



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 technopolimer.

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).



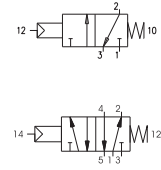
Pneumatic - Spring

Coding: T488.11.1

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)	620
Orifice size (mm)	6
Working ports size	G 1/8"

TYPE	
① 32 = 3 ways	
52 = 5 ways	



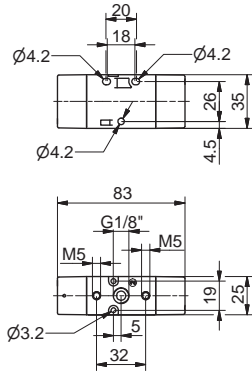
AIR DISTRIBUTION

3 ways



Weight 75 g
Minimum working pressure 2,5 bar

T488.32.11.1

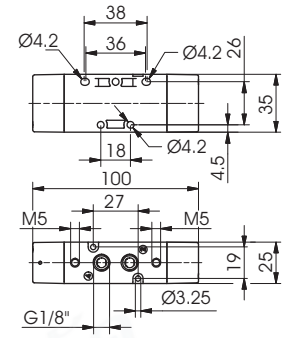


5 ways



Weight 75 g
Minimum working pressure 2,5 bar

T488.52.11.1



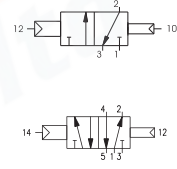
Pneumatic - Differential (External)

Coding: T488.11.12

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)	620
Orifice size (mm)	6
Working ports size	G 1/8"

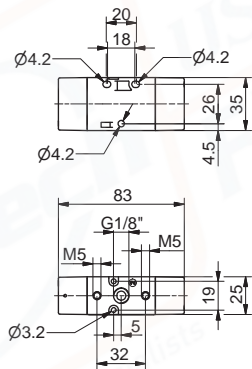
TYPE	
① 32 = 3 ways	
52 = 5 ways	



3 ways



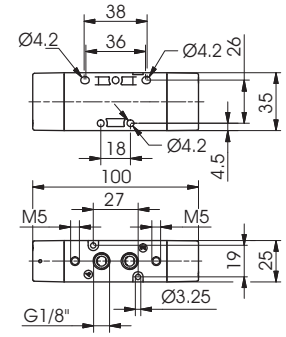
T488.32.11.12



5 ways



T488.52.11.12



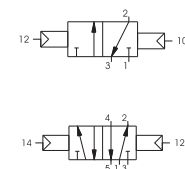
Pneumatic - Pneumatic

Coding: T488.11.11

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)	620
Orifice size (mm)	6
Working ports size	G 1/8"

TYPE	
① 32 = 3 ways	
52 = 5 ways	

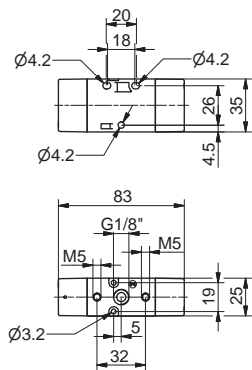


3 ways



Minimum working pressure 2 bar (for Pneumatic-Pneumatic version)

T488.32.11.11

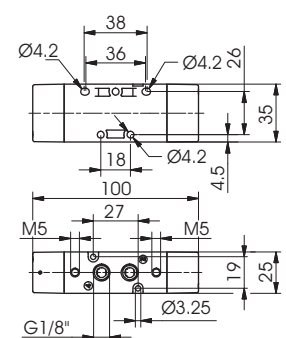


5 ways



Minimum working pressure 2 bar (for Pneumatic-Pneumatic version)

T488.52.11.11

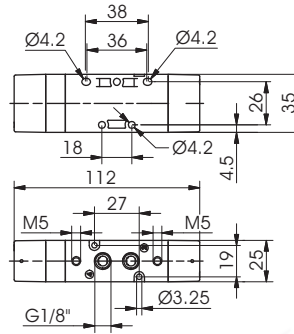


Pneumatic - Pneumatic 5 ways 3 connections

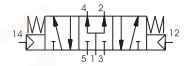
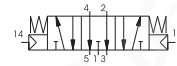
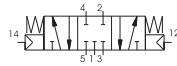
Coding: T488.53.F.11.11

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 $\Delta p=1$ (l/min)	410
Orifice size (mm)	6
Working ports size	G 1/8"

FUNCTION	
F	31 = Closed centres
	32 = Open centres
	33 = Pressured centres



Weight 140 g
Minimum working pressure 3 bar (for Pneumatic-Pneumatic version)



1
AIR DISTRIBUTION



Solenoid - Spring (Self-feeding)

Coding: T488.Ⓡ.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)	620
Orifice size (mm)	6
Working ports size	G 1/8"
Response time according to ISO 12238, activation time (ms)	23,4 (3 ways) 22,8 (5 ways)
Response time according to ISO 12238, deactivation time (ms)	41,0 (3 ways) 44,5 (5 ways)

Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001

TYPE	
Ⓡ	32 = 3 ways
	52 = 5 ways
VOLTAGE	
M9	= Solenoid - Spring (Self-feeding)
M11	= 24V D.C. (rating power 3,8W)
Ⓟ	M56 = 24V 50/60Hz (starting power 9VA, rating power 6VA)
	M57 = 110V 50/60Hz (starting power 9VA, rating power 6VA)
	M58 = 230V 50/60Hz (starting power 9VA, rating power 6VA)

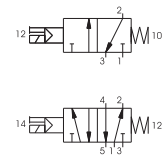
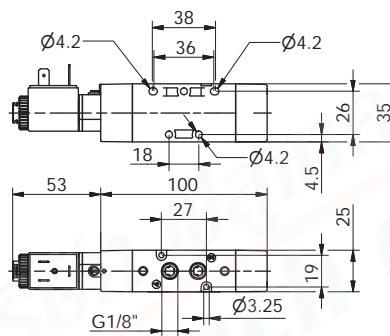
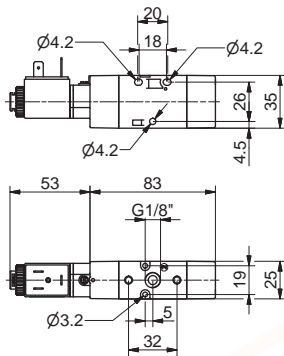


Weight 160 g
Minimum working pressure 2,5 bar

Weight 190 g
Minimum working pressure 2,5 bar

T488.32.0.1.Ⓟ

T488.52.0.1.Ⓟ



Solenoid - Spring (External-feeding)

Coding: T488.Ⓡ.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)	620
Orifice size (mm)	6
Working ports size	G 1/8"
Response time according to ISO 12238, activation time (ms)	23,4 (3 ways) 22,8 (5 ways)
Response time according to ISO 12238, deactivation time (ms)	41,0 (3 ways) 44,5 (5 ways)

Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001

TYPE	
Ⓡ	32 = 3 ways
	52 = 5 ways
VOLTAGE	
M9	= Solenoid - Spring (Self-feeding)
M11	= 24V D.C. (rating power 3,8W)
Ⓟ	M56 = 24V 50/60Hz (starting power 9VA, rating power 6VA)
	M57 = 110V 50/60Hz (starting power 9VA, rating power 6VA)
	M58 = 230V 50/60Hz (starting power 9VA, rating power 6VA)

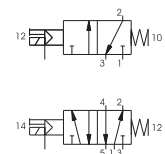
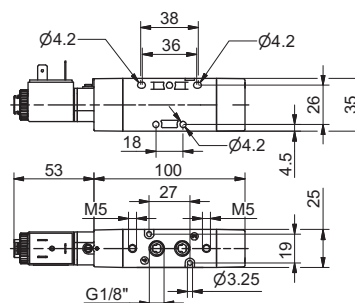
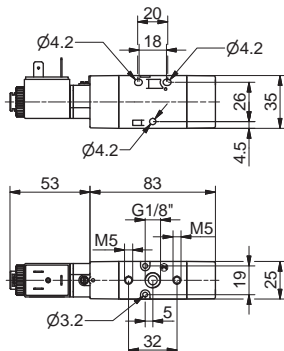


Weight 160 g
Minimum working pressure 2,5 bar

Weight 190 g
Minimum working pressure 2,5 bar

T488.32.0.1.E.Ⓟ

T488.52.0.1.E.Ⓟ



Solenoid - Differential (Self-feeding)

Coding: T488.0.12.V

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)	620
Orifice size (mm)	6
Working ports size	G 1/8"
Response time according to ISO 12238, activation time (ms)	31,1 (3 ways) 27,9 (5 ways)
Response time according to ISO 12238, deactivation time (ms)	35,0 (3 ways) 34,5 (5 ways)

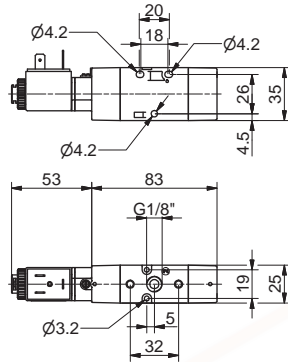
TYPE	
① 32 = 3 ways	
52 = 5 ways	
VOLTAGE	
M9 = Solenoid - Spring (Self-feeding)	
M11 = 24V D.C. (rating power 3,8W)	
⑤ M56 = 24V 50/60Hz (starting power 9VA, rating power 6VA)	
M57 = 110 V 50/60Hz (starting power 9VA, rating power 6VA)	
M58 = 230V 50/60Hz (starting power 9VA, rating power 6VA)	

Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001



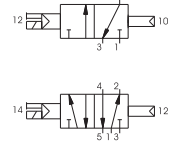
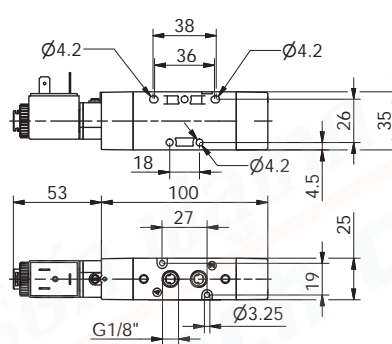
Weight 160 g
Minimum working pressure 2,5 bar

T488.32.0.12.V



Weight 190 g
Minimum working pressure 2,5 bar

T488.52.0.12.V



Solenoid - Differential (External-feeding)

Coding: T488.0.12E.V

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)	620
Orifice size (mm)	6
Working ports size	G 1/8"
Response time according to ISO 12238, activation time (ms)	31.1 (3 ways) 27.9 (5 ways)
Response time according to ISO 12238, deactivation time (ms)	35.0 (3 ways) 34.5 (5 ways)

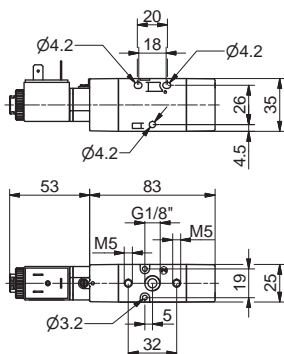
TYPE	
① 32 = 3 ways	
52 = 5 ways	
VOLTAGE	
M9 = Solenoid - Spring (Self-feeding)	
M11 = 24V D.C. (rating power 3,8W)	
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M58 = 230V 50/60Hz (starting power 9VA, rating power 6VA)	

Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001



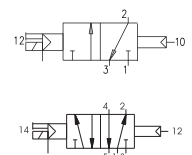
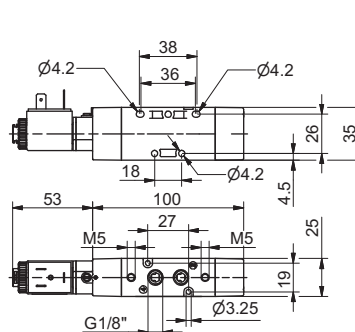
Weight 160 g
Minimum working pressure 2,5 bar

T488.32.0.12E.V



Weight 190 g
Minimum working pressure 2,5 bar

T488.52.0.12E.V



Solenoid - Solenoid (Self-feeding)

Coding: T488.Ⓡ.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)	620
Orifice size (mm)	6
Working ports size	G 1/8"
Response time according to ISO 12238, activation time (ms)	18,8 (3 ways) 18,0 (5 ways)
Response time according to ISO 12238, deactivation time (ms)	18,0 (3 ways) 19,1 (5 ways)

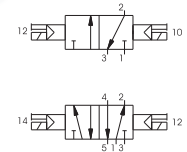
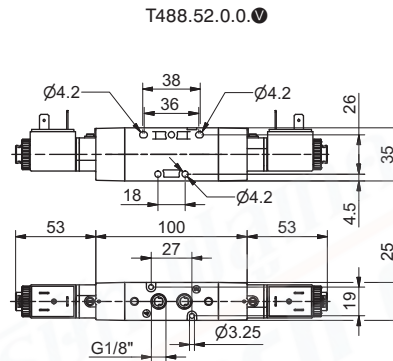
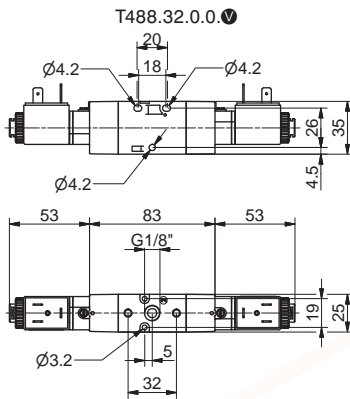
Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001

TYPE	
Ⓡ	32 = 3 ways
	52 = 5 ways
VOLTAGE	
M9	= Solenoid - Spring (Self-feeding)
M11	= 24V D.C. (rating power 3,8W)
Ⓡ	M56 = 24V 50/60Hz (starting power 9VA, rating power 6VA)
	M57 = 110V 50/60Hz (starting power 9VA, rating power 6VA)
	M58 = 230V 50/60Hz (starting power 9VA, rating power 6VA)



Weight 250 g
Minimum working pressure 2 bar

Weight 290 g
Minimum working pressure 2 bar



Solenoid - Solenoid (External-feeding)

Coding: T488.Ⓡ.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)	620
Orifice size (mm)	6
Working ports size	G 1/8"
Response time according to ISO 12238, activation time (ms)	18,8 (3 ways) 18,0 (5 ways)
Response time according to ISO 12238, deactivation time (ms)	18,0 (3 ways) 19,1 (5 ways)

