



rtc[®]

QUICK CONNECT TECHNOLOGY



100
rtc TYPE



French Profile

Temperature Range

-20°C +90°C (-5°F +32°F) FPM (V)

Working Pressure

rtc 100.06 0 - 10 bar (0 - 145 PSI)
 rtc 100.08 0 - 10 bar (0 - 145 PSI)
 rtc 100.12 0 - 10 bar (0 - 145 PSI)

Flow size

rtc 100.06 6 mm
 rtc 100.08 8 mm
 rtc 100.12 13 mm

Standard version

Brass
 Seals
 Male threads are PTFE coated
 Aussengewinde ist PTFE beschichtet

Plugs & Sockets are nickel plated

Material

Socket Body
 Kupplungsgrundkörper Brass Nickel Plated
 Sleeve Brass Nickel Plated
 Springs Stainless Steel
 Locking O-Ring Stainless Steel

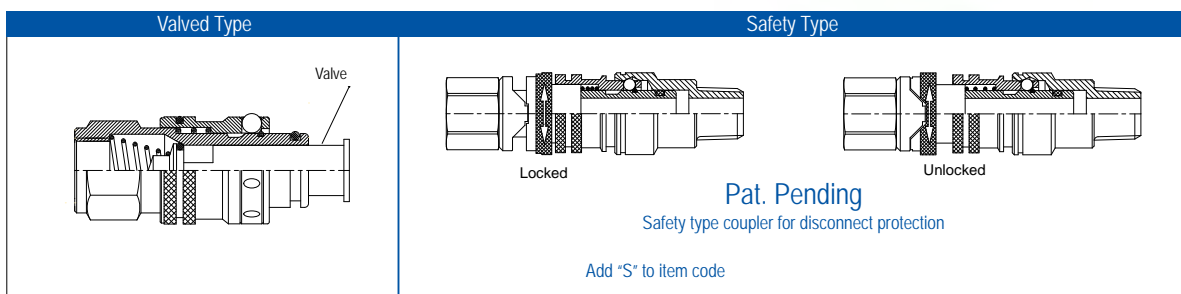
Balls 18/8 Stainless Steel
 Seals NBR
 Plug Brass Nickel Plated

Options - Optionen

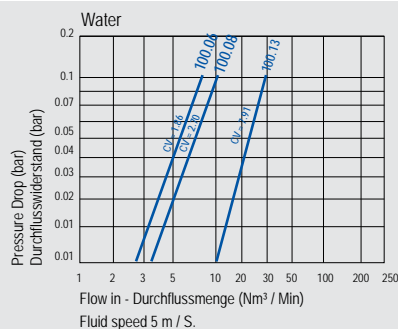
Colour Rings RED / BLUE

Using Area

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

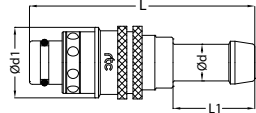


Flow Rate vs Pressure Drop Graph

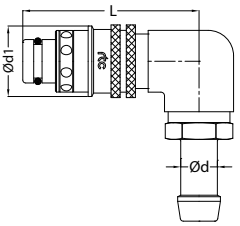


100
rtc TYPE

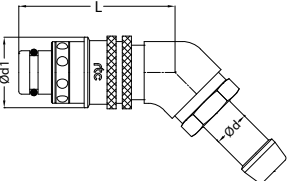
rtc TYPE 100 Standard hose tail plug / Stecker mit Schlauchtülle  

Plugs	Order No With Valve	Order No Without Valve	Body Size	D	D1	L	L1
	-	100.06 PHF 08	6	8	17	55	23
	100.08 PHB 06	100.08 PHF 06	8	6	20	66	23
	100.08 PHB 08	100.08 PHF 08	8	8	20	66	23
	100.08 PHB 10	100.08 PHF 10	8	10	20	66	23
	100.08 PHB 13	100.08 PHF 13	8	13	20	66	28
	100.12 PHB 13	100.12 PHF 13	13	13	28	78	33
	100.12 PHB 16	100.12 PHF 16	13	16	28	78	33

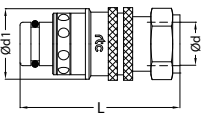
rtc TYPE 100 Standard hose tail plug 90° / Stecker mit 90° Schlauchtülle  

Plugs	Order No With Valve	Order No Without Valve	Body Size	D	D1	L
	100.08 PHB 06-90	100.08 PHF 06-90	8	6	20	45.5
	100.08 PHB 08-90	100.08 PHF 08-90	8	8	20	45.5
	100.08 PHB 10-90	100.08 PHF 10-90	8	10	20	45.5
	100.08 PHB 13-90	100.08 PHF 13-90	8	13	20	45.5
	100.12 PHB 13-90	100.12 PHF 13-90	13	13	28	54
	100.12 PHB 16-90	100.12 PHF 16-90	13	16	28	54

