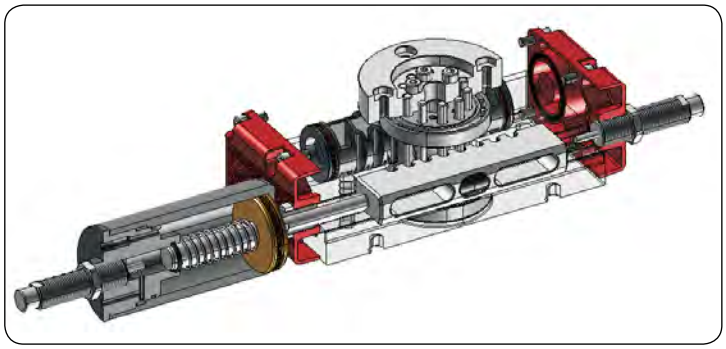
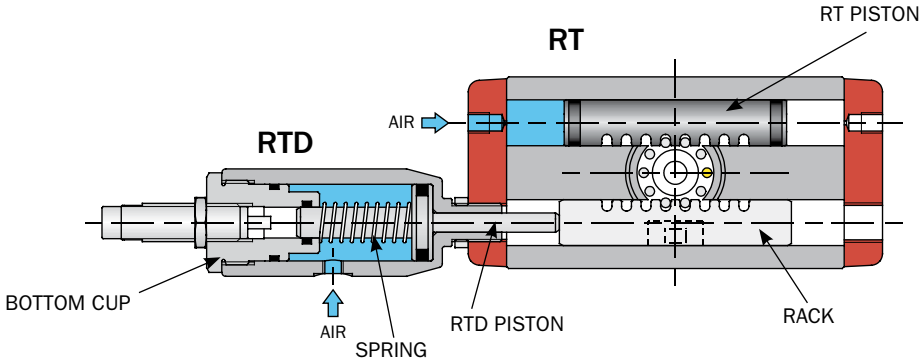
INTERMEDIATE STOPPING UNITS (SERIES RTD)



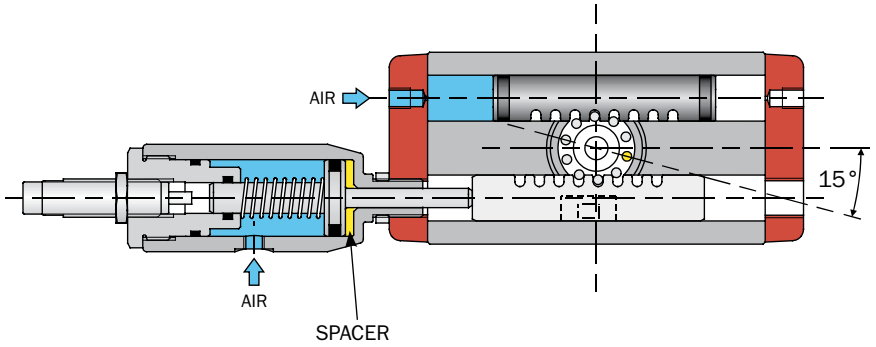
	RTD-10	RTD-12	RTD-20	RTD-25	RTD-35	RTD-45	RTD-63
Price	$141.00	$152.00	$175.00	$187.00	$209.00	$253.00	$338.00
Fluid	Filtered compressed air, lubricated or non-lubricated						
Maximum operating pressure	116 psi						
Temperature range	41-140 °F						
Stroke for 90°	0.37" (9.42 mm)	0.50" (12.75 mm)	0.63" (16.22 mm)	0.82" (20.85 mm)	0.81" (20.66 mm)	1.05" (26.78 mm)	1.26" (32.14 mm)
Bore	0.59" (15 mm)	0.78" (20 mm)	1.18" (30 mm)	1.37" (35 mm)	1.96" (50 mm)	2.48" (63 mm)	3.15" (80 mm)
Air consumption per stroke	0.12 in^3	0.42 in^3	1.28 in^3	2.25 in^3	4.51 in^3	9.39 in^3	20.68 in^3
Weight	0.11 lb (55g)	0.22 lb (100g)	0.38 lb (190g)	0.61 lb (300g)	0.88 lb (450g)	2.05 lb (1000g)	3.35 lb (1675g)
To be used with	RT-10	RT-12	RT-20	RT-25	RT-35	RT-45	RT-63

