



# rtc<sup>®</sup>

COUPLING TECHNOLOGY



# 453

rtc TYPE



### Temperature Range - Temperaturbereich

Nitrile (N)	-20°C + 110°C (-4°F + 230°F)
FPM (V)	-20°C + 180°C (-4°F + 356°F)
EPDM (Ethylene Propylene)	-40°C + 150°C (-40°F + 302°F)

### Flow size - Nennweiten

rtc type 453.11	11mm
rtc type 453.19	19mm

### Working Pressure - Betriebsdruck

25 Bar (360 PSI)

### Connction/Disconnection Pressure - Druck bei Ein- und Auskuppeln

15 Bar (220 PSI)

### Material of steel version / Material für die Stahl Version

Socket Body - Kupplungsgrundkörper	Steel zinc-nickel plated Stahl Zink-Nickel beschichtet
Back Part - Hinterteil	Steel zinc-nickel plated Stahl Zink-Nickel beschichtet
Sleeve - Hülse	Steel zinc-nickel plated and orange painted Stahl Zink-Nickel beschichtet und orange Lackiert
Springs - Federn	Stainless steel - Edelstahl
Seals - Dichtungen	Nitrile (N)
Plug - Nippel	Steel zinc-nickel plated Stahl Zink-Nickel beschichtet

### Material of stainless steel version

#### Material für die Edelstahlversion

Socket Body - Kupplungsgrundkörper	Stainless steel Edelstahl
Back Part - Hinterteil	Stainless steel - Edelstahl
Sleeve - Hülse	Stainless steel - Edelstahl
Springs - Federn	Stainless steel - Edelstahl
Seals - Dichtungen	FPM (V)
Plug - Nippel	Stainless steel - Edelstahl

### Advantages

- The system perfectly fits to the **ISO 4414, EN 983** safety requirements.
- 2 stage disconnection safety feature
- Suitable for Heavy Duty Applications

### Vorteil

- Sicherheit gemäß **ISO 4414, EN 983**
- 2 stufen Sicherheitsentriegelung
- Geeignet für Heavy-Duty Anwendungen

### Working Principle

#### - Connection

Push the plug in the right position into the coupling and turn until it is heard to "engage" by a click by one-hand

#### - Disconnection

The plug can only be released by pulling the sleeve backwards while the plug is turned 90° inside the coupling around its own axis.

### Arbeitsprinzip

#### - Einkuppeln

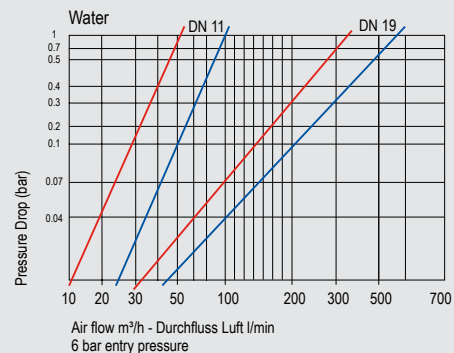
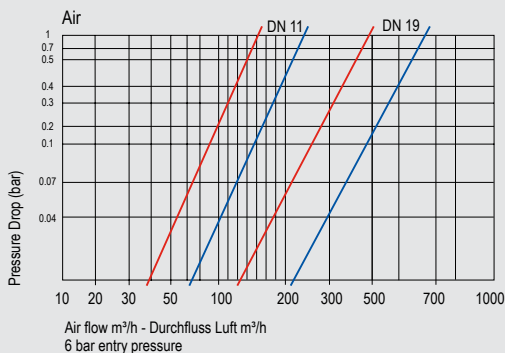
Der Nippel wird in der richtigen Position in die Kupplung eingedrückt und dabei um 90° gedreht. Das Einrasten ist hörbar.

#### - Entkuppeln

Zum Entkuppeln wird die Hülse zurück gezogen während der Nippel um die eigene Achse um 90° gedreht wird.



