HDM + MULTI-POLE CONNECTION

ALVES

HDMs are the ideal solution for those requiring the unbeatable performance, flexibility and modularity of Multimach valves combined with sturdy mechanics flexibility and modularity of Multimach valves combined with sturdy mechanics and a high degree of protection against external agents. Each valve is enclosed in a reinforced technopolymer protective shell that acts as a shock-absorber and prevents the infiltration of dirt. The class of protection is IP65. The smooth, rounded design makes HDMs ideal for applications requiring frequent washing without the deposit of residues. All the pneumatic connections are on one side, with built-in push-in fittings. The user interface is on another side so that the fitter and the service engineer have everything at hand. Flexibility is total: there are 1-16 valves, input and output terminals for pipes of different sizes and intermediate modules for separate inputs and outputs. One very important new feature is that valves of different capacities can be mounted as required. Three different valve sizes can be combined at will. This means a valve can be replaced at any time by another one offering a different performance. It only takes a few seconds to replace or add a valve. To do this, merely loosen the two grub screws fixing the valve to the next by means of gold-plated contacts connected to an electronic board, the electrical connections are entirely automatic.

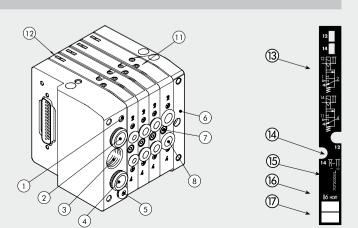
are entirely automatic. The ratio of the HDM's flow rate to its dimensions is unrivalled – miniaturisation

and efficiency have reached a peak.

TECHNICAL DATA						
Valve port connections	Ø 5/32", 1/4", 5/16" mm automatic fitting for ports 2 and 4 / power supply port for Ø 3/8 or 1/2 automatic fitting /					
			st port, 10/32 UNF three			
Connection on the end-plate for the s	supply of pilots			Automatic fitting Ø 5/3	2	
Maximum number of pilots				16		
Maximum number of valves			16 (s	ame as the max. no. of	pilots)	
Operating temperature range	°F			14 to + 140		
Fluid				rication; lubrication, if u		
Flow rate at 91 psi ΔP 14.5 psi	scfm	0.45 in Ø5/32-Cv15		0.55 in Ø5/16-Cv8	0.9 in Ø5/16	0.9 in Ø3/8
	version 5/2 and 3/2	7	17.7	23	35.3	42.5
	version 5/3	7	10.6	10.6	17.7	17.7
Pressure range	psi	×	((pilot supply)		1-11 (valve sup	1.7.
	Terminal 1-11		43.5-100	10 5 100	vacuum at 14	45
	Terminal 1			43.5 - 100		
Voltage range				24VDC ± 10%		
Power	W			0.9		
Control				PNP or NPN		
Insulation class				F155	4	
Degree of protection			11	265 (with conveyed exhu	ist)	
Solenoid rating			0 / 15	100% ED	0	1.10
TRA/TRR 2x3/2 monostable at 87 p TRA/TRR 5/2 monostable at 87 psi			8 / 45			60
TRA/TRR 5/2 bistable at 87 psi	ms		8 / 33 20 / 20			/ 60 / 8
TRA/TRR 5/2 bistable at 87 ps TRA/TRR 5/3 cc monostable at 87 p	ms		•			•
Note on use	osi ms	s 20 / 20 15 / 15 Insert the pipes in the fittings, before passing air through the valves, otherwise the basket may be pulled out of its seat by the flow of air.				
Compatibility with oils		insen me pipes in me nm		page 5-4 of the tecnica		in its sear by the now of dir.
			riedse reter to	page 3-4 of the techica	accumentation	

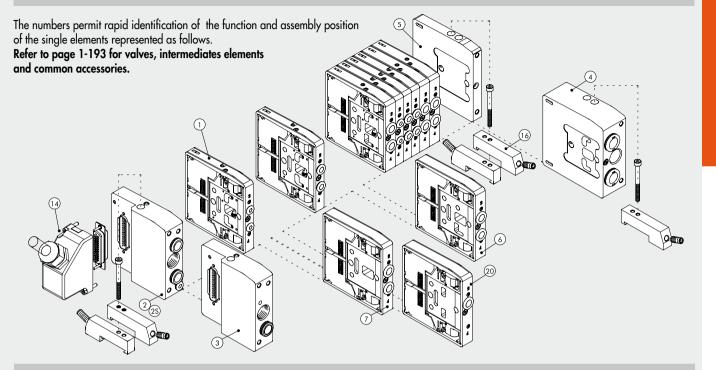
COMPONENTS

- Exhaust Solenoid pilot 82/84
- 2
- Valve supply port¹ Threaded connection of exhausts 3/5 3
- (4)
- Valve supply port 11 Electrical control supply X (5)
- Ğ
- Ō
- Blind end-plate or right end-plate 1-11 Screw for valve wall-mounting Utility port for pipe Ø 5/32-1/4-5/16-3/8 Manual control 8
- 1
- (12) LED (LED on, solenoid valve energised)
- (13) Pneumatic symbol
- Identification of the monostable or bistable manual control (14)
- Valve ordering code (15)
- 16 Valve identification code
- (7) Blank space for valve number

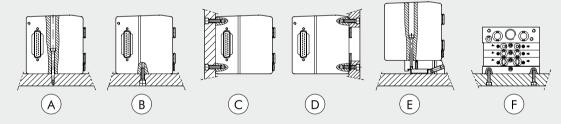




THE MULTIMACH WORLD: FLEXIBILITY



FIXING THE BASE



(A) Fixing from above using the 1 or 1-1 input terminal and the blind terminal.

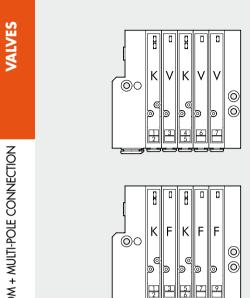
© Fixing from above using the 1 or 1-1 input terminal and the blind terminal, using the 10-32 UNF threads on the bottom and the rear of the terminals.
 © Fixing from above using the 1 or 1-1 input terminal and the blind terminal, using the 10-32 UNF threads on the front of the terminals.

