FRITSCHE
GmbH & Co.KG

QZV DIN EN ISO 14001 zertifiziert
QZV DIN EN ISO 9001 zertifiziert



Lubrication couplings and tubing



Fritsche GmbH & Co. KG
Eichenhöhe 4-5
21255 Kakenstorf Germany

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Fax +49 (0) 41 86 - 88 82 999
www.centrallubrication.com

Version 2013-05

Preamble

Dear customers,

we're a worldwide operating company
specialized in

fittings and hose cables
type LL for lubrication technologies

On the following pages you can get an overview about our product range.
Of course we deliver apart from our standard-range more fittings and
hose cables in other sizes and materials.

We produce from samples or graph as well

Kind Regards

Your Fritsche Team


QZV

Verein zur Qualitätssicherung und Zertifizierung
für den Mittelstand e.V.

QZV DIN EN ISO 14001:2005

ZERTIFIKAT

Der Verein zur Qualitätssicherung und Zertifizierung für den Mittelstand e.V.
bescheinigt, dass das Unternehmen

Fritsche GmbH & Co. KG
Eichenhöhe 4-5
21255 Kakenstorf

ein Umweltschutz-Management-System entsprechend der DIN EN ISO 14001:2005 eingerichtet hat und unterhält. Der Nachweis wurde in einer Umwelt-Betriebsprüfung erbracht.

Prüf-Bericht Nr.: 03615989

erstellt durch: Prof. Dr. Bernd Schulz, Professor an der Hochschule München

Dieses Zertifikat wurde ausgestellt am: 24.04.2009 und gilt bis zum: 23.04.2012
Zertifikat -Register Nr.: 03615989

für den QZV: Prof. Dr.-Ing. Deubler, Professor an der Hochschule München

QZV e.V. Schlierseestr. 46, 81539 München
Akkreditierungsnummer 33050109 (AACI e.V.)

AACI


QZV

Verein zur Qualitätssicherung und Zertifizierung
für den Mittelstand e.V.

QZV DIN EN ISO 9001:2008

ZERTIFIKAT

Der Verein zur Qualitätssicherung und Zertifizierung für den Mittelstand e.V.
bescheinigt, dass das Unternehmen

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Eichenhöhe 4-5
21255 Kakenstorf

ein Qualitätsmanagement-System entsprechend der DIN EN ISO 9001:2008 eingerichtet hat und unterhält.
Der Nachweis wurde in einem Audit erbracht.

Prüf-Bericht Nr.: 03225989

erstellt durch: Prof. Dr. Bernd Schulz, Professor an der Hochschule München

Dieses Zertifikat wurde ausgestellt am: 24.04.2009 und gilt bis zum: 23.04.2012
Zertifikat -Register Nr.: 03125989

für den QZV: Prof. Dr.-Ing. Deubler, Professor an der Hochschule München

QZV e.V. Schlierseestr. 46, 81539 München
Akkreditierungsnummer 33050109 (AACI e.V.)

AACI

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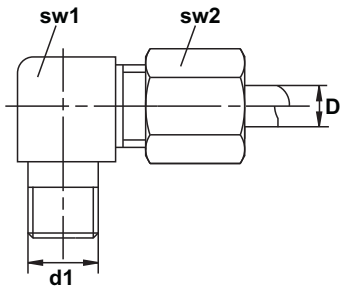
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Elbow screw fitting DIN 2353 / ISO 8434-1





c.-item no	item no.	D	d1	sw1	sw2
	104 - 101	4	M 6 x 1 tap	9	10
	104 - 102	4	M 8 x 1 tap	9	10
	104 - 103	4	M 10 x 1 tap	9	10
	104 - 104	4	R 1/8 BSP tap	9	10
	106 - 101	6	M 6 x 1 tap	11	12
	106 - 101 - VA*	6	M 6 x 1 tap	11	12
	106 - 102	6	M 8 x 1 tap	11	12
	106 - 102 - VA*	6	M 8 x 1 tap	11	12
	106 - 103	6	M 10 x 1 tap	11	12
	106 - 103 - VA*	6	M 10 x 1 tap	11	12
	106 - 104	6	R 1/8 BSP tap	11	12
	106 - 104 - VA*	6	R 1/8 BSP tap	11	12
	106 - 105 - L	6	R 1/4 BSP tap	12	14

Material: steel, galvanized surface

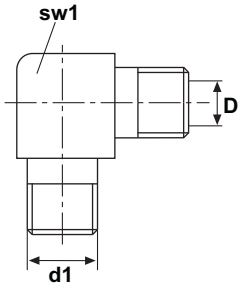
* Material: stainless steel 1.4571/316ti

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Elbow connectors screw type / body





c.-item no	item no.	D	d1	sw1
	104 - 131	4	M 6 x 1 tap	9
	104 - 132	4	M 8 x 1 tap	9
	104 - 133	4	M 10 x 1 tap	11
	104 - 134	4	R 1/8 BSP tap	11
	106 - 131	6	M 6 x 1 tap	11
	106 - 132	6	M 8 x 1 tap	11
	106 - 133	6	M 10 x 1 tap	11
	106 - 134	6	R 1/8 BSP tap	11

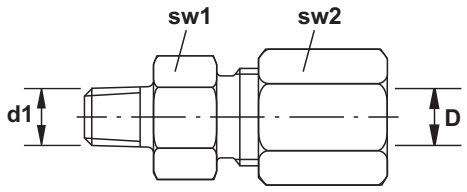
Material: steel, galvanized surface

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Straight screwel coupling





c.-item no	item no.	D	d1	sw1	sw2
	104 - 001	4	M 6 x 1 tap	9	10
	104 - 002	4	M 8 x 1 tap	9	10
	104 - 003	4	M 10 x 1 tap	11	10
	104 - 004	4	R 1/8 BSP tap	11	10
	106 - 001	6	M 6 x 1 tap	11	12
	106 - 001 - VA*	6	M 6 x 1 tap	11	12
	106 - 002	6	M 8 x 1 tap	11	12
	106 - 002 - VA*	6	M 8 x 1 tap	11	12
	106 - 003	6	M 10 x 1 tap	11	12
	106 - 003 - VA *	6	M 10 x 1 tap	11	12
	106 - 004	6	R 1/8 BSP tap	11	12
	106 - 004 - VA*	6	R 1/8 BSP tap	11	12
	106 - 005 - L	6	R 1/4 BSP tap	12	14
	108 - 001	8	M 6 x 1 tap	14	14
	108 - 002	8	M 8 x 1 tap	14	14
	108 - 003	8	M 10 x 1 tap	14	14
	108 - 004	8	R 1/8 BSP tap	14	14

Material: steel, galvanized surface

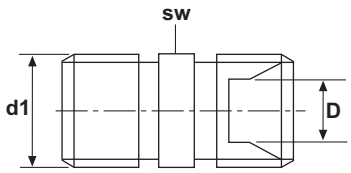
* Material: stainless steel 1.4571/316ti

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Straight connector type / body





c.-item no	item no.	d1	D	sw
	104 - 031	M 6 x 1 tap	4	9
	104 - 032	M 8 x 1 tap	4	9
	104 - 033	M 10 x 1 tap	4	11
	104 - 034	R 1/8 BSP tap	4	11
	106 - 031	M 6 x 1 tap	6	11
	106 - 032	M 8 x 1 tap	6	11
	106 - 033	M 10 x 1 tap	6	11
	106 - 034	R 1/8 BSP tap	6	11

