

**Multipole or individually wired for installation flexibility**

**Compact and lightweight**

**Quick disconnect base (Pneumapole)**

**High flow from a (15 mm) valve width**

**Flexible design concept**

**Integral push in fittings**



**Technical data**

**Medium:**

Compressed air, filtered to 40 µm, lubricated or non-lubricated

**Operation:**

Spool valve indirectly actuated

**Port sizes:**

Ø 1/4", 5/16" and 3/8" (6 mm, 8 mm and 10 mm) push-in fittings

**Tube types:**

Nylon 11 or 12, polyurethane\* and other plasticized or unplasticised tubing conforming to the tolerances specified in DIN 73378. NFE 49-101. ISO/WD 16026

**Operating pressure:**

116 psig (8 bar) max.

**Ambient temperature:**

23°F to 122°F (-5°C to 50°C)  
 Air supply must be dry enough to avoid ice formation at temperatures below 36°F (2°C).

**Flow:**

Function	Cv	l/min
5/2	1.01	1.000
2 x 3/2	0.97	965
5/3	0.91	900

**Degree of protection:**

Individually wired	IP40
Multipole	IP65
Fieldbus	IP65

**Materials**

Body, end plates: engineered PPA co-polymer  
 Spool: aluminum  
 Seals: NBR

**UL/CSA approval**

Recognized to UL 429 - 5th edition & CSA 22.2 No.139 - 1982 for Electrically Operated Valves.

**Options selector**

**VM15★ ★ ★ ★ AB★13B**

Tube size	Substitute
1/4" PIF	1
5/16" PIF	5
3/8" PIF	2
6 mm PIF	6
8 mm PIF	8
10 mm PIF	Y
No PIF (for Pneumapole)	7
Valve function	Substitute
5/2	5
5/3 APB	6
2 x 3/2 NC and 5/3 COE	A
2 x 3/2 NO and 5/3 COP	B
2 x 3/2 NC and NO	C

Manual override	Substitute
Push and turn to lock	2
Push only	3
Actuation/pilot supply	Substitute
Solenoid/solenoid (internal pilot)	11
Solenoid/spring (internal pilot)	17
Solenoid/solenoid (external pilot)	22
Solenoid/spring (external pilot)	27

Note:  
 5/3 COE please use 2 x 3/2 NC  
 5/3 COP please use 2 x 3/2 NO  
 NC = Normally Closed  
 NO = Normally Open  
 APB = All Ports Blocked  
 COE = Center Open Exhaust  
 COP = Center Open Pressure  
 Use our configurator at [www.norgren.com/usa](http://www.norgren.com/usa)

**2 x 3/2 Double solenoid actuated valves**

Symbol	Model	Actuation	Function	Pilot supply	Manual override	Operating pressure psig (bar)	Pilot pressure psig (bar)	oz. (kg)
	VM15*A11AB213B	Sol/spring	NC	Internal	Push and turn to lock	43.5 to 116 (3 to 8)	–	3.49 (0.099)
	VM15*A11AB313B	Sol/spring	NC	Internal	Push only	43.5 to 116 (3 to 8)	–	3.49 (0.099)
	VM15*A22AB213B	Sol/spring	NC	External	Push and turn to lock	29" Hg to 116 (-0.9 to 8)	43.5 to 116 (3 to 8)	3.49 (0.099)
	VM15*A22AB313B	Sol/spring	NC	External	Push only	29" Hg to 116 (-0.9 to 8)	43.5 to 116 (3 to 8)	3.49 (0.099)
	VM15*B11AB213B	Sol/spring	NO	Internal	Push and turn to lock	43.5 to 116 (3 to 8)	–	3.63 (0.103)
	VM15*B11AB313B	Sol/spring	NO	Internal	Push only	43.5 to 116 (3 to 8)	–	3.63 (0.103)
	VM15*B22AB213B	Sol/spring	NO	External	Push and turn to lock	29" Hg to 116 (-0.9 to 8)	43.5 to 116 (3 to 8)	3.63 (0.103)
	VM15*B22AB313B	Sol/spring	NO	External	Push only	29" Hg to 116 (-0.9 to 8)	43.5 to 116 (3 to 8)	3.63 (0.103)
	VM15*C11AB213B	Sol/spring	NC/NO	Internal	Push and turn to lock	43.5 to 116 (3 to 8)	–	3.56 (0.101)
	VM15*C11AB313B	Sol/spring	NC/NO	Internal	Push only	43.5 to 116 (3 to 8)	–	3.56 (0.101)
	VM15*C22AB213B	Sol/spring	NC/NO	External	Push and turn to lock	29" Hg to 116 (-0.9 to 8)	43.5 to 116 (3 to 8)	3.56 (0.101)
	VM15*C22AB313B	Sol/spring	NC/NO	External	Push only	29" Hg to 116 (-0.9 to 8)	43.5 to 116 (3 to 8)	3.56 (0.101)

