



# rtc<sup>®</sup>

## QUICK CONNECT TECHNOLOGY



# 173

rtc TYPE

rtc 173 type Coupling systems are applicable for quick changing of injection moulding and die cast molds.



Temperature Range

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)
PTFE (T)	-20°C + 270°C (- 4°F + 518°F)
FFKM (W)	-20°C + 325°C (- 4°F + 617°F)

Flow size

rtc type 173.03	3 mm
rtc type 173.06	5.5 mm
rtc type 173.08	8 mm
rtc type 173.11	11 mm
rtc type 173.19	19 mm

Standard Types:

Material

Socket body; AISI 303 stainless steel  
others are mostly %17 choremium steel

Socket back adaptor; Steel Zink Plated

IA Types:

Material

Socket body; AISI 303 stainless steel  
Socket back adaptor; AISI 303 stainless steel

Plug body and push button high resistance  
stainless steel

HL & HG Types:

Material

Socket body; AISI 303 stainless steel  
Socket back adaptor; AISI 303 stainless steel  
Others parts mainly AISI 316L stainless steel

Plug body and push button high  
resistance stainless steel

HI Types:

Material

Socket body; AISI 316L stainless steel

Plug body and push button high  
resistance stainless steel

IC Types:

Material

AISI 316L stainless steel

VA Types:

Vacuum

Vacuum tightness: 1.10<sup>-3</sup> cm<sup>3</sup> / s.  
in connected and disconnected position.



Docking Coupling

**Using Area**

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

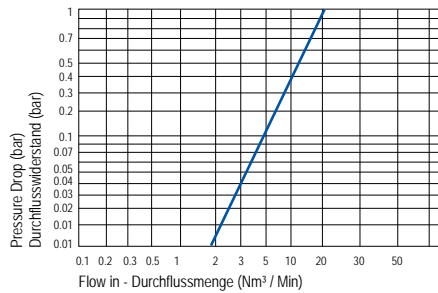
rtc TYPE 173.03

Sockets & Plugs / Kupplungen & Nippel

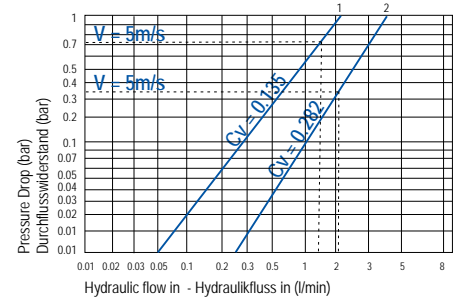


Technical Spec. - Technische Daten	Standart Type	IA Type	IC Type	HL Type	HG Type	HI Type	VA Type
Nominal Ø (mm) - Nennweite Ø (mm) Nominal Area (mm <sup>2</sup> ) - Nennfläche (mm <sup>2</sup> )	3 7	3 7	3 7	3 7	3 7	3 7	3 7
Maximum Working Pressure (Bar) Maximaler Betriebsdruck (Bar)	50	50	15	400	400	400	10 <sup>-3</sup> torr
Maximum Working Pressure (PSI) Maximaler Betriebsdruck (PSI)	725	725	217	5800	5800	5800	
O-Ring (-15 °C + 100)	NBR						

