

## Edelstahl L

Verschraubungen

## Acier inoxydable L






















Raccords

## Stainless steel L

Unions

5L



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## Edelstahl L

## Acier inoxydable L

## Stainless steel L

### Anwendung

- Halbleiter
- On-Off shore
- Brennstoffzellen
- Bio und Pharma Industrie

### Eigenschaften

- hohe Druckbeständigkeit
- einfache robuste Montage dank Anzugsbegrenzung
- korrosionsbeständig
- kompakte Bauform
- radiale De- Montage
- Totraum arm
- sehr gute Vibrationsresistenz

### Werkstoff

Edelstahl 1.4571, Legierung X 6 CrNiMoTi 17 12 2, DIN EN 10216-5 (≈ AISI 316 Ti)

### Nenndruck PN (stat.)

200-400 bar, Details siehe Produktetabelle (4fache Sicherheit)

### Temperaturbereich

-110°C bis +300°C

### Helium - Leckrate

≤ 10<sup>-6</sup>mbar • l/s

### Vakuum

10<sup>-6</sup> mbar

### Anzuschliessende Rohre

Kunststoffrohre und Edelstahlrohre nahtlos, kaltgezogen, zunderfrei (DIN 17458), Toleranzen nach DIN EN 10216-5, max. Härte: 185 HV(HRB90) weitere Angaben siehe Kapitel Anhang

### Werkzeugnis

2.2 nach EN 10204 , inkl. Materialangabe

### Zulassungen/Zertifizierungen

DVGW-Gas, SVGW-Gas, ECE/324/Reg.110  
«Einheitliche Vorschriften für Bauteile von Kraftfahrzeugen, die mit verdichtetem Erdgas (CNG) betrieben werden»

### Einschraubzapfen, Gewinde

Feingewinde DIN 3852, kegelig nach Form C, zylindrisch nach Form B, mit Dichtkante nach Form E. NPT-Gewinde nach ANSI/ASME B1.20.1-1983. UNF/UN Gewinde SAE 514.

### Druckauswertungsgrad in % des PN



### Application

- semi-conducteur
- on-off shore
- cellules de carburant
- industries bio et pharmaceutique

### Propriétés

- haute résistance de pression
- montage facile et solide grace à la limitation de serrage
- résistant à la corrosion
- construction compacte
- démontage radiale
- faible volume mort
- très bonne résistance à la vibration

### Matériau

Acier inoxydable 1.4571 avec l'alliage X 6 CrNiMoTi 17 12 2, DIN EN 10216-5 (≈ AISI 316 Ti).

### Pression nominale PN (stat.)

200-400 bar, détails voir tableaux des produits (facteur de sécurité 4)

### Plage de température admissible

-110°C bis +300°C

### Débit de fuite avec Hélium

≤ 10<sup>-6</sup>mbar • l/s

### Vide

10<sup>-6</sup> mbar

### Tubes a utiliser

Tubes en plastique et en acier inoxydable sans soudure, réétrié à froid, recuit blanc (DIN 17458) marge de tolérance selon DIN EN 10216-5, trempe max.: 185 HV(HRB90), autres informations voir chapitre annexe

### Certificat

2.2 selon EN 10204, indiquant le matériel

### Homologations

SSIGE-gaz, DVGW-gaz, ECE/324/Reg.110  
«Prescriptions uniformes relatives à l'homologation : des organes spéciaux pour l'alimentation du moteur au gaz naturel comprimé (gnc) sur les véhicules»

### Embouts mâles, filetages

Filetage-gaz (BSP) et filetage métrique à pas fin DIN 3852. Conique selon forme C. Cylindrique selon forme B. Filetage d'étanchéité selon forme E. Filetage NPT selon ANSI/ASME B1.20.1-1983. Filetage UNF/UN correspondent à SAE 514.

### Coefficient de pression de service admissible en % de PN

### Application

- semiconductors
- on/offshore
- fuel cells
- biotechnology and pharmaceuticals

### Characteristics/specifications

- high pressure resistance
- easy, robust assembly due to tightening limitation
- corrosion resistant
- compact design
- radial dismounting
- minimal dead space
- very good resistance to vibration

### Material

Stainless steel 1.4571 with the alloy X 6 CrNiMoTi 17 12 2, DIN EN 10216-5 (≈ AISI 316 Ti).

### Nominal pressure PN (stat.)

200-400 bar; for details, see product tables (safety factor 4)

### Temperature range

-110°C bis +300°C

### Leak rate with helium

≤ 10<sup>-6</sup>mbar • l/s

### Vacuum

10<sup>-6</sup> mbar

### Tubes to use

Plastic tubes and stainless steel tubes, seamless, cold drawn, de-scaled (DIN 17458), tolerances per DIN EN 10216-5, max. hardness: 185 HV(HRB90), for more information, see appendix

### Certificates

2.2 per EN 10204 , incl. materials specification

### Approvals

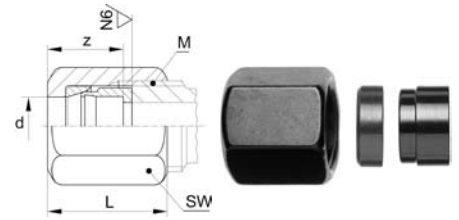
DVGW-Gas, SVGW-Gas, ECE/324/Reg.110  
«Uniform provision concerning the approval of specific components of motor vehicles using compressed natural gas (cng) in their propulsion system»

### Adaptor stem, threads

British Standard Pipe (BSP) and metric fine thread DIN 3852. Tapered form C, parallel form B. Thread with sealing form E. NPT-thread according to ANSI/ASME B1.20.1-1983. UNF/UN threads in accordance with SAE 514.

### Pressure coefficient % of PN

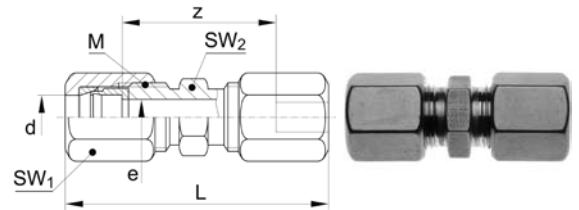
## Armaturenanschluss Ecrou de raccordement Nut connection



### SOL 50021

Type -d	Mat.-Nr.	bar	M	SW	L	z	kg/100	
Für metrische Rohre	Pour tubes métriques		For metric tubes					
SOL 50021-6	076.0210.060	400	10 x 1	14	17,5	10,0	1.650	
SOL 50021-8	076.0210.080	330	12 x 1	17	18,5	10,5	2.500	
SOL 50021-10	076.0210.100	330	14 x 1	19	20,5	12,5	3.270	
SOL 50021-12	076.0210.120	330	16 x 1	22	21,5	13,5	4.600	
SOL 50021-15	076.0210.150	250	20 x 1,5	27	25,0	15,0	7.860	
SOL 50021-16	076.0210.160	250	24 x 1,5	30	26,5	18,5	10.400	
SOL 50021-18	076.0210.180	200	24 x 1,5	30	26,5	17,5	9.500	
Für Zollrohre	Pour tubes pouces		For inch tubes					
SOL 50021-6,35	076.0210.063	400	10 x 1	14	17,5	10,5	1.700	
SOL 50021-9,52	076.0210.095	330	14 x 1	19	20,5	12,5	3.600	
SOL 50021-12,7	076.0210.127	330	20 x 1,5	27	25,0	15,0	8.700	

## Gerade Verschraubung Union double Straight union



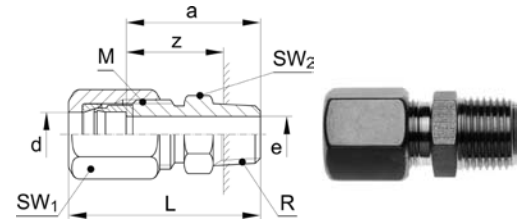
### SOL 51021

Type -d	Mat.-Nr.	bar	M	SW1	SW2	L	z	e	kg/100
Für metrische Rohre	Pour tubes métriques		For metric tubes						
SOL 51021-6	078.1020.060	400	10 x 1	14	10	42,0	22,4	4,5	4.180
SOL 51021-8	078.1020.080	330	12 x 1	17	12	43,0	24,9	6,5	6.250
SOL 51021-10	078.1020.100	330	14 x 1	19	14	47,0	25,9	8,5	8.190
SOL 51021-12	078.1020.120	330	16 x 1	22	17	49,0	26,4	10,5	11.340
SOL 51021-15	078.1020.150	250	20 x 1,5	27	22	53,0	31,6	13,0	19.520
SOL 51021-16	078.1020.160	200	24 x 1,5	30	24	60,0	33,0	15,0	26.460
SOL 51021-18	078.1020.180	200	24 x 1,5	30	24	58,0	33,0	15,0	24.660
Für Zollrohre	Pour tubes pouces		For inch tubes						
SOL 51021-6,35	078.1020.063	400	10 x 1	14	10	41,5	22,4	4,5	4.300
SOL 51021-9,52	078.1020.095	330	14 x 1	19	14	45,0	25,9	8,5	8.900
SOL 51021-12,7	078.1020.127	330	20 x 1,5	27	22	58,5	32,0	13,0	21.700