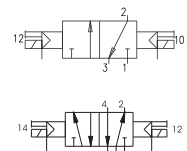
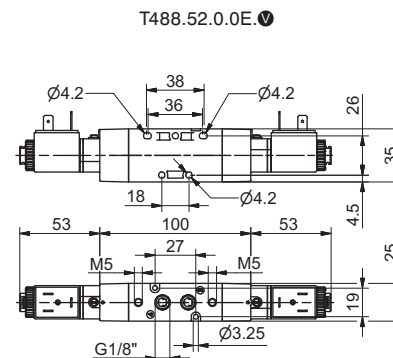
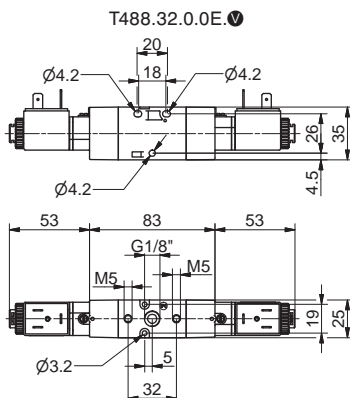
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TYPE	
Ⓡ	32 = 3 ways
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VOLTAGE	
M9	= Solenoid - Spring (Self-feeding)
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	M58 = 230V 50/60Hz (starting power 9VA, rating power 6VA)



Weight 250 g
Minimum working pressure 2 bar

Weight 290 g
Minimum working pressure 2 bar



Solenoid - Solenoid 5 ways 3 connections (Self-feeding)

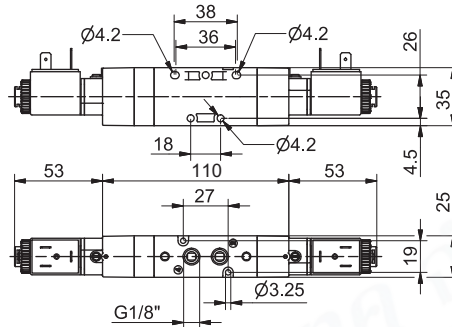
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Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	410
Orifice size (mm)	6
Working ports size	G 1/8"
Response time according to ISO 12238, activation time (ms)	21,3 (closed centres) 21,5 (open centres) 19,5 (pressured centres)
Response time according to ISO 12238, deactivation time (ms)	37,0 (closed centres) 34,5 (open centres) 37,3 (pressured centres)

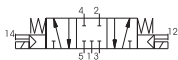
Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001

FUNCTION	
F	31 = Closed centres 32 = Open centres 33 = Pressured centres
VOLTAGE	
M9	= Solenoid - Spring (Self-feeding)
M11	= 24V D.C. (rating power 3,8W)
V	M56 = 24V 50/60Hz (starting power 9VA, rating power 6VA)
	M57 = 110 V 50/60Hz (starting power 9VA, rating power 6VA)
	M58 = 230V 50/60Hz (starting power 9VA, rating power 6VA)

Minimum working pressure 3 bar
Weight 330 g



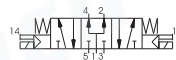
T488.53.31.0.0.V



T488.53.32.0.0.V



T488.53.33.0.0.V



Solenoid - Solenoid 5/3 (External-feeding)

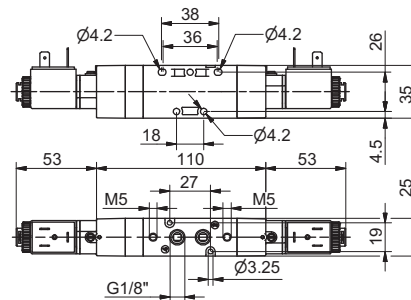
Coding: T488.53.F.0.E.V

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)	410
Orifice size (mm)	6
Working ports size	G 1/8"
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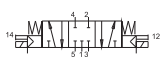
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FUNCTION	
F	31 = Closed centres 32 = Open centres 33 = Pressured centres
VOLTAGE	
M9	= Solenoid - Spring (Self-feeding)
M11	= 24V D.C. (rating power 3,8W)
V	M56 = 24V 50/60Hz (starting power 9VA, rating power 6VA)
	M57 = 110 V 50/60Hz (starting power 9VA, rating power 6VA)
	M58 = 230V 50/60Hz (starting power 9VA, rating power 6VA)

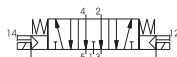
Minimum working pressure 3 bar
Weight 330 g



