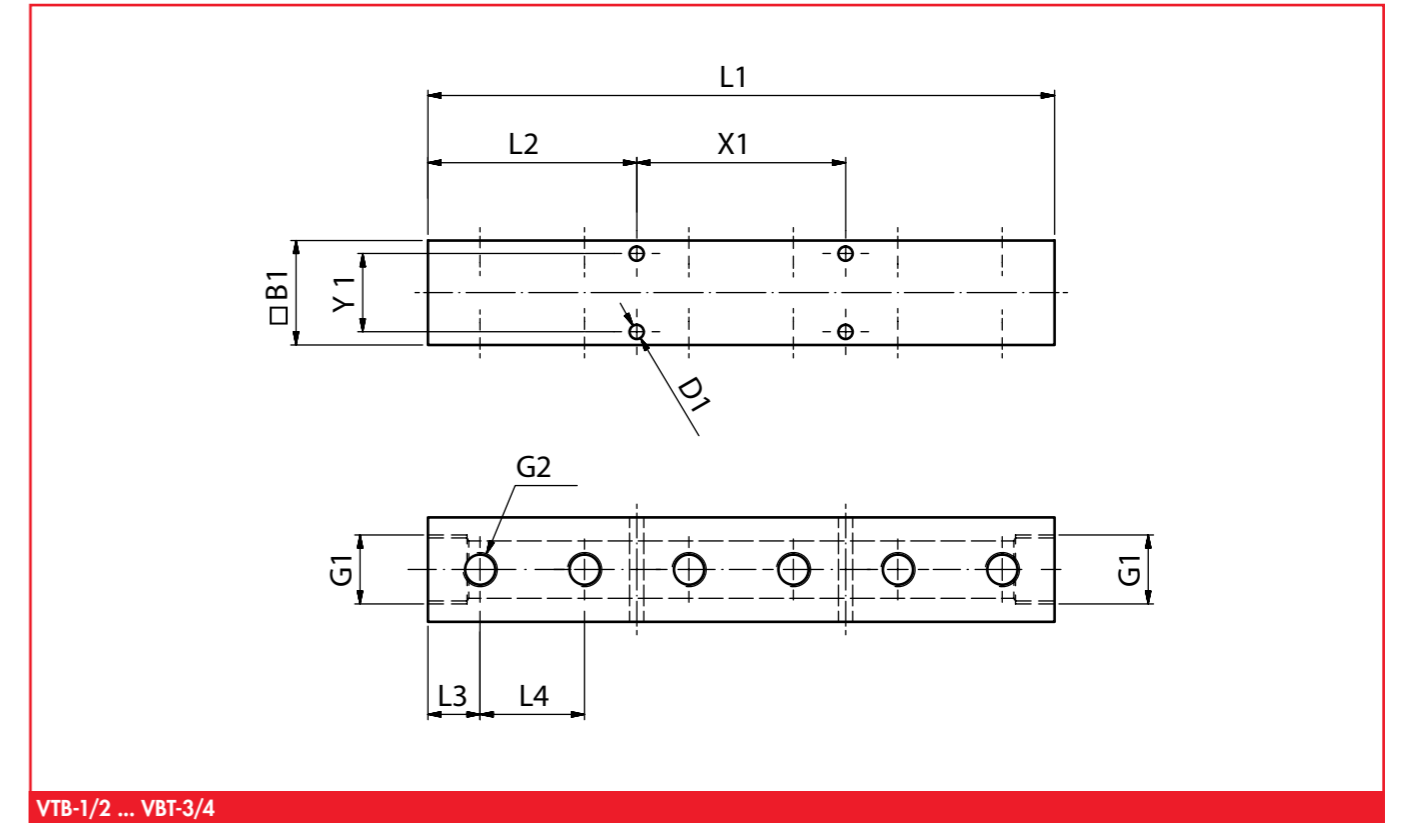
VTB-1/2 ... VBT-3/4

## Distribution Elements

### Distribution block VTB

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VTB-1/2 ... VBT-3/4

#### Dimensions

Type	L1	L2	L3	L4	B1	D1	G1	G2	X1	Y1
VTB-1/2-4x1/8	80	40	20	40	40	5,5	G1/2	G1/4	---	30
VTB-1/2-8x1/8	160	80	20	40	40	5,5	G1/2	G1/4	---	30
VTB-1/2-12x1/8	240	80	20	40	40	5,5	G1/2	G1/4	80	30
VTB-3/4-4x1/4	80	40	20	40	40	5,5	G3/4	G1/4	---	30
VTB-3/4-8x1/4	160	80	20	40	40	5,5	G3/4	G1/4	---	30
VTB-3/4-12x1/4	240	80	20	40	40	5,5	G3/4	G1/4	80	30