# Gerade Einschraubverschraubung

## Union mâle

### Male adaptor union



## SOL 51121

Type -d-R	Mat.-Nr.	bar	M	SW1	SW2	a	L	z	e	kg/100
Für metrische Rohre	Pour tubes métriques			For metric tubes						
R=Rohrgewinde (kegelig)	R=Filetage-gaz BSP (conique)			R=BSP thread (tapered)						
SOL 51121-6-1/8	078.1101.100	400	10 x 1	14	10	21.0	31.0	17.0	4.5	2.550
SOL 51121-6-1/4	078.1101.110	400	10 x 1	14	14	27.0	37.0	21.0	4.5	3.650
SOL 51121-6-3/8	078.1101.120	400	10 x 1	14	17	27.0	37.0	20.6	4.5	4.040
SOL 51121-6-1/2	078.1101.125	400	10 x 1	14	22	32.0	42.0	23.8	4.5	6.160
SOL 51121-8-1/8	078.1101.160	330	12 x 1	17	12	22.0	32.5	18.0	6.0	3.540
SOL 51121-8-1/4	078.1101.170	330	12 x 1	17	14	28.0	38.5	22.0	6.5	4.430
SOL 51121-8-3/8	078.1101.180	330	12 x 1	17	17	28.0	38.5	21.6	6.5	4.520
SOL 51121-8-1/2	078.1101.185	330	12 x 1	17	22	33.0	43.5	24.8	6.5	7.050
SOL 51121-10-1/4	078.1101.270	330	14 x 1	19	14	28.0	40.5	22.0	8.5	5.020
SOL 51121-10-3/8	078.1101.280	330	14 x 1	19	17	28.0	40.5	21.6	8.5	6.130
SOL 51121-10-1/2	078.1101.285	330	14 x 1	19	22	33.0	45.5	24.8	8.5	9.290
SOL 51121-12-1/4	078.1101.380	330	16 x 1	22	17	28.0	41.5	22.0	8.5	6.980
SOL 51121-12-3/8	078.1101.390	330	16 x 1	22	17	28.0	41.5	21.6	10.5	7.180
SOL 51121-12-1/2	078.1101.400	330	16 x 1	22	22	33.0	46.5	24.8	10.5	10.050
SOL 51121-15-3/8	078.1101.532	250	20 x 1.5	27	22	30.5	45.5	24.1	10.5	12.490
SOL 51121-15-1/2	078.1101.534	250	20 x 1.5	27	22	35.5	50.5	27.3	13.0	12.680
SOL 51121-16-1/2	078.1101.566	200	24 x 1.5	30	24	36.5	55.0	28.3	13.5	16.500
SOL 51121-16-3/4	078.1101.568	200	24 x 1.5	30	27	36.5	55.0	27.0	15.0	17.680
SOL 51121-18-1/2	078.1101.646	200	24 x 1.5	30	24	36.5	54.0	28.3	13.5	15.100
SOL 51121-18-3/4	078.1101.648	200	24 x 1.5	30	27	37.5	55.0	27.0	15.0	16.280

#### Für Zollrohre

#### Pour tubes pouces

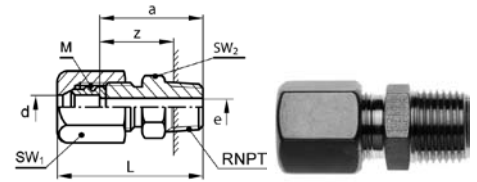
#### For inch tubes

SOL 51121-6,35-1/8	078.1101.135	400	10 x 1	14	10	21.0	31.0	25.0	4.5	2.600
SOL 51121-6,35-1/4	078.1101.140	400	10 x 1	14	14	27.0	37.0	33.0	4.5	3.700
SOL 51121-6,35-3/8	078.1101.145	400	10 x 1	14	17	27.0	37.0	21.0	4.5	4.100
SOL 51121-9,52-1/4	078.1101.230	330	14 x 1	19	14	28.0	40.0	22.0	8.5	5.500
SOL 51121-9,52-3/8	078.1101.235	330	14 x 1	19	17	28.0	40.0	22.0	8.5	6.600
SOL 51121-12,7-1/2	078.1101.434	250	20 x 1.5	27	22	35.5	48.5	27.5	13.0	9.600

## Gerade Einschraubverschraubung NPT

### Raccordo diritto filettato maschio NPT

### Male adaptor union NPT



## SOL 51121 NPT

Type -d -RNPT	Mat.-Nr.	bar	M	SW1	SW2	a	L	z	e	kg/100
Für metrische Rohre	Per tubi in unita metrica			For metric tubes						
RNPT=NPT Gewinde	RNPT=Filettatura NPT			RNPT=NPT thread						
SOL 51121-6-1/8 NPT	078.1102.100	400	10 x 1	14	12	24.0	34.0	19.9	4.5	2.820
SOL 51121-6-1/4 NPT	078.1102.110	400	10 x 1	14	14	29.0	39.0	23.2	4.5	3.830
SOL 51121-8-1/8 NPT	078.1102.160	330	12 x 1	17	12	25.0	35.5	20.9	6.0	4.120
SOL 51121-8-1/4 NPT	078.1102.170	330	12 x 1	17	14	30.0	40.5	24.2	6.5	4.600
SOL 51121-8-3/8 NPT	078.1102.180	330	12 x 1	17	17	30.0	40.5	23.9	6.5	5.450
SOL 51121-8-1/2 NPT	078.1102.185	330	12 x 1	17	22	36.0	46.5	27.9	6.5	7.090
SOL 51121-10-1/4 NPT	078.1102.270	330	14 x 1	19	14	30.0	42.5	24.2	8.5	5.130
SOL 51121-10-1/2 NPT	078.1102.285	330	14 x 1	19	22	36.0	48.5	27.9	8.5	9.760
SOL 51121-12-1/4 NPT	078.1102.380	330	16 x 1	22	17	30.0	43.5	24.2	8.5	7.040
SOL 51121-12-3/8 NPT	078.1102.390	330	16 x 1	22	17	30.0	43.5	23.9	10.5	7.330
SOL 51121-12-1/2 NPT	078.1102.400	330	16 x 1	22	22	36.0	49.5	27.9	10.5	10.520
SOL 51121-12-3/4 NPT	078.1102.405	330	16 x 1	22	27	39.0	52.5	30.4	10.5	11.390
SOL 51121-15-1/2 NPT	078.1102.534	250	20 x 1.5	27	22	38.5	53.5	30.4	13.0	13.040
SOL 51121-16-1/2 NPT	078.1102.566	200	24 x 1.5	30	24	39.5	58.0	31.4	13.5	20.850
SOL 51121-18-1/2 NPT	078.1102.646	200	24 x 1.5	30	24	39.5	57.0	31.4	13.5	19.950

Für Zollrohre

Per tubi in unita pollici

For inch tubes

SOL 51121-6,35-1/8 NPT	078.1102.135	400	10 x 1	14	12	24.0	33.0	20.0	4.5	3.000
SOL 51121-6,35-1/4 NPT	078.1102.140	400	10 x 1	14	14	29.0	38.0	23.5	4.5	4.000
SOL 51121-9,52-1/4 NPT	078.1102.230	330	14 x 1	19	14	30.0	47.0	24.5	8.5	5.700
SOL 51121-12,7-1/2 NPT	078.1102.434	250	20 x 1.5	27	22	38.5	50.0	30.5	13.0	14.900

