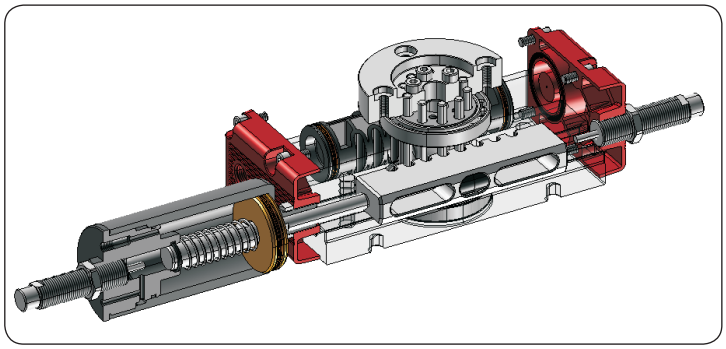
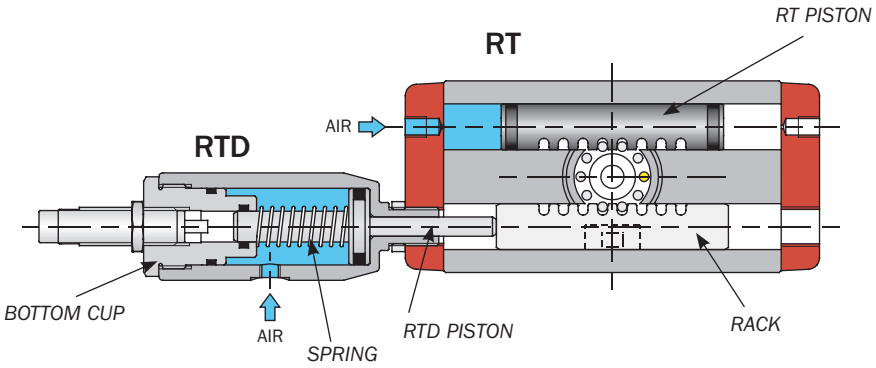
Intermediate stopping units series RTD



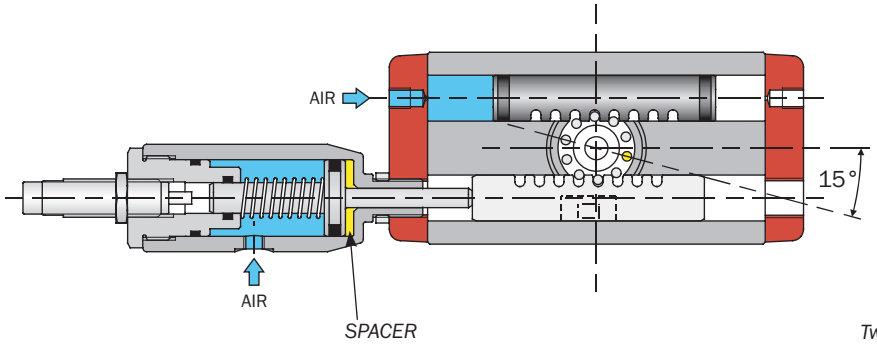
	RTD-10	RTD-12	RTD-20	RTD-25	RTD-35	RTD-45	RTD-63
Medium	*Filtered, lubricated / non lubricated compressed air*						
Maximum pressure range	8 bar						
Temperature range	5° ÷ 60°C.						
Stroke for 90°	9.42 mm	12.75 mm	16.22 mm	20.85 mm	20.66 mm	26.78 mm	32.14 mm
Piston bore	15 mm	20 mm	30 mm	35 mm	50 mm	63 mm	80 mm
Consumption each stroke	2 cm^3	7 cm^3	21 cm^3	37 cm^3	74 cm^3	154 cm^3	339 cm^3
Weight	50 g	100 g	175 g	280 g	400 g	930 g	1520 g
To be used with	RT-10	RT-12	RT-20	RT-25	RT-35	RT-45	RT-63