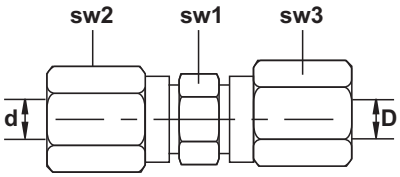
Material: steel, galvanized surface

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Connector



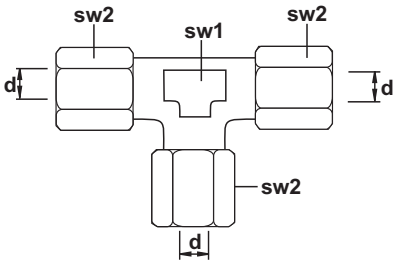


c.-item no	item no.	d	D	sw1	sw2	sw3
	104 - 000	4	4	9	10	10
	104 - 000 - VA *	4	4	9	10	10
	104 - 000 - 6	4	6	11	10	12
	106 - 000	6	6	11	12	12
	106 - 000 - VA *	6	6	11	12	12
	106 - 000 - 8	6	8	12	12	14
	106 - 000 - 10 - L	6	10	17	14	19
	108 - 000	8	8	12	14	14
	108 - 000 - L	8	8	14	17	17
	108 - 000 - VA - L *	8	8	14	17	17
	110 - 000 - L	10	10	17	19	19
	110 - 000 - VA - L *	10	10	17	19	19

Material: steel, galvanized surface

* Material: stainless steel 1.4571/316ti

Equal tee





c.-item no	item no.	d	sw1	sw2
	104 - 300	4	9	10
	106 - 300	6	11	12
	106 - 300 - L	6	12	14
	108 - 300	8	12	14

Material: steel, galvanized surface

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Nonreturn valve / body

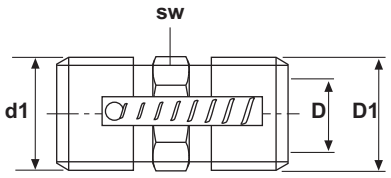




Abb. 1 Abb. 2 Abb. 3

c.-item no	item no.	d1	D	D1	sw
	106 - 033 - RVB Abb. 1	M 10 x 1	6	M 10 x 1	11
	106 - 033 - RV L * Abb. 2	M 10 x 1	6	M 10 x 1	11
	106 - 033 - RVV Abb. 3	M 10 x 1 tap	6	M 10 x 1	11
	106 - 033 - RVV - VA ** Abb. 3	M 10 x 1 tap	6	M 10 x 1	11

Material: steel, galvanized surface * black ** Material: stainless steel 1.4571/316ti

Nonreturn valve complete with coupling nut and cutting ring

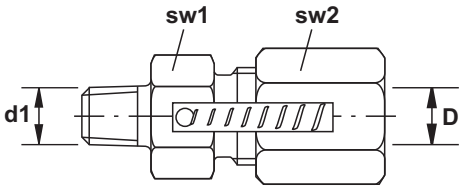




Abb. 1 Abb. 2 Abb. 3

c.-item no	item no.	d1	D	sw1	sw2
	106 - 003 - RVB Abb. 1	M 10 x 1	6	11	12
	106 - 003 - RV L * Abb. 2	M 10 x 1	6	11	12
	106 - 003 - RVV Abb. 3	M 10 x 1 tap	6	11	12
	106 - 003 - RVV - VA ** Abb. 3	M 10 x 1 tap	6	11	12

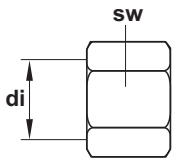
Material: steel, galvanized surface * black ** Material: stainless steel 1.4571/316ti

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Coupling nut



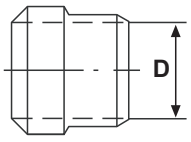


c.-item no	item no.	di	sw
	104 - 200	4	10
	106 - 200	6	12
	106 - 200 - VA*	6	12
	106 - 200 - SW black	6	12
	108 - 200	8	14
	110 - 200 - L	10	19

Material: steel, galvanized surface

* Material: stainless steel 1.4571 / 316ti

Cutting ring





c.-item no	item no.	D
	104 - 210	4
	106 - 210	6
	106 - 210 - VA*	6
	108 - 210	8
	110 - 210 - LL	10
	110 - 210 - L	10

Material: steel, galvanized surface

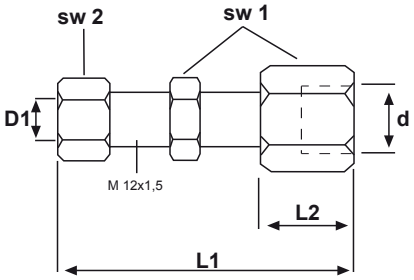
* Material: stainless steel 1.4571/316ti

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Bulkhead





c.-item no	item no.	D1	d	L1	L2	SW1	SW2
	106 - 241 - L	6	M 6 x 1	33	5	17	14
	106 - 243 - L	6	M 10 x 1	66	20	17	14
	106 - 243 - VA - L*	6	M 10 x 1	66	20	17	14

Material: steel, galvanized surface

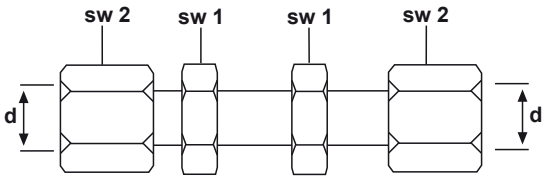
* Material: stainless steel 1.4404 / 316

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Bulkhead straight



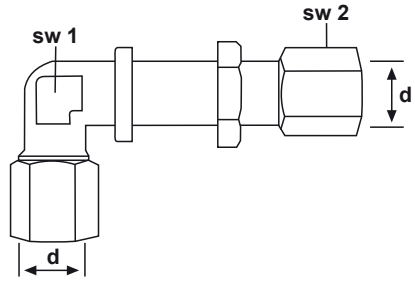


c.-item no	item no.	d	sw1	sw2
	106 - 221 - L	6	17	14
	106 - 221 - VA - L *	6	17	14
	108 - 221 - L	8	19	17
	108 - 221 - VA - L *	8	19	17

Material: steel, galvanized surface

*Material: stainless steel 1.4571/316ti

Bulkhead elbow





c.-item no	item no.	d	sw1	sw2
	106 - 231 - L	6	12	14
	106 - 231 - VA - L *	6	12	14
	108 - 231 - L	8	14	17
	108 - 231 - VA - L *	8	14	17

Material: steel, galvanized surface

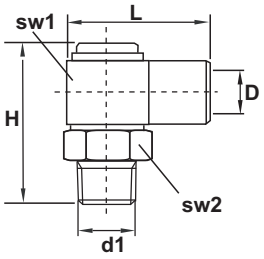
*Material: stainless steel 1.4571/316ti

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Banjo fitting freely movable, 90° angle





c.-item no	item no.	D	d1	sw1	sw2	H	L	tube Ø
	104 - 172	M 8 x 1	M 8 x 1 tap	15	14	30	26,5	4
	104 - 173	M 8 x 1	M 10 x 1 tap	15	14	30	26,5	4
	106 - 171*	M 10 x 1	M 6 x 1 tap	15	14	30	29	6
	106 - 172	M 10 x 1	M 8 x 1 tap	15	14	30	29	6
	106 - 173	M 10 x 1	M 10 x 1 tap	15	14	30	29	6
	106 - 174	M 10 x 1	R 1/8 BSP tap	15	14	30	29	6