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

Plugs	Order No With Valve	Order No	Body Size	D	D1	L
	100.08 PHB 06-45	100.08 PHF 06-45	8	6	20	45.5
	100.08 PHB 08-45	100.08 PHF 08-45	8	8	20	45.5
	100.08 PHB 10-45	100.08 PHF 10-45	8	10	20	45.5
	100.08 PHB 13-45	100.08 PHF 13-45	8	13	20	45.5
	100.12 PHB 13-45	100.12 PHF 13-45	13	13	28	54
	100.12 PHB 16-45	100.12 PHF 16-45	13	16	28	54

rtc TYPE 100 Female thread plug / Stecker mit Innengewinde  

Plugs	Order No With Valve	Order No Without Valve	Body Size	D	D1	L
	100.08 PFB 13	100.08 PFF 13	8	BSP 1/4	20	43
	100.08 PNB 13	100.08 PNF 13	8	NPT 1/4	20	43
	100.12 PFB 17	100.12 PFF 17	13	BSP 3/8	28	60
	100.12 PFB 21	100.12 PFF 21	13	BSP 1/2	28	62
	100.12 PNB 21	100.12 PNF 21	13	NPT 1/2	28	62

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

Plugs	Order No With Valve	Order No Without Valve	Body Size	D	D1	L	L1
	100.08 PPB 10	100.08 PPF 10	8	10	20	65	28
	100.08 PPB 13	100.08 PPF 13	8	13	20	69	28
	100.12 PPB 13	100.12 PPF 13	13	13	28	71	33
	100.12 PPB 16	100.12 PPF 16	13	16	28	82	33

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

Plugs	Order No With Valve	Order No Without Valve	Body Size	D	D1	L
	100.08 PPB 10-90	100.08 PPF 10-90	8	10	20	45.5
	100.08 PPB 13-90	100.08 PPF 13-90	8	13	20	45.5
	100.12 PPB 13-90	100.12 PPF 13-90	13	13	28	54
	100.12 PPB 16-90	100.12 PPF 16-90	13	16	28	54

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

Plugs	Order No With Valve	Order No Without Valve	Body Size	D	D1	L
	100.08 PPB 10-45	100.08 PPF 10-45	8	10	20	45.5
	100.08 PPB 13-45	100.08 PPF 13-45	8	13	20	45.5
	100.12 PPB 13-45	100.12 PPF 13-45	13	13	28	54
	100.12 PPB 16-45	100.12 PPF 16-45	13	16	28	54

Female thread plug 90° / Stecker mit Innengewinde 90° TYPE 100 **rtc**

Plugs	Order No With Valve	Order No Without Valve	Body Size	D	D1	L
	100.08 PFB 13-90	100.08 PFF 13-90	8	BSP 1/4	20	45.5
	100.08 PNB 13-90	100.08 PNF 13-90	8	NPT 1/4	20	45.5
	100.12 PFB 17-90	100.12 PFF 17-90	13	BSP 3/8	28	54
	100.12 PFB 21-90	100.12 PFF 21-90	13	BSP 1/2	28	54
	100.12 PNB 21-90	100.12 PNF 21-90	13	NPT 1/2	28	54

Female thread plug 45° / Stecker mit Innengewinde 45° TYPE 100 **rtc**

Plugs	Order No With Valve	Order No Without Valve	Body Size	D	D1	L
	100.08 PFB 13 45	100.08 PFF 13 45	8	BSP 1/4	20	47.5
	100.08 PNB 13 45	100.08 PNF 13 45	8	NPT 1/4	20	47.5
	100.12 PFB 21 45	100.12 PFF 21 45	13	BSP 1/2	28	54
	100.12 PNB 21 45	100.12 PNF 21 45	13	NPT 1/2	28	54

rtc TYPE 100

Male thread socket / Buchse mit Aussengewinde



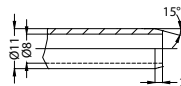
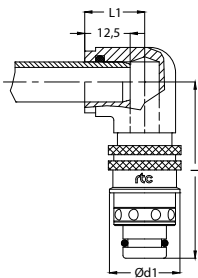
Socket	Body Size	Order No	D	D1	D2	L	L1	INNER HEX.
	100.06	100.06 SRF 10	BSPT 1/8	17	14	28.5	18.5	6
		100.06 SRF 13	BSPT 1/4	17	14	28.5	15.5	6
		100.06 STF 10	NPT 1/8	17	14	28.5	18.5	1/4
		100.06 STF 13	NPT 1/4	17	--	28.5	--	1/4
		100.06 SMF 1010	M10x1	17	14	28.5	18.5	6
	100.08	100.08 SRF 10	BSPT 1/8	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	
100.12	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

