

MACH 11 VALVES

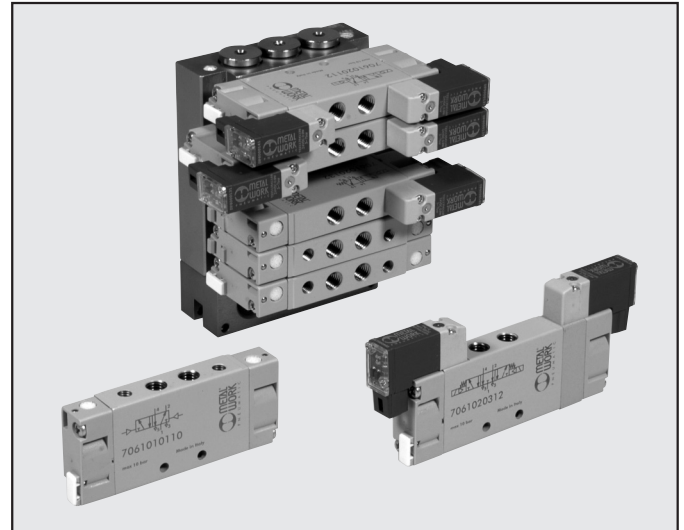
The Mach 11 in-line valves with M7 threaded connection come in the following versions:

- 5/2 monostable and bistable
- 5/3 with closed, open or pressure centres.

Control:

- pneumatic
- solenoid/pneumatic 24 V

With an exceptional compact design only 11 mm wide, and excellent high performance, these valves can be used in numerous applications in industrial automation.