## Gerade Einschraubverschraubung zylindrisch

### METR

mit Dichtkante

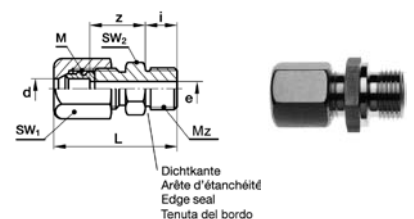
### Raccordo diritto METR

con tenuta del bordo

### Male adaptor union with parallel thread

### METR

with edge seal



## SOL 51124 METR

Type -d -Mz	Mat.-Nr.	bar	M	SW1	SW2	i	L	z	e	kg/100
Für metrische Rohre	Per tubi in unita metrica			For metric tubes						
Mz=metrisches Gewinde (zylindrisch)	Mz=Filettatura metrica (cilindrica)			Mz=Metric thread (straight)						
SOL 51124-6-M5	078.1143.155	400	10 x 1	14	10	4.5	27.5	13.0	2.2	2.300
Für Zollrohre	Per tubi in unita pollici			For inch tubes						
SOL 51124-6,35-M5	078.1143.205	400	10 x 1	14	10	4.5	26.5	13.0	22.0	8.100

d=Rohrussen-ø  
e=kleinste Bohrung  
L=Mass in montiertem Zustand

d=diametro esterno del tubo  
e=foro minimo di passaggio  
L=dimensione raccordo montato

d=tube outside diameter  
e=minimum bore  
L=installed length

## Gerade Einschraubverschraubung zylindrisch

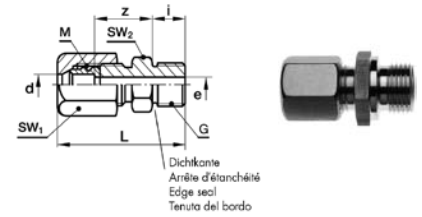
mit Dichtkante

### Raccordo diritto

con tenuta del bordo

### Male adaptor union with parallel thread

with edge seal


**SOL 51124**

Type -d-G	Mat.-Nr.	bar	M	SW1	SW2	i	L	z	e	kg/100
Für metrische Rohre	Per tubi in unita metrica					For metric tubes				
G=Rohrgewinde (zylindrisch)	G=Filettatura BSP (cilindrica)					G=BSP thread (straight)				
SOL 51124-6-1/8	078.1141.100	400	10 x 1	14	14	8.0	32.5	14.5	4.5	2.900
SOL 51124-6-1/4	078.1141.110	400	10 x 1	14	19	12.0	38.0	16.0	4.5	4.400
SOL 51124-6-3/8	078.1141.120	400	10 x 1	14	22	12.0	39.5	17.5	4.5	4.400
SOL 51124-6-1/2	078.1141.125	400	10 x 1	14	27	14.0	42.0	18.0	4.5	7.600
SOL 51124-8-1/8	078.1141.160	330	12 x 1	17	14	8.0	34.0	15.5	5.0	5.200
SOL 51124-8-1/4	078.1141.170	330	12 x 1	17	19	12.0	39.5	17.0	6.5	4.400
SOL 51124-8-1/2	078.1141.185	330	12 x 1	17	27	14.0	43.5	19.0	6.5	8.200
SOL 51124-10-1/4	078.1141.270	330	14 x 1	19	19	12.0	41.5	17.0	8.5	6.000
SOL 51124-10-3/8	078.1141.280	330	14 x 1	19	22	12.0	43.0	18.5	8.5	7.500
SOL 51124-10-1/2	078.1141.285	330	14 x 1	19	27	14.0	45.5	19.0	8.5	10.300
SOL 51124-10-3/4	078.1141.290	400	14 x 1	19	32	16.0	46.0	20.0	8.5	12.600
SOL 51124-12-1/4	078.1141.380	330	16 x 1	22	19	12.0	42.5	17.0	7.0	7.600
SOL 51124-12-3/8	078.1141.390	330	16 x 1	22	22	12.0	44.0	18.5	10.5	8.400
SOL 51124-12-1/2	078.1141.400	330	16 x 1	22	27	14.0	46.5	19.0	10.5	9.900
SOL 51124-12-3/4	078.1141.405	400	16 x 1	22	32	16.0	49.5	20.0	10.5	12.100
SOL 51124-15-1/2	078.1141.534	250	20 x 1.5	27	27	14.0	50.5	21.5	13.0	14.000
SOL 51124-16-1/2	078.1141.566	200	24 x 1.5	30	27	14.0	54.0	21.5	13.5	18.200
SOL 51124-16-1	078.1141.570	200	24 x 1.5	30	41	18.0	60.0	23.5	13.5	22.500
SOL 51124-18-1/2	078.1141.646	200	24 x 1.5	30	27	14.0	53.0	21.5	13.5	16.700
Für Zollrohre	Per tubi in unita pollici					For inch tubes				
SOL 51124-6,35-1/8	078.1141.135	400	10 x 1	14	14	8.0	31.5	14.5	4.5	3.000
SOL 51124-6,35-1/4	078.1141.140	330	10 x 1	14	19	12.0	37.0	16.0	4.5	3.000
SOL 51124-6,35-3/8	078.1141.145	400	10 x 1	14	22	12.0	38.5	17.5	4.5	5.500
SOL 51124-6,35-1/2	078.1141.150	400	10 x 1	14	27	14.0	41.0	18.0	4.5	7.700
SOL 51124-9,52-1/4	078.1141.230	330	14 x 1	19	19	12.0	40.0	17.0	8.5	6.500
SOL 51124-9,52-3/8	078.1141.235	400	14 x 1	19	22	12.0	41.5	18.5	8.5	7.900
SOL 51124-9,52-1/2	078.1141.240	400	14 x 1	19	27	14.0	44.0	19.0	8.5	10.800
SOL 51124-12,7-1/2	078.1141.434	400	20 x 1.5	27	27	14.0	47.0	21.5	13.0	15.300
SOL 51124-12,7-3/4	078.1141.536	400	20 x 1.5	17	32	16.0	53.5	22.5	13.0	15.100

5L

d=Rohrøussen-ø  
e=kleinste Bohrung  
L=Mass in montiertem Zustand

d=diametro esterno del tubo  
e=foro minimo di passaggio  
L=dimensione raccordo montato

d=tube outside diameter  
e=minimum bore  
L=installed length

## Gerade Einschraubverschraubung

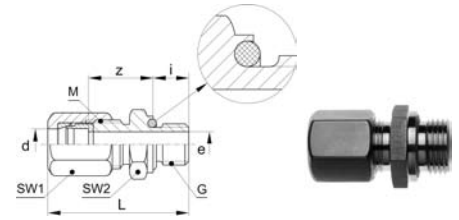
mit O-Ringabdichtung (FPM)

### Union mâle

avec joint torique (FPM)

### Male adaptor union

with O-ring seal (FPM)



## SOL 51124 OR

Type - d - G	Mat.-Nr.	bar	M	SW1	SW2	i	L	z	e	D	s	kg/100
Für metrische Rohre	Pour tubes métriques			For metric tubes								
G=Rohrgewinde (zylindrisch)	G=Filetage-gaz BSP (cylindrique)			G=BSP thread (straight)								
SOL 51124-6-1/8 OR	078.1171.100	400	10 x 1	14	14	8.0	32.5	14.5	4.5	15.0	1.00	2.960
SOL 51124-6-1/4 OR	078.1171.110	400	10 x 1	14	19	10.0	36.0	16.0	4.5	19.0	1.50	4.260
SOL 51124-8-1/4 OR	078.1171.170	330	12 x 1	17	19	10.0	37.5	17.0	6.5	19.0	1.50	5.150
SOL 51124-10-1/4 OR	078.1171.270	330	14 x 1	19	19	10.0	39.5	17.0	7.0	19.0	1.50	5.890
SOL 51124-10-3/8 OR	078.1171.280	330	14 x 1	19	22	10.0	41.0	18.5	8.5	23.0	2.00	7.390
SOL 51124-12-3/8 OR	078.1171.390	330	16 x 1	22	22	10.0	42.0	18.5	10.5	23.0	2.00	8.390
SOL 51124-12-1/2 OR	078.1171.400	330	16 x 1	22	27	12.0	44.5	19.0	10.5	27.0	2.50	9.790
SOL 51124-15-1/2 OR	078.1171.534	250	20 x 1.5	27	27	12.0	48.5	21.5	13.0	27.0	2.50	13.850
SOL 51124-16-1/2 OR	078.1171.566	200	24 x 1.5	30	27	12.0	52.0	21.5	13.0	27.0	2.50	17.850
SOL 51124-18-1/2 OR	078.1171.646	200	24 x 1.5	30	27	12.0	51.0	21.5	13.0	27.0	2.50	16.450
Für Zollrohre	Pour tubes pouces			For inch tubes								
SOL 51124-6,35-1/8 OR	078.1171.135	400	10 x 1	14	14	8.0	31.5	14.5	4.5	15.0	1.00	3.000
SOL 51124-6,35-1/4 OR	078.1171.140	400	10 x 1	14	19	10.0	35.0	16.0	4.5	19.0	1.50	4.300
SOL 51124-9,52-1/4 OR	078.1171.230	330	14 x 1	19	19	10.0	38.0	17.0	7.0	19.0	1.50	6.300
SOL 51124-9,52-3/8 OR	078.1171.235	330	14 x 1	19	22	10.0	39.0	18.5	8.5	23.0	2.00	7.600
SOL 51124-12,7-1/2 OR	078.1171.434	330	20 x 1.5	27	27	12.0	45.0	21.5	13.0	27.0	2.50	14.700

d=Rohraussen-ø  
 e=kleinste Bohrung  
 L=Mass in montiertem Zustand

d=ø extérieur du tube  
 e= ø-min. de passage  
 L=après montage

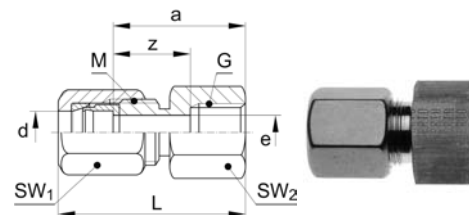
d=tube outside diameter  
 e=minimum bore  
 L=installed length



