



## Series T400

### General

The Series **T400** involves a wide range of valves and solenoid valves, with several type of acting, with connections from **G1/8" (T488)** and **G1/4" (T424)**, are manufactured with high performance technopolymer.

The use of technopolymer has resulted in a light weight product which can be offered to the market at very interesting prices.

The gang mounted solenoid valves are available with the traditional manifold obtained from bored square bar of series 600 and with the extruded aluminium base allowing a unic inlet port conveying the exhausts. The base is also prearranged to be fixed on DIN 46277/3 guide.

The Valves and Solenoid valves **G1/8" (T488)** are: 5 ways function, pneumatically operated, single solenoid (monostable) mechanical or pneumatic spring return, spring or pneumatic return, with 2 coils (bistable) and in 5 ways 3 positions version with closed, open and pressured centres.

The solenoid valves are supplied complete with coil (see Series 300) so that the tension has to be added to the solenoid valve code:

- M9** = Coil 24 V D.C. (rating power 2 watt)
- M11** = Coil 24 V D.C. (rating power 3.8 watt)
- M56** = Coil 24 V 50/60 HZ (starting power 9 VA, rating power 6 VA)
- M57** = Coil 110 V 50/60 HZ (starting power 9 VA, rating power 6 VA)
- M58** = Coil 220 V 50/60 HZ (starting power 9 VA, rating power 6 VA)

The Solenoid valves series **G1/4" (T424)**, are manufactured, depending on version and actuation (manual, pneumatic, or electrical), and self aligning (pneumatic - electric or spring) 3/2, 5/2 and 5/3 ways function, (monostable), (bistable).

The solenoid valves are supplied complete with coil so that the tension has to be added to the solenoid valve code.

- B04** = coil 12V D.C.
- B05** = coil 24V D.C.
- B09** = coil 24V (2W) D.C.
- B56** = coil 24V 50/60 Hz A.C.
- B57** = coil 110V 50/60 Hz A.C.
- B58** = coil 220V 50/60 Hz A.C.

### Construction characteristics

Body	Technopolymer
Spacer	Technopolymer
Spacers	NBR
Piston seals	NBR
Springs	AISI 302 stainless steel
Operators	Technopolymer
Pistons	Technopolymer
Spools	Nickel - plated steel / Technopolymer

### Maximum fitting torque

Thread	Maximum torque (Nm)
G 1/8"	4
G1/4"	9

### Use and maintenance

This valves have an average life of 15 million cycles depending on the application and air quality.

Filtered and lubricated air using specified lubricants will reduce the wear of the seals and ensures long and trouble free operation.

Please ensure that the valve is being used according with the manufacturers specification, such as air pressure and temperature.

The exhaust port of the distributor has to be protected in a dusty and dirty environment.

Repair kits including the spool complete with seals are available for overhauling the valves.

However, although this is a simple operation it should be carried out by a competent person.

**ATTENTION:** use hydraulic oil class H for lubrication such as MAGNA GC 32 (Castrol).

**Solenoid - Spring (Self-feeding)**

Coding: T424.Ⓡ.0.1.Ⓟ

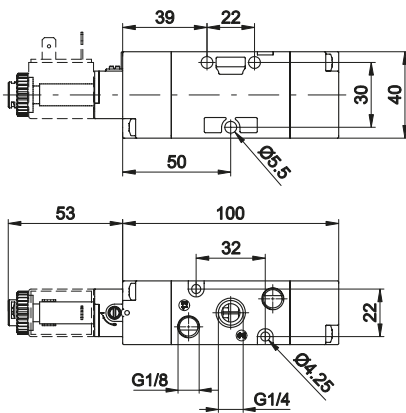
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1050
Orifice size (mm)	8.5
Working ports size	G 1/4"

TYPE	
Ⓡ 32 = 3 ways	
52 = 5 ways	
VOLTAGE	
B04 = 12 V DC	
B05 = 24 V DC	
Ⓟ B09 = 24 V DC (2 W)	
B56 = 24 V 50-60 Hz	
B57 = 110 V 50-60 Hz	
B58 = 230 V 50-60 Hz	



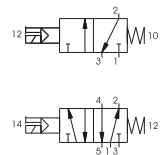
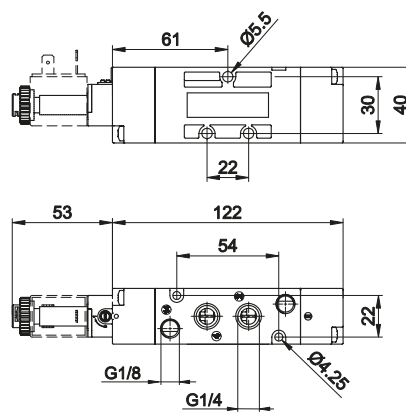
Weight 205 g  
Minimum piloting pressure 2,5 bar