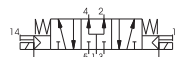
T488.53.31.0.0.E.V



T488.53.32.0.0.E.V



T488.53.33.0.0.E.V

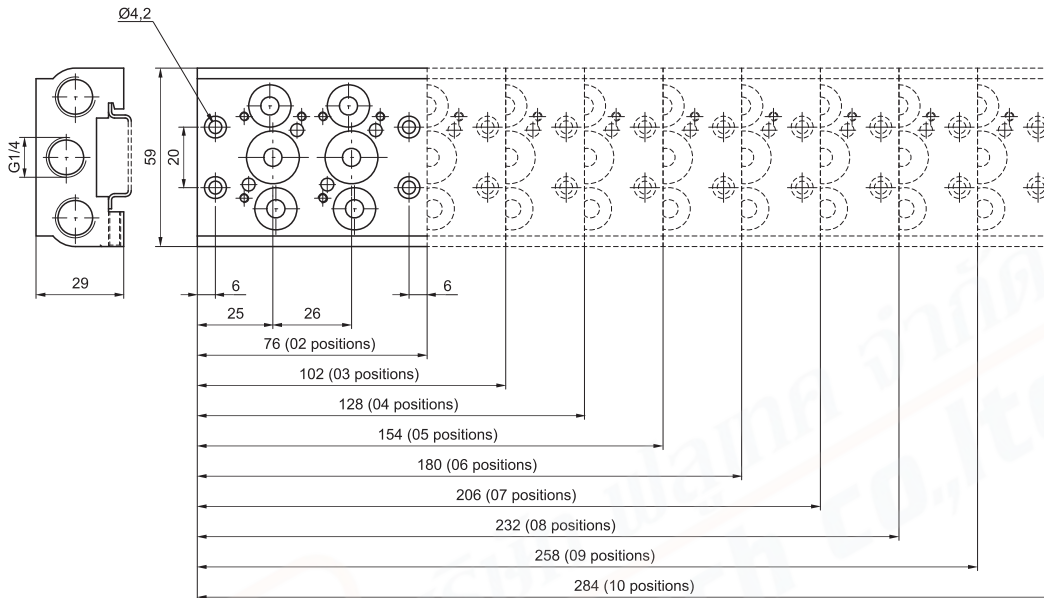


Collectors

Coding: T488.Ⓟ



N. POSITIONS	
02	= 2 positions (220 g)
03	= 3 positions (290 g)
04	= 4 positions (360 g)
Ⓟ 05	= 5 positions (430 g)
06	= 6 positions (500 g)
07	= 7 positions (570 g)
08	= 8 positions (640 g)
09	= 9 positions (710 g)
10	= 10 positions (780 g)



Modular base

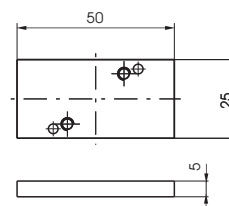
Coding: T488.Ⓜ



TYPE	
01	= Single complete base
01K	= Complete modular bases (batches of 20 pieces)
30K	= Hollow bush, complete with O-rings (Nr. 50 pieces)
31K	= Blank bush, complete with O-rings (Nr. 50 pieces)
Ⓜ 32K	= Intermediate air intake with screw (Nr. 5 pieces)
33	= Screw to suite solenoid valves (Nr. 50 pieces)
34	= Screw for joning bases (Nr. 50 pieces)
35	= Washer for screw for joning bases (Nr. 50 pieces)
36	= OR (50 pz)

Closing plate

Coding: T488.00



weight 25

1 AIR DISTRIBUTION

Solenoid - Spring (Self-feeding)

Coding: T424.Ⓡ.0.1.Ⓟ

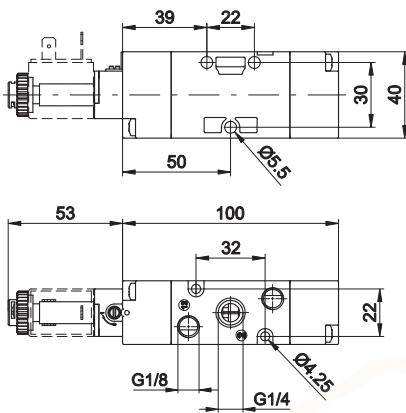
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1050
Orifice size (mm)	8.5
Working ports size	G 1/4"

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



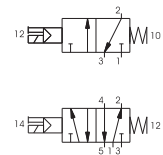
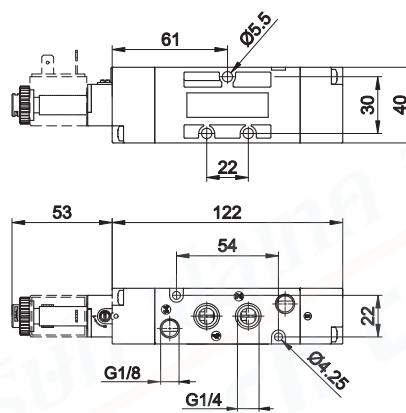
Weight 205 g
Minimum piloting pressure 2,5 bar