### Flow Rate vs Pressure Drop Graph



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Male thread socket / Kupplung mit Aussengewinde



Socket / Kupplung	Size / Größe	Alternative Order No Alternative Bestellnr.	Order No / Bestellnr.	Ød	Ød1	L	L1	HEX.
	11	-	453.11 SMB 21	BSP 1/2	50	87	13	32
		-	453.11 SMB 26	BSP 3/4	50	90	16	32
	11	R303 00 634	453.11 SMB 17-S6	BSP 3/8	50	86	12	32
		R303 00 635	453.11 SMB 21-S6	BSP 1/2	50	87	13	32
		R303 00 636	453.11 SMB 26-S6	BSP 3/4	50	90	16	32
		R303 00 637	453.11 SMB 33-S6	BSP 1	50	92	18	36
		R303 00 638	453.11 SNB 17-S6	NPT 3/8	50	86	12	32
		R303 00 639	453.11 SNB 21-S6	NPT 1/2	50	91	17	32
		R303 00 640	453.11 SNB 26-S6	NPT 3/4	50	93	19	32

**rtc** TYPE 453

Female thread socket / Kupplung mit Innengewinde



Socket / Kupplung	Size / Größe	Alternative Order No Alternative Bestellnr.	Order No / Bestellnr.	Ød	Ød1	L	HEX.
	11	R203 00 136	453.11 SFB 17	BSP 3/8	50	80	32
		R203 00 138	453.11 SFB 21	BSP 1/2	50	82	32
		R203 00 140	453.11 SFB 26	BSP 3/4	50	88	32
		-	453.11 SNB 21	NPT 1/2	50	82	32
	11	R303 00 629	453.11 SFB 17-S6	BSP 3/8	50	80	32
		R303 00 206	453.11 SFB 21-S6	BSP 1/2	50	82	32
		R303 00 630	453.11 SFB 26-S6	BSP 3/4	50	88	32
		R303 00 631	453.11 SNB 17-S6	NPT 3/8	50	80	32
		R303 00 632	453.11 SNB 21-S6	NPT 1/2	50	82	32
		R303 00 633	453.11 SNB 26-S6	NPT 3/4	50	88	32
	19	R203 00 280	453.19 SFB 26	BSP 3/4	60	104	45
		R203 00 278	453.19 SFB 33	BSP 1	60	104	45
		-	453.19 SNB 26	NPT 3/4	60	104	45
	19	R303 00 641	453.19 SNB 26-S6	BSP 3/4	60	104	45
		R303 00 642	453.19 SNB 33-S6	BSP 1	60	104	45
		R303 00 643	453.19 SNB 26-S6	NPT 3/4	60	104	45
R303 00 644		453.19 SNB 33-S6	NPT 1	60	104	45	

**rtc** TYPE 453

Male thread plug / Nippel mit Aussengewinde



Plug / Nippel	Size / Größe	Alternative Order No Alternative Bestellnr.	Order No / Bestellnr.	Ød	Ød1	L	L1	HEX.
	11	R255 00 157	453.11 PMF 17	BSP 3/8	17	63	11	24
		R255 00 158	453.11 PMF 21	BSP 1/2	17	64	12	24
		R255 00 159	453.11 PMF 26	BSP 3/4	17	69	15	30
		-	453.11 PTF 21	NPT 1/2	17	71	17	24
		-	453.11 PTF 26	NPT 3/4	17	72	19	27
		11	R355 00 135	453.11 PMF 17-S6	BSP 3/8	17	63	11
	R355 00 136		453.11 PMF 21-S6	BSP 1/2	17	64	12	24
	R355 00 137		453.11 PMF 26-S6	BSP 3/4	17	69	15	30
	R355 00 285		453.11 PTF 21-S6	NPT 1/2	17	71	17	24
	R355 00 340		453.11 PTF 26-S6	NPT 3/4	17	72	19	27
	19	R255 00 309	453.19 PMF 26	BSP 3/4	24	98	15	36
		R255 00 310	453.19 PMF 33	BSP 1	24	100	18	36
		-	453.19 PTF 26	NPT 3/4	24	101	19	36
		-	453.19 PTF 33	NPT 1	24	106	24	36
	19	R355 00 279	453.19 PMF 26-S6	BSP 3/4	24	98	15	36
		R355 00 280	453.19 PMF 33-S6	BSP 1	24	100	18	36
R355 00 341		453.19 PTF 26-S6	NPT 3/4	24	101	19	36	
R355 00 342		453.19 PTF 33-S6	NPT 1	24	106	24	36	