T424.32.0.1.Ⓟ



Weight 235 g  
Minimum piloting pressure 2,5 bar

T424.52.0.1.Ⓟ



**Solenoid - Spring (External-feeding)**

Coding: T424.Ⓡ.0.1.E.Ⓟ

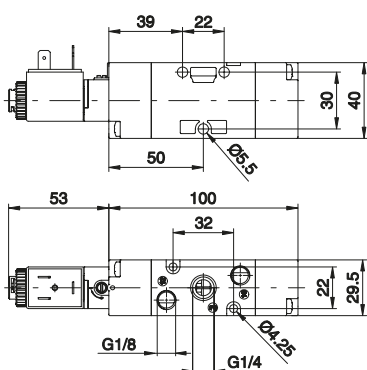
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1050
Orifice size (mm)	8.5
Working ports size	G 1/4"
Pilot ports size	G 1/8"

TYPE	
Ⓡ 32 = 3 ways	
52 = 5 ways	
VOLTAGE	
B04 = 12 V DC	
B05 = 24 V DC	
Ⓟ B09 = 24 V DC (2 W)	
B56 = 24 V 50-60 Hz	
B57 = 110 V 50-60 Hz	
B58 = 230 V 50-60 Hz	



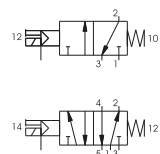
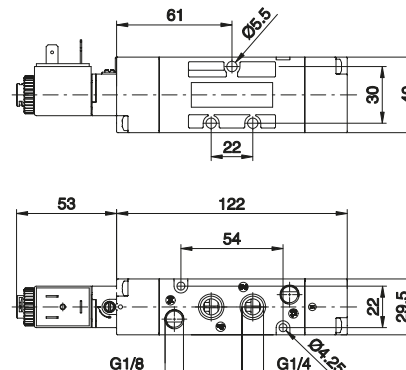
Weight 205 g  
Minimum piloting pressure 2,5 bar

T424.32.0.1.E.Ⓟ



Weight 235 g  
Minimum piloting pressure 2,5 bar

T424.52.0.1.E.Ⓟ



**Solenoid - Differential (Self-feeding)**

Coding: T424.Ⓡ.0.12.Ⓟ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1050
Orifice size (mm)	8.5
Working ports size	G 1/4"

TYPE	
Ⓡ	32 = 3 ways
	52 = 5 ways
VOLTAGE	
	B04 = 12 V DC
	B05 = 24 V DC
Ⓟ	B09 = 24 V DC (2 W)
	B56 = 24 V 50-60 Hz
	B57 = 110 V 50-60 Hz
	B58 = 230 V 50-60 Hz

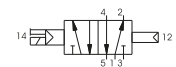
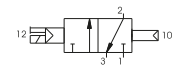
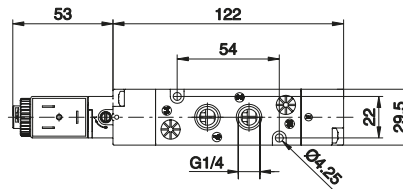
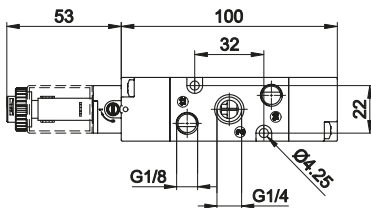
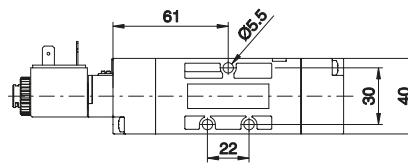
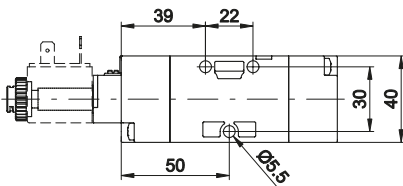


Weight 205 g  
Minimum piloting pressure 2 bar

Weight 235 g  
Minimum piloting pressure 2 bar

T424.32.0.12.Ⓟ

T424.52.0.12.Ⓟ



**Solenoid - Differential (External-feeding)**

Coding: T424.Ⓡ.0.12.E.Ⓟ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1050
Orifice size (mm)	8.5
Working ports size	G 1/4"
Pilot ports size	G 1/8"