OPERATING PRINCIPLE

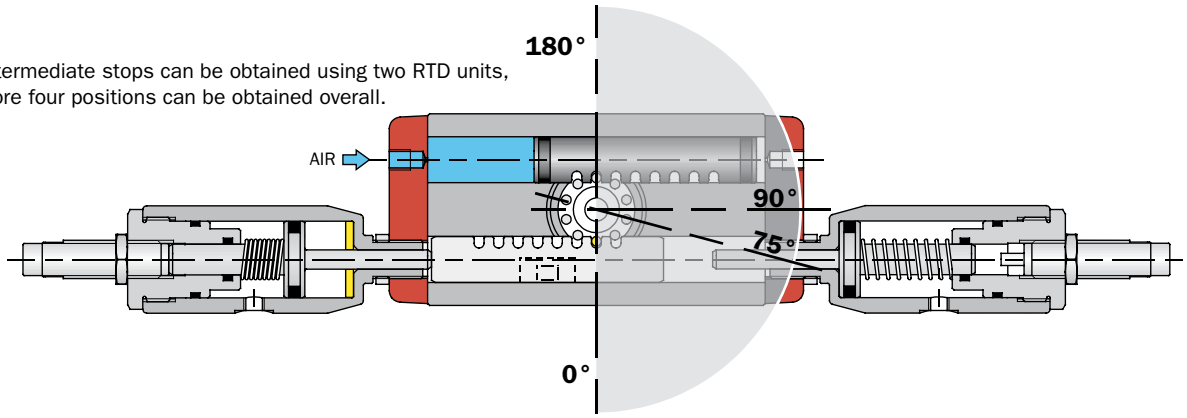
The RTD intermediate stopping unit is a stroke reducer, which acts on the rack of the RT rotary actuator RT via a piston with a bore larger than that of the RT actuator.
Thus, when pressurized at the same pressure, it stops the RT in the middle of the stroke.
When not pressurized, a spring keeps the RTD piston rod against the RT rack.



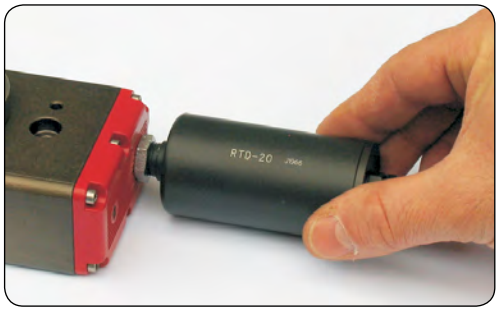
The RTD stroke can be easily adjusted by means of spacers to be placed in front of the piston, so that the intermediate stop can take place in different positions.
In order to mount a spacer, the bottom cup must unscrewed and the piston extracted.



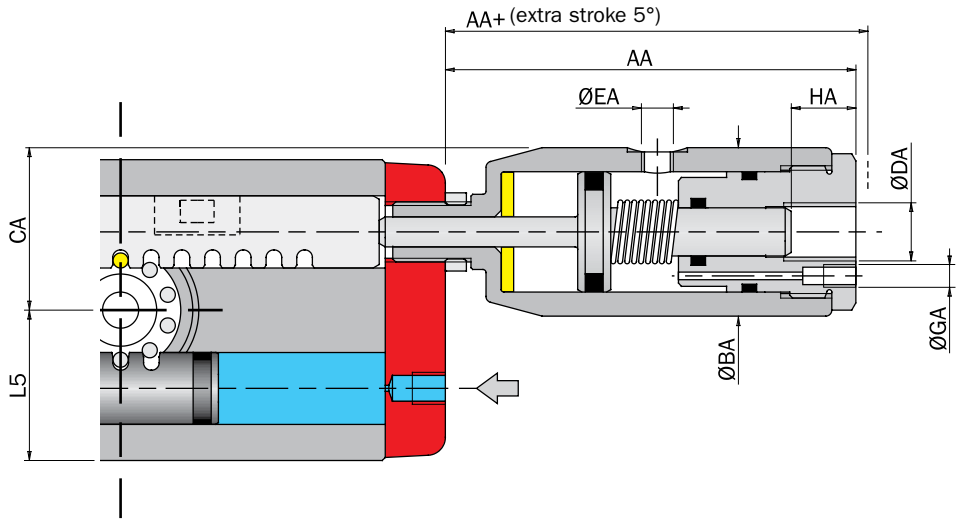
Two intermediate stops can be obtained using two RTD units, therefore four positions can be obtained overall.



The external end-of-stroke positions can be adjusted (0°±5° or 180°±5°) by means of the same devices as used in the RT (shock absorbers, rubber bumpers, stop dowels).
The mid-stop position can be adjusted (90°±5°) by screwing/unscrewing the RTD in the RT.



DIMENSIONS (mm)

