

VALVES MACH 11

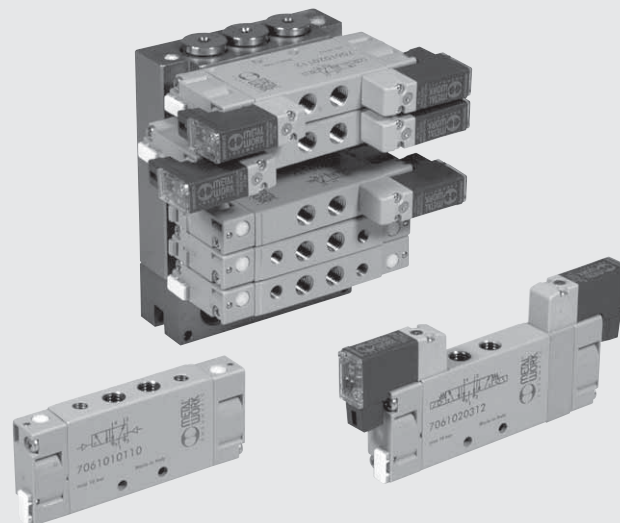
The Mach 11 in-line valves with M7 threaded connection come in the following versions:

- 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.

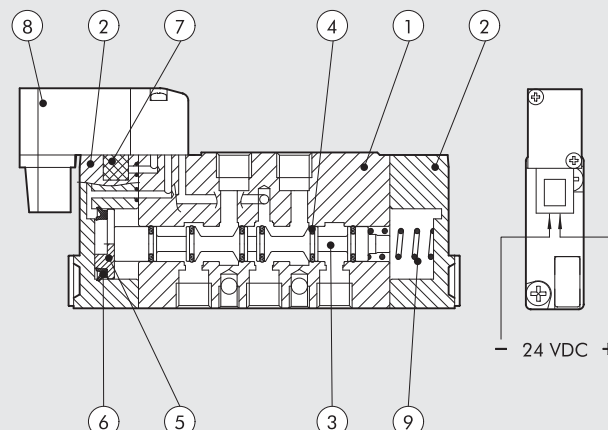


TECHNICAL DATA

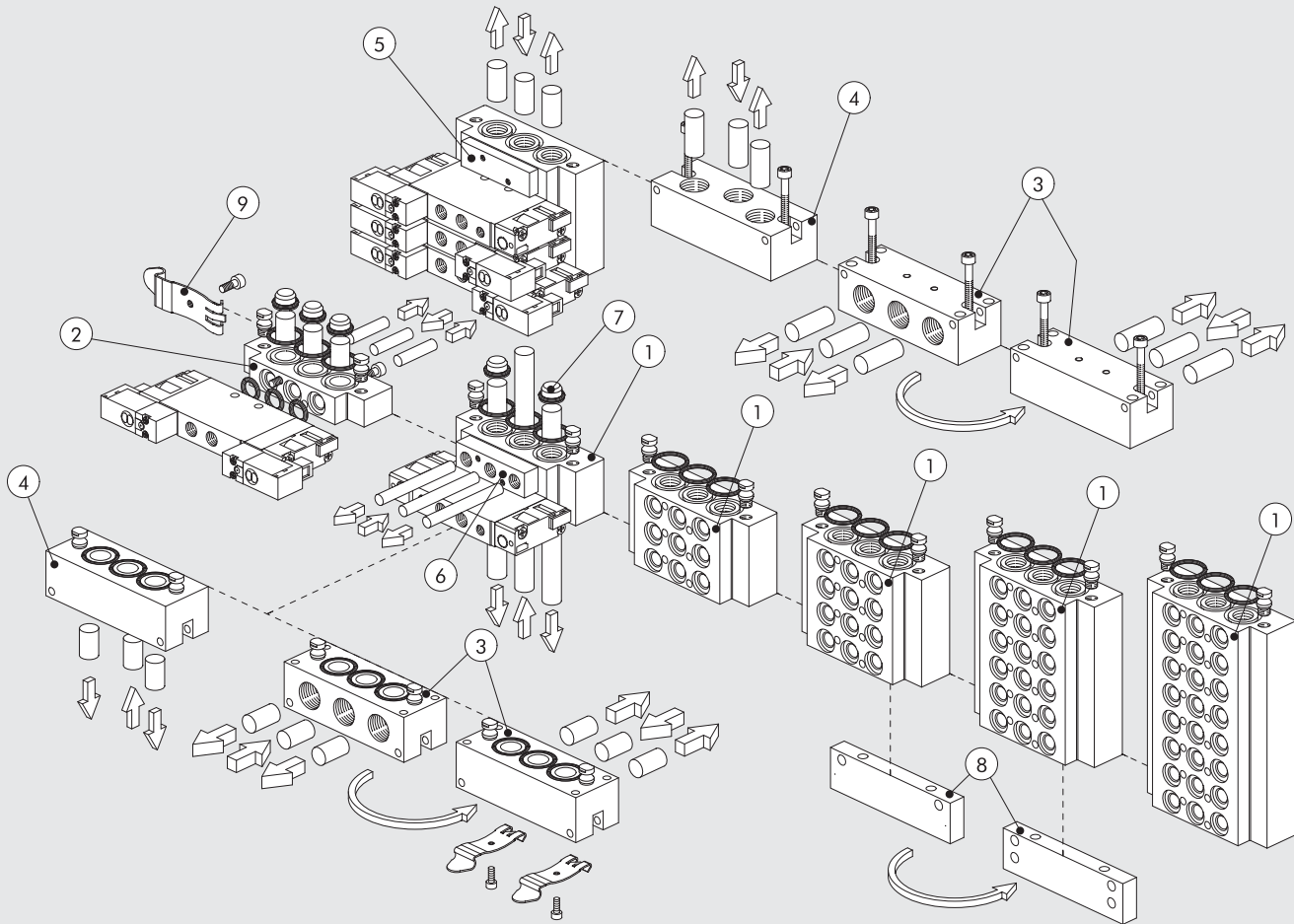
Valve port thread		M7		
Pilot thread		M5		
Maximum external diameter of fittings	mm	Pneumatic: M7 = Ø 11 - M5 = Ø 9 - Electric: M7 - M5 = Ø 11		
Operating temperature range	°C	-10 to +60		
Fluid		Filtered air without lubrication; lubrication, if used, must be continuous		
Screw for valve wall-mounting		M3		
Flow rate at 6 bar ΔP 1 bar	NI/min	400		
Pressure range	bar	Electric monostable: 2 to 7 bistable: 2 to 7 5/3: 2 to 7	Electric pilot-assisted pilot pressure: 2 to 7 valve: vacuum to 10	Pneumatic monostable control pres.values: 2 to 10 bistable control pres. values: 1 to 10 control pressure 5/3: 2 to 10 valve: vacuum to 10
Voltage range		24 VDC ± 10%	24 VDC ± 10%	-
Power	W	0.9	0.9	-
Insulation class		F155	F155	-
Degree of protection		IP 51	IP 51	-
Solenoid rating		100% ED	100% ED	-
TRA/TRR monostable at 6 bar	ms	10 / 45	10 / 45	4 / 9
TRA/TRR bistable at 6 bar	ms	22 / 22	22 / 22	4 / 4
TRA/TRR 5/3 monostable at 6 bar	ms	22 / 22	22 / 22	4 / 4
Compatibility with oils		See chapter Z1		