- An opening for the pipes is made in the plate.
- (E) Fixing on the DIN bar with end-plate 1 or 1-11 and blind and plate, using the push-in bracket code 0227301600.
- E Lateral fixing using the blind terminal, and its the M4 threads on the side lateral. Note: The sole fixing admitted is the one showed.

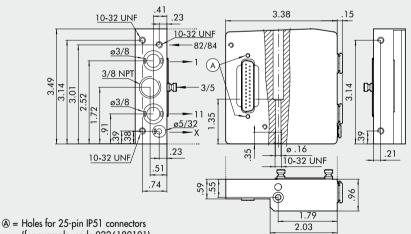
KEY TO CODES

НРМ	2	8	м	16U - W 8 - W 6U - O 4 - L 8 - 5	14-16
VALVE	INPUT END-PLATE	ELECTRICAL BASE	MANUAL TYPE	TYPE OF VALVE	FURTHER DETAILS
Heavy duty Multimach IP65	 2U End-plate 1-11 pipe Ø 3/8 3U End-plate 1 pipe Ø 3/8 2SU End-plate 1-11 pipe Ø 1/2 	8 D-Sub 25 wire	 M Monostable manual control B Bistable manual control 	$ \begin{array}{c cccc} I & n^{\circ} 2 \ 3/2 \ NC \\ W & n^{\circ} 2 \ 3/2 \ NO \\ L & 3/2 \ NO + 3/2 \ NC \\ V & 5/2 \ monostable \\ K & 5/2 \ bistable \\ O & 5/3 \ monostable \\ ^{\textbf{F}} & 5/2 \ monostable \\ ^{\textbf{F}} & 5/2 \ monostable \\ ^{\textbf{F}} & for the stable \\ ^{\textbf{F}} & for the stabl$	14 IP65 25-wire shell 16 n° 2 brackets for DIN bar
* Uses a single PIN (I	ike the V) and occupies 2 sign	nals.		Cumuye 5/6	

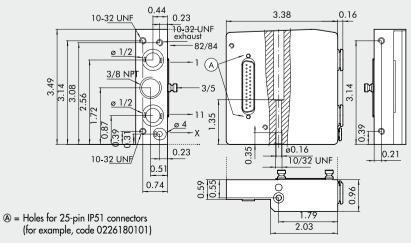
WIRING DIAGRAM











Code 0227301200U	Description End-plate HDM 1-11-25D	Weight [lb] 0.815
	Ø 3/8	
This end-plate allow • Port 2	ws for supplies to be differentia	ated
• Port 4		
 Pilot supply 		
Code	Description	Weight [lb]
0227301220U	End-plate HDM 1-11-25D Ø 1/2	0.815
	01/2	
	ws for supplies to be differentie	ated
Port 2		
 Port 4 Pilot supply		

Bistable

or n° 2 3/2

P24

P23 P22 P21 P20 P19

P18

P17

P16 P15 P14

P13 P12

P11 P10

P9 P8 P7 P6 P5 P4 P3 P2 P1

COMMON (P25)

PNP - Com (-)

NPN - Com (+)

NOTE: The type F monostable valve uses one PIN only (like the V)

but occupies 2 signals.

5/2 mostable

type "F"

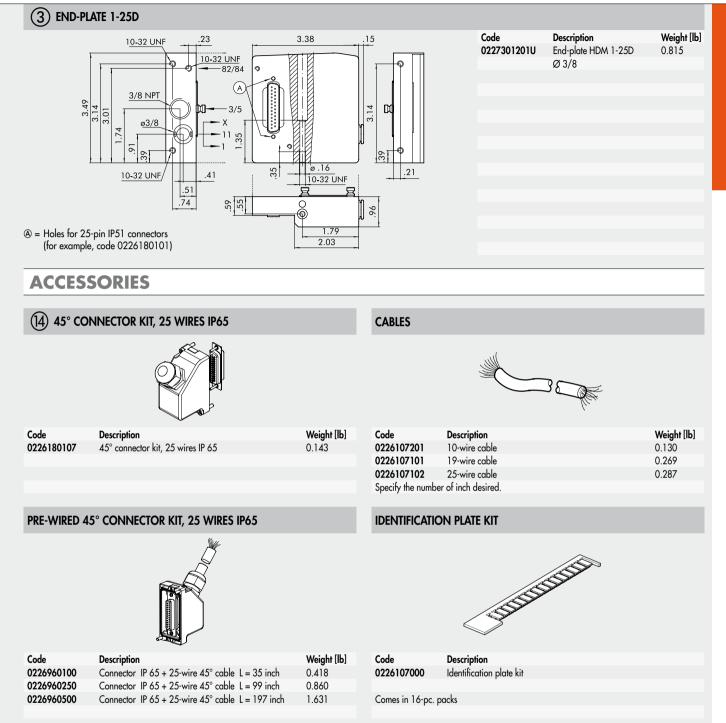
(EV5) EV4

5/2 mostable type "V"

EV3

EV1 EV2





WIRING DIAGRAM FOR PRE-WIRED PLUG CONNECTOR

25 PIN

Position of	Colour of the	Position of	Colour of the	Position of	Colour of the
electrical contact	corresponding wire	electrical contact	corresponding wire	electrical contact	corresponding wire
1	blue/black	11	red/orange	21	blue/white
2	red/brown	12	light blue	22	brown
3	white/black	13	yellow/white	23	green/white
4	red/blue	14	yellow	24	red
5	black/orange	15	red/green	25	green/black
6	yellow/red	16	orange		-
7	black/brown	17	orange/white		
8	white/red	18	green		
9	red/black	19	yellow/black		
10	brown/white	20	white		

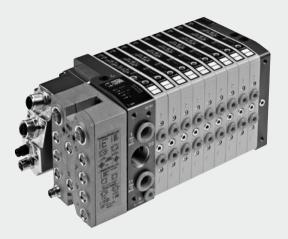
HDM + B&R

VALVES

An advanced field bus system interfacing with the Multimach world. B&R has developed a new standard for automation, called FORMULA X. For further details about features, functions and qualities of this system, reference must be made to the B&R documentation, also available on the web site www.br-automation.com

An overview is given below.

The X-system is a system handling analogue and digital inputs and outputs for local or remote use, which B&R defines as decentralised backplane. Different types of modules are available. We present those designed for connection with Multimach and HDM valve islands. We only indicate the B&R's code root, since each type of module comes in different variants, that differ by number of signals handled, that can be 8, 16 or 24, and by type of signal, that can be input, output or input/output indifferently. Common to all the modules is the presence of 4 connections: a signal input, a signal output for the following modules, a power input (24V DC), a power output for the following modules.