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.Ⓟ

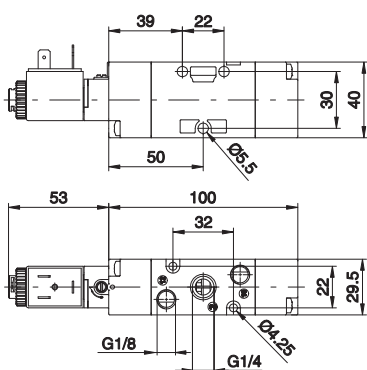
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1050
Orifice size (mm)	8.5
Working ports size	G 1/4"
Pilot ports size	G 1/8"

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



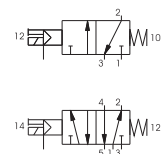
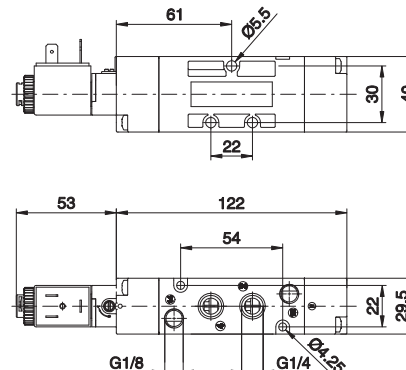
Weight 205 g
Minimum piloting pressure 2,5 bar

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	

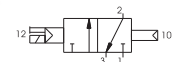
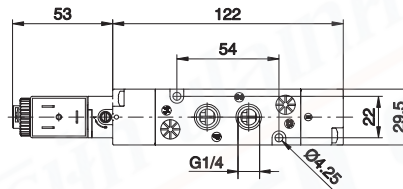
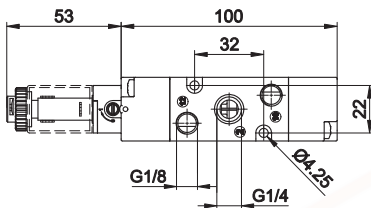
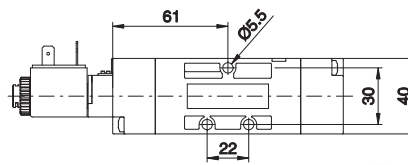
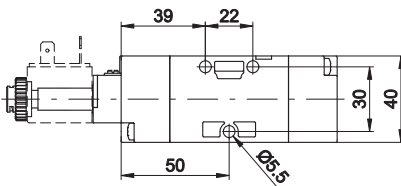


Weight 205 g
Minimum piloting pressure 2 bar

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	

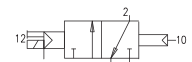
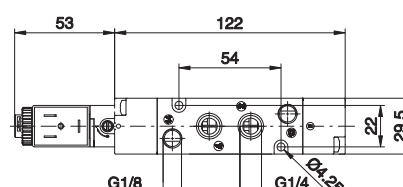
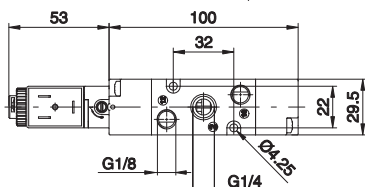
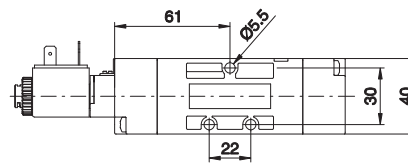
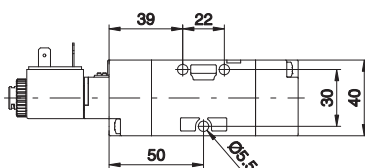


Weight 205 g
Minimum piloting pressure 2 bar

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.Ⓟ.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)	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	



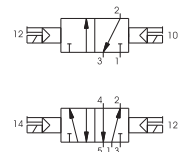
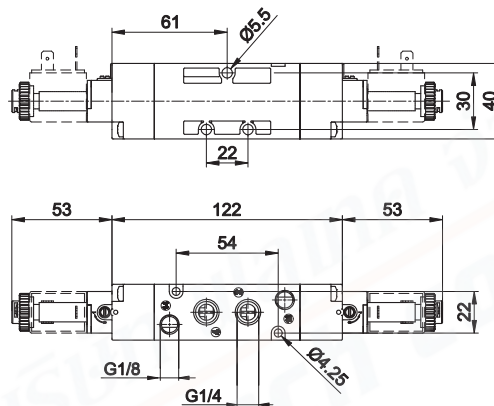
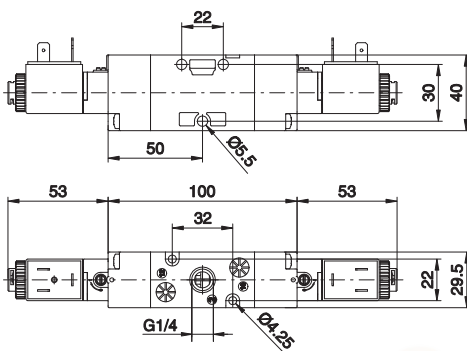
Weight 240 g
Minimum piloting pressure 2 bar

