COUPLING TECHNOLOGY

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Water | Pneumatic | Hydraulic | Electrical | Accessories

100

rtc TYPE

NEW

PAT. PENDING

Safety type coupler with safety sleeve

Sicherheitstyp Kupplung mit Schutzhülse

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French Profile

Temperature Range - Temperaturbereich
-20°C +100°C (-4°F +212°F) Nitrile (N)
-10°C +180°C (+14°F +356°F) FPM (V)

Working Pressure - Betriebsdruck
rtc 100.06	10 bar (145 PSI)
rtc 100.08	10 bar (145 PSI)
rtc 100.12	10 bar (145 PSI)

Flow size - Nennweiten
rtc 100.06	6 mm
rtc 100.08	8 mm
rtc 100.12	13 mm

Standard version - Standardversion
Brass - Messing
Seals - Dichtungen Nitrile
Male threads are PTFE coated
Aussengewinde ist PTFE beschichtet

Plugs & Sockets are nickel plated
Nippel und Kupplungen sind vernickelt

Material
Socket Body-Kupplungsgrundkörper	Brass Nickel Plated - Messing vernickelt
Sleeve - Hülse	Brass Nickel Plated - Messing vernickelt
Springs - Federn	Stainless Steel - Edelstahl
Locking Ring-Sprengring	Stainless Steel - Edelstahl
Balls - Kugeln	Stainless Steel - Edelstahl
Seals - Dichtungen	Nitrile
Plug - Nippel	Brass Nickel Plated - Messing vernickelt

Options - Optionen
Colour Rings RED / BLUE
Farbringe ROT / BLAU

Using Area
- On temperature regulation applications with hot or cold water, oil etc.
- Injection moulding industries.
- On steam line.

Anwendungsbereiche
- Werkzeugtemperierung
- Kühlung mit Öl oder Wasser
- Kunststoffindustrie
- Dampfanwendungen

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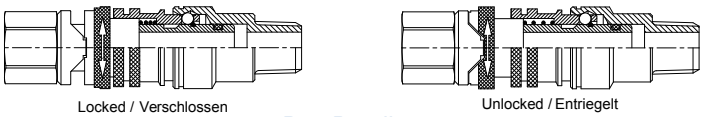
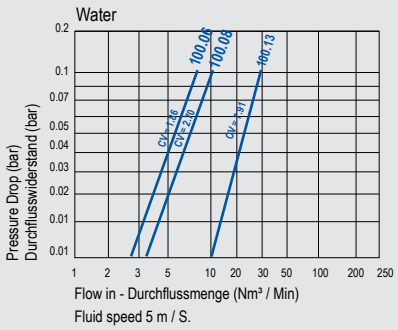
Safety type coupler with safety sleeve
Sicherheitstyp Kupplung mit Schutzhülse

Safety Type



Pat. Pending
Safety type coupler for disconnect protection
Sicherheitsfunktion für das ungewollte Trennen
Add "S" to item code / Fügen Sie "S" zur Artikelnummer hinzu

Flow Rate vs Pressure Drop Graph / Durchflussrate vs Druckabfall



100 rtc TYPE

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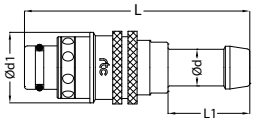
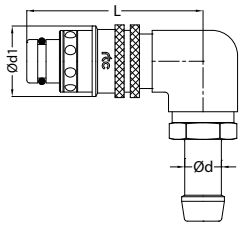
rtc TYPE 100 — Standard hose tail plug / Stecker mit Schlauchtülle