B&R CONNECTORS AND MODULES

IP20 7XV---50-11 SMART CONNECTOR

X67 1/O SYSTEM MODULES

code 0227301206U

It is a plug connector with IP20 protection that contains the X system electronics. It can be connected with HDM islands, using the special input end-plate, type 1, code 0227301207U or the special input end-plate type 1-11, code 0227301206U.

These are modules with IP67 protection, connected to the X system,

that they can be fixed directly to the HDM input end-plate type 1-11,

for handling inputs and outputs. It is interesting to note that their size is such

(N.B. NOT to be fixed to the HDM end-plate type 1, code 0227301207U).

IP67 7XV---50-51 SMART CONNECTOR

It is a plug connector with IP67 protection, that contains the X system electronics. It can be connected with HDM islands, using the special input end-plate type 1, code 0227301207U, or the special input end-plate, type 1-11 code 0227301206U.

X67 BUS CONTROLLER MODULES

These are modules with protection IP67, receiving a signal according to one of the DP Profibus, CAN open, Device Net, Ethernet Powerlink protocols (the module code differs obviously according to the protocol being controlled). The output signal is according to the X-system. These are gateways converting the signals of a field bus into an X-system. These modules control the inputs and/or outputs via the M8 connectors provided. They can be fixed directly to the HDM input end-plate type 1-11, code 0227301206U

(N.B. NOT to be fixed to the HDM end-plate, type 1, code 0227301207U).

X2X









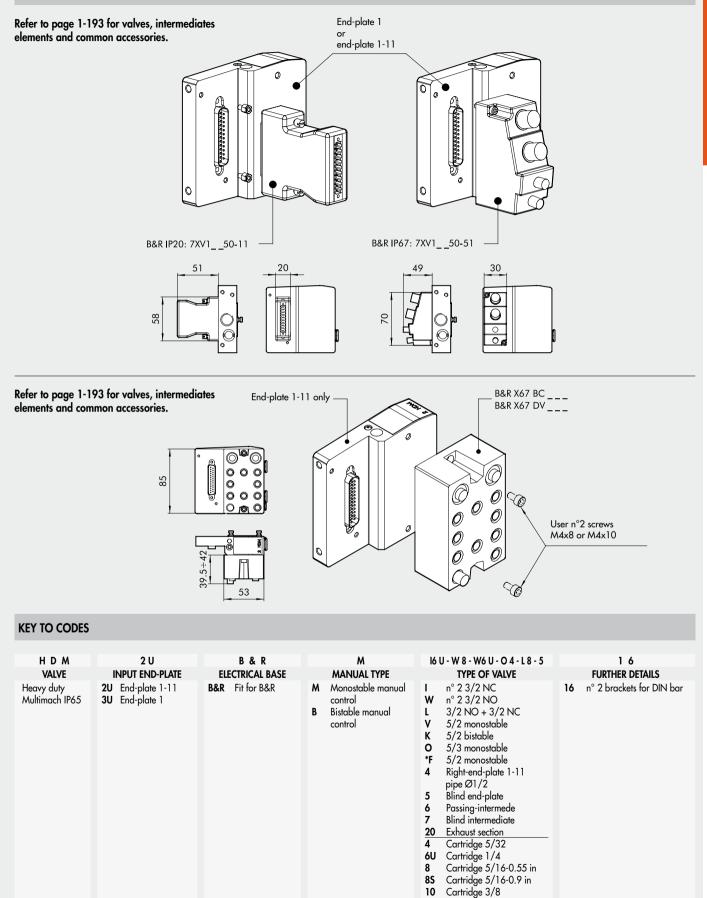
X2X



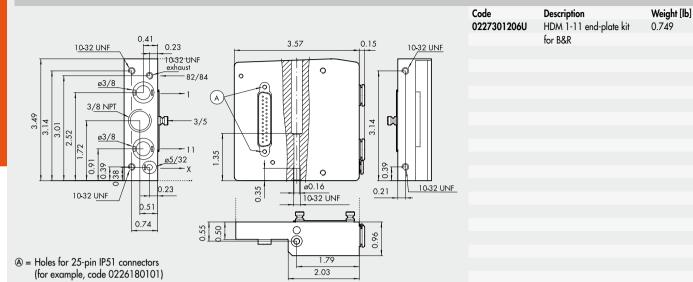
VALVES

HDM + B&R

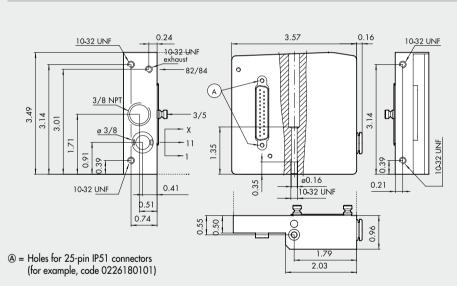
APPLICATIONS OF B&R MODULES TO HDM END-PLATES



HDM 1-11 END-PLATE FOR B&R



HDM 1 END-PLATE FOR B&R



Code 0227301207U	Description HDM 1 end-plate kit for B&R	Weight [lb] 0.837

NOTES

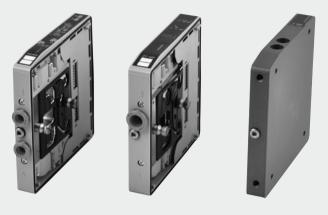
VALVES

HDM VALVES, INTERMEDIATES ELEMENTS AND ACCESSORIES

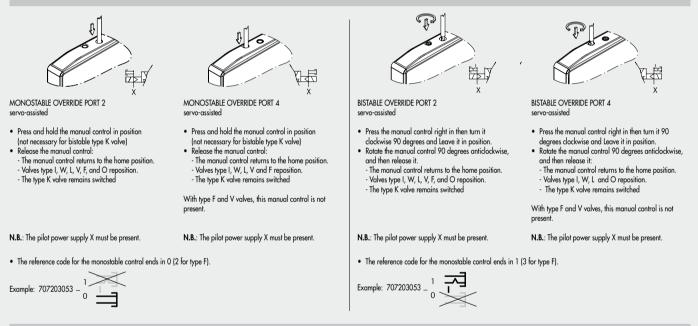


HDM valve can be included in islands with any available input terminal.