# Gerade Aufschraubverschraubung

## Union femelle

### Female adaptor union



## SOL 51221

Type -d-G	Mat.-Nr.	bar	M	SW1	SW2	a	L	z	e	kg/100	
Für metrische Rohre	Pour tubes métriques			For metric tubes							
G=Rohrgewinde (zylindrisch)	G=Filetage-gaz BSP (cylindrique)			G=BSP thread (straight)							
SOL 51221-6-1/8	078.1201.100	400	10 x 1	14	14	22.0	32.0	12.0	4.5	3.000	
SOL 51221-6-1/4	078.1201.110	400	10 x 1	14	17	24.0	34.0	13.0	4.5	3.700	
SOL 51221-6-3/8	078.1201.120	400	10 x 1	14	22	25.0	35.0	13.0	4.5	5.200	
SOL 51221-6-1/2	078.1201.125	400	10 x 1	14	27	31.0	41.0	17.0	4.5	9.000	
SOL 51221-8-1/4	078.1201.170	330	12 x 1	17	17	25.0	35.5	14.0	6.5	4.500	
SOL 51221-10-1/4	078.1201.270	330	14 x 1	19	17	25.0	37.5	14.0	8.5	5.600	
SOL 51221-10-3/8	078.1201.280	330	14 x 1	19	22	26.0	38.5	14.0	8.5	6.900	
SOL 51221-10-1/2	078.1201.285	330	14 x 1	19	27	28.0	40.5	14.0	8.5	9.000	
SOL 51221-12-1/4	078.1201.380	330	16 x 1	22	17	25.0	38.5	14.0	10.5	6.900	
SOL 51221-12-3/8	078.1201.390	330	16 x 1	22	22	26.0	39.5	14.0	10.5	8.200	
SOL 51221-12-1/2	078.1201.400	330	16 x 1	22	27	28.0	41.5	14.0	10.5	10.200	
SOL 51221-15-1/2	078.1201.534	250	20 x 1.5	27	27	30.5	45.5	16.5	13.0	13.700	
SOL 51221-16-1/2	078.1201.566	200	24 x 1.5	30	27	30.5	49.0	16.5	15.0	17.500	
SOL 51221-18-1/2	078.1201.646	200	24 x 1.5	30	27	30.5	48.0	16.5	15.0	16.100	

Für Zollrohre	Pour tubes pouces			For inch tubes							
SOL 51221-6,35-1/8	078.1201.135	400	10 x 1	14	14	22.0	31.0	12.0	4.5	3.200	
SOL 51221-6,35-1/4	078.1201.140	400	10 x 1	14	17	24.0	33.0	13.0	4.5	3.900	
SOL 51221-6,35-3/8	078.1201.145	400	10 x 1	14	22	25.0	34.0	13.0	4.5	5.400	
SOL 51221-6,35-1/2	078.1201.150	400	10 x 1	14	27	31.0	40.0	17.0	4.5	9.300	
SOL 51221-9,52-1/4	078.1201.230	330	14 x 1	19	17	25.0	36.0	14.0	8.5	6.000	
SOL 51221-9,52-3/8	078.1201.235	330	14 x 1	19	22	26.0	37.0	14.0	8.5	7.500	
SOL 51221-9,52-1/2	078.1201.240	330	14 x 1	19	27	28.0	39.0	14.0	8.5	9.600	
SOL 51221-12,7-1/2	078.1201.434	250	20 x 1.5	27	27	28.5	40.0	14.5	10.5	14.700	

d=Rohraussen-ø  
e=kleinste Bohrung  
L=Mass in montiertem Zustand

d=ø extérieur du tube  
e=ø-min. de passage  
L=après montage

d=tube outside diameter  
e=minimum bore  
L=installed length

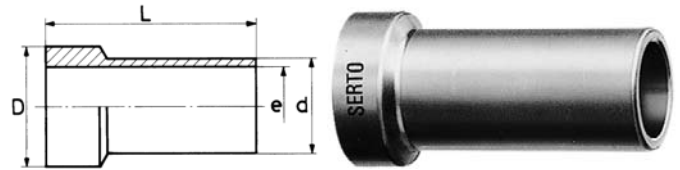
5L

## Verbindungsrippe

### Pièce folle

### Tube stub

#### SOL 51300



Type -Ad	Mat.-Nr.	bar	D	L	e	kg/100
Für metrische Rohre	Pour tubes métriques					
				For metric tubes		
SOL 51300-A6	076.1300.060	400	8.5	23.0	4.0	0.421
SOL 51300-A8	076.1300.080	330	10.5	25.0	6.0	0.624
SOL 51300-A10	076.1300.100	330	12.7	28.0	7.5	1.055
SOL 51300-A12	076.1300.120	330	14.7	31.0	9.0	1.597
SOL 51300-A15	076.1300.150	250	18.0	36.5	12.0	2.407
SOL 51300-A16	076.1300.160	200	22.0	39.0	13.0	2.790
SOL 51300-A18	076.1300.180	200	22.0	40.5	15.0	3.631

Die entsprechende Stützhülse SO 50003 ist immer separat zu bestellen.

Les douilles d'appui SO 50003 correspondants sont à commander séparément.

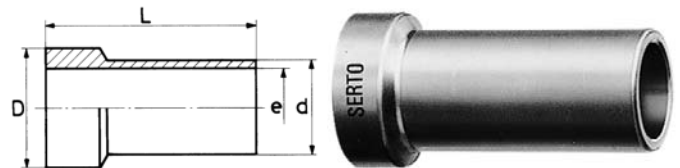
The relevant stiffener sleeve SO 50003 must always be ordered separately.

## Verbindungsrippe

### Pièce folle

### Tube stub

#### SOL 51304



Type -Ad	Mat.-Nr.	bar	D	L	e	kg/100
Für metrische Rohre	Pour tubes métriques					
				For metric tubes		
SOL 51304-A6	076.1310.060	400	8.5	34.0	4.0	0.548
SOL 51304-A8	076.1310.080	330	10.5	36.0	6.0	0.801
SOL 51304-A10	076.1310.100	330	12.7	40.0	7.5	1.359
SOL 51304-A12	076.1310.120	330	14.7	42.0	9.0	1.993

Die entsprechende Stützhülse SO 50003 ist immer separat zu bestellen.

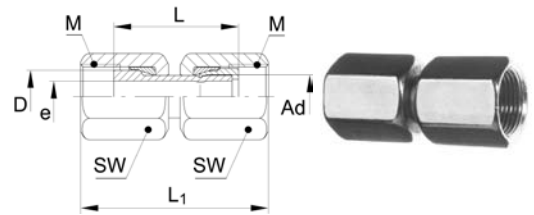
Les douilles d'appui SO 50003 correspondants sont à commander séparément.

The relevant stiffener sleeve SO 50003 must always be ordered separately.

## Einstellbare Kupplung

### Accouplement orientable

### Adjustable coupling



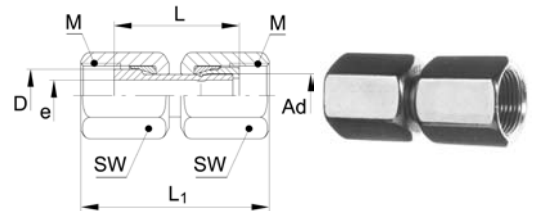
#### SOL 51325

Type -Ad	Mat.-Nr.	bar	M	SW	L	L1	D	e	kg/100
Für metrische Rohre	Pour tubes métriques								
SOL 51325-A6	078.1320.060	400	10 x 1	14	24.0	36.0	8.5	4.0	0.751
SOL 51325-A8	078.1320.080	330	12 x 1	17	26.0	39.0	10.5	6.0	1.124
SOL 51325-A10	078.1320.100	330	14 x 1	19	29.0	42.5	12.7	7.5	1.709
SOL 51325-A12	078.1320.120	330	16 x 1	22	33.0	45.5	14.7	9.0	2.517
SOL 51325-A15	078.1320.150	250	20 x 1.5	27	39.5	55.0	18.0	12.0	3.979
SOL 51325-A16	078.1320.160	250	24 x 1.5	30	40.5	55.0	22.0	15.0	2.219
SOL 51325-A18	078.1320.180	200	24 x 1.5	30	43.5	57.0	22.0	15.0	5.531