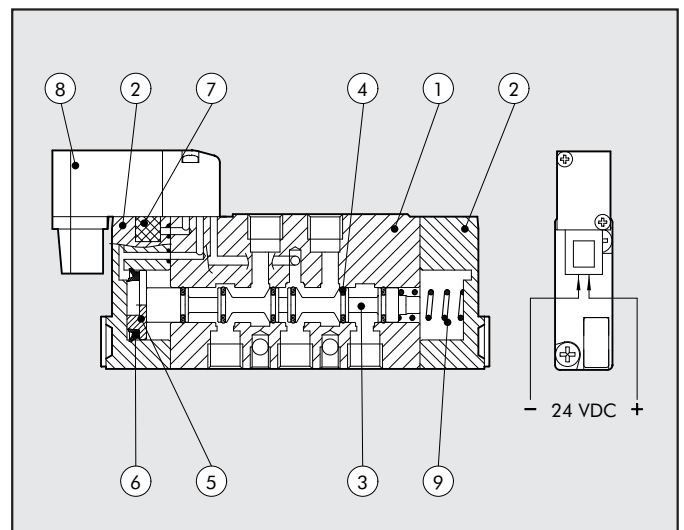
2

TECHNICAL DATA

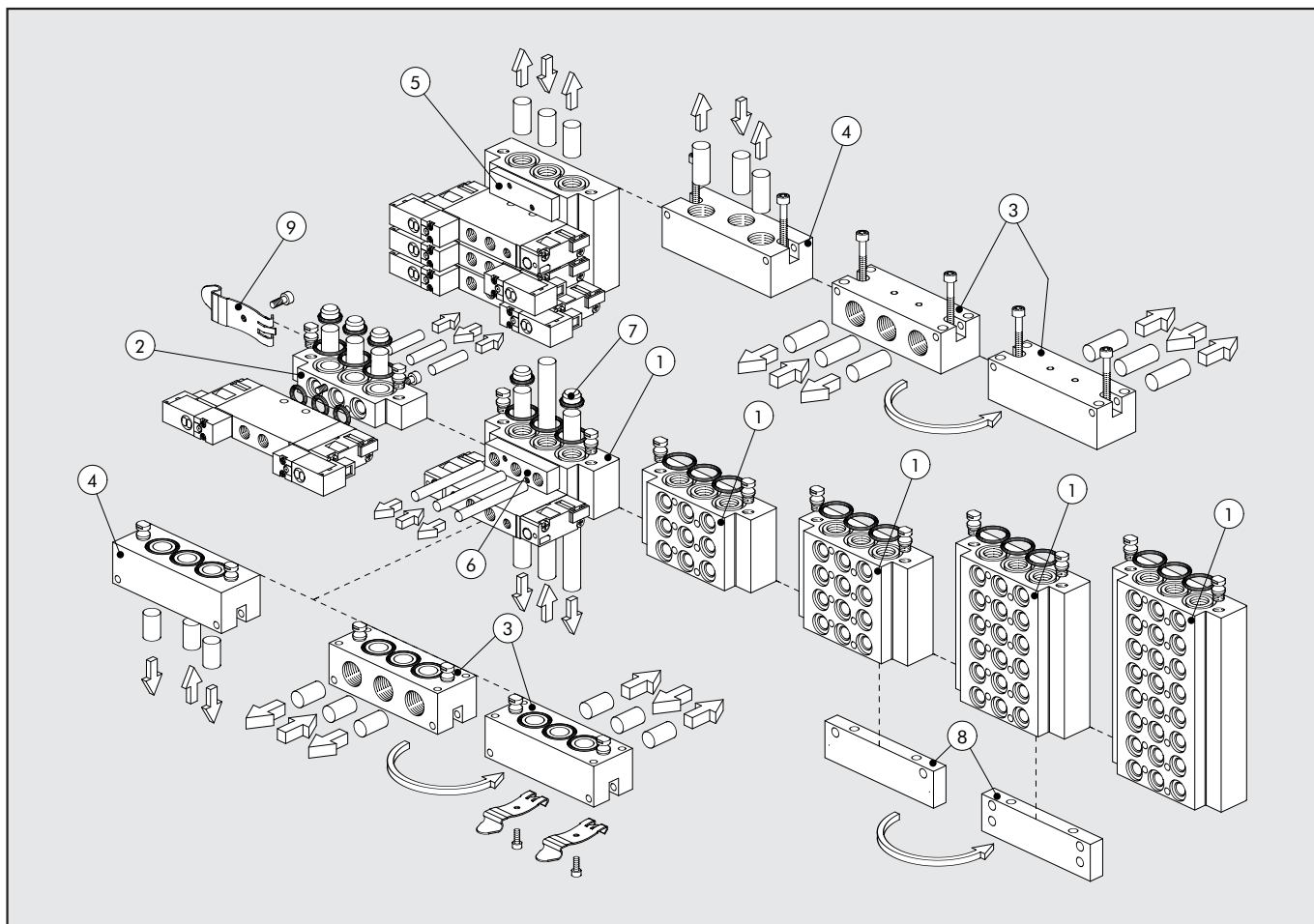
Valve port thread	M7			
Pilot thread	M5			
Maximum external diameter of gaskets	mm	M5: Ø 11 mm M5: Ø 9 mm		
Operating temperature range	°C	-10 °C ÷ +60 °C		
Fluid	Filtered air without lubrication; lubrication, if used, must be continuous			
Screw for valve wall-mounting	M3			
Flow rate at 6 bar ΔP 1 bar	Nl/min	400 Nl/min		
Pressure range	bar	Electric	Electric pilot-assisted	Pneumatic
		- monostable: 2 ÷ 7 bar	- pilot pressure: 2 ÷ 7 bar	- monostable control pressure values: 2 ÷ 10 bar
		- bistable: 2 ÷ 7 bar	- valve: vacuum ÷ 10 bar	- bistable control pressure values: 1 ÷ 10 bar
		- 5/3: 2/7 bar		- control pressure 5/3: 2 ÷ 10 bar
				- valve: vacuum ÷ 10 bar
Voltage range	24 VDC ±10%			
Power	0,9			
Insulation class	F155			
Degree of protection	IP 51			
Solenoid rating	100% ED			
TRA/TRR monostable at 6 bar	ms	10 ms / 45 ms		4 ms / 9 ms
TRA/TRR bistable at 6 bar	ms	22 ms / 22 ms		4 ms / 4 ms
TRA/TRR 5/3 monostable at 6 bar	ms	22 ms / 22 ms		4 ms / 4 ms
Compatibility with oils	please refer to page 6.1/08			