TYPE	
Ⓡ	32 = 3 ways
	52 = 5 ways
VOLTAGE	
	B04 = 12 V DC
	B05 = 24 V DC
Ⓟ	B09 = 24 V DC (2 W)
	B56 = 24 V 50-60 Hz
	B57 = 110 V 50-60 Hz
	B58 = 230 V 50-60 Hz

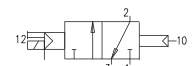
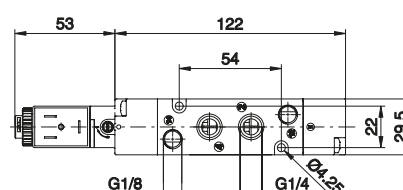
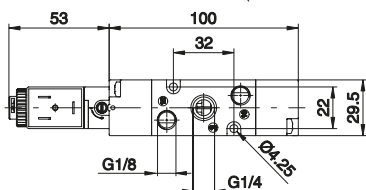
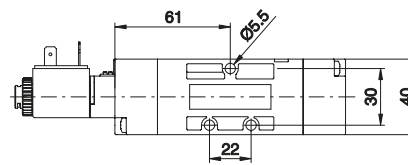
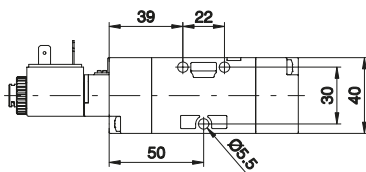


Weight 205 g  
Minimum piloting pressure 2 bar

Weight 235 g  
Minimum piloting pressure 2 bar

T424.32.0.12.E.Ⓟ

T424.52.0.12.E.Ⓟ



AIR DISTRIBUTION

1

**Solenoid - Solenoid (Self-feeding)**

Coding: T424.1.0.0.0.0

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1050
Orifice size (mm)	8.5
Working ports size	G 1/4"

TYPE	
1 32 = 3 ways	
52 = 5 ways	
VOLTAGE	
B04 = 12 V DC	
B05 = 24 V DC	
09 B09 = 24 V DC (2 W)	
B56 = 24 V 50-60 Hz	
B57 = 110 V 50-60 Hz	
B58 = 230 V 50-60 Hz	



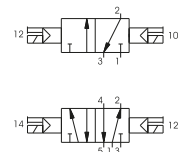
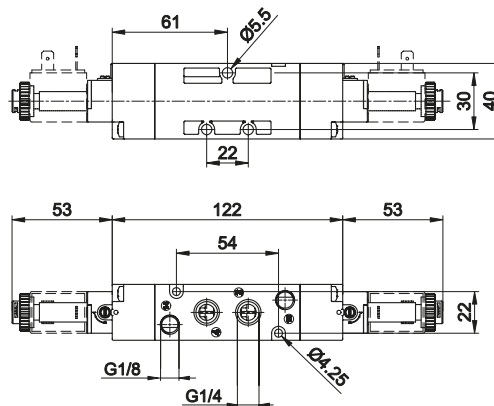
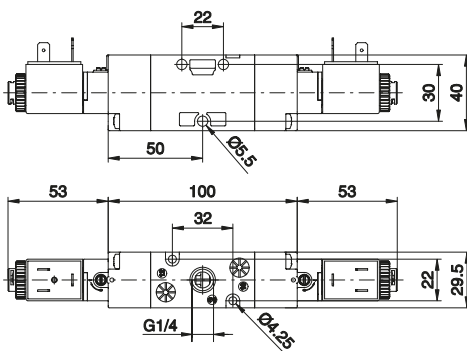
Weight 240 g  
Minimum piloting pressure 2 bar

T424.32.0.0.0.0



Weight 270 g  
Minimum piloting pressure 2 bar

T424.52.0.0.0.0



**Solenoid - Solenoid (External-feeding)**

Coding: T424.1.0.0.0.E.0

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1050
Orifice size (mm)	8.5
Working ports size	G 1/4"
Pilot ports size	G 1/8"

TYPE	
1 32 = 3 ways	
52 = 5 ways	
VOLTAGE	
B04 = 12 V DC	
B05 = 24 V DC	
09 B09 = 24 V DC (2 W)	
B56 = 24 V 50-60 Hz	
B57 = 110 V 50-60 Hz	
B58 = 230 V 50-60 Hz	