Material: brass

*Material: brass, steel

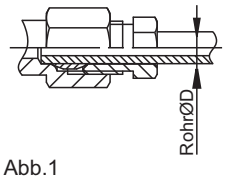


Abb.1

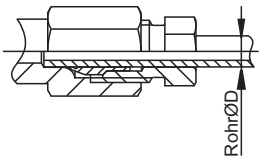
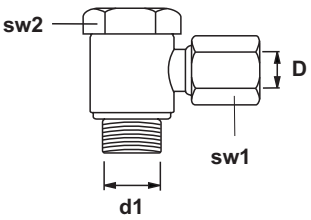


Abb.2

It's also possible to connect a lubrication line directly to a swivel joint.

Swivel union





c.-item no	item no.	D	d1	sw1	sw2
	106 - 123	6	M 10 x 1	12	14
	106 - 124	6	R 1/8	12	14

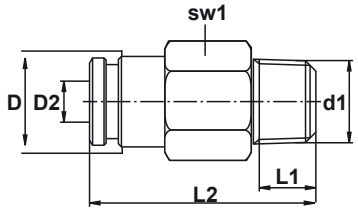
Material: steel, galvanized surface

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Push-in straight connector (for plastic tube)



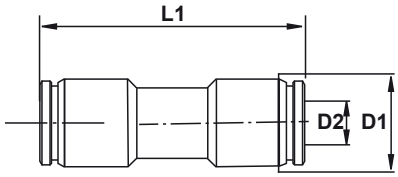


c.-item no	item no.	D	D1	D2	sw1	L1	L2
	104 - 051	9	M 6 x 1 tap	4	10	7,5	18,5
	104 - 052	9	M 8 x 1 tap	4	10	8	23
	104 - 053	9	M 10 x 1 tap	4	10	8	20
	104 - 054	9	R 1/8 BSP tap	4	11	8	20
	104 - 054 - NPT	9	1/8 NPT	4	11	8	20
	104 - 055 - UNF	9	1/4 - 28 UNF	4	11	8	20
	106 - 051	12	M 6 x 1 tap	6	12	7,5	21,5
	106 - 052	12	M 8 x 1 tap	6	12	8	25,5
	106 - 053	12	M 10 x 1 tap	6	12	8	25,5
	106 - 054	12	R 1/8 BSP tap	6	12	8	22
	106 - 054 - NPT	12	1/8 NPT	6	12	8,5	21,5
	106 - 055 -UNF	12	1/4 - 28 UNF	6	12	6	23,5

Material: plated brass

operating pressure 80 bar

Push-in connector (for plastic tube)





c.-item no	item no.	D1	D2	L1
	104 - 110	9	4	28
	106 - 110	12	6	31,5

Material: plated brass

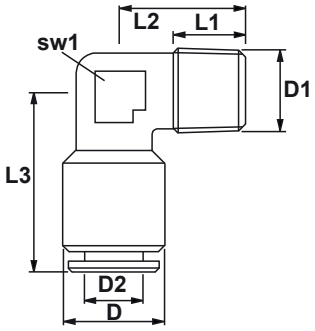
operating pressure 80 bar

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Push-in elbow-connector (for plastic tube)





c.-item no	item no.	D	D1	D2	sw1	L1	L2	L3
	104 - 151	9	M 6 x 1 tap	4	10	7,5	16,5	20
	104 - 152	9	M 8 x 1 tap	4	10	8	16,5	20
	104 - 153	9	M 10 x 1 tap	4	10	8	17	20
	104 - 154	9	R 1/8 BSP tap	4	10	8	15	20
	104 - 154 - NPT	9	1/8 NPT	4	10	8	17	20
	104 - 155 - UNF	9	1/4 - 28 UNF	4	10	8	17	20
	106 - 151	12	M 6 x 1 tap	6	10	7,5	16,5	21
	106 - 152	12	M 8 x 1 tap	6	10	8	16,5	21
	106 - 153	12	M 10 x 1 tap	6	10	8	17	21
	106 - 154	12	R 1/8 BSP tap	6	10	8	15	21
	106 - 154 - NPT	12	1/8 NPT	6	10	8	16	21
	106 - 155 - UNF	12	1/4 - 28 UNF	6	10	7	15	21

Material: plated brass

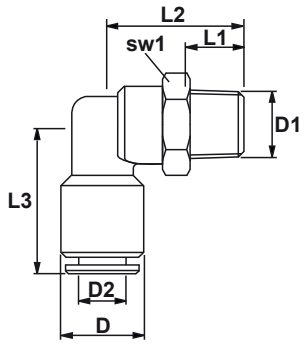
operating pressure 80 bar

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Push-in swivel freely movable connector 90° (for plastic tube)





c.-item no	item no.	D	D1	D2	sw1	L1	L2	L3
	104 - 111	9	M 6 x 1 tap	4	13	8	20,5	20
	104 - 112	9	M 8 x 1 tap	4	13	8	20,5	20
	104 - 113	9	M 10 x 1 tap	4	13	8	21,5	20
	104 - 114	9	R 1/8 BSP tap	4	13	7,5	20	20
	104 - 114 - NPT	9	1/8 NPT	4	13	8,5	21,5	
	104 - 115 - UNF	9	1/4 - 28 UNF	4	13	7	21	
	106 - 111	12	M 6 x 1 tap	6	13	8	20,5	21,5
	106 - 112	12	M 8 x 1 tap	6	13	8	20,5	21,5
	106 - 113	12	M 10 x 1 tap	6	13	8	21,5	21,5
	106 - 114	12	R 1/8 BSP tap	6	13	7,5	20,5	21,5
	106 - 114 - NPT	13	1/8 NPT	6	13	8,5	21,5	
	106 - 115 - UNF	13	1/4 - 28 UNF	6	13	7	21	

Material: plated brass

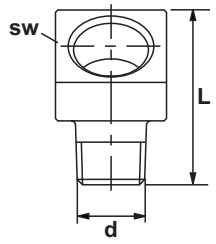
pression de service 80 bar

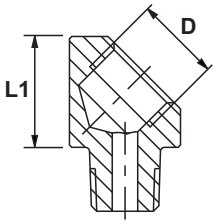
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Adapter 45°



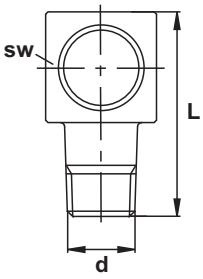


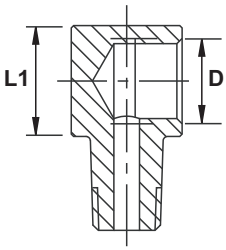


c.-item no	item no.	D	d	sw	L	L1
	100 - 822	M 8 x 1	M 8 x 1 tap	13	23	13
	100 - 823	M 8 x 1	M 10 x 1 tap	13	3	13
	100 - 833	M 10 x 1	M 10 x 1 tap	13	23	13
	100 - 844	Rp 1/8 BSP	R 1/8 BSP tap	13	23	13
	100 - 855	Rp 1/4 BSP	R 1/4 BSP tab	17	33	18