Note: if you use valves 85 type or 10 exploiting their flow capacity, it is appropriate to choose the inlet end plate 1-11 type by feeding the pilots separately (to avoid the pressure to decrease too much on the pilots). If you use simultaneously more than one valve 85 or 10 it is necessary to potentiate the pneumatic feeding by inserting end plates having Ø 1/2 pipe and/or through intermediate modules

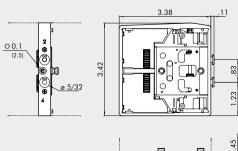


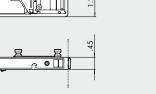
MANUAL CONTROLS



(1) VALVE DIMENSIONS HDM Ø 4 (Ø 5/32)

*uses a single PIN (like the V) and occupies 2 signals



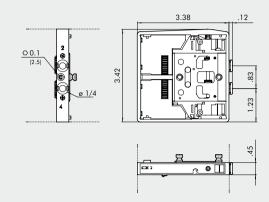


Symbol		Code	Manual control	Weight [lb]
HDM	82/84	7071030530	monostable	0.286
14		7071030531	bistable	
	x++13/5+ 11			
HDM	82/84 2 4	7071030630	monostable	0.286
W4		7071030631	bistable	
HDM	82/84 2 4	7071030730	monostable	0.286
1.4		7071030731	bistable	
L4	x			
HDM	82/84 2 4	7071030130	monostable	0.253
V4	¹₄¤¤LĭII/ĮV	7071030131	bistable	
V4	xi 1 ^J 3/5 L11			
HDM	82/84 2 4	7071030132	monostable	0.253
*F4	¹₄¤₫ <mark>Ţ</mark> ĨĨĨĹ	7071030133	bistable	
<u>г</u> 4	xi 1 ^J 3/5 L11			
HDM	82/84 2 4	7071030110	monostable	0.286
К4		7071030111	bistable	
Ν4	x ¹ 1-3/5-11			
HDM		7071030210	monostable	0.286
01		7071030211	bistable	
04	x ¹ 1 ^J 3/5 L11			

HDM - VALVES, INTERMEDIATES ELEMENTS AND ACCESSORIES

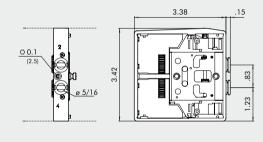
(1) VALVE DIMENSIONS HDM Ø 1/4

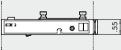
*uses a single PIN (like the V) and occupies 2 signals



(1) VALVE DIMENSIONS HDM Ø 8 (Ø 5/16)

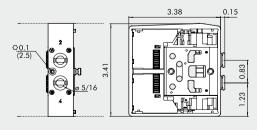
*uses a single PIN (like the V) and occupies 2 signals

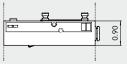




1 VALVE DIMENSIONS HDM Ø 85 (Ø 5/16)

*uses a single PIN (like the V) and occupies 2 signals





Symbol		Code	Manual control	Weight [lb]
HDM		7072030530U		0.286
16		7072030531U	bistable	
HDM		7072030630U		0.286
W6		7072030631U	bistable	
HDM	82/84 2 4	7072030730U	monostable	0.286
L6		70720307310	bistable	
HDM	82/84 2 4	7072030130U	monostable	0.253
V6	14 [2] <u>} / </u> ∕ x	70720301310	bistable	
HDM	82/84 2 4	7072030132U	monostable	0.253
*F6	14 [2]] [] [] [] [] [] [] [] [] [] [] [] []	7072030133U	bistable	
HDM	82/84 2 4	7072030110U	monostable	0.286
K6	14 [2] 1 4 [2] 1 4 [2] 1 2 x t 1 5 3/5 11	70720301110	bistable	
HDM	82/84 2 4	7072030210U	monostable	0.286
06		7072030211U	bistable	

Symbol		Code	Manual control	Weight [lb]
HDM	82/84 2 4	7073030530	monostable	0.308
18		7073030531	bistable	
HDM	82/84 2 4	7073030630	monostable	0.308
W8		7073030631	bistable	
HDM	82/84	7073030730	monostable	0.308
L8		7073030731	bistable	
LO	x++			
HDM	82/84 2 4	7073030130	monostable	0.286
V8	14 ⊈‡ <mark>111/,</mark> ∨	7073030131	bistable	
VO	xi 1 ^J 3/5 L11			
HDM	82/84 2 4	7073030132	monostable	0.286
*F8	14 024 311 / 1	7073030133	bistable	
ГО	xi 1 ^J 3/5 L11			
HDM	82/84 2 4	7073030110	monostable	0.308
VO	14 24 12	7073030111	bistable	
K8	x 1 3/5 L 11			
HDM		7073030210	monostable	0.308
0		7073030211	bistable	
08	x 1 3/5 1 1			

Symbol		Code	Manual control	Weight [lb]
HDM	82/84	7077030530	monostable	0.573
185		7077030531	bistable	
HDM	82/84	7077030630	monostable	0.573
W8S		7077030631	bistable	
HDM	82/84 2 4	7077030730	monostable	0.573
L8S		7077030731	bistable	
HDM	82/84 2 4	7077030130	monostable	0.531
V8S	14 [24] <u>}</u> x 1 3/5 11	7077030131	bistable	
HDM	82/84 2 4	7077030132	monostable	0.531
*F8S	14 [A]] / √ x 1 - 3/5 - 11	7077030133	bistable	
HDM	82/84 2 4	7077030110	monostable	0.557
K8S	14 / 12 x + 1 − 3/5 L 11	7077030111	bistable	
HDM	82/84 2 4	7077030210	monostable	0.577
O8S		7077030211	bistable	



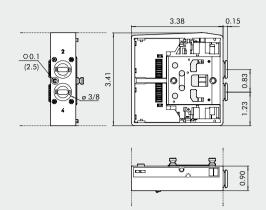
83

23

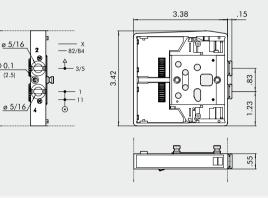
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(1) VALVE DIMENSIONS HDM Ø 3/8

