

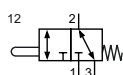
Technical details

Connection	G1/8
Nominal size	4 mm
Temperature range	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR, inner parts: stainless steel and brass, stem: stainless steel
	T-28-311: Product without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas (page 06)



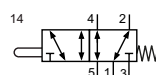
Mechanically operated spool valve including mounting adapter for actuator installation.

3/2-way-valve



T-28-311
3/2-way, mechanical spring return,
stem operated

5/2-way-valve



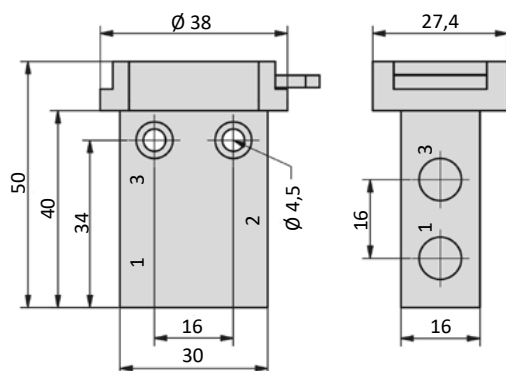
T-28-511
5/2-way, mechanical spring return,
stem operated

Technical data

Model-no.:	T-28-311	T-28-511
Operating pressure (bar)	0 ... 12	0 ... 12
Flow rate (NI/min)	450	465
Actuating force at 6 bar (N)	25	15
Actuation stroke (mm)	4	4
Weight (kg)	0.058	0.075

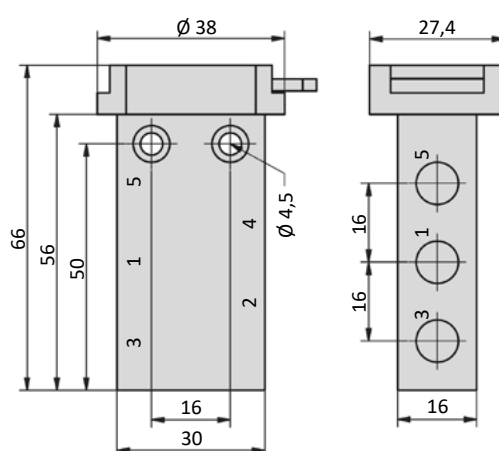
Dimensions

T-28-311



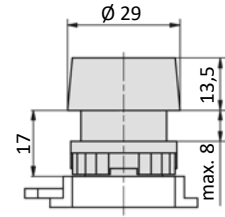
1 = pressure inlet
2,4 = outlets
3,5 = exhausts

T-28-511



Actuator Ø 22,5 mm

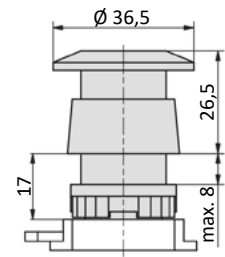
18-T-23-011-xx Push button



Model-no.: 18-T-23-011-xx +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	13	23
Weight (incl. valve) (kg)	0.057	0.073	0.090	0.067	0.091

Please complete: xx = colour (20 = green, 21 = green with white line, 30 = black, 40 = red, 50 = yellow, 60 = blue)

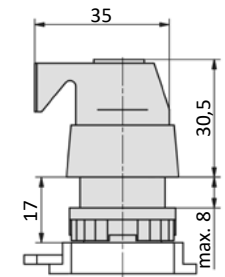
18-T-23-012-xx Mushroom



Model-no.: 18-T-23-012-xx +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	13	23
Weight (incl. valve) (kg)	0.062	0.078	0.095	0.072	0.096

Please complete: xx = colour (20 = green, 30 = black, 40 = red)

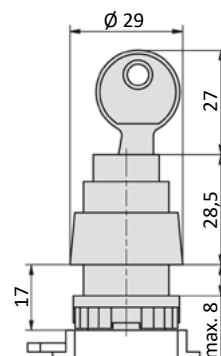
18-T-23-013 2 position switch



Model-no.: 18-T-23-013 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	26	25
Weight (incl. valve) (kg)	0.064	0.080	0.097	0.074	0.098