T424.32.0.0.Ⓜ



Weight 270 g
Minimum piloting pressure 2 bar

T424.52.0.0.Ⓜ



Solenoid - Solenoid (External-feeding)

Coding: T424.Ⓟ.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)	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	



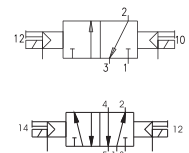
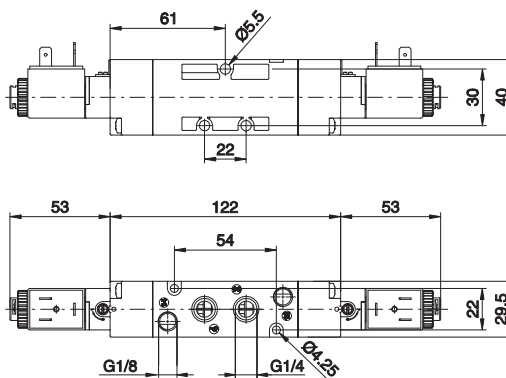
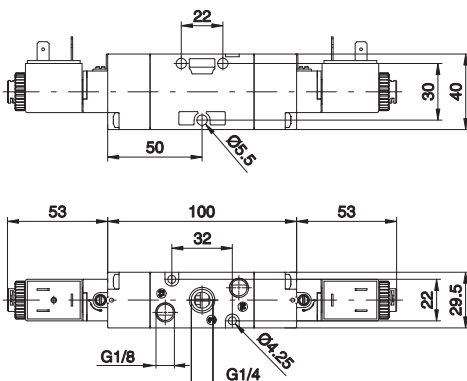
Weight 240 g
Minimum piloting pressure 2 bar

T424.32.0.0.E.Ⓜ



Weight 270 g
Minimum piloting pressure 2 bar

T424.52.0.0.E.Ⓜ



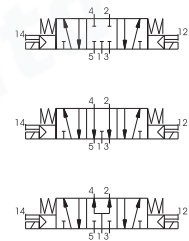
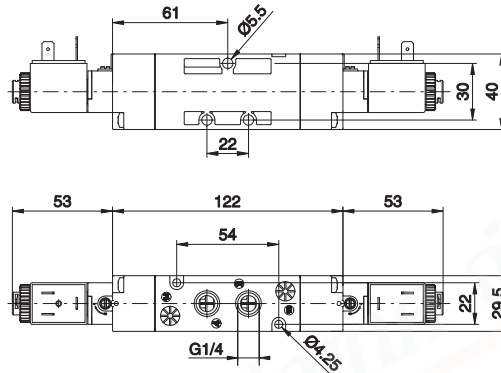


Solenoid - Solenoid (Self-feeding)

Coding: T424.53.F.0.0.V

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



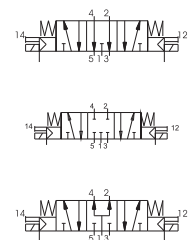
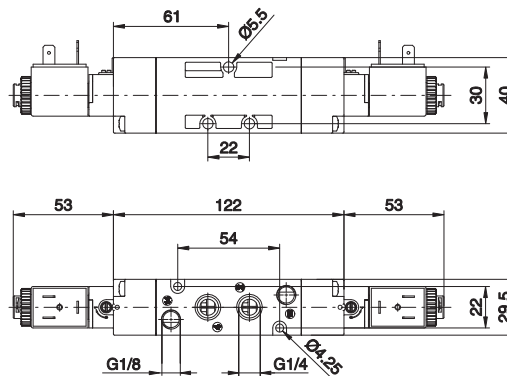
Weight 295 g
Minimum piloting pressure 3 bar

Solenoid - Solenoid (External-feeding)