## Einstellbare Kupplung

### Accouplement orientable

### Adjustable coupling



#### SOL 51326

Type -Ad	Mat.-Nr.	bar	M	SW	L	L1	D	e	kg/100
Für metrische Rohre	Pour tubes métriques								
SOL 51326-A6	078.1330.060	400	10 x 1	14	35.0	47.0	8.5	4.0	0.878
SOL 51326-A8	078.1330.080	330	12 x 1	17	37.0	50.0	10.5	6.0	1.301
SOL 51326-A10	078.1330.100	330	14 x 1	19	41.0	54.5	12.7	7.5	2.013
SOL 51326-A12	078.1330.120	330	16 x 1	22	43.0	56.5	14.7	9.0	2.913

## Gerade Schottverschraubung

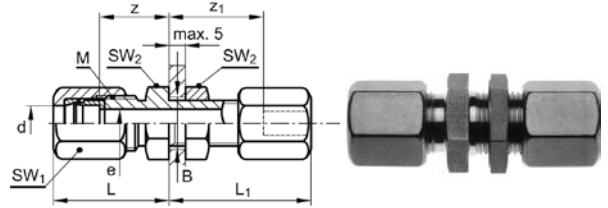
Durchführungslänge max. 5 mm

## Union double pour passage de cloison

pour cloison max. 5 mm

## Panel mount union

max. panel thickness 5 mm

**SOL 51521**


Type-d	Mat.-Nr.	bar	M	SW1	SW2	L	L1	B	z1	z	e	kg/100
Für metrische Rohre	Pour tubes métriques			For metric tubes								
SOL 51521-6	078.1500.060	400	10x1	14	14	24.5	29.0	10.5	19.0	13.5	4.5	5.300
SOL 51521-8	078.1500.080	330	12x1	17	17	25.5	31.5	12.5	21.0	15.0	6.5	8.100
SOL 51521-10	078.1500.100	330	14x1	19	19	28.0	33.5	14.5	21.0	15.5	8.5	10.300
SOL 51521-12	078.1500.120	330	16x1	22	22	29.5	34.5	16.5	21.0	16.0	10.5	14.100
Für Zollrohre	Pour tubes pouces			For inch tubes								
SOL 51521-6,35	078.1500.063	330	10x1	14	14	18.0	22.5	10.5	19.0	13.5	4.5	5.600
SOL 51521-9,52	078.1500.095	330	14x1	19	19	21.0	26.5	14.5	21.0	10.0	8.5	11.200

## Gerade Schottverschraubung

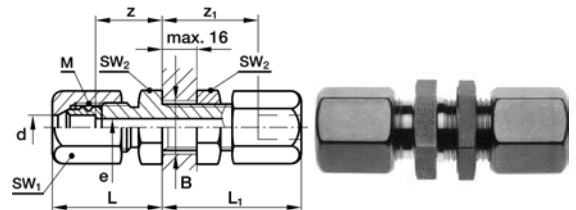
Durchführungslänge max. 16mm

## Union double pour passage de cloison

pour cloison max. 16mm

## Panel mount union

max. panel thickness 16mm

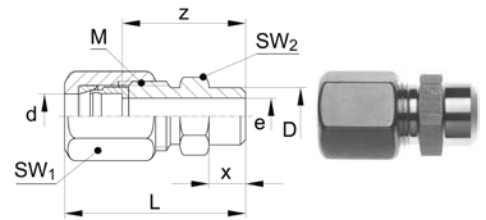
**SOL 51524**


Type-d	Mat.-Nr.	bar	M	SW1	SW2	L	L1	B	z1	z	e	kg/100
Für metrische Rohre	Pour tubes métriques			For metric tubes								
SOL 51524-16	078.1540.160	200	24x1.5	30	30	28.0	53.0	24.5	34.5	19.5	15.0	36.000
SOL 51524-18	078.1540.180	200	24x1.5	30	30	27.0	52.0	24.5	34.5	19.5	15.0	34.200

## Anschweissverschraubung

### Union avec embout à souder

### Weld-on union



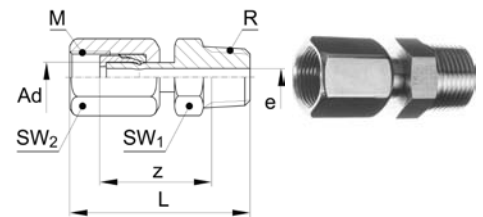
### SOL 51429

Type -d	Mat.-Nr.	bar	M	SW1	SW2	L	D	x	z	e	kg/100
Für metrische Rohre	Pour tubes métriques		For metric tubes								
SOL 51429-6	078.1400.060	400	10 x 1	14	10	31.0	9.8	8.0	21.0	4.5	2.500
SOL 51429-8	078.1400.080	330	12 x 1	17	12	32.5	11.8	8.0	22.0	6.5	3.700
SOL 51429-10	078.1400.100	330	14 x 1	19	14	35.5	13.8	8.0	23.0	8.5	4.800
SOL 51429-12	078.1400.120	330	16 x 1	22	17	37.5	16.0	8.0	24.0	10.5	6.700
SOL 51429-15	078.1400.150	250	20 x 1.5	27	22	44.5	19.0	10.0	29.5	13.0	11.600
SOL 51429-16	078.1400.160	200	24 x 1.5	30	24	50.0	22.0	11.0	31.5	15.0	17.100
SOL 51429-18	078.1400.180	200	24 x 1.5	30	24	49.0	22.0	11.0	31.5	15.0	15.600
Für Zollrohre	Pour tubes pouces		For inch tubes								
SOL 51429-6,35	078.1400.063	330	10 x 1	14	10	30.0	9.8	8.0	21.0	4.5	2.600
SOL 51429-9,52	078.1400.095	330	14 x 1	19	14	34.0	13.8	8.0	23.0	8.5	5.100
SOL 51429-12,7	078.1400.127	250	20 x 1.5	27	22	41.0	16.0	10.0	29.5	13.0	12.600

## Einstellnippel vormontiert

### Embout orientable mâle montée

### Adjustable male adaptor assembly



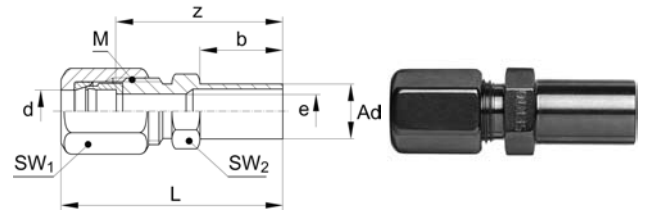
### SOL 51625

Type -d-R	Mat.-Nr.	bar	M	SW1	SW2	L	z	e	kg/100
Für metrische Rohre	Pour tubes métriques		For metric tubes						
R=Rohrgewinde (kegelig)	R=Filetage-gaz BSP (conique)		R=BSP thread (tapered)						
SOL 51625-A6-1/8	078.1620.100	400	10 x 1	12	14	27.2	23.0	4.0	2.600
SOL 51625-A6-1/4	078.1620.110	400	10 x 1	14	14	32.2	26.2	4.0	3.350
SOL 51625-A8-1/8	078.1620.160	330	12 x 1	12	17	29.0	25.0	6.0	3.160
SOL 51625-A8-1/4	078.1620.170	330	12 x 1	14	17	33.0	27.0	6.0	4.160
SOL 51625-A10-1/4	078.1620.270	330	14 x 1	14	19	35.2	29.2	8.0	4.760
SOL 51625-A10-3/8	078.1620.280	330	14 x 1	17	19	35.2	28.8	8.0	6.470
SOL 51625-A10-1/2	078.1620.285	330	14 x 1	22	19	40.2	32.2	8.0	9.200
SOL 51625-A12-1/4	078.1620.380	330	16 x 1	14	22	37.2	30.8	8.0	5.790
SOL 51625-A12-3/8	078.1620.390	330	16 x 1	17	22	37.2	31.2	9.0	7.290
SOL 51625-A12-1/2	078.1620.400	330	16 x 1	22	22	42.2	34.0	9.0	9.680
SOL 51625-A15-1/2	078.1620.534	250	20 x 1.5	22	27	45.4	37.2	12.0	12.750

## Reduktionsverschraubung

### Réduction

### Reduction



## SOL 51821

Type -Ad -d	Mat.-Nr.	bar	M	SW1	SW2	L	b	z	e	kg/100
Für metrische Rohre	Pour tubes métriques									
SOL 51821-A10-6	078.1800.175	330	10 x 1	14	12	39.5	16.0	29.5	4.5	2.530
SOL 51821-A12-8	078.1800.225	330	12 x 1	17	14	44.0	18.0	33.5	6.5	4.060
SOL 51821-A15-10	078.1800.410	250	14 x 1	19	17	48.5	20.0	36.0	8.5	5.430
SOL 51821-A18-12	078.1800.580	200	16 x 1	22	19	53.5	23.0	40.0	10.5	7.470
SOL 51821-A22-15	078.1800.745	200	20 x 1.5	27	24	58.5	25.0	43.5	13.0	12.010

Die entsprechende Stützhülse SO 50003 ist immer separat zu bestellen.