COMPONENTS

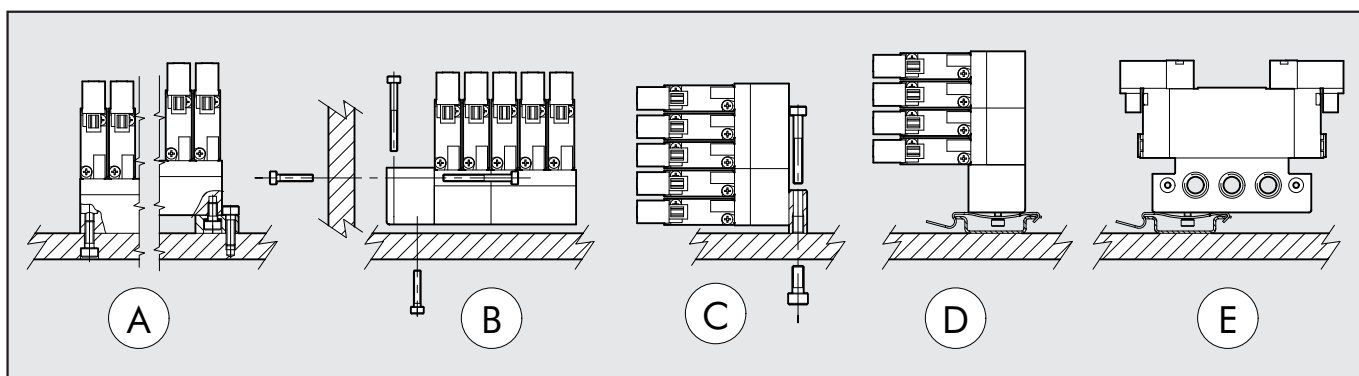
- ① VALVE BODY: Aluminium
- ② CONTROL/END CAP: HOSTAFORM®
- ③ SPOOL: Aluminium
- ④ GASKETS: Polyurethane
- ⑤ PISTONS: HOSTAFORM®
- ⑥ PISTON GASKET: Polyurethane
- ⑦ FILTER: sintered bronze
- ⑧ PILOT: with integrated coil
- ⑨ SPRING: special steel
- ⑩ REMOVABLE IDENTIFICATION PLATE



MACH 11 MODULARITY

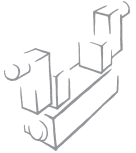


HOW TO FIX THE BASE



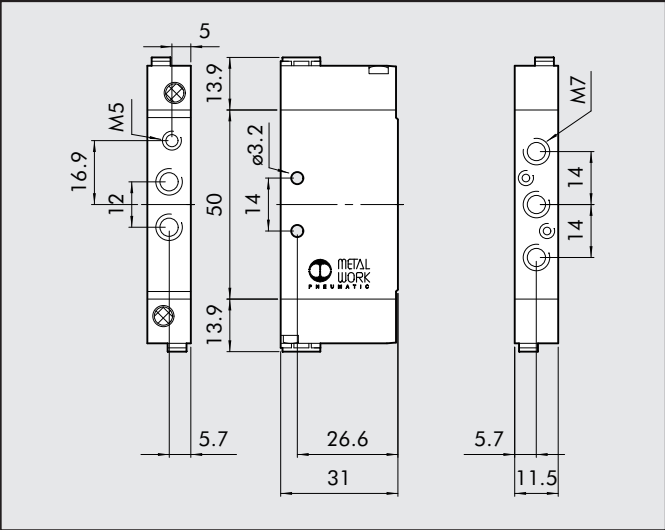
KEY TO CODES

M	S	V	1		5		S		O		B		0		0		2 4 V D C	
FAMILY			PORT		FUNCTION		OPERATORS 14				RESETTING		FURTHER DETAILS					
MSV	Mini-solenoid valve		1	M7	5	5/2	SO	Solenoid valve			B	bistable		00	5/2 standard		24VDC	
MPV	Mini pneumatic valve				6	5/3	SE	electric pilot-assisted			S	mechanical spring		CC	closed centres			
							PN	pneumatic					OC	open centres				
													PC	pressure centres				