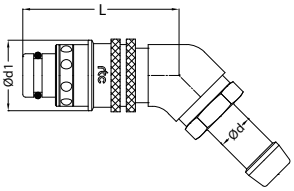
Plugs / Stecker	Body Size Größe		Order No / Bestellnr. Without valve / ohne Ventil	Ød	Ød1	L	L1
	06	-	100.06 PHF 08	8	17	55	23
	08	-	100.08 PHF 06	6	20	66	23
		-	100.08 PHF 08	8	20	66	23
		-	100.08 PHF 10	10	20	66	23
		-	100.08 PHF 13	13	20	66	28
	12	-	100.12 PHF 13	13	28	78	33
		-	100.12 PHF 16	16	28	78	33

rtc TYPE 100 — Standard hose tail plug 90° / Stecker mit 90° Schlauchtülle



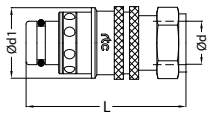
Plugs / Stecker	Body Size Größe		Order No / Bestellnr. Without valve / ohne Ventil	Ød	Ød1	L
	08	-	100.08 PHF 06-90	6	20	45.5
		-	100.08 PHF 08-90	8	20	45.5
		-	100.08 PHF 10-90	10	20	45.5
		-	100.08 PHF 13-90	13	20	45.5
	12	-	100.12 PHF 13-90	13	28	54
		-	100.12 PHF 16-90	16	28	54

rtc TYPE 100 — Standard hose tail plug 45° / Stecker mit Schlauchtülle 45°



Plugs / Stecker	Body Size Größe		Order No / Bestellnr. Without valve / ohne Ventil	Ød	Ød1	L
	08	-	100.08 PHF 06-45	6	20	45.5
		-	100.08 PHF 08-45	8	20	45.5
		-	100.08 PHF 10-45	10	20	45.5
		-	100.08 PHF 13-45	13	20	45.5
	12	-	100.12 PHF 13-45	13	28	54
		-	100.12 PHF 16-45	16	28	54

rtc TYPE 100 — Female thread plug / Stecker mit Innengewinde



Plugs / Stecker	Body Size Größe		Order No / Bestellnr. Without valve / ohne Ventil	Ød	Ød1	L
	08	-	100.08 PFF 13	BSP 1/4	20	43
		-	100.08 PNF 13	NPT 1/4	20	43
	12	-	100.12 PFF 17	BSP 3/8	28	60
		-	100.12 PFF 21	BSP 1/2	28	62
		-	100.12 PNF 21	NPT 1/2	28	62

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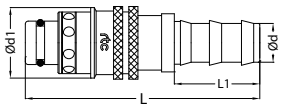
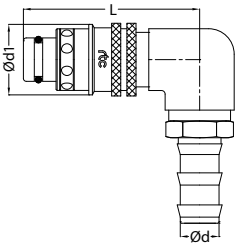
Push to connect hose tail plug / Stecker mit Schnellsteck - Schlauchtülle — TYPE 100



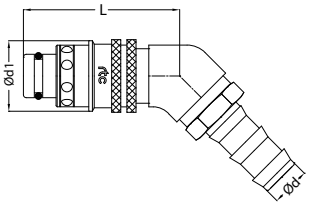
Plugs / Stecker	Body Size Größe		Order No / Bestellnr. Without valve / ohne Ventil	Ød	Ød1	L	L1
	08	-	100.08 PPF 10	10	20	65	28
		-	100.08 PPF 13	13	20	69	28
	12	-	100.12 PPF 13	13	28	71	33
		-	100.12 PPF 16	16	28	82	33

Push to connect hose tail plug 90° / Stecker mit Schnellsteck - Schlauchtülle 90° — TYPE 100



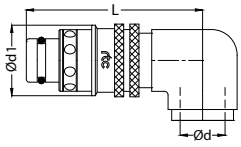
Plugs / Stecker	Body Size Größe		Order No / Bestellnr. Without valve / ohne Ventil	Ød	Ød1	L
	08	-	100.08 PPF 10-90	10	20	45.5
		-	100.08 PPF 13-90	13	20	45.5
	12	-	100.12 PPF 13-90	13	28	54
		-	100.12 PPF 16-90	16	28	54

Push to connect hose tail plug 45° / Stecker mit Schnellsteck - Schlauchtülle 45° — TYPE 100