Material: steel, galvanized surface

Adapter 90°







c.-item no	item no.	D	d	sw	L	L1
	100 - 711	M 6 x 1	M 6 x 1 tap	12	23	13
	100 - 721	M 8 x 1	M 6 x 1 tap	12	23	13
	100 - 722	M 8 x 1	M 8 x 1 tap	12	23	13
	100 - 723	M 8 x 1	M 10 x 1 tap	12	23	13
	100 - 733	M 10 x 1	M 10 x 1 tap	13	23	13
	100 - 744	Rp 1/8 - BSP	R 1/8 - BSP tap	13	23	13
	100 - 724	M 8 x 1	R 1/8 - BSP tap	12	23	13
	100 - 755	Rp 1/4 BSP	R 1/4 - BSP tap	17	33	18

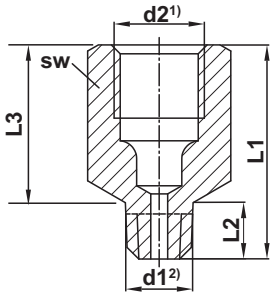
Material: steel, galvanized surface

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Adapter, extension piece



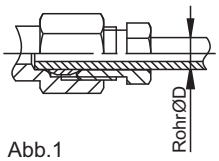


Abb.1

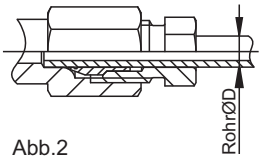


Abb.2



1) Adapter with cut for pipe union without soldering

2) Spigot screw thread of DIN 158 tap short, res. of DIN 2999

It's also possible to connect a lubrication line directly to an extension.

Material: steel, galvanized surface
* Material: stainless steel 1.4571/316ti

In the table below you will find our metric designs. The inch models are on the next page (p.19)

c.-item no	item no.	Abb.	d1	d2	L1	L2	L3	sw	tube Ø
	100 - 120	1	M 6 x 1 tap	M 8 x 1	18	8	10	11	4
	100 - 130	1	M 8 x 1 tap	M 8 x 1	18	8	10	11	4
	100 - 132	1	M 8 x 1 tap	M 8 x 1	32	22	10	11	4
	100 - 135	1	M 8 x 1 tap	M 8 x 1	62,5	52,5	10	11	4
	100 - 137	2	M 8 x 1 tap	M 10 x 1	23	12	11	13	6
	100 - 140	1	M 10 x 1 tap	M 8 x 1	18	8	10	11	4
	100 - 142	2	M 10 x 1 tap	M 10 x 1	18	7	11	13	6
	100 - 141	2	M 10 x 1 tap	M 10 x 1	23	12	11	13	6
	100 - 141 - VA*	2	M 10 x 1 tap	M 10 x 1	23	12	11	13	6
	100 - 145	2	M 10 x 1 tap	M 10 x 1	35	24	11	13	6
	100 - 143	2	M 10 x 1 tap	M 10 x 1	40	29	11	13	6
	100 - 146	2	M 10 x 1 tap	M 10 x 1	50	39	11	13	6
	100 - 151	2	R 1/8 BSP tap	M 10 x 1	18	7	11	13	6
	100 - 155	2	R 1/8 BSP tap	M 8 x 1	18	7	11	13	4
	100 - 144	2	R 1/4 BSP tap	M 10 x 1	20	9	11	17	6

Material: steel, galvanized surface
* Material: stainless steel 1.4571/316ti

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Adapter, extension piece

The following table shows our imperial (inch) designs. The metric models are on the previous page (p. 18)

c.-item no	item no.	Abb.	d1	d2	L1	L2	L3	sw	tube Ø
	100 - 151	2	R 1/8 BSP tap	M 10 x 1	18	7	11	13	6
	100 - 152	-	R 1/8 BSP tap	Rp 1/8 BSP	18	7	11	13	-
	100 - 155	2	R 1/8 BSP tap	M 8 x 1	18	7	11	13	4
	100 - 148	-	R 1/8 BSP tap	Rp 1/8 BSP	23	12	11	13	-
	100 - 148 - VA*	-	R 1/8 BSP tap	Rp 1/8 BSP	23	12	11	13	-
	100 - 156	-	R 1/8 BSP tap	Rp 1/8 BSP	30	18	12	13	-
	100 - 149	-	R 1/8 BSP tap	Rp 1/8 BSP	35	23	12	13	-
	100 - 157	-	R 1/8 BSP tap	Rp 1/8 BSP	41	29	12	13	-
	100 - 154	-	R 1/8 BSP tap	Rp 1/8 BSP	45	33	12	13	-
	100 - 153	-	R 1/8 BSP tap	Rp 1/8 BSP	50	38	12	13	-
	100 - 144	2	R 1/4 BSP tap	M 10 x 1	20	9	11	17	6
	100 - 147	-	R 1/4 BSP tap	Rp 1/8 BSP	20	9	11	17	-
	100 - 162	-	R 1/8 BSP tap	Rp 1/4 BSP	22	8	14	17	-
	100 - 160	-	R 1/4 BSP tap	Rp 3/8 BSP	27	11	16	22	-
	100 - 161	-	R 1/4 BSP tab	Rp 1/4 BSP	25	17	8	17	-
	100 - 186	-	R 1/4 BSP tab	Rp 1/4 BSP	85	71	14	17	-

Adapter - extention piece with NPT thread

c.-item no	item no.	Abb.	d1	d2	L1	L2	L3	sw	tube Ø
	100 - 182	-	1/8 NPT	1/8 NPT	20	9	11	1/2	-
	100 - 183	-	1/8 NPT	1/8 NPT	30	18	12	1/2	-
	100 - 167	-	1/4 - 28 UNF	1/8 BSP	23	12	11	1/2	-

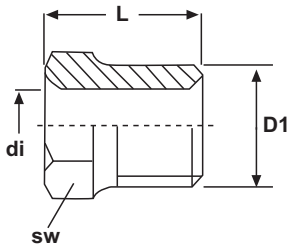
Material: steel, galvanized surface
* Material: stainless steel 1.4571/316ti

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Socket union for double cone olive



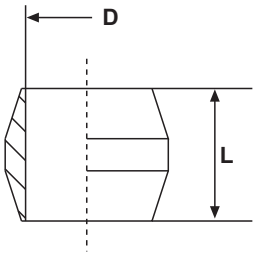
DIN 3871



c.-item no	item no.	D1	di	sw	L
	104 - 205	M 8 x 1	4	8	12
	106 - 205	M 10 x 1	6	10	14

Material: steel, galvanized surface

Double cone olive



DIN 3862



c.-item no	item no.	D	L
	104 - 215	4	5,5
	106 - 215	6	7

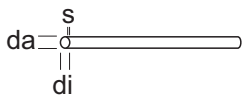
Material: brass

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Plastic tube semi-rigid PA 12 HL