COMPONENTS

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



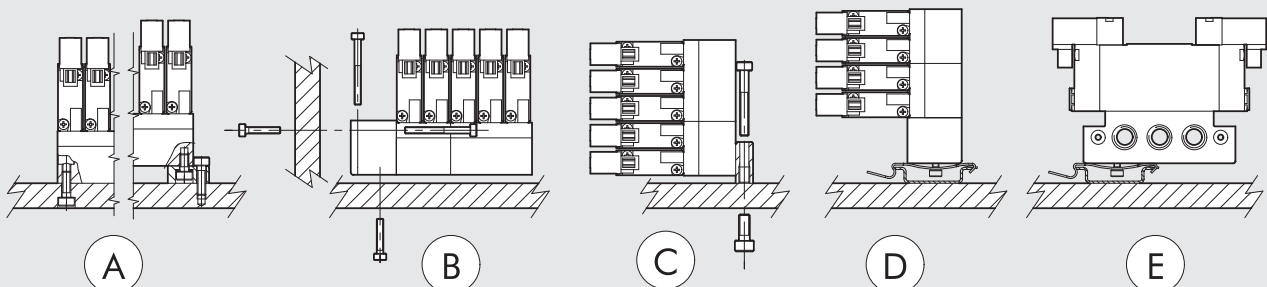
MODULARITY



DISTRIBUTORS

VALVES MACH 11

HOW TO FIX THE BASE

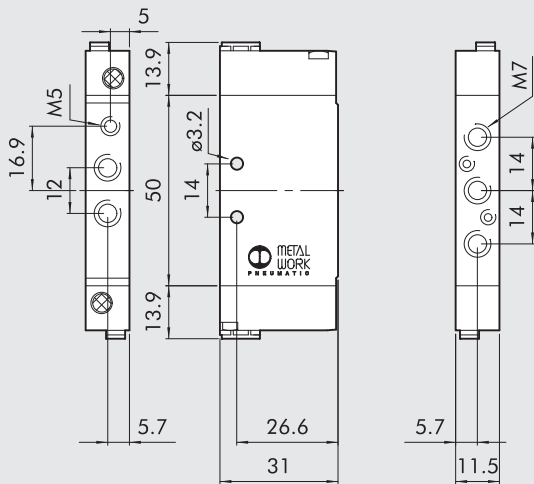


SYNOPTIC, SIZES AND VERSIONS

M S V FAMILY	1 DIMENSIONS	5 FUNCTION	S O OPERATORS 14	B RESETTING (12)	O O FURTHER DETAILS	2 4 V D C
MSV mini-solenoid valve	1 M7	5 5/2 6 5/3	SO solenoid SE solenoid assisted PN pneumatic	B bistable S mechanical springs	OO 5/2 standard CC closed centres OC open centres PC pressure centres	24VDC
MPV mini-pneumatic valve						

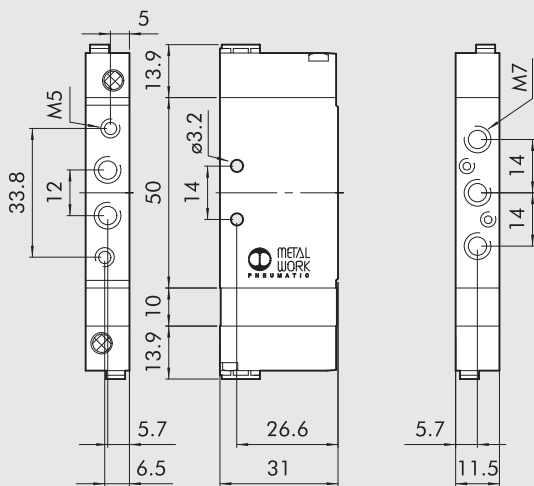
VALVES MACH 11, PNEUMATIC

MONOSTABLE 5/2



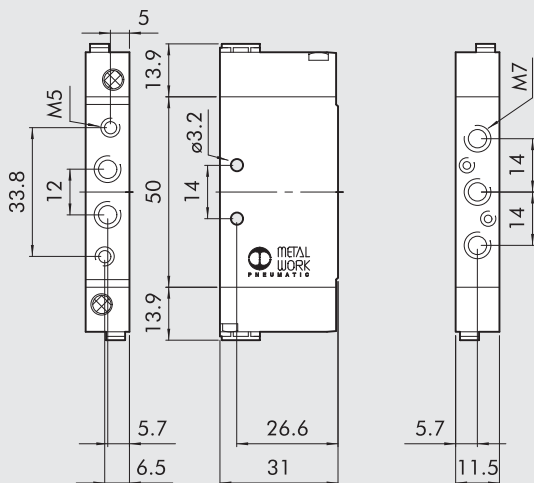
Symbol	Code	Abbrev.	Weight [g]
	7061010130	MPV 15 PNS OO	52

MONOSTABLE 5/3



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

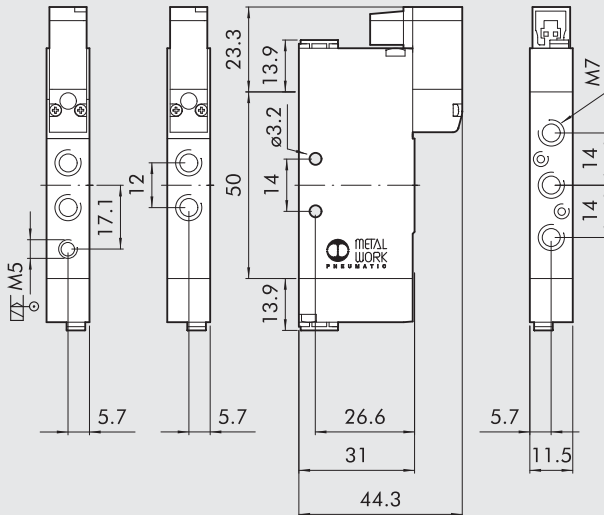
BISTABLE 5/2

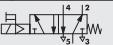
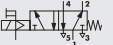