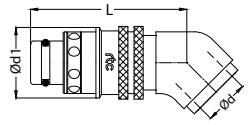
Plugs / Stecker	Body Size Größe		Order No / Bestellnr. Without valve / ohne Ventil	Ød	Ød1	L
	08	-	100.08 PPF 10-45	10	20	45.5
		-	100.08 PPF 13-45	13	20	45.5
	12	-	100.12 PPF 13-45	13	28	54
		-	100.12 PPF 16-45	16	28	54

Female thread plug 90° / Stecker mit Innengewinde 90° — TYPE 100



Plugs / Stecker	Body Size Größe		Order No / Bestellnr. Without valve / ohne Ventil	Ød	Ød1	L
	08	-	100.08 PFF 13-90	BSP 1/4	20	45.5
		-	100.08 PNF 13-90	NPT 1/4	20	45.5
	12	-	100.12 PFF 17-90	BSP 3/8	28	54
		-	100.12 PFF 21-90	BSP 1/2	28	54
		-	100.12 PNF 21-90	NPT 1/2	28	54

Female thread plug 45° / Stecker mit Innengewinde 45° — TYPE 100



Plugs / Stecker	Body Size Größe		Order No / Bestellnr. Without valve / ohne Ventil	Ød	Ød1	L
	08	-	100.08 PFF 13 45	BSP 1/4	20	47.5
		-	100.08 PNF 13 45	NPT 1/4	20	47.5
	12	-	100.12 PFF 21 45	BSP 1/2	28	54
		-	100.12 PNF 21 45	NPT 1/2	28	54

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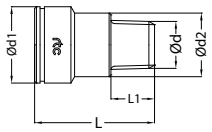
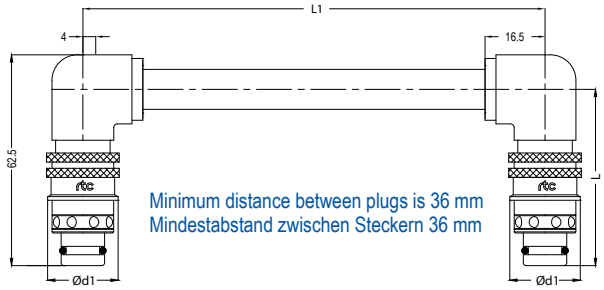
rtc TYPE 100 — Male thread Sockets / Buchse mit Aussengewinde

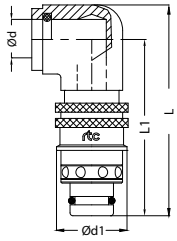


Sockets / Kupplungen	Body Size Größe	Order No / Bestellnr.	Ød	Ød1	Ød2	L	L1	INNER HEX.
	06	100.06 SRF 10	BSPT 1/8	17	14	28.5	18.5	6
		100.06 SRF 13	BSPT 1/4	17	14	28.5	15.5	6
		100.06 STF 10	NPT 1/8	17	14	28.5	18.5	1/4
		100.06 STF 13	NPT 1/4	17	-	28.5	-	1/4
		100.06 SMF 1010	M10x1	17	14	28.5	18.5	6
	08	100.08 SRF 10	BSPT 1/8	21	17.5	32	22	6
		100.08 SRF 13	BSPT 1/4	21	17.5	33	21	8
		100.08 SRF 17	BSPT 3/8	21	-	24	11	8
		100.08 STF 10	NPT 1/8	21	17.5	32	22	1/4
		100.08 STF 13	NPT 1/4	21	17.5	33	21	5/16
		100.08 STF 17	NPT 3/8	21	-	24	11	5/16
		100.08 SMF 1010	M10x1	21	17.5	32	22	6
		100.08 SMF 1015	M10x1.5	21	17.5	32	22	6
		100.08 SMF 1415	M14x1.5	21	17.5	32	21	6
	12	100.12 SRF 17	BSPT 3/8	32	25	41	28	10
		100.12 SRF 21	BSPT 1/2	32	25	44	28	14
		100.12 SRF 26	BSPT 3/4	32	-	32	13	14
		100.12 STF 17	NPT 3/8	32	25	41	28	3/8
		100.12 STF 21	NPT 1/2	32	25	44	28	9/16
		100.12 STF 26	NPT 3/4	32	-	32	13	9/16