Coding: T424.53.F.0.0.E.V

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



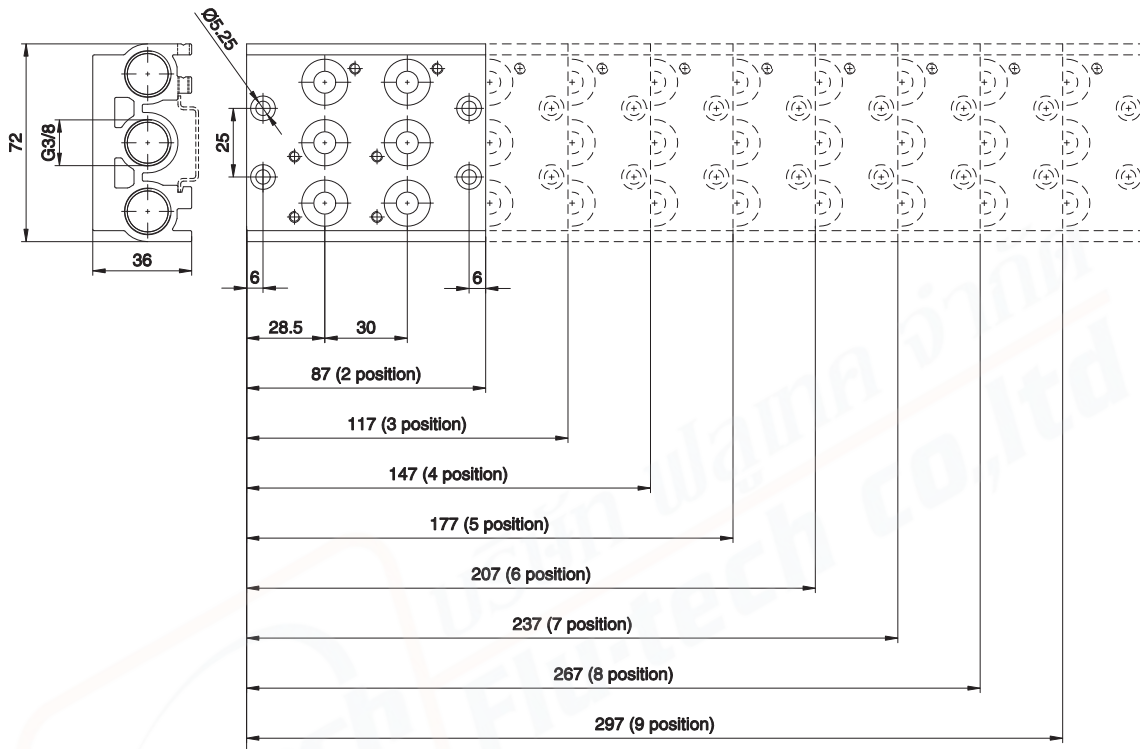
Weight 295 g
Minimum piloting pressure 3 bar

Collectors



Coding: T424.N

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



Modular collectors



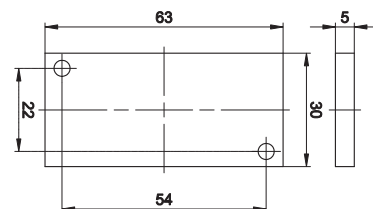
Coding: T424.T

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

Closing plate



Coding: T424.00



Weight 25 g



Series 2100 - 2400 - 2600

General

The 2000 series solenoid valves have been developed to meet requirements for electronically controlled pneumatic systems and / or serial control systems already used in all manufacturing sectors.

They have been designed to be easily assembled into groups or manifolds and include integral electrical connection (2100 and 2400), to facilitate simple and speedy integration into a control system.

The series comprises a range of products classified according to type, size and performance.

There are three main sizes, 10mm., 18 mm. and 26 mm.,

with each size further divided into 3 types "LINE ", " FLAT " and "VDMA " or "BASE".

The 10mm. and 18 mm. 24 VDC range of valves includes a range of accessories for the production of manifolded valve assemblies with integral electrical connections.

Modules are available in two or four station variants for flexibility and are supplied to IP40 or alternatively IP65 environmental protection.

Construction characteristics

	Series 2100	Series 2400	Series 2600
Central body	Extruded aluminium bar with chemical nickel treatment and PTFE (polytetrafluorethylene)	Extruded aluminium bar with chemical nickel treatment and PTFE (polytetrafluorethylene)	Extruded aluminium bar with chemical nickel treatment and PTFE (polytetrafluorethylene)
Connection plates	Technopolymer	Zincalloy	Die-cast aluminium
Piston seals	Oil resistant nitrile rubber - NBR	Oil resistant nitrile rubber - NBR	Oil resistant nitrile rubber - NBR
Spool seals	Oil resistant nitrile rubber - HNBR	Oil resistant nitrile rubber - HNBR	Oil resistant nitrile rubber - HNBR
Springs	AISI 302 stainless steel	AISI 302 stainless steel	AISI 302 stainless steel
Operators	Technopolymer	Technopolymer	Technopolymer
Pistons	Aluminium 2011	Technopolymer	Technopolymer
Spools	Aluminium 2011	Aluminium 2011	Aluminium 2011

Use and maintenance

The average life of the valve exceeds 50.000.000 cycles when used under optimum conditions.

Adequate lubrication reduces seals wear, just as proper filtering of supply air prevents the build-up of dirt that can cause malfunction.

Ensure the valve is used within our recommended criteria for pressure and temperature.

In dirty or dusty environments, the exhaust ports should be protected.

A seal kit including the spool is available for overhauling the valve. This operation does not require a skilled worker, although a particular care should be taken when reassembling the valve.