Pneumatic charts flow rate  
Pressure drop from the single shut-off system



Hydraulic charts flow rate, pressure drop



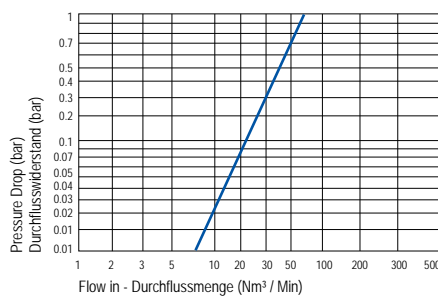
rtc TYPE 173.06

Sockets & Plugs / Kupplungen & Nippel

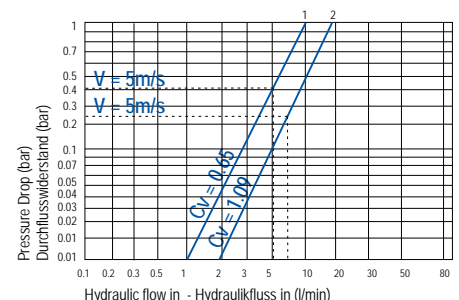


Technical Spec. - Technische Daten	Standart Type	IA Type	IC Type	HL Type	HG Type	HI Type	VA Type
Nominal Ø (mm) - Nennweite Ø (mm) Nominal Area (mm <sup>2</sup> ) - Nennfläche (mm <sup>2</sup> )	6 23.8	6 23.8	6 23.8	6 23.8	6 23.8	6 23.8	6 23.8
Maximum Working Pressure (Bar) Maximaler Betriebsdruck (Bar)	50	50	15	450	450	450	10 <sup>-3</sup> torr
Maximum Working Pressure (PSI) Maximaler Betriebsdruck (PSI)	725	725	217	6550	6550	6550	
O-Ring (-15 °C + 100)	NBR						

Pneumatic charts flow rate  
Pressure drop from the single shut-off system



Hydraulic charts flow rate, pressure drop





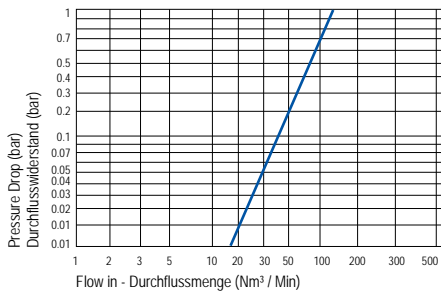
Sockets & Plugs / Kupplungen & Nippel

TYPE 173.08

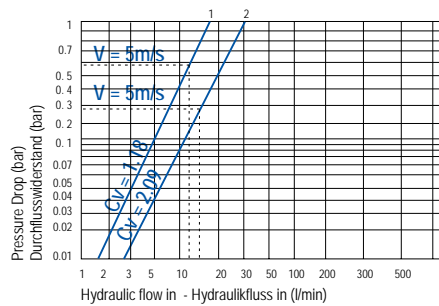


Technical Spec. - Technische Daten	Standart Type	IA Type	IC Type	HL Type	HG Type	HI Type	VA Type
Nominal Ø (mm) - Nennweite Ø (mm)	8	8	8	8	8	8	8
Nominal Area (mm <sup>2</sup> ) - Nennfläche (mm <sup>2</sup> )	50	50	50	50	50	50	50
Maximum Working Pressure (Bar) Maximaler Betriebsdruck (Bar)	50	50	15	400	400	400	10 <sup>-3</sup> torr
Maximum Working Pressure (PSI) Maximaler Betriebsdruck (PSI)	725	725	217	5800	5800	5800	
O-Ring (-15 °C + 100)	NBR						

Pneumatic charts flow rate  
Pressure drop from the single shut-off system



Hydraulic charts flow rate, pressure drop



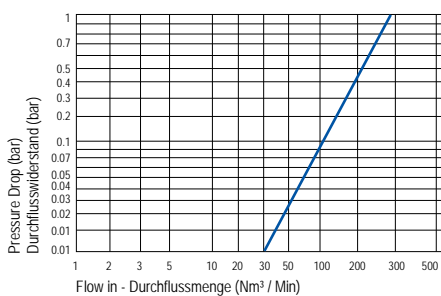
Sockets & Plugs / Kupplungen & Nippel

TYPE 173.11

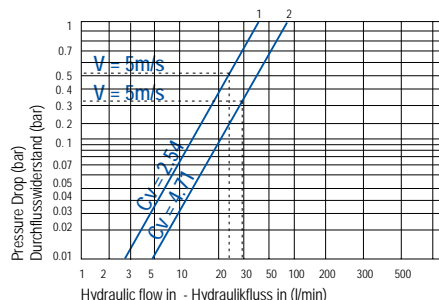


Technical Spec. - Technische Daten	Standart Type	IA Type	IC Type	HL Type	HG Type	HI Type	VA Type
Nominal Ø (mm) - Nennweite Ø (mm)	11	11	11	11	11	11	11
Nominal Area (mm <sup>2</sup> ) - Nennfläche (mm <sup>2</sup> )	95	95	95	95	95	95	95
Maximum Working Pressure (Bar) Maximaler Betriebsdruck (Bar)	50	50	15	350	350	350	10 <sup>-3</sup> torr
Maximum Working Pressure (PSI) Maximaler Betriebsdruck (PSI)	725	725	217	5080	5080	5080	
O-Ring (-15 °C + 100)	NBR						