Symbol	Code	Abbrev.	Weight [g]
	7061010110	MPV 15 PNB OO	52

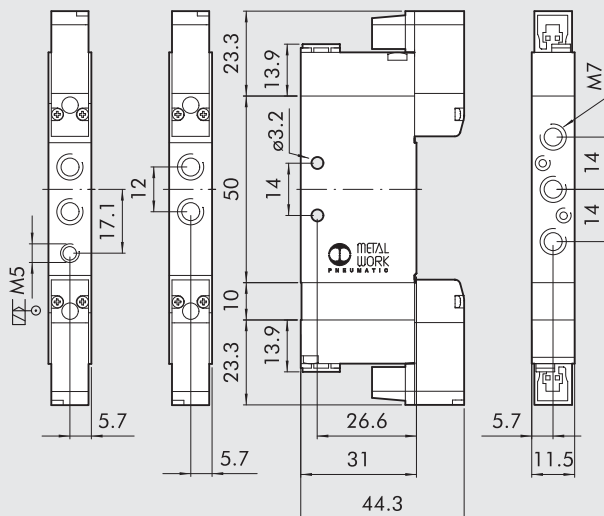
VALVES MACH 11, SOLENOID-PNEUMATIC

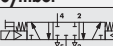
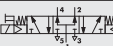
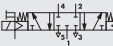
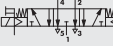
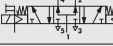
MONOSTABLE 5/2



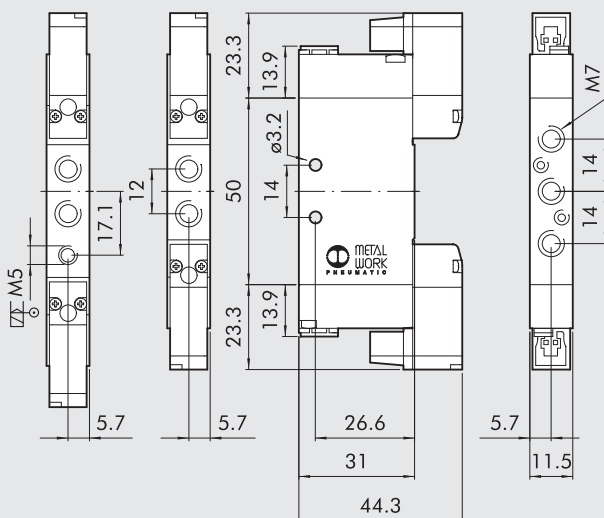
Symbol	Code	Abbrev.	Weight [g]
	7061020132	MSV 15 SOS OO 24VDC	60
	7061030132	MSV 15 SES OO 24VDC	60

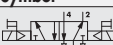
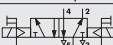
MONOSTABLE 5/3



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

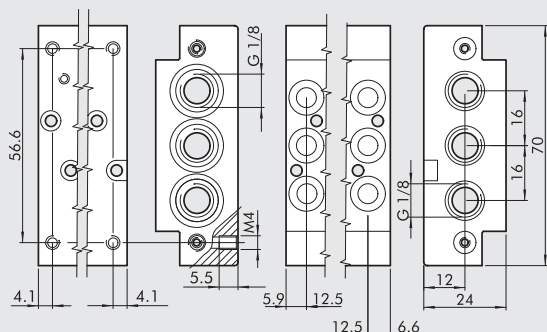
BISTABLE 5/2



Symbol	Code	Abbrev.	Weight [g]
	7061020112	MSV 15 SOB OO 24 VDC	72
	7061030112	MSV 15 SEB OO 24 VDC	88