Operating principle

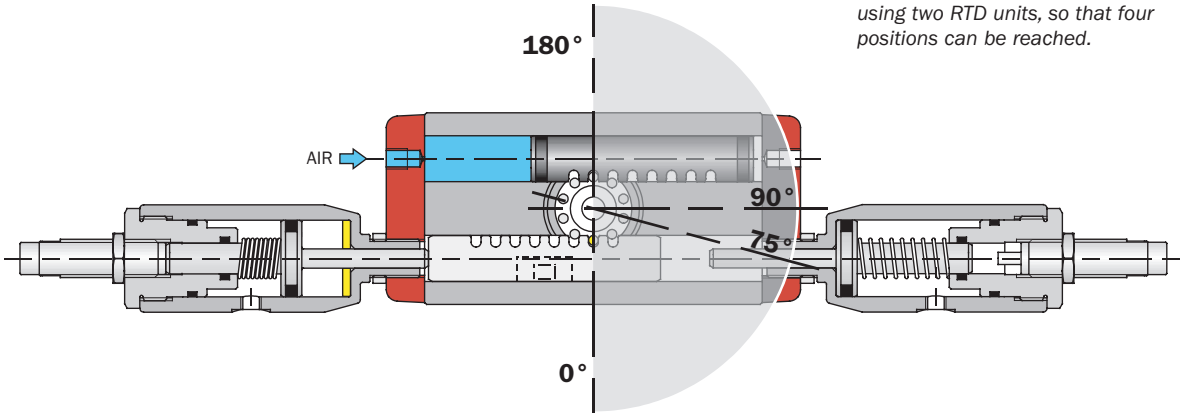
The intermediate stopping unit RTD is a stroke reducer, acting against the rack of the swiveling unit RT, by a piston rod.
The RTD piston bore is larger than RT and, pressurized at the same pressure, it stops in the middle the RT stroke.
When not pressurized a spring keeps the RTD piston rod against the RT rack.



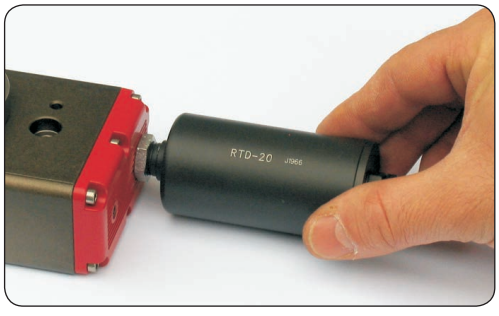
The RTD stroke can be modified by spacers in front of the piston, so that the intermediate stop can be moved in a different position.
To mount a spacer the RTD must be open to extract the piston.



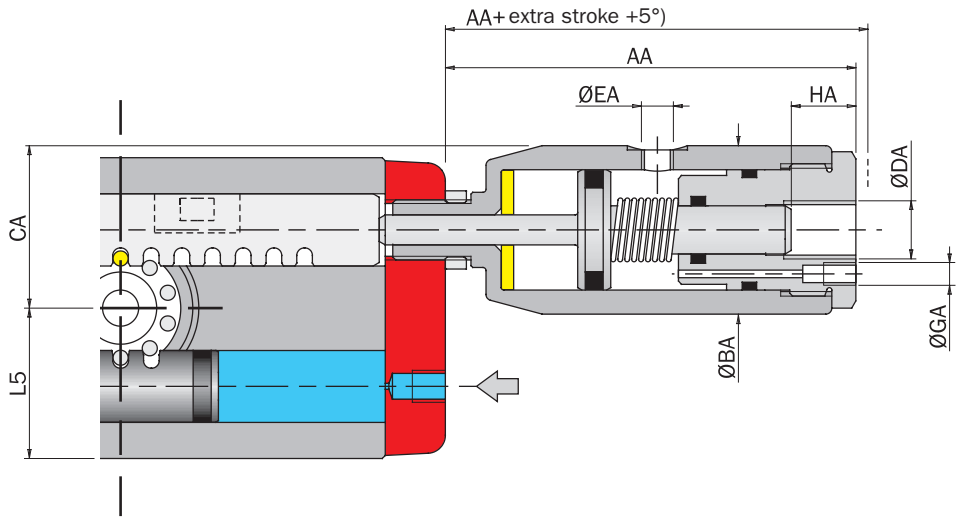
Two intermediate stops are possible using two RTD units, so that four positions can be reached.



The external end stroke positions can be adjusted (0°±5° or 180°±5°) by the same end stroke devices used in the RT (shock-absorbers, rubber bumpers, grub screws). The mid-stop position can be adjusted (90°±5°) by moving the whole RTD body.