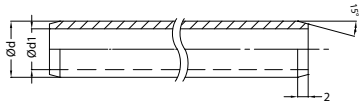
rtc TYPE 100 — Cascade connector / Umlenkstecker



Sockets / Kupplungen	Size Größe	Order No / Bestellnr. Without Valve / Ohne Ventil	Ød	Ød1	L	L1
	8	100.08 PCF 125	11x1.5	20	54	125
	8	100.08 PCF 250	11x1.5	20	54	250
	8	100.08 PCF 500	11x1.5	20	54	500



Size Größe	Order No / Bestellnr. Without Valve / Ohne Ventil	Ød	Ød1	L	L1
8	100.08 PCF 00	11x1.5	20	64	54



Pipe preparation / Verbindungsrohr

Brass Tube Messing Rohr	Ød	Ød1	Length Länge
TBM 1115x1000	11	8	1000mm

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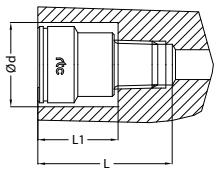
Assemling dimensions of the flush socket in the mold / Einbaumaß für den versenkten Einbau

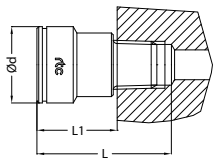
TYPE 100



Socket / Buchse	Body Size Größe	Connection Anschluss	Ød min	L	L1	Torque (Nm)	INNER HEX.
	06	BSP 1/8	18.5	30	20	15	6
		BSP 1/4	18.5	31	18	30	6
		NPT 1/8	18.5	32	22	15	1/4
		NPT 1/4	18.5	33	20	30	1/4
	08	BSP 1/8	22.5	33	23	15	6
		BSP 1/4	22.5	34	22	30	8
		BSP 3/8	22.5	35	12	30	8
		NPT 1/8	22.5	35	25	15	1/4
		NPT 1/4	22.5	36	24	30	5/16
		NPT 3/8	22.5	37	14	30	5/16
	12	BSP 3/8	33.5	42	29	50	10
		BSP 1/2	33.5	45	30	50	14
		BSP 3/4	33.5	33	15	50	14
		NPT 3/8	33.5	49	33	50	3/8
		NPT 1/2	33.5	50	35	50	9/16
		NPT 3/4	33.5	36	17	50	9/16

Assemling dimensions of the rised socket in the mold / Einbaumaße für Buchsen

TYPE 100



Socket / Buchse	Body Size Größe	Connection Anschluss	Ød	L	L1	Torque (Nm)	INNER HEX.
	06	BSP 1/8	17	30	20	15	6
		BSP 1/4	17	31	18	30	6
		NPT 1/8	17	32	22	15	1/4
		NPT 1/4	17	33	20	30	1/4
	08	BSP 1/8	21	33	23	15	6
		BSP 1/4	21	34	22	30	8
		BSP 3/8	21	35	12	30	8
		NPT 1/8	21	35	25	15	1/4
		NPT 1/4	21	36	24	30	5/16
		NPT 3/8	21	37	14	30	5/16
	12	BSP 3/8	32	42	29	50	10
		BSP 1/2	32	45	30	50	14
		BSP 3/4	32	33	15	50	14
		NPT 3/8	32	49	33	50	3/8
		NPT 1/2	32	50	35	50	9/16
		NPT 3/4	32	36	17	50	9/16

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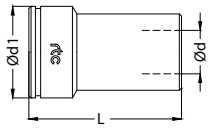
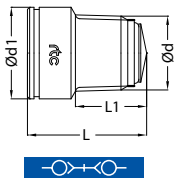
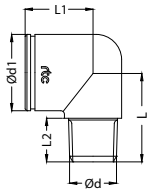
rtc TYPE 100 — Female thread Sockets / Buchse mit Innengewinde