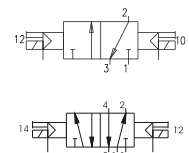
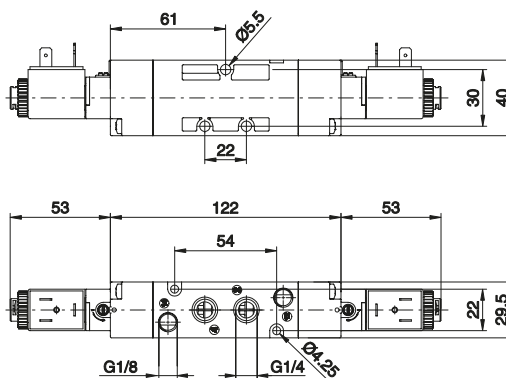
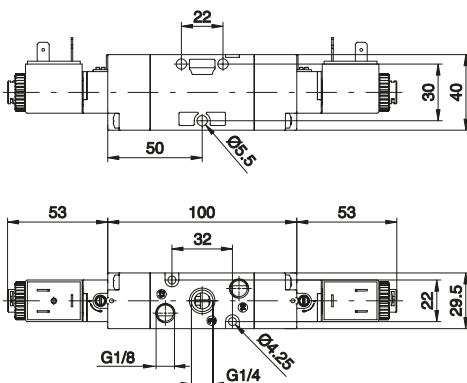
Weight 240 g  
Minimum piloting pressure 2 bar

T424.32.0.0.0.E.0



Weight 270 g  
Minimum piloting pressure 2 bar

T424.52.0.0.0.E.0

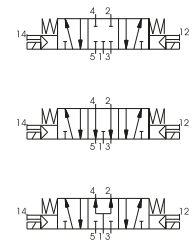
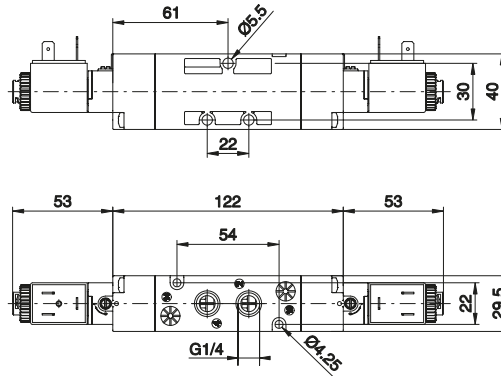


**Solenoid - Solenoid (Self-feeding)**

Coding: T424.53.Ⓡ.0.0.Ⓥ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	900
Orifice size (mm)	8.5
Working ports size	G 1/4"

FUNCTION	
Ⓡ	31 = Closed centres
	32 = Open centres
	33 = Pressured centres
VOLTAGE	
	B04 = 12 V DC
	B05 = 24 V DC
Ⓥ	B09 = 24 V DC (2 W)
	B56 = 24 V 50-60 Hz
	B57 = 110 V 50-60 Hz
	B58 = 230 V 50-60 Hz



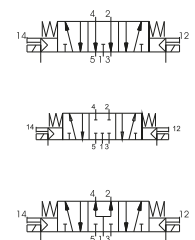
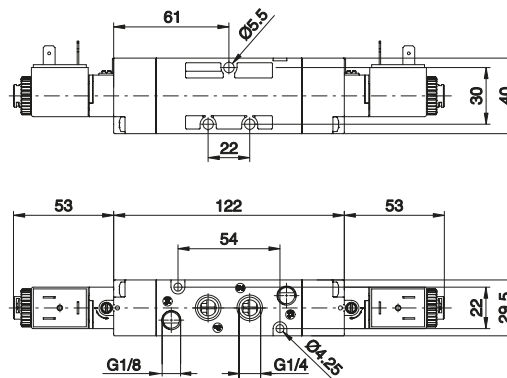
Weight 295 g  
Minimum piloting pressure 3 bar

**Solenoid - Solenoid (External-feeding)**

Coding: T424.53.Ⓡ.0.0.E.Ⓥ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	900
Orifice size (mm)	8.5
Working ports size	G 1/4"
Pilot ports size	G 1/8"

FUNCTION	
Ⓡ	31 = Closed centres
	32 = Open centres
	33 = Pressured centres
VOLTAGE	
	B04 = 12 V DC
	B05 = 24 V DC
Ⓥ	B09 = 24 V DC (2 W)
	B56 = 24 V 50-60 Hz
	B57 = 110 V 50-60 Hz
	B58 = 230 V 50-60 Hz