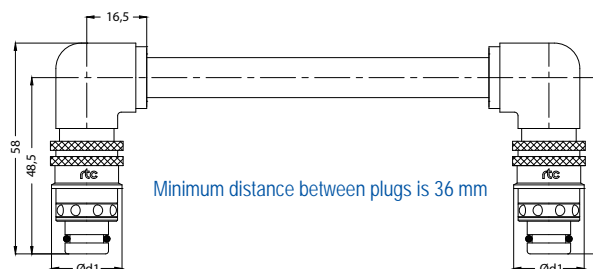
Cascade connector / Umlenkstecker



Cascade connector	Order No	Body Size	L	L1
	100.08 PCF 00 90	8	60	20



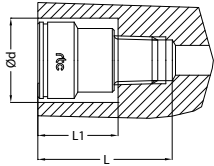
Brass Tube 11.0 x 1.5 / Messingrohr 11.0 x 1.5





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

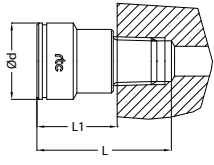
TYPE 100 **rtc**

Socket	Body Size	Connection	ØD min	L	L1	Torque (Nm)	INNER HEX.
	100.06	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
	100.08	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
	100.12	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



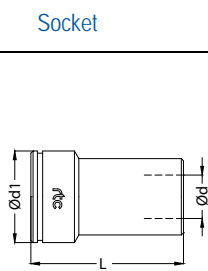
Assembling dimensions of the rised socket in the mold / Einbaumaße für Buchsen

TYPE 100 **rtc**

Socket	Body Size	Connection	D	L	L1	Torque (Nm)	INNER HEX.
	100.06	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
	100.08	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
	100.12	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

rtc TYPE 100

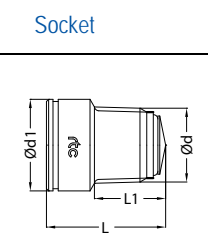
Female thread socket / Buchse mit Innengewinde



Socket	Body Size	Order No	D	D1	L	INNER HEX.
	100.06	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"
	100.08	100.12 SFF 17	BSP 3/8	21	49	12
		100.12 SFF 21	BSP 1/2	21	50	12

rtc TYPE 100

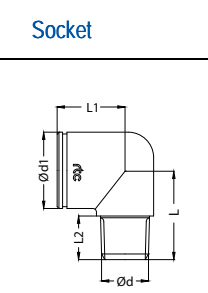
Male threaded socket with valve / Buchse mit Aussengewinde und Ventil



Socket	Body Size	Order No	D	D1	L	L1
	100.08	100.08 SRB 13	BSPT 1/4	21	38	21
		100.08 SRB 17	BSPT 3/8	21	29	11

rtc TYPE 100

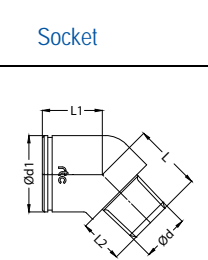
Male thread socket 90° / Buchse mit Aussengewinde 90°



Socket	Body Size	Order No	D	D1	L	L1	L2	INNER HEX.
	100.08	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°



Socket	Body Size	Order No	D	D1	L	L1	L2	INNER HEX.
	100.08	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



Socket extension without thread / Buchse Verlängerung ohne Aussengewinde

TYPE 100 **rtc**

Socket	Body Size	Order No	Connection	D1	D2	D3	L Min-Max.	L1	INNER HEX.
	100.06	100.06 SEF 10-100	1/8	17	18.5	11	33-100	20	6
	100.08	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
	100.12	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 without thread / Buchse Verlängerung ohne Aussengewinde

TYPE 100 **rtc**

Socket	Body Size	Order No	D Thread Size	D1	D2	D3	L Min-Max.	L1	L2	INNER HEX.
	100.08	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 **rtc**

Replacement Orings	Order No	Body Size	Material	Working Temp.
	SS 100.06 N	6	NBR	-10°C - 100°C
	SS 100.08 N	8	NBR	-10°C - 100°C
	SS 100.12 N	12	NBR	-10°C - 100°C
	SS 100.06 V	6	FKM	-5°C - 200°C
	SS 100.08 V	8	FKM	-5°C - 200°C
	SS 100.12 V	12	FKM	-5°C - 200°C