10-mm SOLENOID VALVES series "PLT-10"



LEHENGOAK, S.A.



PLT-10 solenoid valves are the latest development in modern pneumatic design, where the main trends focus on miniaturisation, enhanced performance, reduced power and reliability.

Numerous versions are available, all with an ISO 15218 pneumatic interface. The power required to operate the PLT-10 has been greatly reduced, ranging from 0.3 to 0.8 Watts.

It is available with a LED indicating when it is active. Monostable manual control is also possible. None of the versions will get damaged if the polarity is accidentally inverted.



STURDY CONSTRUCTION

NO! NO! PIN AND ELECTRONIC BOARD SOLDERING SOLDERING METAL CLIPS TO ASTIC SNAP JOIN THE PARTS FITTINGS

Our engineers have focused on sturdy, highly reliable solutions. The criticalities of conventional pilots have been avoided: pin and electronic board soldering; breakage due to vibration; tin soldering, which is difficult to control; snap clips and fittings between the body and coil, which can yield or alter the distance between the parts.

COMPACTING SCREWS



The main components of the pilot - body, coil and cover - are anchored firmly together and compacted by means of two





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LIMITED NUMBER OF COMPONENTS

HEAVY-DUTY



20 μ m FILTERING: OK!

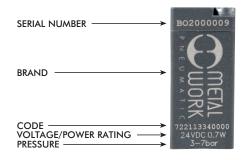
To assemble a PLT-10 all you have to do is connect 5 readymounted subassemblies. Traditional solutions have 9 or 10 separate components. The stroke of the mobile core is influenced by the tolerance of 3 components only, compared to 5 or 6 in previous solutions.

The inside has been designed to allow operation even with unpurified air, within certain limits. The required degree air filtration is just $20 \mu m$. Lubricated air is not required.

HIGHLY COMPATIBLE

LASER MARKING



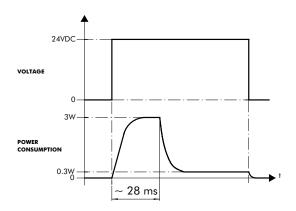


The gaskets in contact with the fluid are made of FKM/FPM, a material that is compatible with most oils and fluids. The fluid does not come into contact with any copper parts.

Despite its small size, each PLT-10 is laser-marked with the main data. The serial number incorporates the date of manufacture, the production lot and the test data. This allows full traceability of the valve and its components.

SPEED-UP

ENVIRONMENT





Speed-up valves have very high capacities and fast response times, despite very low power consumption. When a command is received, a high power is generated for a brief period of time so that the valve switches rapidly. Position maintenance power is then delivered, being about one tenth the former value. This solution also allows very low valve temperatures.

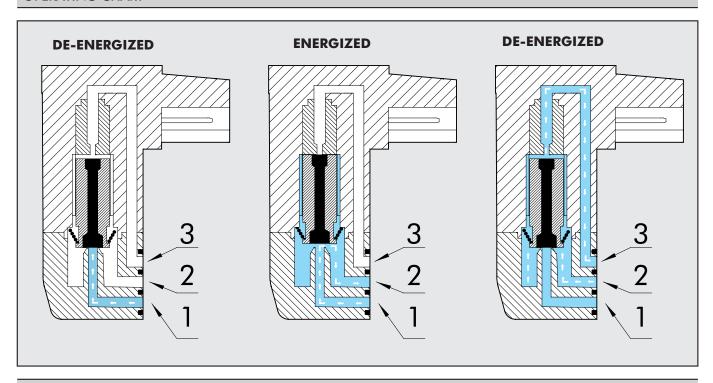
Thanks to its reduced input power, even the little PLT-10 helps save energy. If we compare the 0.3 or 0.8W of the various PLT-10 with the 2.5 or 5W of conventional valves, and multiply the millions of items produced by the thousands of hours/year operation, we calculate that 200-400 tonnes of crude oil can be saved each year!