*uses a single PIN (like the V) and occupies 2 signals



ര	INTERMEDIATE THROUGH
\mathbf{O}	



3.38

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0 0 .15

2.07

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Weight [lb]

0.275

Code Description 0227301301

ø 5/16

00.1

Code

0227301303

00.1

(2.5)

Intermediate through HDM

(20) INTERMEDIATE EXHAUST SWITCH

- 82/84

3/5

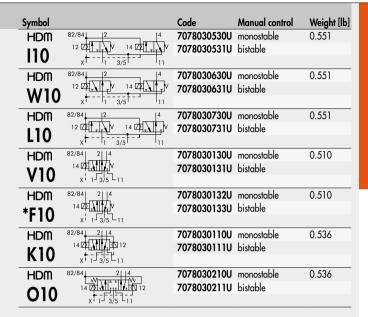
Description

3.42

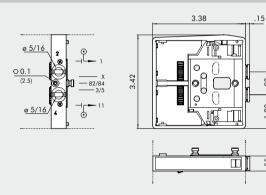
Intermediate exhaust switch HDM

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Weight [lb] 0.264

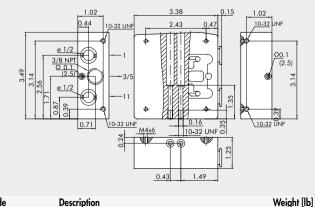


$\overline{7}$ INTERMEDIATE BLIND



Weight [lb] Code Description 0227301302 Intermediate blind HDM 0.258

RIGHT-END-PLATE 1-11 PIPE Ø 1/2 (4)



Code	Description	Weight [lk
0227301221U	Rigth-end-plate HDM 1-11 Ø 1/2	1.38

This end-plate allows for supplies to be differentiated:

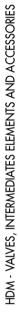
- Port 2
- Port 4

HDM - VALVES, INTERMEDIATES ELEMENTS AND ACCESSORIES

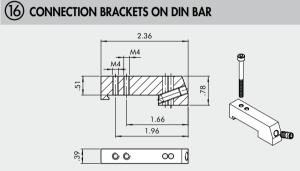
VALVES

(5) BLIND END-PLATE Weight [lb] 0.507 Code **Description** Blind end-plate HDM 3.38 2.44 0227301500 <u>10-32 UN</u>F <u>10-32 UN</u>F 0 0.1 20.1 82/84 3.49 3/5 8.14 3.14 3.14 Х .35 11e. 10-32 UNF 10-32 UNF ø .16 10-32 UNF .22 MAVA .22 @@ \# 46 .25 .43 1.06

ACCESSORIES

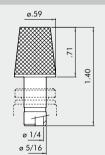


VALVES



Code	Description	Weight [lb]
0227301600	Connection brackets on din bar HDM/CM	0.066
Supplied complete	with one M4x45 screws and one M6 grub screw	
Individually packed	0	
,,		

SILENCER FOR FITTING, Ø 5/16

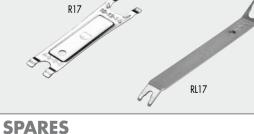


Code	Description			Weight [lb]
W0970530084	Silencer for fitting,	Ø 5/16		0.033
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
At the 3/5-exhau	st port of the intermed	liate throughreference	6	
and of the exhaus	st switch reference 20			
Code	Rif.	Length [in]	Ø Tube	
2L17001	RL17	5.51	from Ø 1/8 to Ø	•
2017001	R17	95	from Ø 5/32 to Ø	ð 1/2

R17

GRUB SCREW KIT

R17 - PIPE RELEASE SPANNER



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0

	-	
5		

Code
0227301800

Description Grub screw for Multimach HDM/CM

Comes in 1 + 1 pc. packs

MULTIMACH

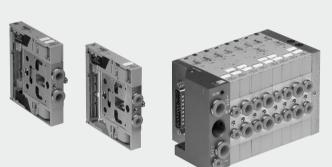


Multimach is not a mere valve, it is an electropneumatic distribution "island" - a single block ready for connection to power and air delivery pipes and a multi-pin cable.

All the pneumatic connections are situated on one side with built-in push-in fittings. The user interface is on the other side so that the fitter or serviceman has everything within an easy reach: manual controls, active valve signalling lights, compressed air system diagram, valve identification plates. The user can count on four different orientations for the electric connector.

The user can count on four different orientations for the electric connector. Multimach provides full flexibility in the application of valves: 1 to 24 valves, power plates and drain for pipes of various sizes, electric 9- or 25-pin plug connector. But the real novelty, is the possibility of mounting valves of different flow rates: three different valves can be mounted at a time and a valve can be replaced with another of a different flow rate. This revolutionary concept enables the user to optimise space and costs and adapt the unit to different performance requirements.

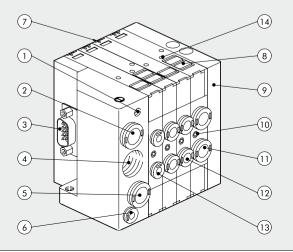
The ratio between the flow rate of the Multimach system and sizes is incomparable: the top in terms of miniaturisation and efficiency.



TECHNICAL DATA				
Valve port connections		Ø 5/32", 1/4", 5/16" automatic fitting for ports 2 and 4 / power supply port for Ø 5/16" or Ø 3/8" automatic fitting /		
		3/8 thread for	exhaust port, M5 thread for exhau	st pilot port
Connection on the end-plate for the supply of pilot	s		Automatic fitting Ø 5/32"	
Operating temperature range	°F		14 to + 140	
Fluid		Filtered air without lu	ubrication; lubrication, if used, mu	ust be continuous
Screw for valve - wall-mounting		According	to the end-plate used: see page	1-198
Flow rate at 87 psi Δ P 14.5 psi	scfm	Ø 5/32: 7, Cv .15	Ø 1/4: 17,6, Cv .4	Ø 5/16: 28, Cv .8
Voltage range			24 VDC ±10%	
Power	W		1.2	
Insulation class	Insulation class		F155	
Degree of protection			IP51	
Solenoid rating			100% ED	
Pressure range		X (pilot supply)		1-11 (valve supply)
Terminal 1-11	psi	43.5 to 101.5 max		vacuum at 145 psi
Terminal 1	psi		43.5 to 101.5	
Terminal 1 reduced	psi		43.5 to 101.5	
TRA/TRR 2x3/2 monostable at 87 psi	ms		8 / 45	
TRA/TRR 5/2 monostable at 87 psi	ms	8 / 33		
TRA/TRR 5/2 bistable at 87 psi ms		20 / 20		
TRA/TRR 5/3 cc monostable at 87 psi ms			20 / 20	
Note on use		Insert the pipes in the fittings, before passing air through the valves,		
		otherwise the bask	et may be pulled out of its seat by	the flow of air.
Compatibility with oils		Please refer	to page 5-4 of the tecnical docum	entation