Dimensions (mm)

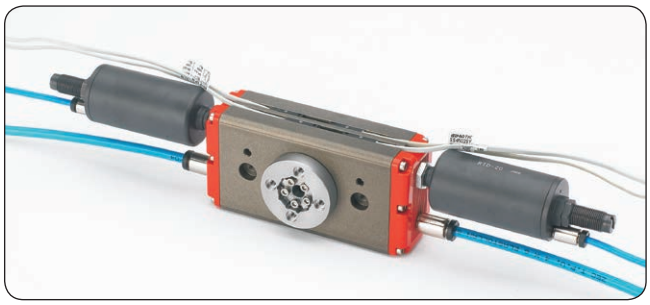


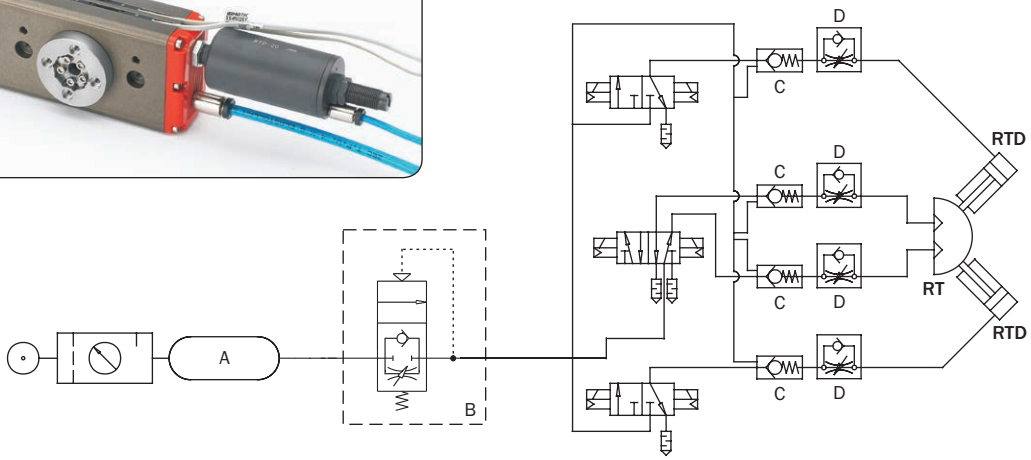
	RTD-10	RTD-12	RTD-20	RTD-25	RTD-35	RTD-45	RTD-63
AA	50.7	70.2	86.7	98.7	98	127.6	148.5
AA+	51.2	71	87.6	100	99	129	150.3
BA	Ø23	Ø28	Ø36	Ø44	Ø56	Ø70	Ø89
CA	20.5	27	34	42.5	50	61	71.5
DA	M8x1	M10x1	M12x1	M12x1	M14x1.5	M20x1.5	M25x1.5
EA	(n°3) M5	(n°3) M5	-	-	-	-	-
GA	-	-	M5	M5	G1/8	G1/4	G1/4
L5	19	25	32.5	40.5	53	64	87
HA	7.2	10.7	11.8	14	15.9	21.7	27.4

Pneumatic circuit

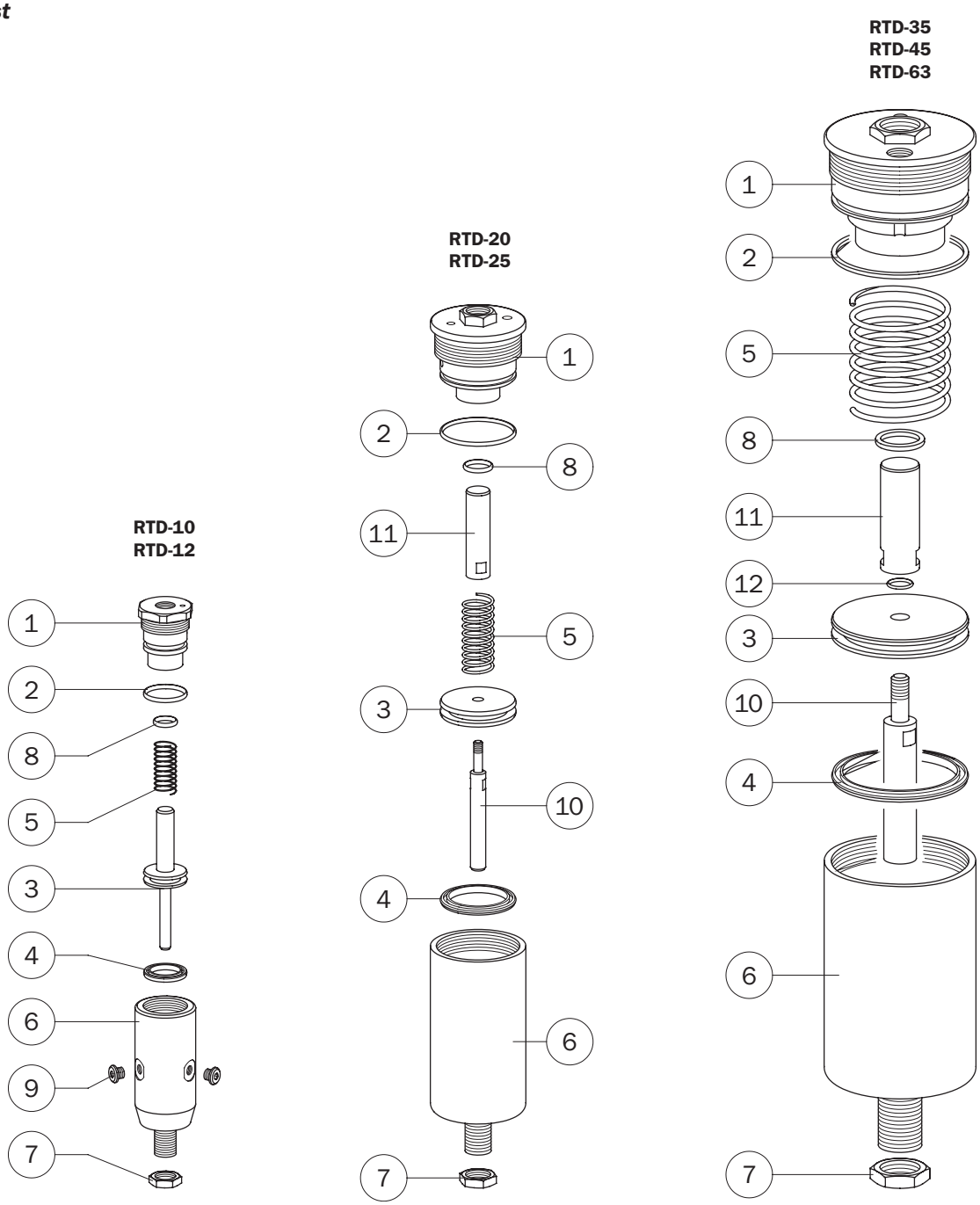
Possible problems on a compressed air circuit:
1- Pressure variation.
2- Pressurizing with empty cylinder.
3- Sudden pressure black-out.
4- Excessive speed.