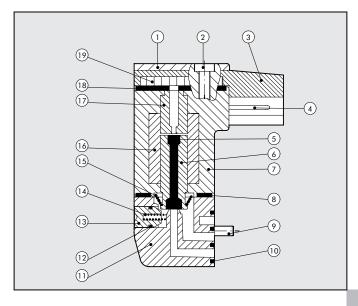
TECHNICAL DATA		
Туре		3/2 NC
Operating temperature range	Te	5° ÷ 50° C
Fluid temperature	Tg	5° ÷ 50° C
Fluid		Filtered, lubricated or unlubricated air
Operating life		Over 50 million cycles
Weight	g	12
Voltage tolerance	ΔV	± 10 %
Max operating frequency	f	30 Hz
Switching factor	ED	100 %
Insulation class		F155
Index of protection		IP51
Power connection		PLUG IN

OPERATING CHART



COMPONENTS

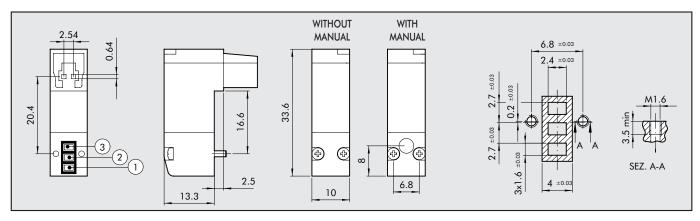
- (1) Transparent cover: PA612-transparent
- (2) Assembly screws: galvanized steel
- ③ Cover: PA66
- 4 PIN
- (5) Mobile core over-stamping: FKM/FPM
- 6 Mobile core: AISI 403F
- 7 Coil over-stamping: PA66
- ® Body-coil gasket: NBR70
- Assembly screws: galvanized steel
- 10 Body gasket: NBR
- ① Body: PA66
- (2) Manual gasket: NBR (only for version with manual operated)
- (3) Manual control: OT58 nickel-plated brass (only for version with manual operated)
- (4) Manual spring: AISI 302 (only for version with manual operated)
- (5) Spring: AISI 302
- 16 Winding: PPS Copper wire
- Trixed core: AISI 430F
- (8) Coil-cover gasket: NBR
- (9) Electronic board (only for version with electronic board)





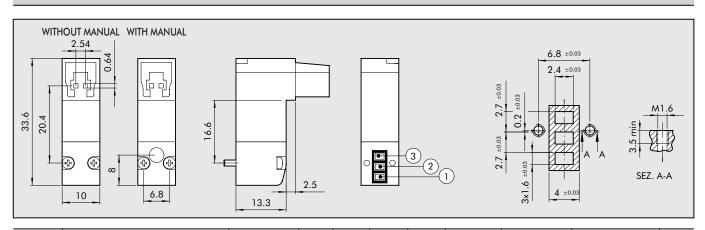


PLT-10 WITH BASE AND CONNECTION ON THE SAME SIDE



	VERSION (3/2 NC)	Code	Manual	Voltage [Volt]	Power [Watt]	Through Ø mm		Flow rate at 6 ΔP=1 bar [NI/min]	TMax coil T at 24VDC Te 20°C at ED100% [°C]	Weight
SENZA LED	-+- 2 +- 113	722113340000 722113340100	without with	24VDC 24VDC	0.7 W 0.7 W	0.6 0.6	3÷7 3÷7	9	93 93	[g] 12 12
CON LED	CLAMP CREEN 1 3	722113541000 722113541100	without with	24VDC 24VDC	0.9 W 0.9 W	0.6 0.6	3÷7 3÷7	9	93 93	12 12
SPEED-UP E LED	TIMER PWM GREEN TO THE CIRCUIT LED THE CIRCUIT LED TO THE CIRCUIT LED THE CIRCUIT LED THE CIRCUIT LED TO THE CIRCUIT LED THE CIRCUIT LED THE CIRCUIT LED THE CIRCUIT	722116841000 722116841100	without with		3/0.3 W 3/0.3 W	1.2	2÷7 2÷7	16 16	51 51	12

PLT-10 WITH BASE AND CONNECTION ON OPPOSITE SIDES



	VERSION (3/2 NC)	Code	Manual		Power	Through		Flow rate at 6	TMax coil T at 24VDC	Weight
	,			[Volt]	[Watt]	Ømm	pressure bar	ΔP=1 bar [NI/min]	Te 20°C at ED100% [°C]	
		722213340000	without	24VDC	0.7 W	0.6	3÷7	9	93	[g]
SENZA	-+	722213340100	with	24VDC	0.7 W	0.6	3÷7	9	93	12
LED	+- • 1 1 3									12
	·									
		722213541000	without	24VDC	0.9 W	0.6	3÷7	9	93	
CON LED	CLAMP GREEN THE STATE OF THE ST	722213541100	with	24VDC	0.9 W	0.6	3÷7	9	93	12
										12
LLD										
	+ ° × 2	722216841000	without	24VDC	3/0.3 W	1.2	2÷7	16	51	
SPEED-UP E LED	TIMER CIRCUIT CIRCUIT 1 3	722216841100	with	24VDC	3/0.3 W	1.2	2÷7	16	51	12
										12
LLLD										1
	- 0									