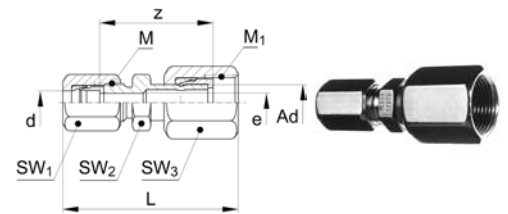
Les douilles d'appui SO 50003 correspondants sont à commander séparément.

The relevant stiffener sleeve SO 50003 must always be ordered separately.

## Reduktion vormontiert

### Réduction montée

### Reduction assembly



## SOL 51825

Type -Ad -d	Mat.-Nr.	bar	M	M1	SW1	SW2	SW3	L	z	e	kg/100
Für metrische Rohre	Pour tubes métriques										
SOL 51825-A10-6	078.1820.175	330	10 x 1	14 x 1	14	12	19	40.5	30.5	4.5	4.310
SOL 51825-A12-8	078.1820.225	330	12 x 1	16 x 1	17	14	22	45.0	34.5	6.5	6.270
SOL 51825-A15-10	078.1820.410	250	14 x 1	20 x 1.5	19	17	27	50.0	37.5	8.5	9.640
SOL 51825-A18-12	078.1820.580	200	16 x 1	24 x 1.5	22	19	30	55.0	41.5	10.5	12.520

d=Rohraussen- $\varnothing$   
Ad=Aussen- $\varnothing$  der Andrehung  
e=kleinste Bohrung  
L=Mass in montiertem Zustand

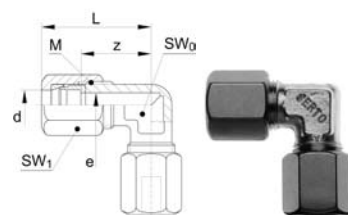
d= $\varnothing$  extérieur du tube  
Ad= $\varnothing$  extérieur de la portée cylindrique  
e= $\varnothing$ -min. de passage  
L=après montage

d=tube outside diameter  
Ad=outside diameter of cyl. Stub  
e=minimum bore  
L=installed length

## Winkelverschraubung

### Coude

### Elbow union



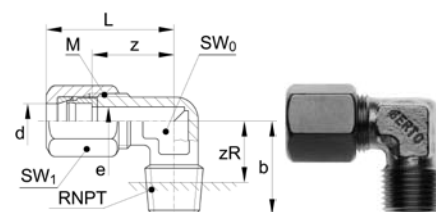
#### SOL 52021

Type -d	Mat.-Nr.	bar	M	SW0	SW1	L	z	e	kg/100
Für metrische Rohre	Pour tubes métriques	For metric tubes							
SOL 52021-6	078.2000.060	400	10 x 1	9	14	27.0	16.0	4.5	4.450
SOL 52021-8	078.2000.080	330	12 x 1	10	17	28.5	18.0	6.5	6.640
SOL 52021-10	078.2000.100	330	14 x 1	12	19	33.0	20.5	8.5	8.880
SOL 52021-12	078.2000.120	330	16 x 1	14	22	35.0	21.5	9.5	12.310
SOL 52021-15	078.2000.150	250	20 x 1.5	17	27	39.5	24.5	13.0	20.210
SOL 52021-16	078.2000.160	200	24 x 1.5	22	30	45.0	26.5	15.0	28.900
SOL 52021-18	078.2000.180	200	24 x 1.5	22	30	44.0	26.5	15.0	26.550
Für Zollrohre	Pour tubes pouces	For inch tubes							
SOL 52021-6,35	078.2000.063	330	10 x 1	9	14	25.0	16.0	4.5	4.600
SOL 52021-9,52	078.2000.095	330	14 x 1	12	19	31.5	20.5	8.5	9.500
SOL 52021-12,7	078.2000.127	250	20 x 1.5	17	27	31.0	24.5	13.0	22.100

## Winkel-Einschraubverschraubung

### Coude mâle

### Male adaptor elbow union



#### SOL 52421

Type -d-R	Mat.-Nr.	bar	M	SW0	SW1	L	b	zR	z	e	kg/100
Für metrische Rohre	Pour tubes métriques	For metric tubes									
R=Rohrgewinde (kegelig)	R=Filetage-gaz BSP (conique)	R=BSP thread (tapered)									
SOL 52421-6-1/8	078.2401.100	400	10 x 1	9	14	26.0	17.5	13.5	16.0	4.5	2.900
SOL 52421-6-1/4	078.2401.110	400	10 x 1	10	14	28.0	22.5	18.5	18.0	4.5	4.200
SOL 52421-8-1/8	078.2401.160	330	12 x 1	10	17	28.5	18.0	14.0	18.0	6.0	4.000
SOL 52421-8-1/4	078.2401.170	330	12 x 1	10	17	28.5	22.5	18.5	18.0	6.5	4.700
SOL 52421-8-3/8	078.2401.180	330	12 x 1	14	17	32.5	26.0	19.6	22.0	8.5	6.800
SOL 52421-10-1/4	078.2401.270	330	14 x 1	12	19	33.0	25.0	19.0	20.5	8.5	5.700
SOL 52421-12-1/4	078.2401.380	330	16 x 1	14	22	35.0	25.3	18.9	21.5	8.5	7.500
SOL 52421-12-3/8	078.2401.390	330	16 x 1	14	22	35.0	26.0	19.6	21.5	10.5	8.300
SOL 52421-15-1/2	078.2401.534	250	20 x 1.5	17	27	39.5	29.5	21.3	24.5	13.0	13.300
Für Zollrohre	Pour tubes pouces	For inch tubes									
SOL 52421-6,35-1/8	078.2401.135	400	10 x 1	9	14	25.0	17.5	13.5	16.0	4.5	3.000
SOL 52421-6,35-1/4	078.2401.140	400	10 x 1	10	14	27.0	22.5	18.5	18.0	4.5	4.100
SOL 52421-9,52-1/4	078.2401.230	330	14 x 1	12	19	31.5	25.0	19.0	20.5	8.5	3.900
SOL 52421-12,7-1/2	078.2401.434	250	20 x 1.5	17	27	36.0	29.5	21.5	24.5	13.0	14.500

d=Rohrøussen-ø  
e=kleinste Bohrung  
L=Mass in montiertem Zustand

d=ø extérieur du tube  
e=ø-min. de passage  
L=après montage

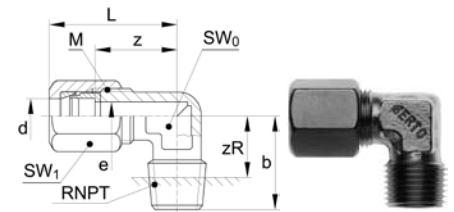
d=tube outside diameter  
e=minimum bore  
L=installed length

5L

# Winkel Einschraubverschraubung NPT

## Coude mâle NPT

### Male adaptor elbow union NPT

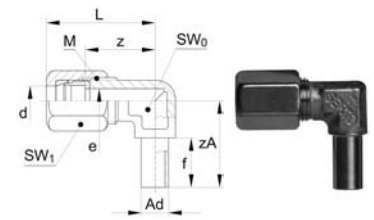


## SOL 52421 NPT

Type -d -RNPT	Mat.-Nr.	bar	M	SW0	SW1	L	b	zR	z	e	kg/100
Für metrische Rohre RNPT=NPT Gewinde	Pour tubes métriques RNPT=Filetage NPT	For metric tubes RNPT=NPT thread									
SOL 52421-6-1/8 NPT	078.2402.100	400	10 x 1	9	14	26.0	17.5	13.5	16.0	4.5	1.900
SOL 52421-8-1/4 NPT	078.2402.170	330	12 x 1	10	17	28.5	22.5	18.5	18.0	6.5	3.300
SOL 52421-10-1/4 NPT	078.2402.270	330	14 x 1	12	19	33.0	25.0	19.2	20.5	8.5	4.200
SOL 52421-12-3/8 NPT	078.2402.390	330	16 x 1	14	22	35.0	26.0	20.0	21.5	10.5	5.700
SOL 52421-15-1/2 NPT	078.2402.534	250	20 x 1.5	17	27	39.5	29.5	21.3	24.5	13.0	10.200
Für Zollrohre	Pour tubes pouces	For inch tubes									
SOL 52421-6,35-1/8 NPT	078.2402.135	400	10 x 1	9	14	25.0	17.5	13.5	16.0	4.5	3.000
SOL 52421-9,52-1/4 NPT	078.2402.230	330	14 x 1	12	19	31.5	25.0	19.0	20.5	8.5	6.200
SOL 52421-12,7-1/2 NPT	078.2402.434	250	20 x 1.5	17	27	36.0	29.5	21.5	24.5	13.0	14.900