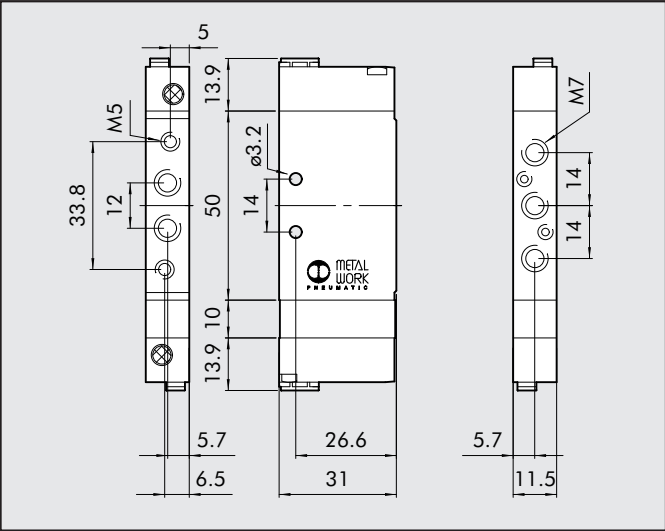
MACH 11 VALVES, PNEUMATIC

MONOSTABLE 5/2



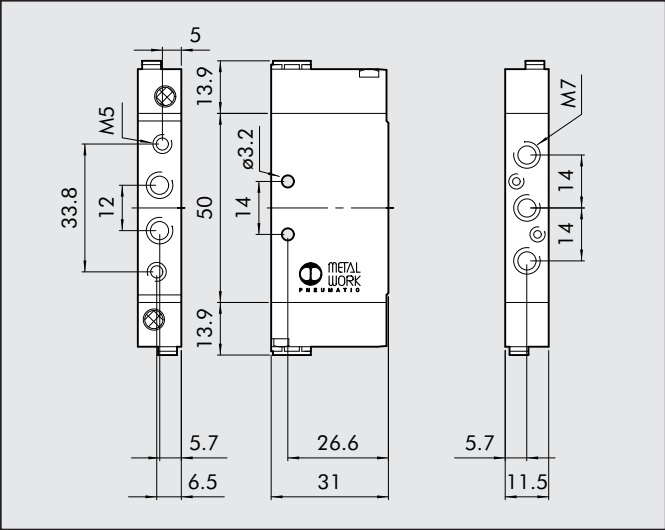
Symbol	Abbrev.	Code	Weight [g]
	MPV 15 PNS OO	7061010130	52

MONOSTABLE 5/3



Symbol	Abbrev.	Code	Weight [g]
	MPV 16 PNS CC	7061010210	62
	MPV 16 PNS OC	7061010310	62
	MPV 16 PNS PC	7061010410	62

BISTABLE 5/2



Symbol	Abbrev.	Code	Weight [g]
	MPV 15 PNB OO	7061010110	52

The technical drawing illustrates the METAL WORK M7000-10000 tool from three perspectives:

- Front View (Left):** Shows two identical vertical profiles. The total height is 50 units. The distance between the centers of the two main circular features is 17.1 units. The width of each profile is 5.7 units.
- Side View (Middle):** Shows the tool's depth. The total length is 44.3 units. Key horizontal dimensions include 13.9, 14, 13.9, 26.6, and 31 units. A central hole has a diameter of $\varnothing 3.2$. The "METAL WORK GENERATOR" logo is visible.
- Top View (Right):** Shows the tool's width and mounting details. The total width is 11.5 units. The distance between the centers of the four circular features is 14 units. One feature is labeled M7. The mounting bracket at the bottom has a width of 5.7 units.