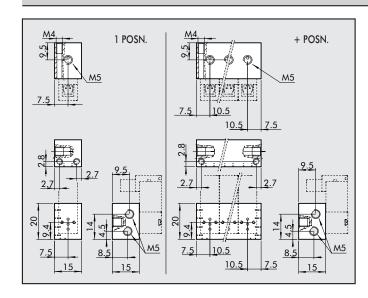
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KEY TO CODES

7 2	2		1		1	3		3		4		0	1	00
FAMILY		POSI	ITIONING	CC	POWER ONNECTION	Through Ø	ı	POWER	VO	LTAGE		LED	MANUAL CONTROL	VERSION
Soleno valv seri "PLT-1	es es		Base and Connection same side	1	l Plug-in	0.6 mm 1.2 mm	3 5 8	0.7 W 0.9 W 3/0.3 W	4 2	4VDC	0	LED	0 - 1 manual monostable	00 Standard
			Base and nection on posite sides											

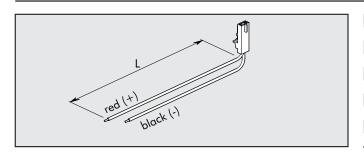
DIMENSIONS OF BASES FOR PLT-10



Code	Description
W0400100101	ACC. BASE 1 POSN. FOR PLT-10
W0400100102	ACC. BASE 2 POSN. FOR PLT-10
W0400100103	ACC. BASE 3 POSN. FOR PLT-10
W0400100104	ACC. BASE 4 POSN. FOR PLT-10
W0400100105	ACC. BASE 5 POSN. FOR PLT-10
W0400100106	ACC. BASE 6 POSN. FOR PLT-10
W0400100107	ACC. BASE 7 POSN. FOR PLT-10
W0400100108	ACC. BASE 8 POSN. FOR PLT-10
W0400100109	ACC. BASE 9 POSN. FOR PLT-10
W0400100110	ACC. BASE 10 POSN. FOR PLT-10

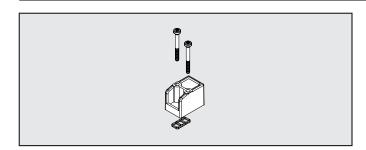
ACCESSORIES

PLUG-IN CONNECTOR



Code	Description
W0970512000	MACH 11 PLUG-IN CONNECTOR L=300

CAP FOR UNUSED POSITION



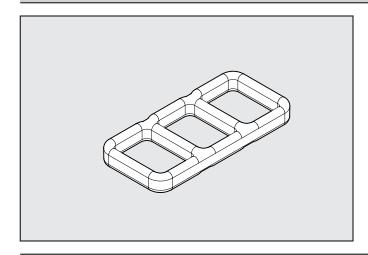
Code	Description	Weight [g]
W0400100200	ACC. CAP 10 mm	6



SPARE PARTS



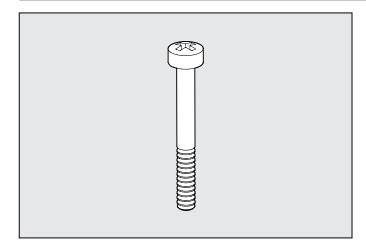
INTERFACE GASKET



Code Description
0226009701 PLT-10 GASKET

N.B. 50 per pack

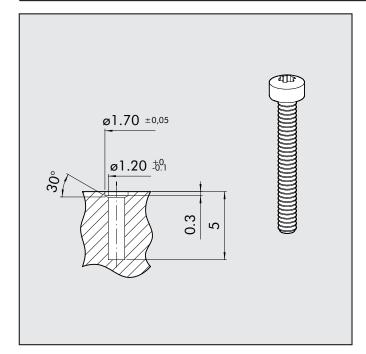
STANDARD SECURING SCREW (FOR ALUMINIUM)



Code Description
0226009702 PLT-10 SCREW FOR ALUMINIUM

N.B. 100 per pack

SECURING SCREWS FOR TECHNOPOLYMER



Code Description
0226009703 PLT-10 SCREWS FOR TECHNOPOLYMER

N.B. 100 per pack

When mounting on technopolymer bodies, use these screws instead of the ones supplied with the PLT-10.

ATTENTION: approximative dimensions for not added glass plastic materials It's always advisable to effect assembling tests.