## Distribution Elements

Distribution block with cut-off cock VTB

### Description

Robust distribution housing made of aluminum for the distribution of vacuum/compressed air. The distribution blocks have 2 central connections and are available with 4, 8 or 12 exits. Each exit is equipped with a cut-off cock and a hose nipple.

### Application:

- distribution of vacuum lines for several suction pads
- ready-for-connection design
- any mounting position



VTB-1/2 ... VBT-3/4

### Article number

Type	
VTB-1/2-4x6	1.54.2.0073
VTB-1/2-8x6	1.54.2.0074
VTB-1/2-12x6	1.54.2.0075
VTB-3/4-4x10	1.54.2.0076
VTB-3/4-8x10	1.54.2.0077
VTB-3/4-12x10	1.54.2.0078

### Technical data

Type	Pressure range (bar)	Feed line	Exits for vacuum hose	Weight (kg)
VTB-1/2-4x6	-1 ... +10	1 x VS-1/2	4 x VS-6	1,000
VTB-1/2-8x6	-1 ... +10	1 x VS-1/2	8 x VS-6	1,800
VTB-1/2-12x6	-1 ... +10	1 x VS-1/2	12 x VS-6	2,600
VTB-3/4-4x10	-1 ... +10	1 x VS-3/4	4 x VS-10	1,100
VTB-3/4-8x10	-1 ... +10	1 x VS-3/4	8 x VS-10	2,000
VTB-3/4-12x10	-1 ... +10	1 x VS-3/4	12 x VS-10	3,000

**FEZER**

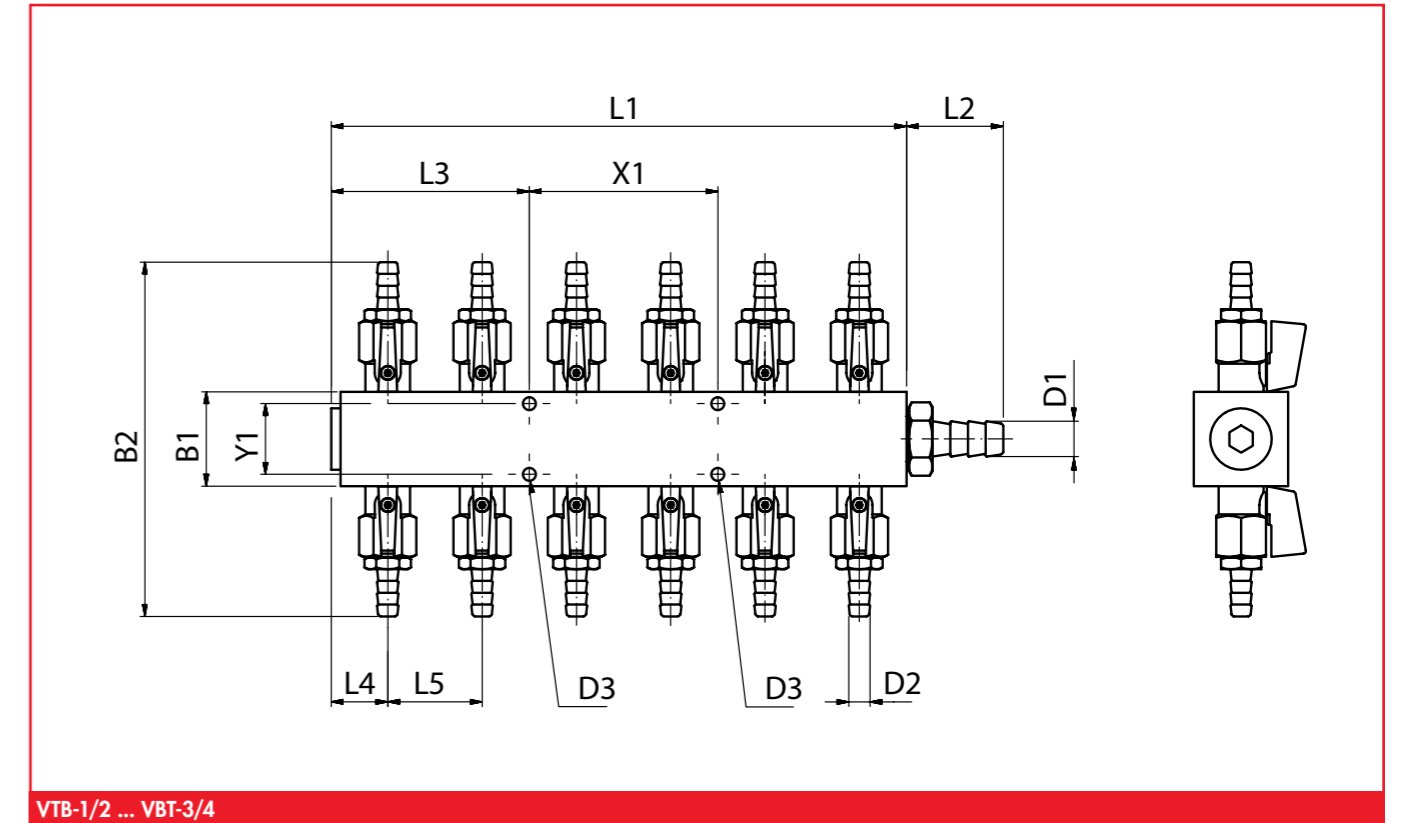
Simply move more.