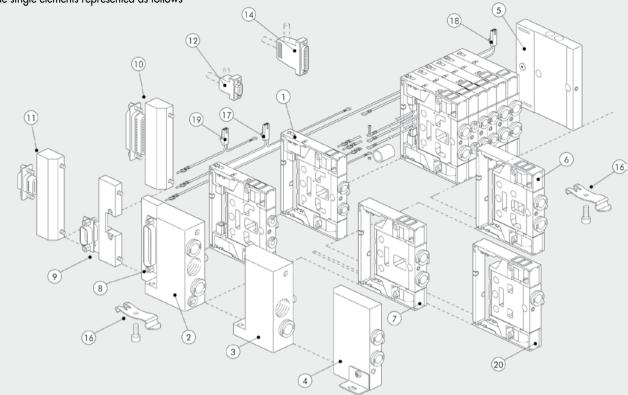
COMPONENTS

- 1) Exhaust Solenoid pilot
- 2 Valve supply port 1
- ③ Electrical multiple connection with 9 or 25 pins
- ④ Threaded connection of exhausts 3/5
- (5) Valve supply
- 6 Electrical control supply
- (7) LED (LED on, solenoid value energised)
- 8 Removable identification labels
- Ø Blind end-plate
- ⁽ⁱⁱ⁾ Screw for valve wall-mounting
- (1) Utility port for pipe Ø 5/16
- 12 Utility port for pipe Ø 1/4
- 13 Utility port for pipe Ø 5/32
- (14) Manual control

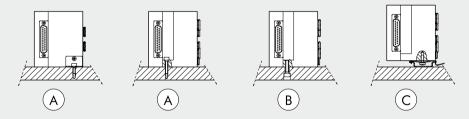


THE MULTIMACH WORLD: FLEXIBILITY

The numbers permit rapid identification of the function and assembly position of the single elements represented as follows



FIXING THE BASE



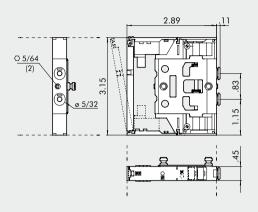
- D Fixing on the DIN bar with end-plate 1-11 CODE 0227300 using the reduced end-plate 1 CODE 0227300300
- or end-plate CODE 0227300201 using the push-in bracket CODE 0227300600. If you have to remove the base from the bar, this is rapid and can be performed without using any tools.

KEY TO CODES

M 5 1	2	8	16U - W 8 - W 6U - O 4 - L 8 - 5U	12-14
VALVE	INPUT END-PLATE	ELECTRICAL BASE	TYPE OF VALVE	FURTHER DETAILS
Multimach IP51	 2U End-plate 1-11 3U End-plate 1 4U Reduced End-plate 1 	 8 Axial 25-wire connector base 9 Axial 9-wire connector base 10 25-wire rear connector base 11 9-wire rear connector base 	I n° 2 3/2 NC W n° 2 3/2 NO L 3/2 NO + 3/2 NC V 5/2 monostable K 5/2 bistable O 5/3 monostable 5U Blind end-plate 6 Passing-intermede 7 Blind intermediate 20 Exhaust section 4 Cartridge 5/32 6U Cartridge 1/4 8 Cartridge 5/16	12 9-wire connector14 25-wire connector16 Brackets for DIN bar

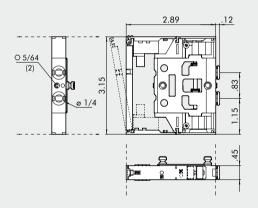


1 VALVE DIMENSIONS Ø 5/32



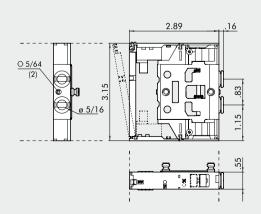
Symbol		Code	Manual control	Weight [lb]
14		7068030532	monostable	0.260
14	x++			
14/4		7068030632	monostable	0.260
W4	x++			
	82/84	7068030732	monostable	0.260
L4				
1/4	82/84 2 4	7068030132	monostable	0.220
V4	14 [24] 11 [4] [4] [4] [4] [4] [4] [4] [4] [4] [4]			
	82/84 2 4	7068030112	monostable	0.251
K4				
	x 1 3/5 L11			
	82/84 2 4 W	7068030212	monostable	0.253
04				
	x 1 3/5 11			