Possible solutions:
1- Compressed air storage (A).
2- Start-up valve (B).
3- Safety valve (C).
4- Flow controller (D).





Part list



		RTD-10	RTD-12	RTD-20	RTD-25	RTD-35	RTD-45	RTD-63		
1	*Bottom cup*	RTD-10-7	RTD-12-7	RTD-20-7	RTD-25-7	RTD-35-7	RTD-45-7	RTD-63-7		*1*
2	*O-Ring*	GUAR-047 (Ø1.78x12.42)	GUAR-076 (Ø1.78x17.17)	GUAR-036 (Ø1.78x26.70)	GUAR-009 (Ø1.78x31.47)	GUAR-127 (Ø2.62x45.69)	GUAR-128 (Ø2.62x58.42)	GUAR-132 (Ø2.62x75.27)		*2*
3	*Piston*	RTD-10-03	RTD-12-03	RTD-20-03	RTD-25-03	RTD-35-03	RTD-45-03	RTD-63-03		*3*
4	*Gasket*	GUAR-019 (15x9x3)	GUAR-120 (20.7x13.7x2.55)	GUAR-113E (30x22x3.5)	GUAR-123E (35x27x3.5)	GUAR-114E (50x42.3.5)	GUAR-049E (63x53x4.5)	GUAR-126 (80x70x4.5)		*4*
5	*Spring*	RTD-10-20	RTD-12-20	RTD-25-20	RTD-25-20	OFR-95-07	GN-30S-05	GN-30S-05		*5*
6	*Body*	RTD-10-02	RTD-12-02	RTD-20-02	RTD-25-02	RTD-35-02	RTD-45-02	RTD-63-02		*6*
7	*Nut*	M8X1	M10X1	M12X1	M12X1	M14X1.5	M20X1.5	M25X1.5		*7*
8	*O-Ring*	GUAR-012 (Ø1.78x6.75)	GUAR-045 (Ø1.78x7.66)	GUAR-080 (Ø1.78x10.82)	GUAR-080 (Ø1.78x10.82)	GUAR-047 (Ø1.78x12.42)	GUAR-034 (Ø2.62x17.86)	GUAR-061 (Ø2.62x20.29)		*8*
9	*Plug*	107-M5	107-M5	-	-	-	-	-		*9*
10	*Piston rod*	-	-	RTD-20-05	RTD-25-05	RTD-35-05	RTD-45-05	RTD-63-05		*10*
11	*End stroke stopper*	-	-	RTD-20-04	RTD-25-04	RTD-35-04	RTD-45-04	RTD-63-04		*11*
12	*O-Ring*	-	-	-	-	-	GUAR-013 (Ø1.78x8.73)	GUAR-080 (Ø1.78x10.82)		*12*