## Distribution Elements

Distribution block with cut-off cock VTB

**FEZER**

Simply move more.



VTB-1/2 ... VBT-3/4

### Dimensions

Type	L1	L2	L3	L4	L5	B1	B2	D1	D2	D3	X1	Y1
VTB-1/2-4x6	84	41	44	24	40	40	150,2	15	9	5,5	---	30
VTB-1/2-8x6	164	41	84	24	40	40	150,2	15	9	5,5	---	30
VTB-1/2-12x6	244	41	84	24	40	40	150,2	15	9	5,5	80	30
VTB-3/4-4x10	84	53	44	24	40	40	164,2	21	12	5,5	---	30
VTB-3/4-8x10	164	53	84	24	40	40	164,2	21	12	5,5	---	30
VTB-3/4-12x10	244	53	84	24	40	40	164,2	21	12	5,5	80	30

## Distribution Elements

### Revolving vacuum feeder DVZ

#### Description

Very robust revolving vacuum feeder in steel design with high-quality ball bearings for medium and high revolution speeds. Design DVZ-1/4-4 with 4 exits on the outlet side.

#### Application:

- vacuum feed on highly rotating machine parts



DVZ-1/4-4 ... DVZ-1

#### Article number

Type	
DVZ-1/4-4-300	1.54.2.0079
DVZ-3/8-4-300	1.54.2.0058
DVZ-1/4-250	1.54.2.0005
DVZ-1/4-3500	1.54.2.0001
DVZ-1/2-250	1.54.2.0006
DVZ-1/2-3500	1.54.2.0003
DVZ-3/4-3500	1.54.2.0009
DVZ-1-3000	1.54.2.0007