## Einstellwinkel Coude orientable Adjustable elbow union



### SOL 52621

Type -d -Ad	Mat.-Nr.	bar	M	SW0	SW1	L	f	zA	z	e	kg/100
Für metrische Rohre	Pour tubes métriques			For metric tubes							
SOL 52621-6-A6	078.2600.060	400	10 x 1	9	14	26.0	12.5	18.0	16.0	4.0	2.570
SOL 52621-8-A8	078.2600.080	330	12 x 1	10	17	28.5	15.0	23.0	18.0	6.0	3.880
SOL 52621-10-A10	078.2600.100	330	14 x 1	12	19	33.0	17.0	25.5	20.5	8.0	5.370
SOL 52621-12-A12	078.2600.120	330	16 x 1	14	22	35.0	18.0	26.5	21.5	9.0	7.890
SOL 52621-15-A15	078.2600.150	250	20 x 1.5	17	27	39.5	19.5	30.0	24.5	12.4	13.450

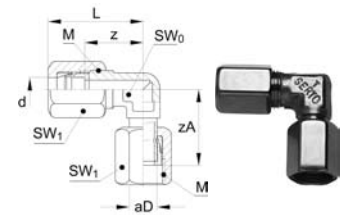
Für Zollrohre	Pour tubes pouces			For inch tubes							
SOL 52621-6,35-A6	078.2600.067	400	10 x 1	9	14	27.0	12.5	18.0	16.0	4.0	4.600

Die entsprechende Stützhülse SO 50003 ist immer separat zu bestellen.

Les douilles d'appui SO 50003 correspondants sont à commander séparément.

The relevant stiffener sleeve SO 50003 must always be ordered separately.

## Einstellwinkel vormontiert Coude orientable monté Adjustable elbow assembly



### SOL 52625

Type -d -Ad	Mat.-Nr.	bar	M	SW0	SW1	L	zA	z	e	kg/100	
Für metrische Rohre	Pour tubes métriques			For metric tubes							
SOL 52625-6-A6	078.2620.060	400	10 x 1	9	14	26.0	19.0	16.0	4.0	4.220	
SOL 52625-8-A8	078.2620.080	330	12 x 1	10	17	28.5	24.0	18.0	6.0	6.380	
SOL 52625-10-A10	078.2620.100	330	14 x 1	12	19	33.0	26.5	20.5	8.0	8.640	
SOL 52625-12-A12	078.2620.120	330	16 x 1	14	22	35.0	27.5	21.5	9.0	12.060	
SOL 52625-15-A15	078.2620.150	250	20 x 1.5	17	27	39.5	31.5	24.5	12.4	15.340	

5L

d=Rohraussen- $\emptyset$   
Ad=Aussen- $\emptyset$  der Andrehung  
e=kleinste Bohrung  
L=Mass in montiertem Zustand

d= $\emptyset$  extérieur du tube  
Ad= $\emptyset$  extérieur de la portée cylindrique  
e= $\emptyset$ -min. de passage  
L=après montage

d=tube outside diameter  
Ad=outside  $\emptyset$  of cyl. stub  
e=minimum bore  
L=installed length

## Winkel-Schottverschraubung

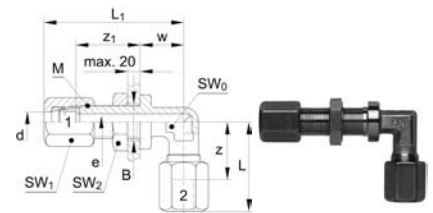
Durchführungslänge max. 20 mm

## Union double pour passage de cloison

pour cloison max 20 mm

## Panel mount union

max. panel thickness 20 mm



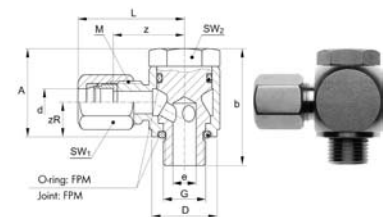
### SOL 52721

Type -d	Mat.-Nr.	bar	M	SW0	SW1	SW2	L	L1	W	z1	z	e	kg/100
Für metrische Rohre	Pour tubes métriques			For metric tubes									
SOL 52721-6	078.2700.060	400	10 x 1	12	14	14	29.0	59.0	13.0	49.0	19.0	4.5	6.980
SOL 52721-8	078.2700.080	330	12 x 1	12	17	17	29.5	59.5	13.0	49.0	19.0	5.5	9.450
SOL 52721-10	078.2700.100	330	14 x 1	12	19	19	35.5	65.5	17.0	53.0	23.0	7.5	12.350
SOL 52721-12	078.2700.120	330	16 x 1	14	22	22	37.5	67.5	17.0	54.0	24.0	8.5	17.060
SOL 52721-15	078.2700.150	250	20 x	19	27	27	44.5	78.5	20.0	63.5	29.5	13.0	28.600
SOL 52721-16	078.2700.160	250	24 x	24	30	30	52.0	83.0	22.0	64.5	33.5	15.0	30.600
SOL 52721-18	078.2700.180	200	24 x	24	30	30	51.0	82.0	22.0	64.5	33.5	15.0	29.700
Für Zollrohre	Pour tubes pouces			For inch tubes									
SOL 52721-6,35	078.2700.063	400	10 x 1	12	14	14	28.0	58.0	13.0	36.0	19.0	4.5	7.300
SOL 52721-9,52	078.2700.095	330	14 x 1	12	19	19	34.0	64.0	17.0	36.0	23.0	7.5	13.800
SOL 52721-12,7	078.2700.127	250	20 x	19	27	27	41.0	75.0	23.0	40.5	29.5	13.0	31.800

## Schwenkverschraubung

## Coude banjo

## Single banjo



### SOL 52824

Type -d-G	Mat.-Nr.	bar	M	SW1	SW2	L	A	b	D	z	e	kg/100	
Für metrische Rohre	Pour tubes métriques			For metric tubes									
G=Rohrgewinde (zylindrisch)	G=Filetage-gaz BSP (cylindrique)			G=BSP thread (straight)									
SOL 52824-6-1/8	078.2841.100	400	10 x 1	14	14	28.0	23.0	31.0	17.0	18.0	4.5	6.280	
SOL 52824-8-1/8	078.2841.160	330	12 x 1	17	14	29.5	23.0	31.0	17.8	19.0	4.5	8.190	
SOL 52824-8-1/4	078.2841.170	330	12 x 1	17	19	31.0	27.5	38.0	20.5	20.5	7.0	10.330	
SOL 52824-10-1/4	078.2841.270	330	14 x 1	19	19	33.0	27.5	38.0	20.5	20.5	7.0	13.190	
SOL 52824-12-3/8	078.2841.390	330	16 x 1	22	24	37.5	37.0	49.0	26.0	24.0	9.0	24.060	
SOL 52824-15-1/2	078.2841.534	250	20 x 1.5	27	27	43.5	43.5	57.0	31.5	28.5	12.0	38.510	
SOL 52824-16-1/2	078.2841.566	200	24 x 1.5	30	27	48.5	42.0	57.0	31.5	28.5	12.0	40.000	
SOL 52824-18-1/2	078.2841.646	200	24 x 1.5	30	27	48.5	42.0	57.0	31.5	28.5	12.0	40.000	
Für Zollrohre	Pour tubes pouces			For inch tubes									
SOL 52824-6,35-1/8	078.2841.135	400	10 x 1	14	14	27.0	21.0	31.0	17.0	18.0	4.5	2.200	
SOL 52824-9,52-1/4	078.2841.230	330	14 x 1	19	19	31.5	27.0	38.0	20.5	20.5	7.0	4.600	
SOL 52824-12,7-1/2	078.2841.434	330	20 x 1.5	27	27	40.0	41.5	57.0	31.5	28.5	12.0	25.600	

d=Rohrøussen-ø  
e=kleinste Bohrung  
L=Mass in montiertem Zustand

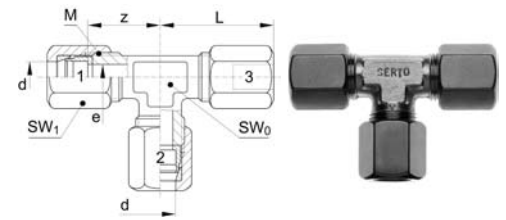
d=ø extérieur du tube  
e=ø-min. de passage  
L=après montage