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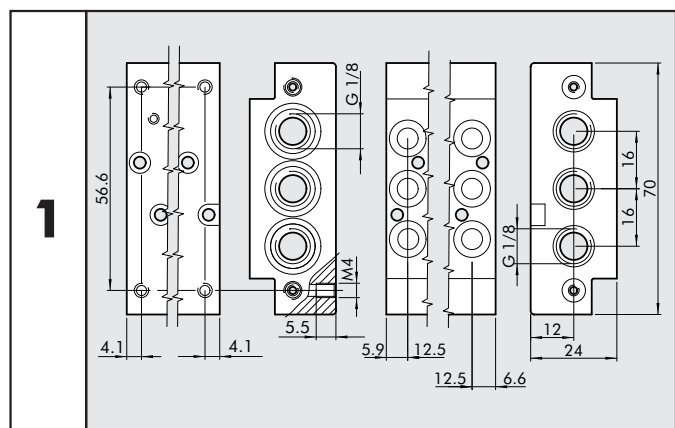
Symbol	Abbrev.	Code	Weight [g]
	MSV 16 SOS CC 24VDC	7061020212	82
	MSV 16 SOS OC 24VDC	7061020312	82
	MSV 16 SOS PC 24VDC	7061020412	82
	MSV 16 SES CC 24VDC	7061030212	82
	MSV 16 SES OC 24VDC	7061030312	82
	MSV 16 SES PC 24VDC	7061030412	82

[illegible][illegible]



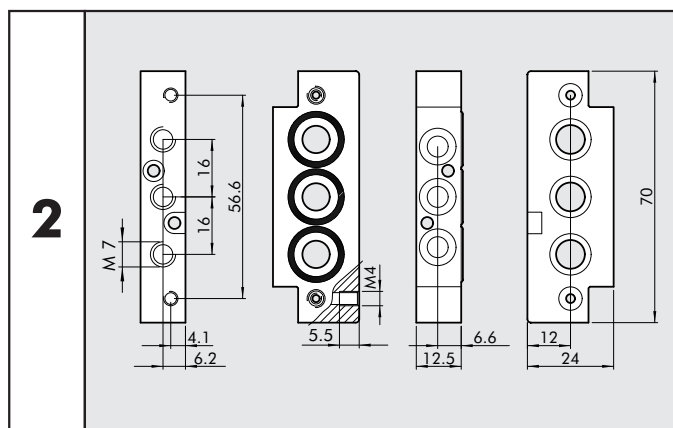
ACCESSORIES: MANIFOLD BASES FOR MACH 11 VALVES

MULTIPLE MANIFOLD BASE



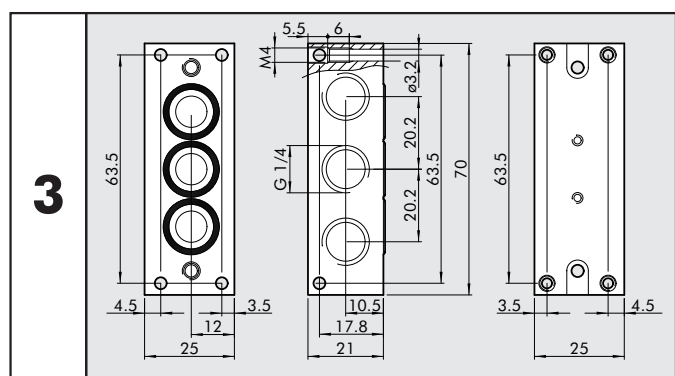
Code	Description	Weight [g]
0227400201	BASE, 2 POSN. FOR MACH 11	94
0227400301	BASE, 3 POSN. FOR MACH 11	140
0227400401	BASE, 4 POSN. FOR MACH 11	186
0227400601	BASE, 6 POSN. FOR MACH 11	282
0227400801	BASE, 8 POSN. FOR MACH 11	378