Pneumatic charts flow rate  
Pressure drop from the single shut-off system



Hydraulic charts flow rate, pressure drop



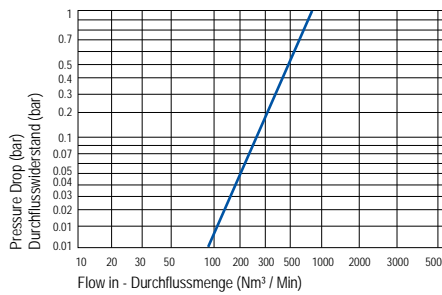
rtc TYPE 173.19

Sockets & Plugs / Kupplungen & Nippel

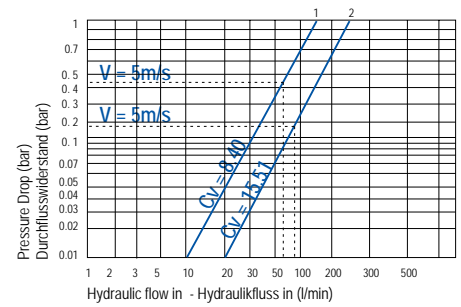


Technical Spec. - Technische Daten	Standart Type	IA Type	IC Type	HL Type	HG Type	HI Type	VA Type
Nominal Ø (mm) - Nennweite Ø (mm)	19	19	19	19	19	19	19
Nominal Area (mm <sup>2</sup> ) - Nennfläche (mm <sup>2</sup> )	283.5	283.5	283.5	283.5	283.5	283.5	283.5
Maximum Working Pressure (Bar) Maximaler Betriebsdruck (Bar)	50	50	15	300	300	300	10 <sup>-3</sup> torr
Maximum Working Pressure (PSI) Maximaler Betriebsdruck (PSI)	725	725	217	4350	4350	4350	
O-Ring (-15 °C + 100)	NBR						

Pneumatic charts flow rate  
Pressure drop from the single shut-off system

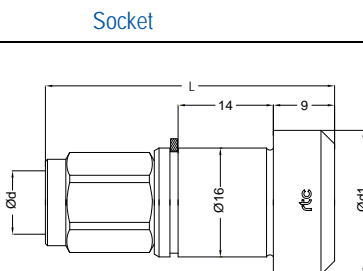


Hydraulic charts flow rate, pressure drop



rtc TYPE 173.03

Female thread socket / Kupplung mit Innengewinde






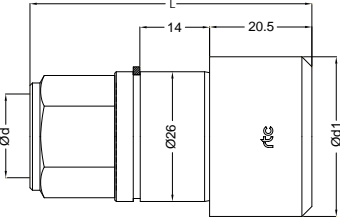
Socket	Size (mm)	Connection (Ød)	Order No / Bestellnr. Single Shut-off	Order No / Bestellnr. Double Shut-off	Order No / Bestellnr. Thru-Flow	Ød1	L	HEX.
03		BSP 1/8	173.03 SFO 10	173.03 SFB 10	173.03 SFF 10	22	42.5	14
		NPT 1/8	173.03 SNO 10	173.03 SNB 10	173.03 SNF 10	22	42.5	14
		UNF 7/16-20	173.03 SUO 1120	173.03 SUB 11	173.03 SUF 11	22	42.5	14



Female thread socket / Kupplung mit Innengewinde

TYPE 173.06






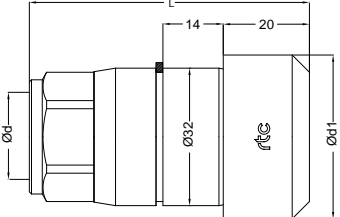
Socket	Size (mm)	Connection (Ød)				Ød1	L	HEX.
			Order No / Bestellnr. Single Shut-off	Order No / Bestellnr. Double Shut-off	Order No / Bestellnr. Thru-Flow			
	06	BSP 1/8	173.06 SFO 10	173.06 SFB 10	173.06 SFF 10	32	49.5	22
		BSP 1/4	173.06 SFO 13	173.06 SFB 13	173.06 SFF 13	32	52.5	22
		BSP 3/8	173.06 SFO 17	173.06 SFB 17	173.06 SFF 17	32	60.5	22
		BSP 1/2	173.06 SFO 21	173.06 SFB 21	173.06 SFF 21	32	63.5	24
		NPT 1/8	173.06 SNO 10	173.06 SNB 10	173.06 SNF 10	32	47.5	22
		NPT 1/4	173.06 SNO 13	173.06 SNB 13	173.06 SNF 13	32	51.5	22
		NPT 3/8	173.06 SNO 17	173.06 SNB 17	173.06 SNF 17	32	60.5	22
		UN 9/16-18	173.06 SUO 1418	173.06 SUB 14	173.06 SUF 14	32	59.5	22