DIN 73378 + Cetop

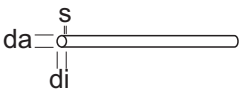


c.-item no	item no.	item	da	s	di	lengthens
	100 - 009 - 25	6 x 1,5 *	6	1,5	3,0	25
	100 - 004	6 x 1,5 **	6	1,5	3,0	100
	100 - 003	6 x 1,5 empty	6	1,5	3,0	100
	100 - 003 - 25	6 x 1,5 empty	6	1,5	3,0	25

Pressure: approx. 1291 PSI / 9 MPA / 89 bar operating pressure

* With grease NLGI quality grade 2 filled
** With low viscosity grease NLGI quality grade 000 filled

Plastic tube flexibel PA 12 PHL



DIN 73378 + Cetop



c.-item no	item no.	color	item	da	s	di	lengthens
	100 - 005	black	4 x 0,85 *	4	0,85	2,3	50
	100 - 006	black	4 x 0,85 empty	4	0,85	2,3	50
	100 - 006 - T	tranz-parent	4 x 0,85 empty	4	0,85	2,3	50

Pressure: approx. 580 PSI / 4 MPA / 36 bar / operating pressure

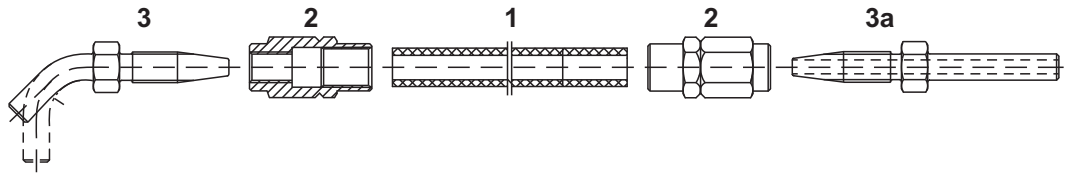
* With low viscosity grease NLGI quality grade 000 filled

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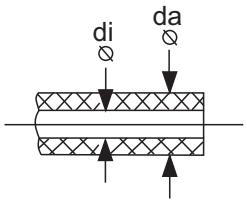
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High pressure hose 600-840 bar



1	**High pressure hose**
2	**Screw sleeve**
3	**Hose stud 90° or 45°**
3a	**Hose stud straight**

High pressure hose 600-840 bar





Technical information

di	da	item no.	packing unit	miscellaneous
4,0	8,6	100-001	50m coil*	with Fett Kl. 2 filled, NLGI 2
4,0	8,6	100-002	50m coil*	empty
6,3	11,3	100-011	100m coil*	with Fett Kl. 2 filled, NLGI 2
6,3	11,3	100-012	100m coil*	empty

		100-001 / 100-002		100-011 / 100-012	
		inner tube	casing	inner tube	casing
material		Termopl. Polyamid 6	Termopl. Polyurethan mikrobenstabilisiert	Termopl. Polyamid 12	Termopl. Polyurethan, mikrobenstabilisiert
tear strength	DIN EN ISO 527	> 30N/mm^2	> 18N/mm^2	> 38N/mm^2	> 20N/mm^2
elongation at break	DIN EN ISO 527	> 50%	> 380%	> 250%	> 320%
hardness shore	DIN EN ISO 868	D 60 ± 3	A 88 ± 3	D 61 ± 3	A 92 ± 3
temperatur using limit	-30°C *till* 80°C If medium to be pumped "grease with corrosion protection additives": max. 60°C				
cracking pressure	DIN EN ISO 1402 20°C >800bar, 84 MPa, 12184 psi, 60°C >450 bar Permissible bending radius for 20°C >20 mm				

Sizes and tolerances

nominal size	4,0 x 8,6 mm d	6,3 x 11,3 mm
inner diameter	3,90 - 4,10 mm	6,2 - 6,5 mm
external diameter	8,50 x 8,75 mm	11,1 - 11,5 mm
wall thickness eccentricity	max. 0,40 mm	max. 0,35 mm

Colour

inner tube	natural
casing	black
cable armour	white

glue	green-transparent
print	white

*For delivery 5% short lenghts are allowed.

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Hose stud straight with and without claw groove

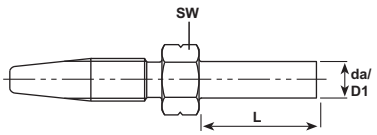


Abb. 1

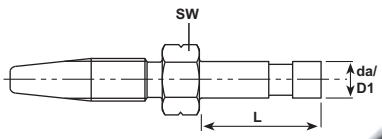


Abb. 2


Abb. 1 Abb. 2 Abb. 3

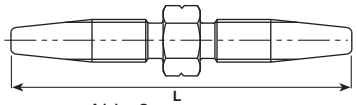


Abb. 3

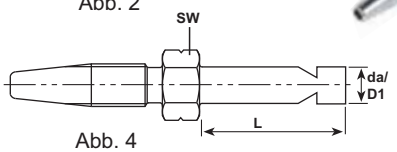


Abb. 4

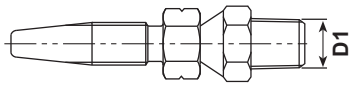


Abb. 5

c.-item no	item no.	Abb.	da/D1	L	sw
For assembling high pressure hose Ø 4,1 x 8,75					
	100 - 054 - 4	1	4	20	10
	100 - 054	1	6	20	10
	100 - 055	1	6	24	10
	100 - 051	1	6	30	10
	100 - 091	1	6	65,5	10
	100 - 051 - 8	1	8	30	10
	100 - 054 - NUT	2	6	20	10
	100 - 051 - NUT	2	6	30	10
	100 - 055 - NUT - V	4	6	24	10
	100 - 054 - NUT - SW black	2	6	21,5	10
	100 - 051 - VA *	1	6	30	10
	100 - 061 connector	3	6	21,5	10
	100 - 051 - 1	5	1/8 npt	25	7/16”
High pressure hose Ø 6,35 x 11,3					
	100 - 064	1	6	20	12
	100 - 064 - NUT	2	6	20	12
	100 - 064 - VA *	1	6	20	12
	100 - 074	1	8	20	12
	100 - 074 - VA *	1	8	20	12
	100 - 081	1	10	30	12

Material: steel, galvanized surface

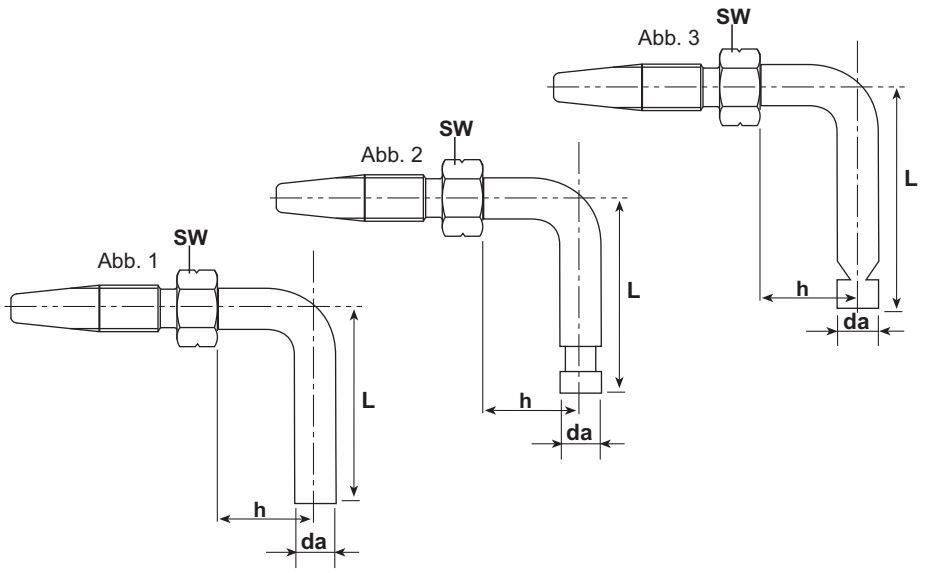
*Material: stainless steel 1.4571/316ti

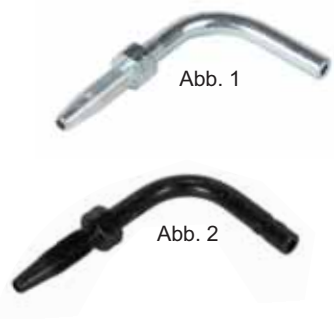
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Hose stud with and without claw groove 90°