1 VALVE DIMENSIONS Ø 1/4

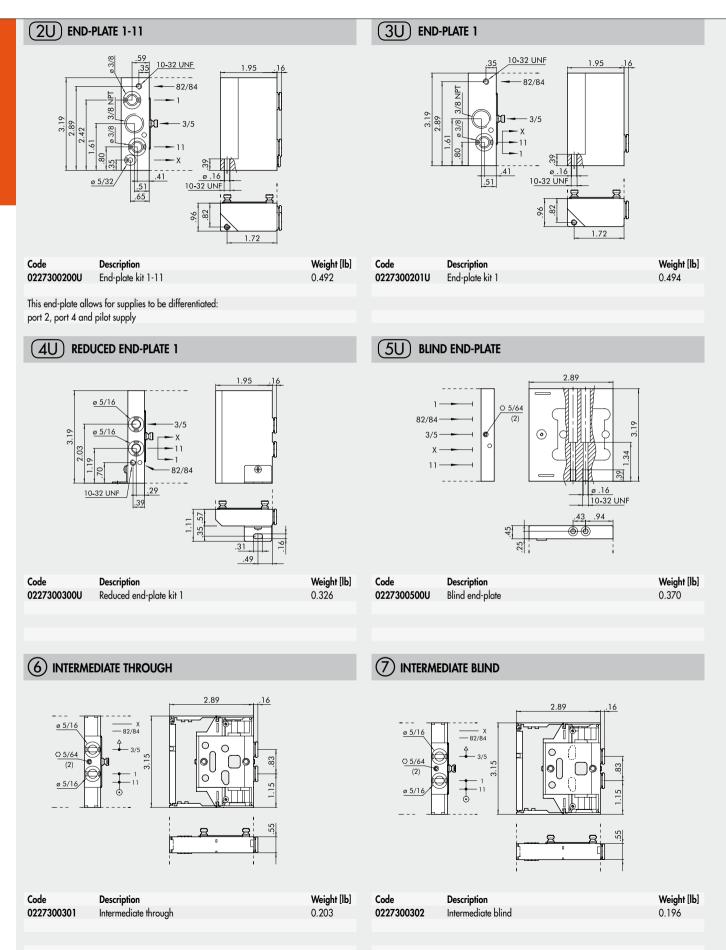


Symbol		Code	Manual control	Weight [lb]
16U		7069030532U	monostable	0.243
W6U		7069030632U	monostable	0.243
L6U	$\begin{array}{c c} 82/84 & 2 & 4 \\ 12 & 7 & 7 & 7 \\ x & & 1 & - & - & - & - \\ x & - & - & 3/5 & - & - & 1 \\ \end{array}$	7069030732U	monostable	0.243
V6U	82/84 2 4 14 2 4 x 1 J 3/5 1	7069030132U	monostable	0.200
K6U	82/84 14 12 11 X 1 5 3/5 11	7069030112U	monostable	0.236
O6U		7069030212U	monostable	0.238

1 VALVE DIMENSIONS Ø 5/16



Symbol		Code	Manual control	Weight [lb]
18		7070030532	monostable	0.273
W8		7070030632	monostable	0.273
L8		7070030732	monostable	0.273
V8	82/84 2 4 14 22 4 x 1 3/5 11	7070030132	monostable	0.232
K8	82/84 14 2 x +	7070030112	monostable	0.265
08	82/84 14 [2] +	7070030212	monostable	0.267

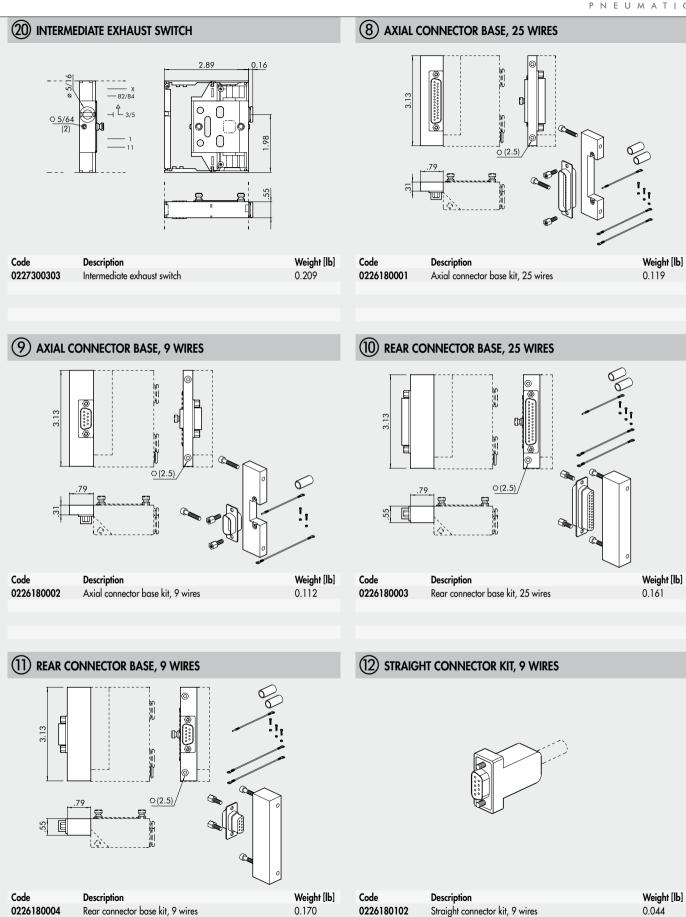


VALVES



VALVES

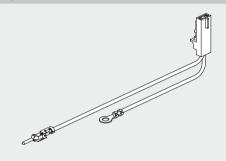
MULTIMACH



(14) STRAIGHT AND 90° CONNECTOR KIT, 25 WIRES

Code Description 0226180101 Straight and 90° connector kit, 25 wires

(17) (18) (19) CONNECTOR KIT + WIRE



Code	Description	Weight [lb]
0226180399	Connector kit + wire 1-6*	0.007
0226180400	Connector kit + wire 7-12**	0.009
0226180401	Connector kit + wire13-30***	0.011

*

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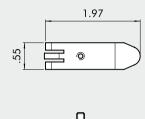
For valve connection from 1st to 6th position counting from the connector For valve connection from 7th to 12th position, counting from the connector For valve connection from 13th to 30th position, counting from the connector ***

CABLES



Cod.	Description	Weight [lb]
0226107201	10-wire cable	0.190
0226107101	19-wire cable	0.269
0226107102	25-wire cable	0.287
Specify the number	of metres desired	

(16) CONNECTION BRACKETS ON THE BAR OMEGA (DIN EN 50022)





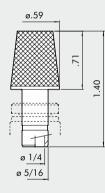
Code	Description	Weight [lb]
0227300600	Connection brackets on din bar	0.017

Individually packed

Weight [lb]

0.106

SILENCER FOR FITTING, Ø 5/16



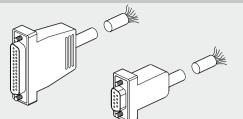
Code	Description	Weight [lb]
W0970530084	Silencer for fitting, Ø 5/16	0.033

At the 3/5-exhaust port of the reduced end-plate 1 ref. 4 and of the intermediate through of the exhaust switch ref. 20