SEPARATE FEED MANIFOLD BASE



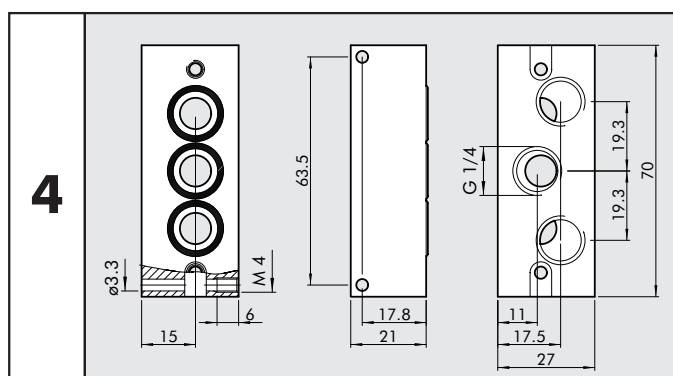
Code	Description	Weight [g]
0227400200	SEPARATE FEED MANIFOLD BASE FOR MACH 11	44

90° END PLATE



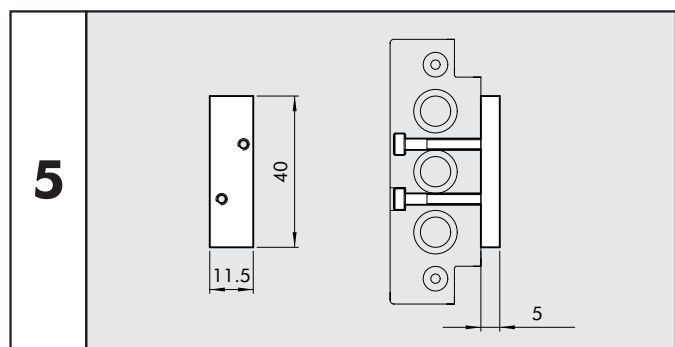
Code	Description	Weight [g]
0227400101	90° END PLATE 1/4 MACH 11	82

STRAIGHT END PLATE



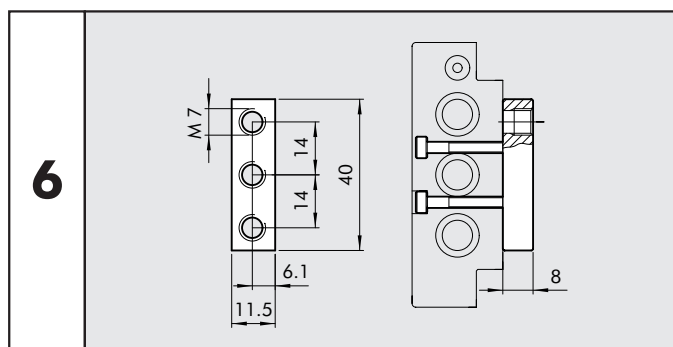
Code	Description	Weight [g]
0227400100	STRAIGHT END PLATE 1/4 FOR MACH 11	93

BLANKING PLATE



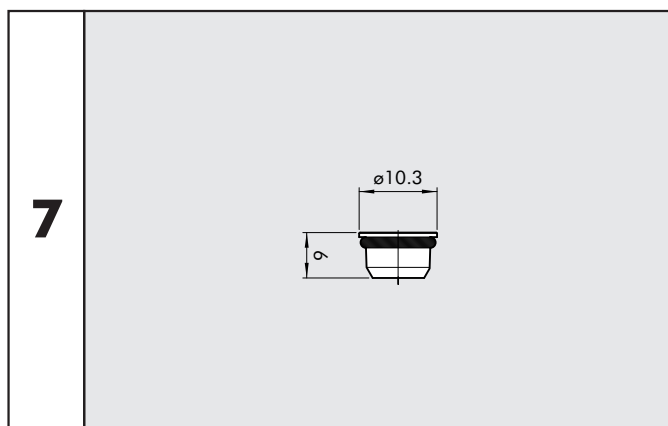
Code	Description	Weight [g]
0227400500	BLANKING PLATE FOR MACH 11	13