Standard hose tail plug / Nippel mit gerader Standard - Schlauchtülle

TYPE 453 **rtc**

Plug / Nippel	Size / Größe	Alternative Order No Alternative Bestellnr.	Order No / Bestellnr.	Ød	Ød1	L	L1
	11	R255 00 153	453.11 PHF 13	13 mm	17	83	37
		R255 00 154	453.11 PHF 16	16 mm	17	83	37
		R255 00 155	453.11 PHF 19	19 mm	17	83	37
	11	R355 00 131	453.11 PHF 10-S6	10 mm	17	83	37
		R355 00 132	453.11 PHF 13-S6	13 mm	17	83	37
		R355 00 133	453.11 PHF 16-S6	16 mm	17	83	37
		R355 00 134	453.11 PHF 19-S6	19 mm	17	83	37
	19	R255 00 311	453.19 PHF 19	19 mm	24	114	37
		R255 00 312	453.19 PHF 25	25 mm	24	120	43
	19	R355 00 281	453.19 PHF 19-S6	19 mm	24	114	37
		R355 00 282	453.19 PHF 25-S6	25 mm	24	120	43



Male thread plug with valve / Nippel mit Aussengewinde mit Ventil

TYPE 453 **rtc**

Plug / Nippel	Size / Größe	Alternative Order No Alternative Bestellnr.	Order No / Bestellnr.	Ød	Ød1	L	L1	HEX.
	11	-	453.11 PMB 17	BSP 3/8	17	95	12	30
		R253 00 008	453.11 PMB 21	BSP 1/2	17	96	13	30
	11	R353 00 327	453.11 PMB 17-S6	BSP 3/8	17	96	13	30
		R353 00 328	453.11 PMB 21-S6	BSP 1/2	17	96	13	30
		R353 00 329	453.11 PMB 26-S6	BSP 3/4	17	99	16	30
		R353 00 330	453.11 PTB 17-S6	NPT 3/8	17	96	13	30
		R353 00 331	453.11 PTB 21-S6	NPT 1/2	17	99	16	30



Female thread plug with valve / Nippel mit Innengewinde mit Ventil

TYPE 453 **rtc**

Plug / Nippel	Size / Größe	Alternative Order No Alternative Bestellnr.	Order No / Bestellnr.	Ød	Ød1	L	HEX.
	11	-	453.11 PFB 17	BSP 3/8	17	90	30
		R253 00 006	453.11 PFB 21	BSP 1/2	17	94	30
	11	R353 00 226	453.11 PFB 17-S6	BSP 3/8	17	90	30
		R353 00 015	453.11 PFB 21-S6	BSP 1/2	17	94	30
		R353 00 325	453.11 PNB 17-S6	NPT 3/8	17	90	30
		R353 00 326	453.11 PNB 21-S6	NPT 1/2	17	94	30



Standard hose tail plug with valve / Nippel mit gerader mit Ventil Standard - Schlauchtülle

TYPE 453 **rtc**

Plug / Nippel	Size / Größe	Alternative Order No Alternative Bestellnr.	Order No / Bestellnr.	Ød	Ød1	L	L1
	11	R253 00 009	453.11 PHB 13	13 mm	17	118	37
		R253 00 010	453.11 PHB 16	16 mm	17	118	37
		R253 00 011	453.11 PHB 19	19 mm	17	118	37
	11	R353 00 332	453.11 PHB 13-S6	13 mm	17	118	37
		R353 00 333	453.11 PHB 16-S6	16 mm	17	118	37
		R353 00 273	453.11 PHB 19-S6	19 mm	17	118	37
	19	R253 00 270	453.19 PHB 19	19 mm	24	160	37
		R253 00 269	453.19 PHB 25	25 mm	24	173	49
	19	R353 00 219	453.19 PHB 19-S6	19 mm	24	160	37
		R353 00 218	453.19 PHB 25-S6	25 mm	24	173	49