



rtc[®]

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

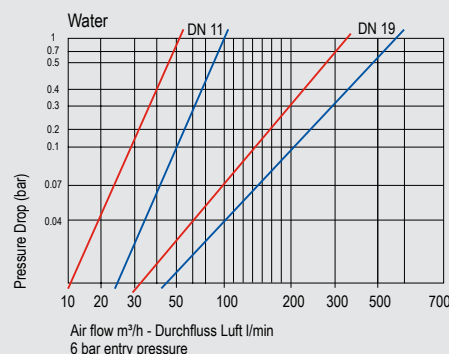
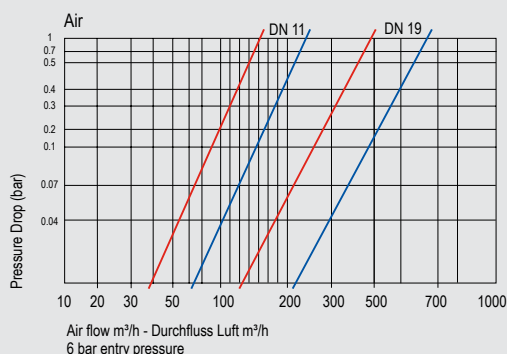
Der Nippel wird in der richtigen Position in die Kupplung eingedrückt und dabei um 90° gedreht. Das Einrasten ist hörbar.

- 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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rtc TYPE 453

Male thread socket / Kupplung mit Aussengewinde



Socket / Kupplung

Size / Größe

Alternative Order No
Alternative Bestellnr.

Order No / Bestellnr.

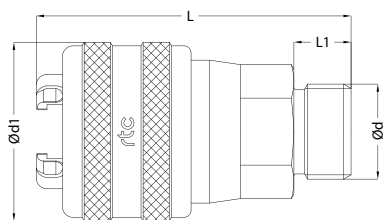
Ød

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.

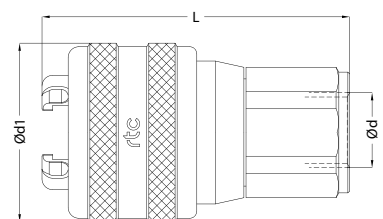
Order No / Bestellnr.

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.

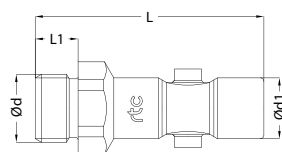
Ød

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

24

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



Standard hose tail plug / Nippel mit gerader Standard - Schlauchtülle

TYPE 453



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



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



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



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