FEED BLOCK



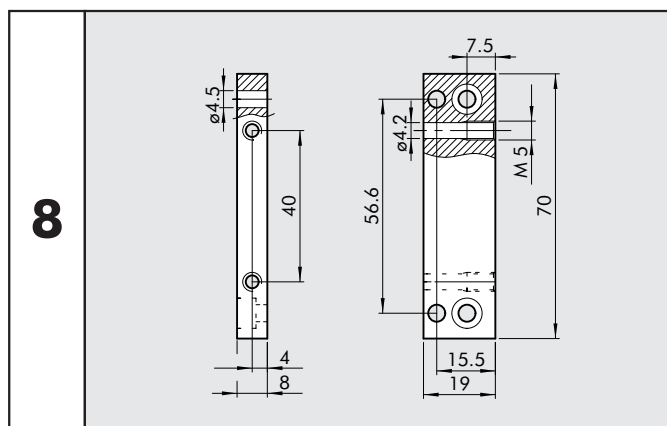
Code	Description	Weight [g]
0227400503	M7 FEED BLOCK FOR MACH 11	11

DIAPHRAGM



Code	Description	Weight [g]
0227400000	DIAPHRAGM FOR MACH 11 BASES	3

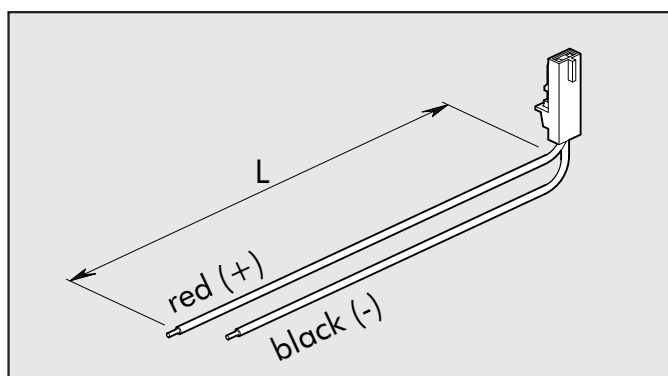
BASE FIXING PLATE



Code	Description	Weight [g]
0227400504	FIXING PLATE FOR MACH 11 BASES	28

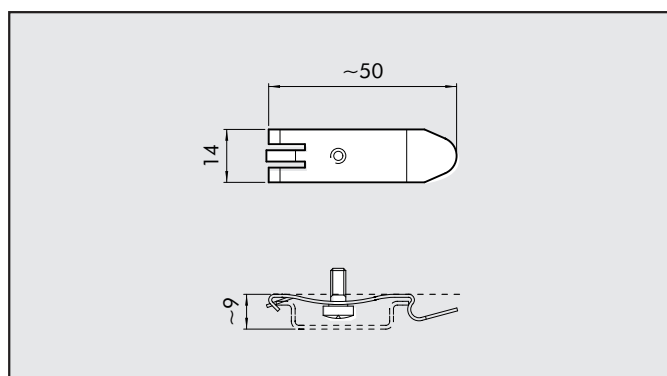
ACCESSORIES

PLUG-IN CONNECTOR



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

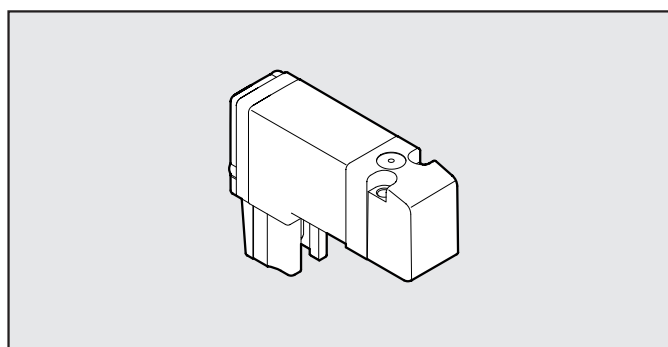
CONNECTION BRACKET ON DIN BAR



Code	Description
0227300600	CONNECTION BRACKET ON DIN BAR

SPARE PARTS

PLUG-IN PILOT



Codice	Descrizione
722113541100	PLT10_722113541100

NOTES