Sockets / Kupplungen	Body Size Größe	Order No / Bestellnr.	Ød	Ød1	L	INNER HEX.
	08	100.08 SFF 10	BSP 1/8	17	35	6
		100.08 SFF 13	BSP 1/4	17	39	8
		100.08 SNF 10	NPT 1/8	17	35	1/4”
		100.08 SNF 13	NPT 1/4	17	39	5/16”
	12	100.12 SFF 17	BSP 3/8	21	49	12
		100.12 SFF 21	BSP 1/2	21	50	12

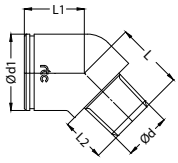
rtc TYPE 100 — Male threaded socket with valve / Buchse mit Aussengewinde und Ventil

Socket / Buchse	Body Size Größe	Order No / Bestellnr.	Ød	Ød1	L	L1
	08	100.08 SRB 13	BSPT 1/4	21	38	21
		100.08 SRB 17	BSPT 3/8	21	29	11

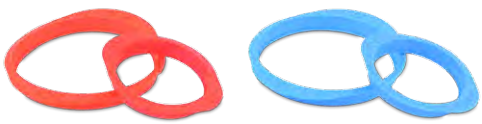
rtc TYPE 100 — Male thread socket 90° / Buchse mit Aussengewinde 90°

Socket / Buchse	Body Size Größe	Order No / Bestellnr.	Ød	Ød1	L	L1	L2	INNER HEX.
	08	100.08 SRF 10 90	BSPT 1/8	22	23	22	10	19
		100.08 SRF 13 90	BSPT 1/4	22	25	22	12	19
		100.08 SRF 17 90	BSPT 3/8	22	26	22	13	19
		100.08 STF 10 90	NPT 1/4	22	27	22	14	19

rtc TYPE 100 — Male thread socket 45° / Buchse mit Aussengewinde 45°

Sockets / Kupplungen	Body Size Größe	Order No / Bestellnr.	Ød	Ød1	L	L1	L2	INNER HEX.
	08	100.08 SRF 10 45	BSPT 1/8	22	16.5	18.5	10	19
		100.08 SRF 13 45	BSPT 1/4	22	16.5	18.5	12	19
		100.08 SRF 17 45	BSPT 3/8	22	16.5	18.5	12	19

rtc TYPE 100 — Colour Ring / Farbringe

Colour Ring / Farbringe	Body Size Größe	Order No / Bestellnr. Red / Rot	Order No / Bestellnr. Blue / Blau	Description
	06	100.06 SC-R	100.06 SC-B	Socket Colour Ring
	08	100.08 SC-R	100.08 SC-B	Socket Colour Ring
	12	100.12 SC-R	100.12 SC-B	Socket Colour Ring
	06	100.06 PC-R	100.06 PC-B	Plug Colour Ring
	08	100.08 PC-R	100.08 PC-B	Plug Colour Ring
	12	100.12 PC-R	100.12 PC-B	Plug Colour Ring

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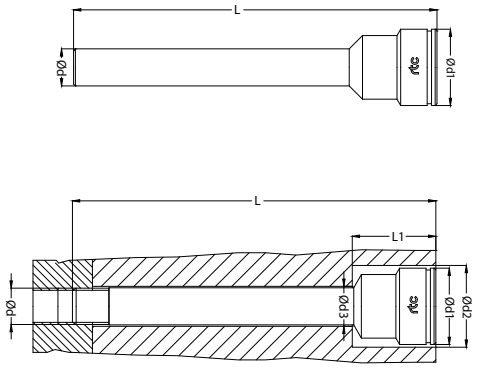
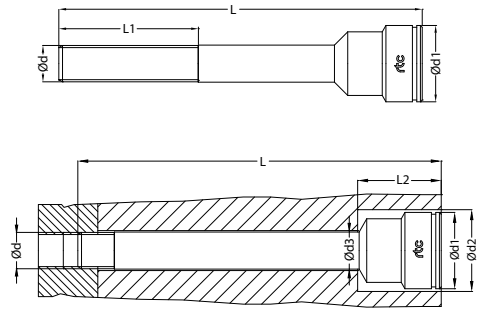
Socket extension without thread / Buchse Verlängerung ohne Aussengewinde — TYPE 100