Female thread socket / Kupplung mit Innengewinde

TYPE 173.08






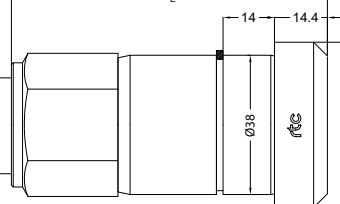
Socket	Size (mm)	Connection (Ød)				Ød1	L	HEX.
			Order No / Bestellnr. Single Shut-off	Order No / Bestellnr. Double Shut-off	Order No / Bestellnr. Thru-Flow			
	08	BSP 1/4	173.08 SFO 13	173.08 SFB 13	173.08 SFF 13	38	65	27
		BSP 3/8	173.08 SFO 17	173.08 SFB 17	173.08 SFF 17	38	65	27
		BSP 1/2	173.08 SFO 21	173.08 SFB 21	173.08 SFF 21	38	74	27
		NPT 1/4	173.08 SNO 13	173.08 SNB 13	173.08 SNF 13	38	64	27
		NPT 3/8	173.08 SNO 17	173.08 SNB 17	173.08 SNF 17	38	64	27
		NPT 1/2	173.08 SNO 21	173.08 SNB 21	173.08 SNF 21	38	74	27
		UN 3/4-16	173.08 SUO 1916	173.08 SUB 1916	173.08 SUF 1916	38	76.5	27



Female thread socket / Kupplung mit Innengewinde

TYPE 173.11






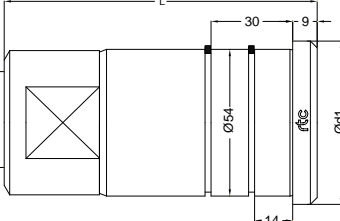
Socket	Size (mm)	Connection (Ød)				Ød1	L	HEX.
			Order No / Bestellnr. Single Shut-off	Order No / Bestellnr. Double Shut-off	Order No / Bestellnr. Thru-Flow			
	11	BSP 3/8	173.11 SFO 17	173.11 SFB 17	173.11 SFF 17	45	76	32
		BSP 1/2	173.11 SFO 21	173.11 SFB 21	173.11 SFF 21	45	78	32
		BSP 3/4	173.11 SFO 26	173.11 SFB 26	173.11 SFF 26	45	86	34
		NPT 3/8	173.11 SNO 17	173.11 SNB 17	173.11 SNF 17	45	74	32
		NPT 1/2	173.11 SNO 21	173.11 SNB 21	173.11 SNF 21	45	76	32
		NPT 3/4	173.11 SNO 26	173.11 SNB 26	173.11 SNF 26	45	80	34
		UN 7/8-14	173.11 SUO 2214	173.11 SUB 2214	173.11 SUF 2214	45	86	32



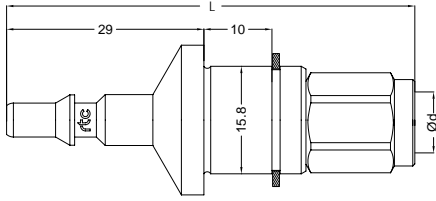
Female thread socket / Kupplung mit Innengewinde

TYPE 173.19



Socket	Size (mm)	Connection (Ød)				Ød1	L	HEX.
			Order No / Bestellnr. Single Shut-off	Order No / Bestellnr. Double Shut-off	Order No / Bestellnr. Thru-Flow			
	19	BSP 3/4	173.19 SFO 26	173.19 SFB 26	173.19 SFF 26	60	119	46
		BSP 1	173.19 SFO 33	173.19 SFB 33	173.19 SFF 33	60	121	46
		NPT 3/4	173.19 SNO 26	173.19 SNB 26	173.19 SNF 26	60	123	46
		NPT 1	173.19 SNO 33	173.19 SNB 33	173.19 SNF 33	60	125	46