#### Technical data

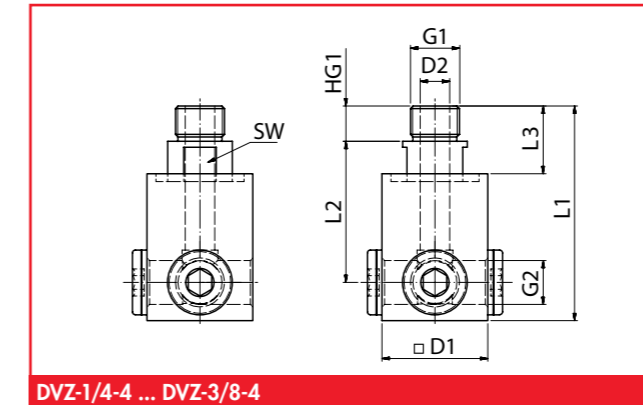
Type	Pressure range (bar)	max. Rev.speed (1/min)	Airflow (m³/h)	Airflow (l/s)	Temperature (°C)	Weight (kg)
DVZ-1/4-4-300	-1 ... +10	300	25	6,9	-10 ... +60	0,27
DVZ-3/8-4-300	-1 ... +10	300	30	8,3	-10 ... +60	0,29
DVZ-1/4-250	-1 ... +1	250	26	7,2	+5 ... +120	0,30
DVZ-1/4-3500	-1 ... +1	3500	26	7,2	+5 ... +120	0,40
DVZ-1/2-250	-1 ... +1	250	48	13,3	+5 ... +120	1,20
DVZ-1/2-3500	-1 ... +1	3500	48	13,3	+5 ... +120	0,70
DVZ-3/4-3500	-1 ... +1	3500	68	18,9	+5 ... +120	1,60
DVZ-1-3000	-1 ... +1	3000	86	23,9	+5 ... +120	2,10

# FEZER

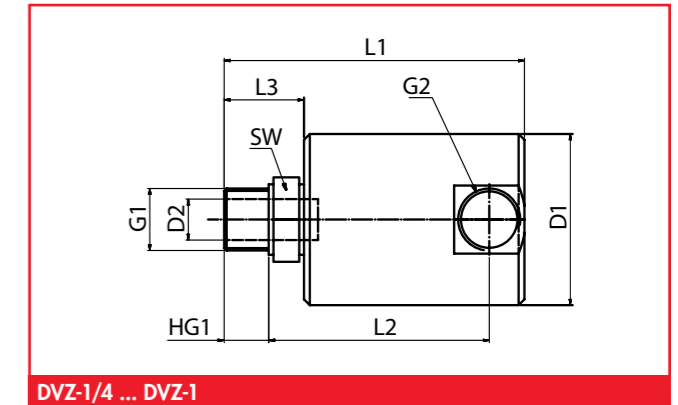
Simply move more.

## Distribution Elements

### Revolving vacuum feeder DVZ



DVZ-1/4-4 ... DVZ-3/8-4



DVZ-1/4 ... DVZ-1

#### Dimensions

Type	D1	D2	L1	L2	L3	G1	G2	HG1	SW
DVZ-1/4-300-4	36	8	70,5	45,5	20,5	G1/4	G1/4	12	17
DVZ-3/8-300-4	36	10	73	48	23	G3/8	G3/8	12	19
DVZ-1/4-250	38	8	83,3	40	28,5	G3/8	G1/4	16	22
DVZ-1/2-250	70	16	116	59	38	G3/4	G1/2	19	36
DVZ-1/4-3500	41,2	6,4	81	60	29	G1/4	G1/4	11,5	22
DVZ-1/2-3500	57,1	12,7	113	78	34	G1/2	G1/2	17,5	30
DVZ-3/4-3500	73	17,5	128	94	34	G3/4	G3/4	19	36
DVZ-1-3000	82,6	22,2	150	108	42	G 1	G1	22	36

# FEZER

Simply move more.



**Description**

Junction cable with open end for connection to terminal strips. The cables are available in different lengths, with straight or angular connection. The cables are made of high-quality PUR and suitable for highly dynamic requirements.

**Application:**

- electrical connection of vacuum switches and valves
- suitable for cable drag chains



ASK-

**Article number**

Type	2 m	5 m	10m
ASK-M8B-3P	6.35.3.1228	6.35.3.1239	6.35.3.1245
ASK-M8B90-3P	6.35.3.1229	6.35.3.1240	6.35.3.1246
ASK-M8S-3P	6.35.3.1230	---	---
ASK-M8S90-3P	6.35.3.1231	6.35.3.1241	---
ASK-M8B-4P	6.35.3.1232	6.35.3.1242	6.35.3.1247
ASK-M8B90-4P	6.35.3.1132	6.35.3.1124	6.35.3.1056
ASK-M8S-4P	6.35.3.1233	---	---
ASK-M8S90-4P	6.35.3.1234	---	---
ASK-M12B-5P	6.35.3.1235	6.35.3.1243	6.35.3.1248
ASK-M12B90-5P	6.35.3.1236	6.35.3.1244	6.35.3.1055
ASK-M12S-5P	6.35.3.1237	---	---
ASK-M12S90-5P	6.35.3.1238	---	---