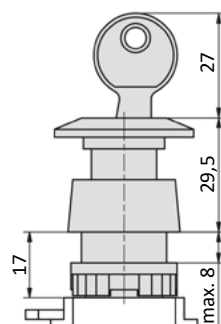
Actuator Ø 22,5 mm

18-T-23-014 Key-return



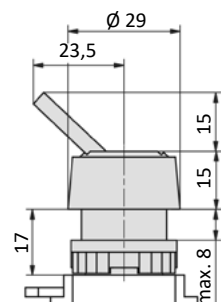
Model-no.: 18-T-23-014 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	13	23
Weight (incl. valve) (kg)	0.123	0.139	0.156	0.133	0.157

18-T-23-015 Stop, key-return



Model-no.: 18-T-23-015 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	13	23
Weight (incl. valve) (kg)	0.125	0.141	0.158	0.135	0.159

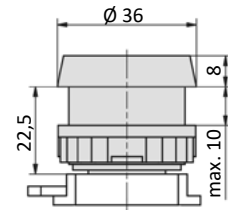
18-T-23-016 Toggle



Model-no.: 18-T-23-016 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	26	25
Weight (incl. valve) (kg)	0.069	0.085	0.102	0.079	0.103

Actuator Ø 30 mm

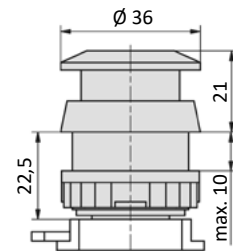
18-T-30-011-xx Push button



Model-no.: 18-T-30-011-xx +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	15	24
Weight (incl. valve) (kg)	0.066	0.082	0.099	0.076	0.100

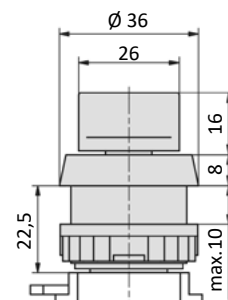
Please complete: xx = colour (20 = green, 30 = black, 40 = red, 50 = yellow)

18-T-30-012-30 Mushroom



Model-no.: 18-T-30-012-30 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	15	24
Weight (incl. valve) (kg)	0.071	0.087	0.104	0.081	0.105

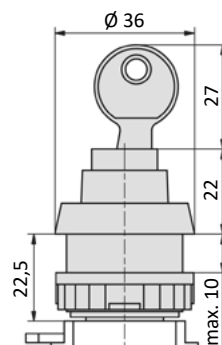
18-T-30-013 2 position switch



Model-no.: 18-T-30-013 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	15	25
Weight (incl. valve) (kg)	0.071	0.087	0.104	0.081	0.105

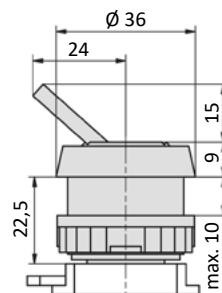
Actuator Ø 30 mm

18-T-30-014 Key-return



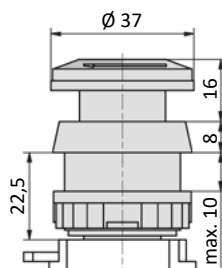
Model-no.: 18-T-30-014 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	15	25
Weight (incl. valve) (kg)	0.122	0.138	0.155	0.132	0.156

18-T-30-016 Toggle



Model-no.: 18-T-30-016 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	9	11
Weight (incl. valve) (kg)	0.069	0.085	0.102	0.079	0.103

18-T-30-018 Mushroom red, detend



Model-no.: 18-T-30-018 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	31	25
Weight (incl. valve) (kg)	0.077	0.093	0.110	0.087	0.111



Valves

Mechanically or pneumatically operated

Mechanically operated valves

Explosion-proof equipment without inherent potential ignition sources

The valve **T-28-311** do not fall into the scope of the EU Directive 2014/34/EC. They are not subjected by Article 1 (2) and (3) of Directive 2014/34/EC. It has been proven by an ignition risk analysis that the valves have no potential ignition source of their own. They can be used in compliance with the requirements of e.g. DIN EN 1127-1:2019, DIN EN IEC 60079-0:2019, DIN EN ISO 80079-36:2016 and DIN EN ISO 80079-37:2016 in

Zone 1 explosion groups IIA, IIB and IIC, Zone 21 explosion groups IIIA, IIIB and IIIC
Zone 2 explosion groups IIA, IIB and IIC, Zone 22 explosion groups IIIA, IIIB and IIIC

The valves are not marked within the meaning of the ATEX Directive. They have to meet the requirements of the existing zones.



The operating instructions for the valve must be taken into account before putting into operation. These are included with each valve and are available at www.airtec.de.