Sockets / Kupplungen	Body Size Größe	Order No / Bestellnr.	Connection Anschluss (Ød)	Ød1	Ød2	Ød3	L Min-Max.	L1	INNER HEX.
	06	100.06 SEF 10-100	1/8	17	18.5	11	33-100	20	6
	08	100.08 SEF 10-100	1/8	21	22.5	11	33-100	23	6
		100.08 SEF 10-150	1/8	21	22.5	11	100-150	23	6
		100.08 SEF 10-200	1/8	21	22.5	11	150-200	23	6
		100.08 SEF 10-250	1/8	21	22.5	11	200-250	23	6
		100.08 SEF 13-100	1/4	21	22.5	14	34-100	23	8
		100.08 SEF 13-150	1/4	21	22.5	14	100-150	23	8
		100.08 SEF 13-200	1/4	21	22.5	14	150-200	23	8
		100.08 SEF 13-250	1/4	21	22.5	14	200-250	23	8
	12	100.12 SEF 17-150	3/8	32	33.5	18	59-150	43	14
		100.12 SEF 17-200	3/8	32	33.5	18	150-200	43	14
		100.12 SEF 17-250	3/8	32	33.5	18	200-250	43	14
		100.12 SEF 21-150	1/2	32	33.5	22	59-150	45	14
		100.12 SEF 21-200	1/2	32	33.5	22	150-200	45	14
		100.12 SEF 21-250	1/2	32	33.5	22	200-250	45	14

Socket extension with thread / Buchse Verlangerung mit Aussengewinde — TYPE 100



Sockets / Kupplungen	Body Size Größe	Order No / Bestellnr.	Ød Thread Size	Ød1	Ød2	Ød3	L Min-Max.	L1	L2	INNER HEX.
	08	100.08 SMF 10-50	BSP 1/8	21	22.5	11	35-50	26	21	6
		100.08 SMF 10-100	BSP 1/8	21	22.5	11	50-100	60	21	6
		100.08 SMF 10-150	BSP 1/8	21	22.5	11	100-150	60	21	6
		100.08 SMF 13- 50	BSP 1/4	21	22.5	14	39-50	27	21	8
		100.08 SMF 13-100	BSP 1/4	21	22.5	14	55-100	60	21	8
		100.08 SMF 13-150	BSP 1/4	21	22.5	14	105-150	60	21	8
		100.08 SMF 13-200	BSP 1/4	21	22.5	14	155-200	60	21	8

Replacement O-Ring / Ersatz O-Ring — TYPE 100

Seals / O-Ringe	Size Größe	Order No / Bestellnr.	Description	Material	Working Temp.
	06	SS 100.06 PN	Plug Seal Set	NBR - Nitrile	-20°C +100°C / -4°F +212°F
	08	SS 100.08 PN	Plug Seal Set	NBR - Nitrile	-20°C +100°C / -4°F +212°F
	12	SS 100.12 PN	Plug Seal Set	NBR - Nitrile	-20°C +100°C / -4°F +212°F
	06	SS 100.06 SN	Socket Seal Set	NBR - Nitrile	-20°C +100°C / -4°F +212°F
	08	SS 100.08 SN	Socket Seal Set	NBR - Nitrile	-20°C +100°C / -4°F +212°F
	12	SS 100.12 SN	Socket Seal Set	NBR - Nitrile	-20°C +100°C / -4°F +212°F
	06	SS 100.06 PV	Plug Seal Set	FPM - Viton	-10°C +180°C / +14°F +356°F
	08	SS 100.08 PV	Plug Seal Set	FPM - Viton	-10°C +180°C / +14°F +356°F
	12	SS 100.12 PV	Plug Seal Set	FPM - Viton	-10°C +180°C / +14°F +356°F
	06	SS 100.06 SV	Socket Seal Set	FPM - Viton	-10°C +180°C / +14°F +356°F
	08	SS 100.08 SV	Socket Seal Set	FPM - Viton	-10°C +180°C / +14°F +356°F
	12	SS 100.12 SV	Socket Seal Set	FPM - Viton	-10°C +180°C / +14°F +356°F

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