**Technical data**

		ASK-M8	ASK-M12
Voltage:	(V)	50AC/60DC	30AC/36DC
Current-carrying capacity:	(A)	3	3
Ambient temperature:	(°C)	-25 ... +90	-25 ... +90
Safety type:		IP67	IP67
Cable cross section:	(mm <sup>2</sup> )	0,25	0,34
Diameter:	(mm)	3,7	4,3
Drag chain terms		yes	yes
Bend radius	(mm)	37	45
Movement speed:	(m/s)	3,3	3,3
Acceleration:	(m/s <sup>2</sup> )	5,0	5,0
Bending cycles:		> 5 Mio	> 5 Mio
Torsional stress:	(°/m)	180	180

## Electrical Connections

### Connection cable VBK

#### Description

Connection cable with connection plugs on both ends. The cables are available in different lengths, with straight or angular connection form. The connection cables are made of high-quality PUR and suitable for highly dynamic requirements.

#### Application:

- electrical connection of vacuum switches and valves



VBK-

#### Article number

Type	0,6 m	2 m	5 m
VBK-M8B-3P-M8S-3P	6.35.3.1249	6.35.3.1265	6.35.3.1281
VBK-M8B90-3P-M8S-3P	6.35.3.1250	6.35.3.1266	6.35.3.1282
VBK-M8B-3P-M8S-4P	6.35.3.1251	6.35.3.1267	6.35.3.1283
VBK-M8B90-3P-M8S-4P	6.35.3.1252	6.35.3.1268	6.35.3.1284
VBK-M8B-4P-M8S-4P	6.35.3.1253	6.35.3.1269	6.35.3.1285
VBK-M8B90-4P-M8S-4P	6.35.3.1254	6.35.3.1270	6.35.3.1286
VBK-M8B-3P-M12S-3P	6.35.3.1255	6.35.3.1271	6.35.3.1287
VBK-M8B90-3P-M12S-3P	6.35.3.1256	6.35.3.1272	6.35.3.1288
VBK-M12B-5P-M8S-3P	6.35.3.1257	6.35.3.1273	6.35.3.1289
VBK-M12B90-5P-M8S-4P	6.35.3.1258	6.35.3.1274	6.35.3.1290
VBK-M8B-4P-M12S-4P	6.35.3.1259	6.35.3.1275	6.35.3.1291
VBK-M8B90-4P-M12S-4P	6.35.3.1260	6.35.3.1276	6.35.3.1292
VBK-M12B90-5P-M8S-4P	6.35.3.1262	6.35.3.1278	6.35.3.1156
VBK-M12B-5P-M12S-5P	6.35.3.1263	6.35.3.1279	6.35.3.1294
VBK-M12B90-5P-M12S-5P	6.35.3.1264	6.35.3.1280	6.35.3.1295

# FEZER

Simply move more.

## Electrical Connections

### Connection cable VBK

# FEZER

Simply move more.

#### Technical data

		VBK-M8-M8	VBK-M8(M12)-M12(M8), VBK-M12-M12
Voltage:	(V)	50AC/60DC	30AC/36DC
Current-carrying capacity:	(A)	3	3
Ambient temperature:	(°C)	-25 ... +90	-25 ... +90
Safety type:		IP67	IP67
Cable cross section:	(mm <sup>2</sup> )	0,25	0,34
Diameter:	(mm)	3,7	4,3
Drag chain terms:		yes	yes
Bend radius	(mm)	37	45
Movement speed:	(m/s)	3,3	3,3
Acceleration:	(m/s <sup>2</sup> )	5,0	5,0
Bending cycles:		> 5 Mio	> 5 Mio
Torsional stress:	(°/m)	180	180