d=tube outside diameter  
e=minimum bore  
L=installed length

## T-Verschraubung

### Té

### Tee union



## SOL 53021

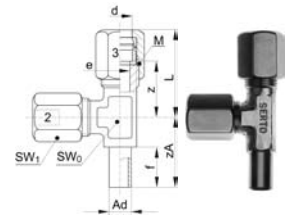
Type -d	Mat.-Nr.	bar	M	SW0	SW1	L	z	e	kg/100
Für metrische Rohre	Pour tubes métriques			For metric tubes					
SOL 53021-6	078.3000.060	400	10 x 1	9	14	26.0	16.0	4.5	6.500
SOL 53021-8	078.3000.080	330	12 x 1	10	17	28.5	18.0	6.5	9.600
SOL 53021-10	078.3000.100	330	14 x 1	12	19	33.0	20.5	8.5	12.900
SOL 53021-12	078.3000.120	330	16 x 1	14	22	35.0	21.5	9.5	17.800
SOL 53021-15	078.3000.150	250	20 x 1.5	17	27	39.5	24.5	13.0	29.600
SOL 53021-16	078.3000.160	200	24 x 1.5	22	30	45.0	26.5	15.0	40.800
SOL 53021-18	078.3000.180	200	24 x 1.5	22	30	44.0	26.5	15.0	38.100
Für Zollrohre	Pour tubes pouces			For inch tubes					
SOL 53021-6,35	078.3000.063	400	10 x 1	9	14	25.0	16.0	4.5	6.800
SOL 53021-9,52	078.3000.095	330	14 x 1	12	19	31.5	20.5	8.5	13.900
SOL 53021-12,7	078.3000.127	250	20 x 1.5	17	27	36.0	24.5	13.0	32.400

## L-Verschraubung

mit Einstellzapfen

### L orientable

### Adjustable L union



## SOL 53621 L

Type -d -Ad -d1	Mat.-Nr.	bar	M	SW0	SW1	L	f	zA	z	e	kg/100
Für metrische Rohre	Pour tubes métriques			For metric tubes							
SOL 53621-A6-6-6	078.3610.060	400	10 x 1	9	14	26.0	12.5	18.0	16.0	4.0	4.750
SOL 53621-A8-8-8	078.3610.080	330	12 x 1	10	17	28.5	15.0	23.0	18.0	6.0	6.920
SOL 53621-A10-10-10	078.3610.100	330	14 x 1	12	19	32.0	17.0	25.5	20.5	7.5	9.400

Die entsprechende Stützhülse SO 50003 ist immer separat zu bestellen.

Les douilles d'appui SO 50003 correspondants sont à commander séparément.

The relevant stiffener sleeve SO 50003 must always be ordered separately.

d=Rohraussen- $\varnothing$   
Ad=Aussen- $\varnothing$  der Andrehung  
e= kleinste Bohrung  
L= Mass in montiertem Zustand

d= $\varnothing$  extérieur du tube  
Ad= $\varnothing$  extérieur de la portée cylindrique  
e= $\varnothing$ -min. de passage  
L=après montage

d=tube outside diameter  
Ad=outside  $\varnothing$  of cyl. stub  
e=minimum bore  
L=installed length

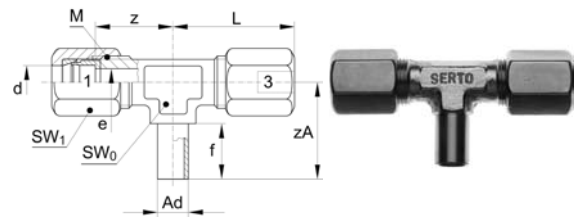
# T-Verschraubung

mit Einstellzapfen

## Té orientable

## Adjustable Tee union

### SOL 53621 T



Type -d -Ad -d1	Mat.-Nr.	bar	M	SW0	SW1	L	zA	z	e	kg/100
Für metrische Rohre	Pour tubes métriques	For metric tubes								
SOL 53621-6-A6-6	078.3600.060	400	10 x 1	9	14	26.0	18.0	16.0	4.0	4.750
SOL 53621-8-A8-8	078.3600.080	330	12 x 1	10	17	28.5	23.0	18.0	6.0	6.920
SOL 53621-10-A10-10	078.3600.100	330	14 x 1	12	19	32.0	25.5	20.5	7.5	9.400
Für Zollrohre	Pour tubes pouces	For inch tubes								
SOL 53621-6,35-A6-6,35	078.3600.067	400	10 x 1	9	14	25.0	18.0	16.0	4.0	4.900
SOL 53621-9,52-A10-9,52	078.3600.095	330	14 x 1	12	19	31.0	25.5	20.5	8.0	10.300

Die entsprechende Stützhülse SO 50003 ist immer separat zu bestellen.

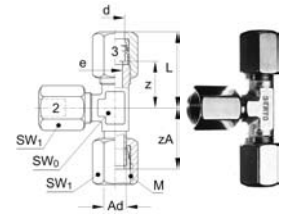
Les douilles d'appui SO 50003 correspondants sont à commander séparément.

The relevant stiffener sleeve SO 50003 must always be ordered separately.

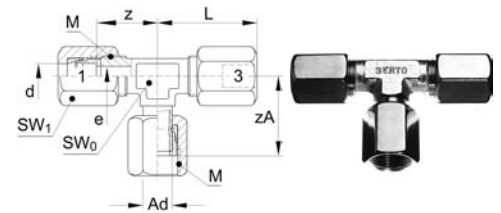
d=Rohraussen- $\emptyset$   
 Ad=Aussen- $\emptyset$  der Andrehung  
 e= kleinste Bohrung  
 L= Mass in montiertem Zustand

d= $\emptyset$  extérieur du tube  
 Ad= $\emptyset$  extérieur de la portée cylindrique  
 e=  $\emptyset$ -min. de passage  
 L=après montage

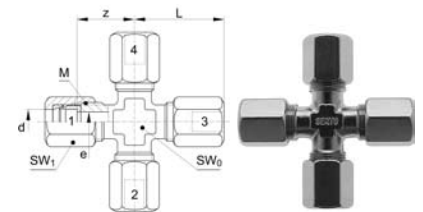
d=tube outside diameter  
 Ad=outside  $\emptyset$  of cyl. stub  
 e=minimum bore  
 L=installed length

**Einstellbare L- Verschraubung vormontiert**
**L orientable monté**
**Adjustable L assembly**

**SOL 53625 L**

Type -d1 -Ad -d3	Mat.-Nr.	bar	M	SW0	SW1	L	zA	z	e	kg/100
SOL 53625-A6-6-6	078.3630.060	400	10 x 1	9	14	26.0	19.0	16.0	4.0	6.400
SOL 53625-A8-8-8	078.3630.080	330	12 x 1	10	17	28.5	24.0	18.0	6.0	9.420
SOL 53625-A10-10-10	078.3630.100	330	14 x 1	12	19	32.0	26.5	20.5	7.5	12.670

**Einstellbare T-Verschraubung vormontiert**
**Té orientable monté**
**Adjustable Tee assembly**

**SOL 53625 T**

Type -d1 -Ad -d3	Mat.-Nr.	bar	M	SW0	SW1	L	zA	z	e	kg/100
SOL 53625-6-A6-6	078.3620.060	400	10 x 1	9	14	26.0	19.0	16.0	4.0	6.400
SOL 53625-8-A8-8	078.3620.080	330	12 x 1	10	17	28.5	24.0	18.0	6.0	9.420
SOL 53625-10-A10-10	078.3620.100	330	14 x 1	12	19	32.0	26.5	20.5	7.5	12.670

**Kreuzverschraubung**
**Croix**
**Cross union**

**SOL 54021**

Type -d	Mat.-Nr.	bar	M	SW0	SW1	L	z	e	kg/100
Für metrische Rohre	Pour tubes métriques	For metric tubes							
SOL 54021-6	078.4000.060	400	10 x 1	12	14	27.5	17.5	4.5	8.900
SOL 54021-8	078.4000.080	330	12 x 1	12	17	29.5	19.0	6.5	13.200
SOL 54021-10	078.4000.100	330	14 x 1	17	19	35.5	23.0	8.5	17.300
SOL 54021-12	078.4000.120	330	16 x 1	17	22	38.5	25.0	9.5	23.400
SOL 54021-15	078.4000.150	250	20 x 1.5	19	27	41.5	26.5	13.0	39.100

Für Zollrohre

Pour tubes pouces

For inch tubes

SOL 54021-6,35	078.4000.063	400	10 x 1	12	14	26.5	17.5	4.5	9.700
SOL 54021-9,52	078.4000.095	330	14 x 1	17	19	34.0	23.0	8.5	10.000
SOL 54021-12,7	078.4000.127	250	20 x 1.5	19	27	38.0	26.5	13.0	19.200

d=Rohrassen-ø  
 Ad=Aussen-ø der Andrehung  
 e=kleinste Bohrung  
 L=Mass in montiertem Zustand

d=ø extérieur du tube  
 Ad=ø extérieur de la portée cylindrique  
 e=ø-min. de passage  
 L=après montage

d=tube outside diameter  
 Ad=outside ø of cyl. stub  
 e=minimum bore  
 L=installed length