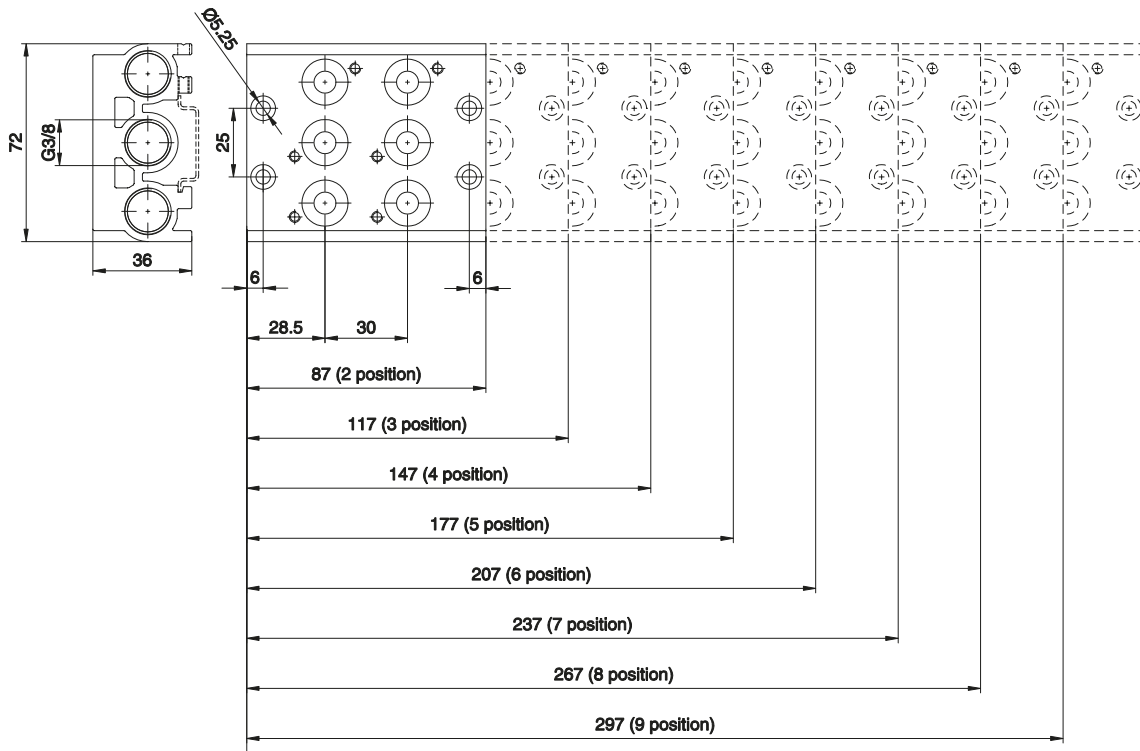
Weight 295 g  
Minimum piloting pressure 3 bar

Collectors



Coding: T424.**N**

N. POSITIONS	
<b>02</b>	= 2 positions (weight 350 g)
<b>03</b>	= 3 positions (weight 420 g)
<b>04</b>	= 4 positions (weight 560 g)
<b>05</b>	= 5 positions (weight 670 g)
<b>06</b>	= 6 positions (weight 770 g)
<b>07</b>	= 7 positions (weight 880 g)
<b>08</b>	= 8 positions (weight 980 g)
<b>09</b>	= 9 positions (weight 1090 g)
<b>10</b>	= 10 positions (weight 1200 g)



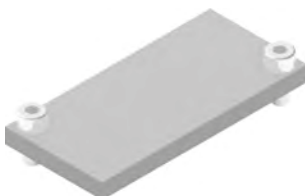
Modular collectors



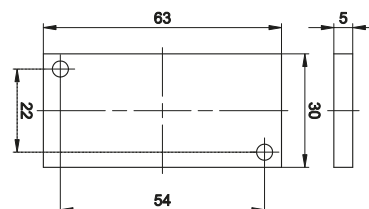
Coding: T424.**T**

TYPE	
<b>01</b>	= Single complete base
<b>01K</b>	= Complete modular bases (batches of 15 pieces)
<b>30K</b>	= Hollow bush, complete with O-rings (Nr. 50 pieces)
<b>31K</b>	= Blank bush, complete with O-rings (Nr. 50 pieces)
<b>32K</b>	= Intermediate air intake with screw (Nr. 5 pieces)
<b>33</b>	= Screw to suite solenoid valves (Nr. 50 pieces)
<b>34</b>	= Screw for joining bases (Nr. 50 pieces)
<b>35</b>	= Washer for screw for joining bases (Nr. 50 pieces)
<b>36</b>	= OR (50 pz)

Closing plate



Coding: T424.00



Weight 25 g