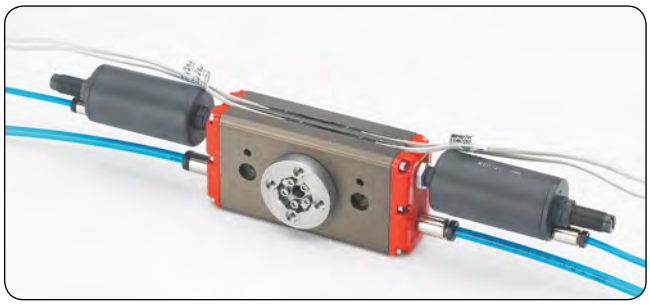


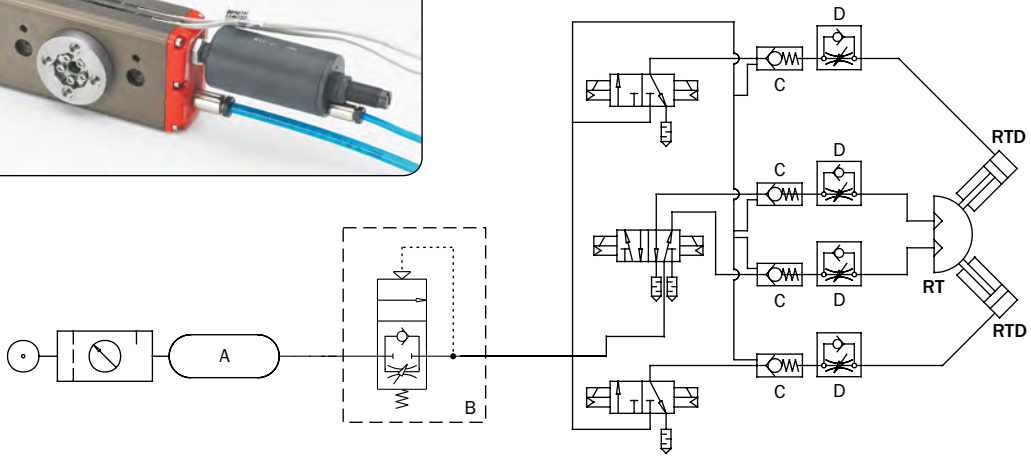
	RTD-10	RTD-12	RTD-20	RTD-25	RTD-35	RTD-45	RTD-63
AA	50.7	70.2	86.7	98.7	98	127.6	148.5
AA+	51.2	71	87.6	100	99	129	150.3
BA	Ø23	Ø28	Ø36	Ø44	Ø56	Ø70	Ø89
CA	20.5	27	34	42.5	50	61	71.5
DA	M8x1	M10x1	M12x1	M12x1	M14x1.5	M20x1.5	M25x1.5
EA	(n°3) M5	(n°3) M5	-	-	-	-	-
GA	-	-	M5	M5	G1/8	G1/4	G1/4
L5	19	25	32.5	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 variations.
2- Pressurizing the empty unit at start-up.
3- Sudden lack of pressure.
4- Excessive drive speed.

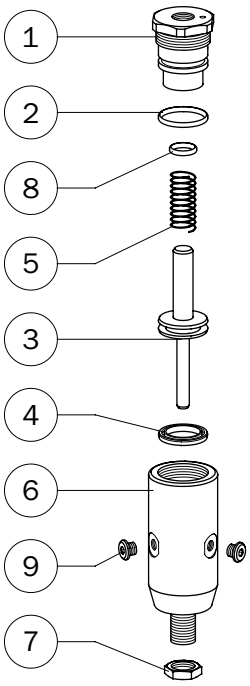
Possible solutions to the above issues:
1- External compressed air storage (A).
2- Start-up valve (B).
3- Safety valves (C).
4- Flow controllers (D).



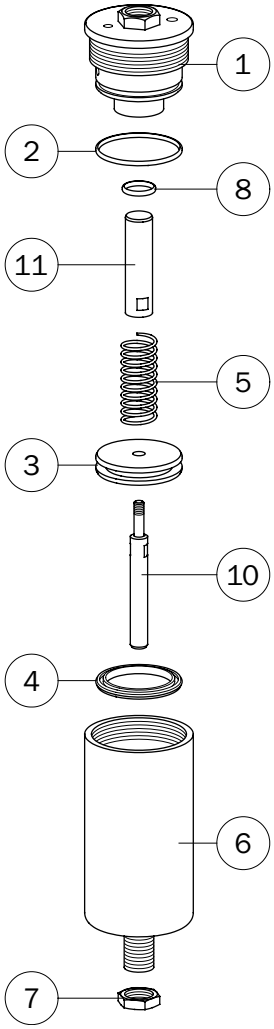


PARTS LIST

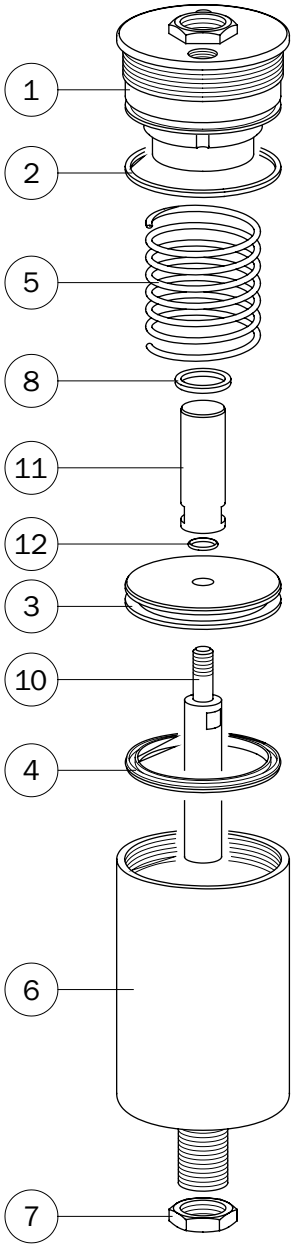
RTD-10
RTD-12



RTD-20
RTD-25



RTD-35
RTD-45
RTD-63



		RTD-10	RTD-12	RTD-20	RTD-25	RTD-35	RTD-45	RTD-63		
1	Bottocm 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	Housing	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-of-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*