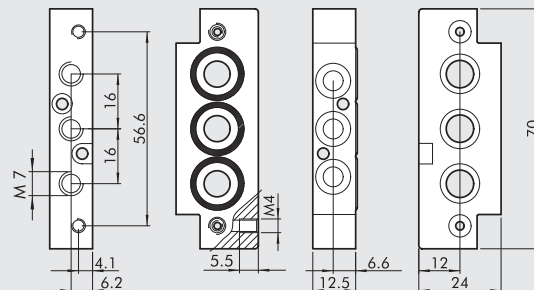
ACCESSORIES: MANIFOLD BASES

① MULTIPLE MANIFOLD BASE



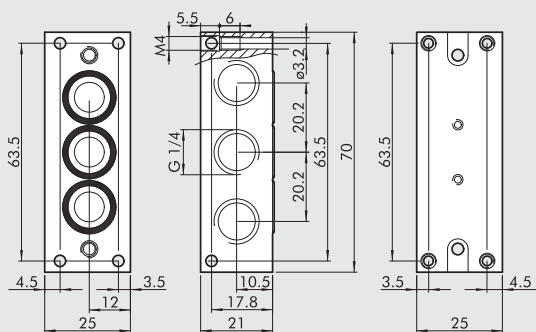
Code	Description	Weight [g]
0227400201	Base, 2 posn. for Mach 11	94
0227400301	Base, 3 posn. for Mach 11	140
0227400401	Base, 4 posn. for Mach 11	186
0227400601	Base, 6 posn. for Mach 11	282
0227400801	Base, 8 posn. for Mach 11	378

② SEPARATE FEED MANIFOLD BASE



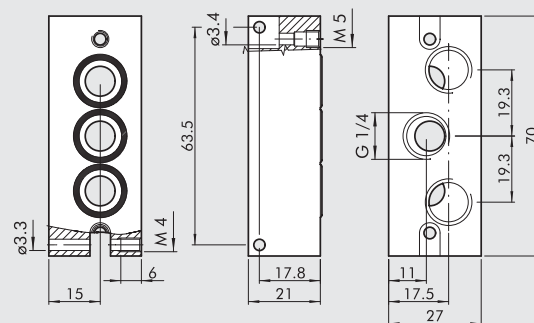
Code	Description	Weight [g]
0227400200	Separate feed manifold base for Mach 11	44

③ 90° END PLATE



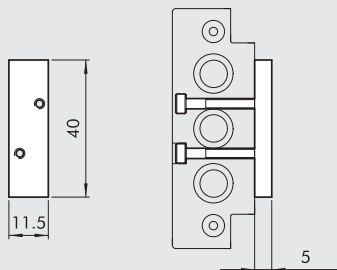
Code	Description	Weight [g]
0227400101	90° end plate 1/4 Mach 11	82

④ STRAIGHT END PLATE



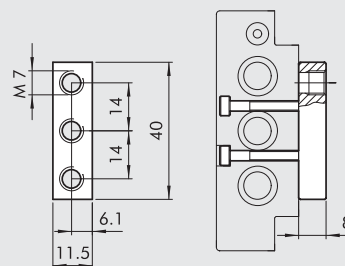
Code	Description	Weight [g]
0227400100	Straight end plate 1/4 for Mach 11	93

⑤ BLANKING PLATE



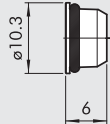
Code	Description	Weight [g]
0227400500	Blanking plate for Mach 11	13

⑥ FEED BLOCK



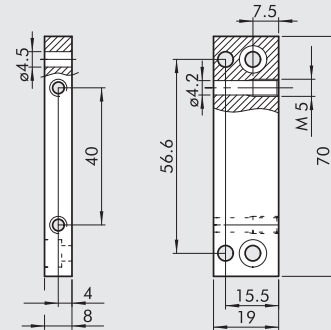
Code	Description	Weight [g]
0227400503	M7 feed block for Mach 11	11

⑦ DIAPHRAGM



Code	Description	Weight [g]
0227400000	Diaphragm for Mach 11 bases	3

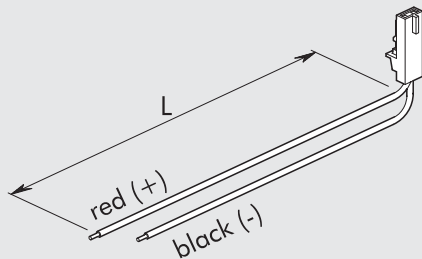
⑧ BASE FIXING PLATE



Code	Description	Weight [g]
0227400504	Fixing plate for Mach 11 bases	28

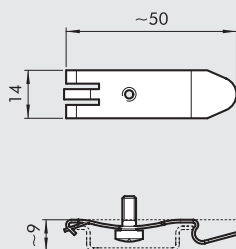
ACCESSORIES

PLUG-IN CONNECTOR



Code	Description
W0970512000	Plug-in connector for Mach 11 L = 300

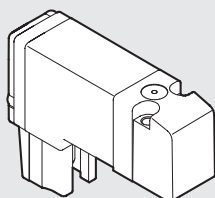
⑨ CONNECTION BRACKET ON BAR OMEGA (DIN EN 50022)



Code	Description
0227300600	Connection bracket on DIN bar

SPARE PARTS

PLUG-IN PILOT



Code	Description
722113541100	PLT-10 722113541100