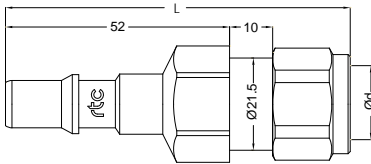
rtc TYPE 173.03 Plug / Nippel



Female thread plug

Body Size	Connection (Ød)	Order No / Bestellnr. Double Shut-off	Order No / Bestellnr. Thru-Flow	L	HEX.
03	BSP 1/8	173.03 PFB 10	173.03 PFF 10	51	14
	NPT 1/8	173.03 PNB 10	173.03 PNF 10	51	14
	UNF 7/16-20	173.03 PUB 11	173.03 PUF 11	56	14

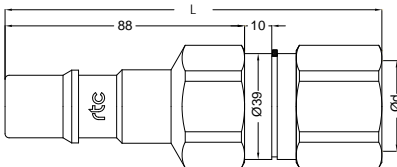
rtc TYPE 173.08 Plug / Nippel



Female thread plug

Body Size	Connection (Ød)	Order No / Bestellnr. Double Shut-off	Order No / Bestellnr. Thru-Flow	L	HEX.
08	BSP 1/4	173.08 PFB 13	173.08 PFF 13	57	19
	BSP 3/8	173.08 PFB 17	173.08 PFF 17	59	24
	BSP 1/2	173.08 PFB 21	173.08 PFF 21	62	24
	NPT 1/4	173.08 PNB 13	173.08 PNF 13	57	19
	NPT 3/8	173.08 PNB 17	173.08 PNF 17	58	24
	NPT 1/2	173.08 PNB 21	173.08 PNF 21	62	24
	UN 3/4-16	173.08 PUB 1916	173.08 PUF 1916	65	24

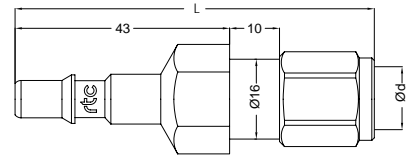
rtc TYPE 173.19 Plug / Nippel



Female thread plug

Body Size	Connection (Ød)	Order No / Bestellnr. Double Shut-off	Order No / Bestellnr. Thru-Flow	L	HEX.
19	BPS 3/4	173.19 PFB 26	173.19 PFF 26	130	41
	BSP 1	173.19 PFB 33	173.19 PFF 33	136	41
	NPT 3/4	173.19 PNB 26	173.19 PNF 26	128	41
	NPT 1	173.19 PNB 33	173.19 PNF 33	134	41
	UN 1-5/16-12	173.11 PUB 3312	173.11 PUF 3312	135	41

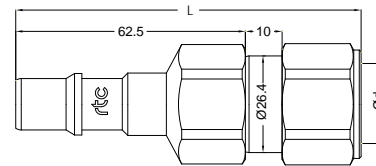
rtc TYPE 173.06 Plug / Nippel



Female thread plug

Body Size	Connection (Ød)	Order No / Bestellnr. Double Shut-off	Order No / Bestellnr. Thru-Flow	L	HEX.
06	BSP 1/8	173.06 PFB 10	173.06 PFF 10	65	17
	BSP 1/4	173.06 PFB 13	173.06 PFF 13	70	17
	BSP 3/8	173.06 PFB 17	173.06 PFF 17	72	22
	NPT 1/8	173.06 PNB 10	173.06 PNF 10	65	17
	NPT 1/4	173.06 PNB 13	173.06 PNF 13	70	17
	NPT 3/8	173.06 PNB 17	173.06 PNF 17	71	22
	UN 9/16-20	173.06 PUB 1420	173.06 PUF 1420	72	19
	M 14x1.25	173.06 PFB 14125	173.06 PFF 14125	70	19

rtc TYPE 173.11 Plug / Nippel



Female thread plug

Body Size	Connection (Ød)	Order No / Bestellnr. Double Shut-off	Order No / Bestellnr. Thru-Flow	L	HEX.
11	BSP 1/4	173.11 PFB 13	173.11 PFF 13	90	30
	BSP 3/8	173.11 PFB 17	173.11 PFF 17	91	30
	BSP 1/2	173.11 PFB 21	173.11 PFF 21	94	30
	BSP 3/4	173.11 PFB 26	173.11 PFF 26	98	32
	NPT 3/8	173.11 PNB 17	173.11 PNF 17	88	30
	NPT 1/2	173.11 PNB 21	173.11 PNF 21	95	30
	NPT 3/4	173.11 PNB 26	173.11 PNF 26	95	32
	UN 7/8-14	173.11 PUB 2214	173.11 PUF 2214	98	30