c.-item no	item no.	Abb.	da	h	L	sw
High pressure hose Ø 4,1 x 8,75						
	100 - 059 - 4	1	4	14	30	10
	100 - 052	1	6	13	21	10
	100 - 059	1	6	14	33	10
	100 - 059 - NUT - V	3	6	14	33	10
	100 - 062	1	6	17	29	10
	100 - 053	1	6	28	37	10
	100 - 053 - VA *	1	6	28	37	10
	100 - 053 - NUT	2	6	28	37	10
	100 - 053 - NUT - SW black	2	6	28	37	10
	100 - 056	1	6	28	53	10
	100 - 056 - NUT	2	6	28	53	10
	100 - 056 - NUT - SW black	2	6	28	53	10
High pressure hose Ø 6,35 x 11,3						
	100 - 063	1	6	22	45	12
	100 - 073	1	8	23	36	12
	100 - 073 - VA *	1	8	23	36	12
	100 - 083	1	10	23	36	12

Material: steel, galvanized surface

*Material: stainless steel 1.4571/316ti

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Hose stud with and without claw groove 45°

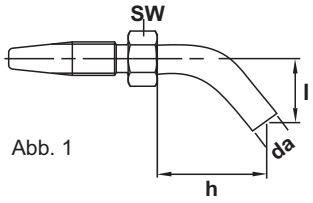


Abb. 1

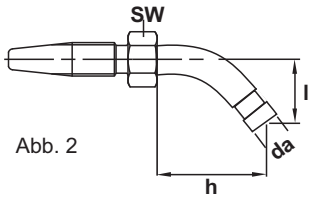


Abb. 2


Abb. 1

c.-item no	item no.	Abb.	da	h	l	sw
Hose stud for assembling high pressure hose Ø 4,1 x 8,75						
	100 - 057	1	6	24	15	10
	100 - 057 - NUT	2	6	24	15	10
	100 - 058	1	6	35	25	10
	100 - 058 - VA*	1	6	35	25	10
	100 - 058 - NUT	2	6	35	25	10
	100 - 058 - NUT - SW black	2	6	35	25	10
Hose stud for assembling high pressure hose Ø 6,35 x 11,3						
	100 - 068	1	6	35	25	12
	100 - 078	1	8	35	25	12

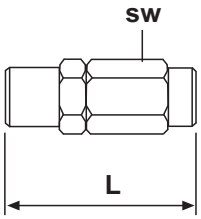
Material: steel, galvanized surface
*Material: stainless steel 1.4571/316ti

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Screw sleeve





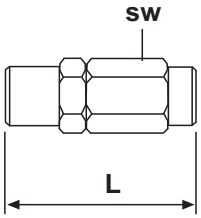


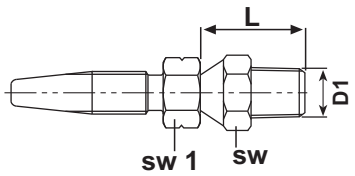
c.-item no	item no.	L	sw
High pressure hose Ø 4,1 x 8,75			
	100 - 050	28	12
	100 - 050 - SW black	28	12
	100 - 050 - VA *	28	12
High pressure hose Ø 6,35 x 11,3			
	100 - 060	35,8	17
	100 - 060 - VA *	35,8	17

Material: steel, galvanized surface

*Material: stainless steel 1.4571/316ti

Screw sleeve with hose stud 1/8 NPT





c.-item no	item no.	L	sw	sw1	D1
High pressure hose Ø 4,1 x 8,75					
	100 - 050 - 1 screw sleeve	26	1/2		
	100 - 051 - 1 hose stud	25	1/2	7/16	1/8 NPT

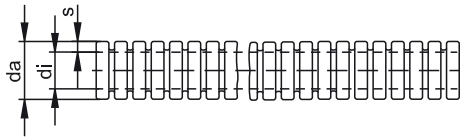
Material: steel galvanised

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Protective hose

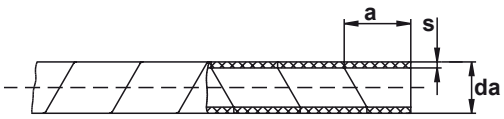




c.-item no	item no.	di	da	s	coil
	100 - 030	10	12,9	1,5	50
	100 - 031	12	15,7	1,7	50
	100 - 032	8,4	11,7	1,6	50
	100 - 033	6,7	10	1,6	50

Material: Poliamide - PA6

Plastic helix





c.-item no	item no.	a	da	s	length
	100 - 040	10	6	1	25
	100 - 041	10	11,5	1,5	25

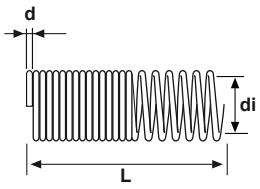
Material: PE

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Spring coil short stainless steel 1.4301/304



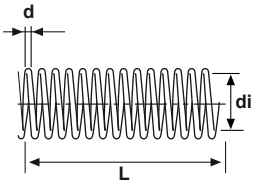




c.-item no	item no.	L	di	d
	100 - 045 - VA	200	10,6	1,2

* Material: stainless steel 1.4301/304

Spring coil long stainless steel 1.4301/304







c.-item no	item no.	L	di	d
	100 - 046 - VA	2000	10,6	1,2
	100 - 047 - VA	5000	10,6	1,2

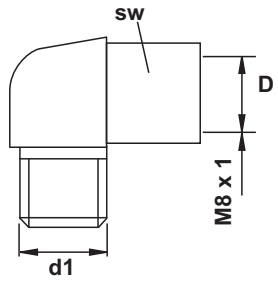
* Material: stainless steel 1.4301/304

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Elbows with tapered thread





c.-item no	item no.	D	d1	sw
	104 - 121	4	M 6 x 1 tap	11
	104 - 122	4	M 8 x 1 tap	11
	104 - 123	4	M 10 x 1 tap	11

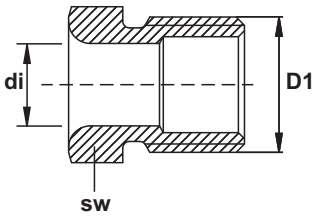
Material: brass

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Socket unions for tapered sleeves