NOTES

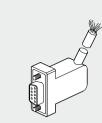


STRAIGHT PRE-WIRED CONNECTOR KIT



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PRE-WIRED 90° CONNECTOR

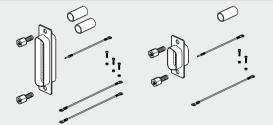


0226900250 Straight D-Sub 9-PIN connector + cable L = 99 inch 0.37 0226910250 90° D-Sub 9-PIN connector + cable L = 99 inch 0.37).17).37).70
) 70
0226900500 Straight D-Sub 9-PIN connector + cable L = 197 inch 0.70 0226910500 90° D-Sub 9-PIN connector + cable L = 197 inch 0.70	
0226900750 Straight D-Sub 9-PIN connector + cable L = 295 inch 1.03 0226910750 90° D-Sub 9-PIN connector + cable L = 295 inch 1	.03
0226901000 Straight D-Sub 9-PIN connector + cable L = 394 inch 1.36 0226911000 90° D-Sub 9-PIN connector + cable L = 394 inch 1	.36
0226901500 Straight D-Sub 9-PIN connector + cable L = 590 inch 2.02 0226911500 90° D-Sub 9-PIN connector + cable L = 590 inch 2	2.02
0226902000 Straight D-Sub 9-PIN connector + cable L = 788 inch 2.70	
0226905000 Straight D-Sub 9-PIN connector + cable L = 1968 inch 6.65 0226930100 90° D-Sub 25-PIN connector + cable L = 35 inch 00).30
0226930250 90° D-Sub 25-PIN connector + cable L = 99 inch).70
0226920100 Straight D-Sub 25-PIN connector + cable L = 35 inch 0.30 0226930500 90° D-Sub 25-PIN connector + cable L = 197 inch 1	.40
0226920250 Straight D-Sub 25-PIN connector + cable L = 99 inch 0.70	
0226920500 Straight D-Sub 25-PIN connector + cable L = 197 inch 1.40	

WIRING DIAGRAM FOR PRE-WIRED PLUG CONNECTORS

25 PIN				9 PIN			
Position of electrical contact	Colour of the corresponding wire	Position of electrical contact	Colour of the corresponding wire	Position of electrical contact	Colour of the corresponding wire	Position of electrical contact	Colour of the corresponding wire
1	blue/black	10	brown/white	19	yellow/black	1	green/black
2	red/brown	11	red/orange	20	white	2	white
3	white/black	12	light blue	21	blue/white	3	blue/black
4	red/blue	13	yellow/white	22	brown	4	blue
5	black/orange	14	yellow	23	green/white	5	yellow/black
6	yellow/red	15	red/green	24	red	6	yellow
7	black/brown	16	orange	25	green/black	7	red/black
8	white/red	17	orange/white		-	8	green
9	red/black	18	green			9	white/black

MALE CONNECTOR KIT + CONTACTS + COMMON TERMINAL



Code	Description
0226180201	Male connector kit - 25 pins
0226180202	Male connector kit - 9 pins

GRUB SCREW

IDENTIFICATION PLATE KIT



Code Description 0226107000 Identification plate kit Comes in 16-pc. packs

R17 - PIPE RELEASE SPANNER

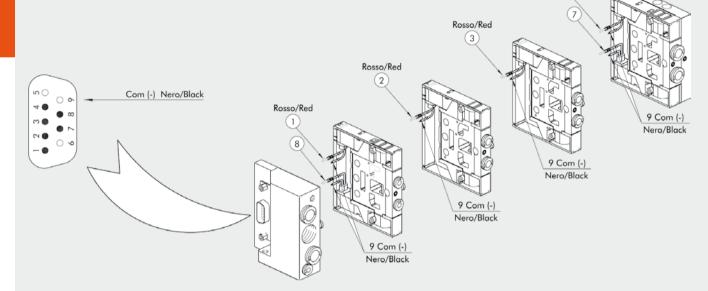
Lenght = 5.51 in

Code	Description	Code	Description	Ø Tube
0227300800	Grub screw for Multimach	2L17001	RL17	from Ø 1/8 to Ø 3/8
Comes in 10-pc.	pack			

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WIRING DIAGRAM OF THE 9-PIN CONNECTOR

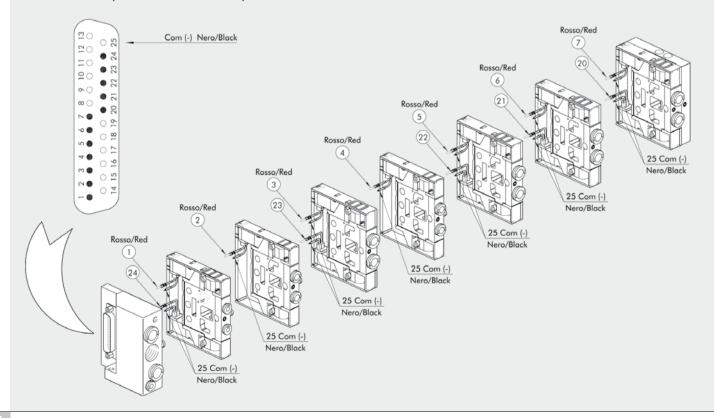
Note: available with positive common wire on request.



Rosso/Red

WIRING DIAGRAM OF THE 25-PIN CONNECTOR

Note: available with positive common wire on request.



MULTIMACH + B&R



An advanced field bus system interfacing with the Multimach world. B&R has developed a new standard for automation, called FORMULA X. For further details about features, functions and qualities of this system, referance must be made to the B&R documentation, also available on the web site www.br-automation.com

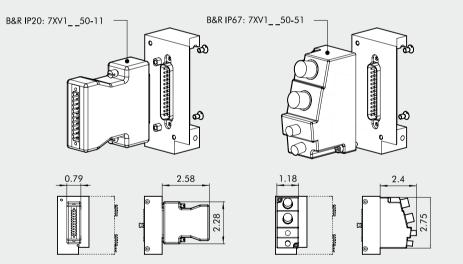
Refer to page 1-190 for details of IP20 and IP67 intelligent connectors and X67 modules.

B&R smart connectors can be connected to Multimach islands using the Multimach connector support for B&R presented below.

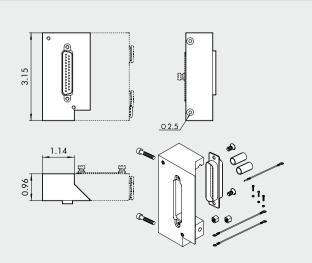


APPLICATIONS OF B&R MODULES TO THE MULTIMACH CONNECTOR SUPPORT

Refer to page 1-199 for valves, intermediates elements and common accessories.



MULTIMACH CONNECTOR SUPPORT FOR B&R



Code	Description	Weight [lb]
0226180005	25-pin connector support kit for B&R	0.308