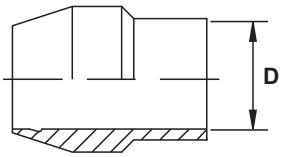




c.-item no	item no.	D1	di	sw
	104 - 220	M 8 x 1	4	8
	106 - 220	10 x 1	6	10
	110 - 220	M 16 x 1,5	10	17

Material: brass

Tapered sleeves





c.-item no	item no.	D
	104 - 211	4
	106 - 211	6
	110 - 211	10

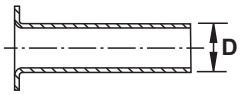
Material: brass

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Reinforcing socket for plastic tube





c.-item no	item no.	D	for tube Ø
	104 - 203	2,3	4 x 0,85
	106 - 203	3,5	6 x 1,25
	110 - 203	7	10 x 1,5

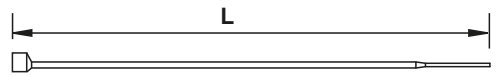
Material: brass

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Hose strap

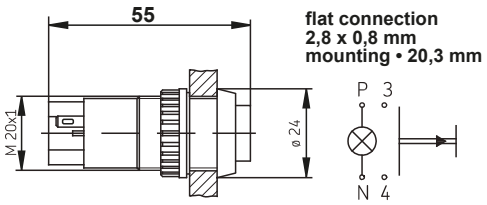




c.-item no	item no.	length x width	packaging unit
	100 - 025	200 x 4,8	100
	100 - 026	300 x 4,6	100
	100 - 027	380 x 4,7	100
	100 - 028	365 x 7,6	100
	100 - 029	780 x 9,0	100

Material: PA 6, black

Illuminated push button





c.-item no	item no.	push button	voltage	capacity
	100 - 290	green	24 V	1,2 W
	100 - 291	green	12 V	1,2 W

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Filling pump

Protection cap

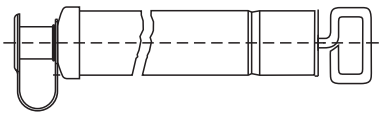


Abb. 1



Bild 1

Cartridge with female thread

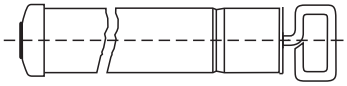


Abb. 2

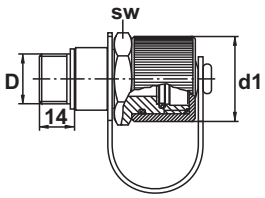


Bild 2

c.-item no	item no.	Bild	Abb.	connection
	100 - 201	1	1	with stub
	100 - 204	2	2	M 26 x 1,5

Din 1284 400 cm³ cartridge
Material: steel, chromed surface

Filling connection





Fillining connections for our filling pump, part no. 100 - 201

c.-item no	item no.	D	d1	sw
	100 - 200	M 20 x 1,5	34	32
	100 - 208	M 22 x 1,5	34	32

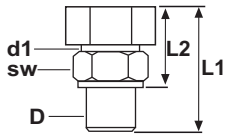
Material: steel, galvanized surface

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Filling connection straight



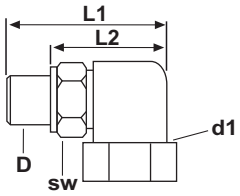


Fillining connections for our filling pump, part no. 100 - 204

c.-item no	item no.	L1	L2	D	d1	sw
	100 - 202	38	26	M 22 x 1,5	M 26 x 1,5	27
	100 - 202 - 1	55	43	M 22 x 1,5	M 26 x 1,5	27
	100 - 202 - 2	75	63	M 22 x 1,5	M 26 x 1,5	27
	100 - 207	60	48	M 20 x 1,5	M 26 x 1,5	27

Material: steel, galvanized surface

Filling connection 90°





Fillining connections for our filling pump, part no. 100 - 204

c.-item no	item no.	L1	L2	D	d1	sw
	100 - 203	71	58	M 22 x 1,5	M 26 x 1,5	27
	100 - 203 - 1	93	81	M 22 x 1,5	M 26 x 1,5	27
	100 - 203 - 2	112	100	M 22 x 1,5	M 26 x 1,5	27
	100 - 203 - 5	99	87	M 20 x 1,5	M 26 x 1,5	27

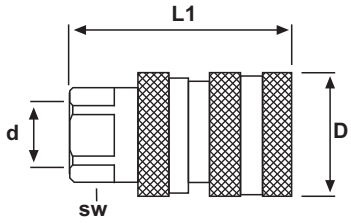
Material: steel, galvanized surface

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Coupling female



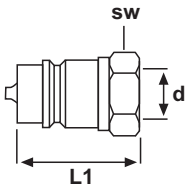
DIN 7241-B Serie



c.-item no	item no.	d	L1	D	sw	operationg pressure
	100 - 205 - 1/4	Rp 1/4 BSP	57	28	19	340 Bar
	100 - 205 - 3/8	Rp 3/8 BSP	64	36	23	270 Bar

Material: steel, galvanized surface

Coupling male



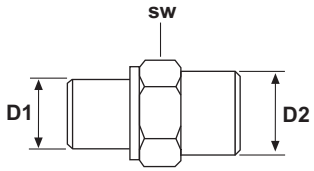
DIN 7241-B Serie



c.-item no	item no.	d	L1	sw	operationg pressure
	100 - 206 - 1/4	Rp 1/4 BSP	36	19	340 Bar
	100 - 206 - 3/8	Rp 3/8 BSP	43	21	270 Bar

Material: steel, galvanized surface

Adapter





c.-item no	item no.	D1	D2	SW
	100 - 209	R 1/4 BSPP	R 1/4 BSPP	17
	100 - 209 - 20 x 1,5	R 1/4 BSPP	M 20 x 1,5	24
	100 - 209 - 22 x 1,5	R 1/4 BSPP	M 22 x 1,5	24

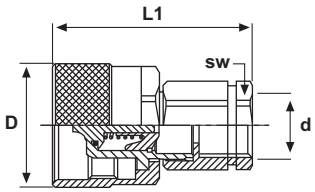
Material: steel, galvanized surface

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Coupling female screw



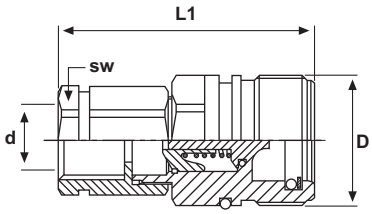
DIN 7241-B Serie



c.-item no	item no.	d	L1	D	sw	operationg pressure
	100 - 234	Rp 1/4 BSP	60	34	19	450 Bar

Material: steel, galvanized surface

Coupling male screw





c.-item no	item no.	d	L1	D	sw	operationg pressure
	100 - 224	Rp 1/4 BSP	59,30	Rd 24 x 2	19	450 Bar

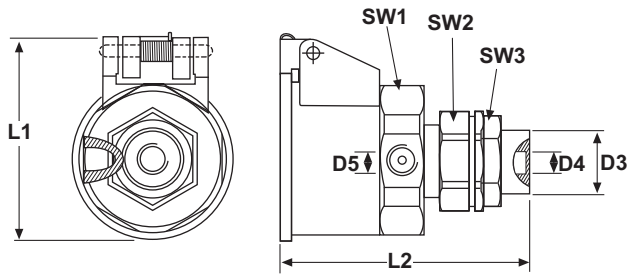
Material: steel, galvanized surface

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Coupling socket with return flow port

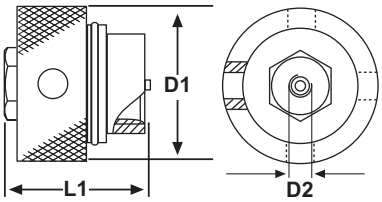




c.-item no	item no.	L1	L2	SW1	SW2	SW3	D3	D4	D5
	100 - 226	68	84	46	30	27	M 20 x 1,5	M 10 x 1	M 10 x 1

Material: plastic, brass, steel

Coupling plug





c.-item no	item no.	L1	D1	D2
	100 - 225	52	55	M 10 x 1

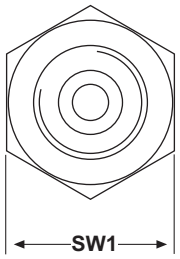
Material: brass, steel

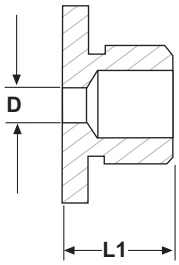
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Stub for coupling plug



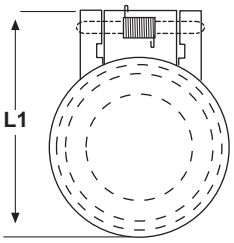


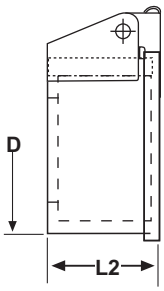


c.-item no	item no.	SW1	L1	D
	100 - 227	36	24,5	8

Material: steel, galvanized surface

Dust cover for stub







c.-item no	item no.	L1	L2	D
	100 - 228	68	33,5	50

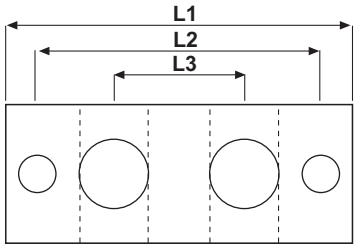
Material: plastic

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Junction block T-drilled thread M10x1





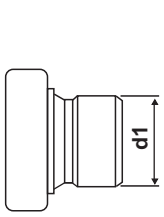
example of application

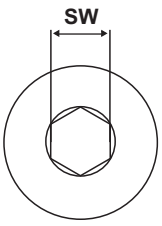


c.-item no	item no.	number of connections	L1	L2	L3
	100 - 211	1	30		
	100 - 212	2	60	50	22
	100 - 213	3	80	74	22
	100 - 214	4	106	96	22
	100 - 215	5	128	118	22
	100 - 216	6	150	140	22
	100 - 218	8	194	184	22

Material: steel, galvanized surface

Closure plug







c.-item no	item no.	d1	sw
	100 - 243	M 10 x 1	5
	100 - 243 - SW black	M 10 x 1	5

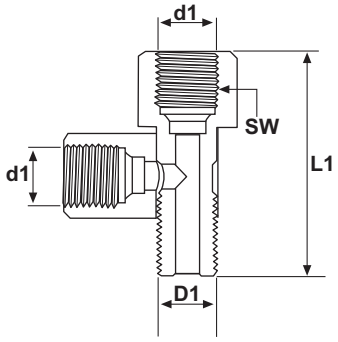
Material: steel, galvanized surface

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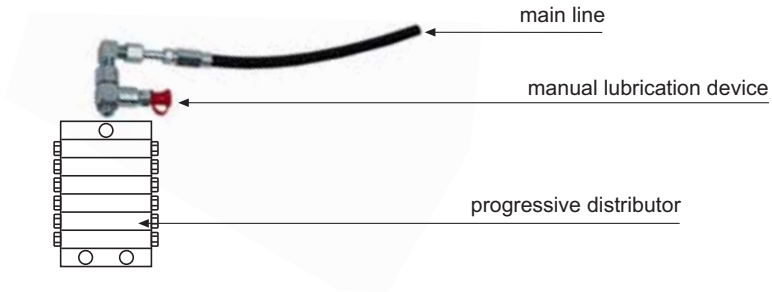
T-banjo fitting





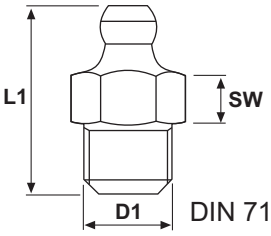
c.-item no	item no.	SW	L1	D1	d1
	100 - 323	14	35	M 10 x 1	M 10 x 1
	100 - 324	14	35	1/8 BSP	1/8 BSP

example of use



Material: 11SMnPb30 + C, galvanized surface

High pressure grease nipple



DIN 71412 Form A



c.-item no	item no.	SW1	L1	D1
	250 - 003 - RV	11	20,7	M 10 x 1 tap
	250 - 004 - RV	11	20,7	R 1/8 PT

example of use





Material: 11SMnPb30 + C

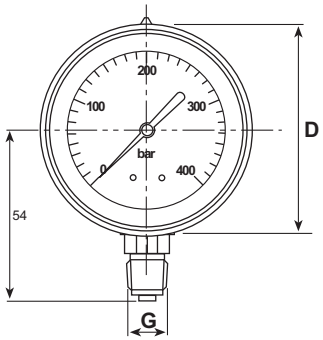
Material: galvanized surface ISO 4042 A3F

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Manometer



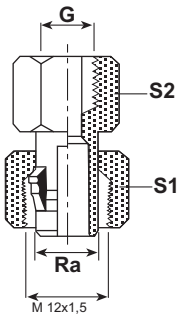


c.-item no	item no.	G	D	Max Bar	Max PSI
	100 - 255	1/4	63	400	6000

Material: Body stainless Steel, brass connection

glycerine filled

Adjustable screw connection with gasket for manometer





c.-item no	item no.	G	Ra	S1	S2
	106-245-L	1/4 BSP	6 L	14	19

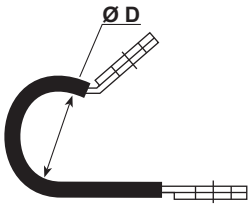
Material: steel, galvanized surface

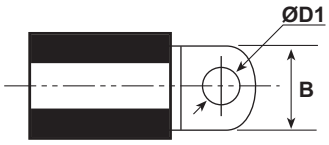
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Rubber lined tube clamp DIN 3016







c.-item no	item no.	Ø D mm	Ø D1 mm	B mm	packaging unit
	100 - 506	6	5,3	12	100
	100 - 509	9	5,3	12	100
	100 - 512	12	5,3	12	100
	100 - 515	15	5,3	12	100
	100 - 518	18	5,3	12	50
	100 - 522	22	5,3	12	50
	100 - 525	25	5,3	12	50
	100 - 606	6	6,4	15	100
	100 - 609	9	6,4	15	100
	100 - 610	10	6,4	15	100
	100 - 612	12	6,4	15	100
	100 - 615	15	6,4	15	100
	100 - 618	18	6,4	15	100
	100 - 620	20	6,4	15	50
	100 - 622	22	6,4	15	50
	100 - 625	25	6,4	15	50
	100 - 629	29	6,4	15	50

Material: steel, galvanized surface, rubber EPDM

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