**5/2 Single and double solenoid actuated valves**

Symbol	Model	Actuation	Function	Pilot supply	Manual override	Operating pressure psig (bar)	Pilot pressure psig (bar)	oz. (kg)
	VM15*517AB213B	Sol/spring	5/2	Internal	Push and turn to lock	43.5 to 116 (3 to 8)	–	3.03 (0.086)
	VM15*517AB313B	Sol/spring	5/2	Internal	Push only	43.5 to 116 (3 to 8)	–	3.03 (0.086)
	VM15*527AB213B	Sol/spring	5/2	External	Push and turn to lock	29" Hg to 116 (-0.9 to 8)	43.5 to 116 (3 to 8)	3.03 (0.086)
	VM15*527AB313B	Sol/spring	5/2	External	Push only	29" Hg to 116 (-0.9 to 8)	43.5 to 116 (3 to 8)	3.03 (0.086)
	VM15*511AB213B	Sol/sol	5/2	Internal	Push and turn to lock	43.5 to 116 (3 to 8)	–	3.42 (0.097)
	VM15*511AB313B	Sol/sol	5/2	Internal	Push only	43.5 to 116 (3 to 8)	–	3.42 (0.097)
	VM15*522AB213B	Sol/sol	5/2	External	Push and turn to lock	29" Hg to 116 (-0.9 to 8)	29.0 to 116 (2 to 8)	3.42 (0.097)
	VM15*522AB313B	Sol/sol	5/2	External	Push only	29" Hg to 116 (-0.9 to 8)	29.0 to 116 (2 to 8)	3.42 (0.097)

**5/2 Double solenoid actuated valves**

Symbol	Model	Actuation	Function	Pilot supply	Manual override	Operating pressure psig (bar)	Pilot pressure psig (bar)	oz. (kg)
	VM15*611AB213B	Sol/sol	5/3 APB	Internal	Push and turn to lock	43.5 to 116 (3 to 8)	–	3.30 (0.105)
	VM15*611AB313B	Sol/sol	5/3 APB	Internal	Push only	43.5 to 116 (3 to 8)	–	3.30 (0.105)
	VM15*622AB213B	Sol/sol	5/3 APB	External	Push and turn to lock	29" Hg to 116 (-0.9 to 8)	43.5 to 116 (3 to 8)	3.30 (0.105)
	VM15*622AB313B	Sol/sol	5/3 APB	External	Push only	29" Hg to 116 (-0.9 to 8)	43.5 to 116 (3 to 8)	3.30 (0.105)

\* For tube size reference Option Selector

NC = Normally Closed, NO = Normally Open, APB = All Ports Blocked

Note:

5/3 COE please use 2 x 3/2 NC

5/3 COP please use 2 x 3/2 NO

Use our configurator at [www.norgren.com/usa](http://www.norgren.com/usa)

**Electrical details**

Tube size	Substitute
1/4" PIF	1
5/16" PIF	5
3/8" PIF	2
6 mm PIF	6
8 mm PIF	8
10 mm PIF	Y
No PIF (for Pneumapole)	7

**Electrical details**

Voltage:	24 VDC 1.2 W
Surge suppression:	Flywheel diode
Indication:	Yellow LED

**Solenoids**




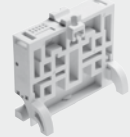

Voltage tolerance:	± 10%
Rating:	100% ED


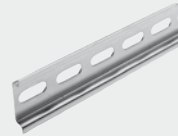


**Replacement solenoid pilot valves**



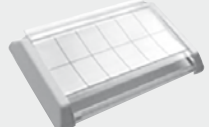
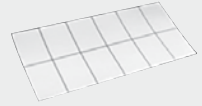
Voltage	MO type	Pin orientation	Version	Part number
24	Push only	Up	Pinch plug	V11997-E01
24	Turn & lock	Up	Pinch plug	V11997-E02
24	Push only	Down	Multipole & fieldbus	V11995-E01
24	Turn & lock	Down	Multipole & fieldbus	V11995-E02
12	Push only	Up	Pinch plug	V11998-E01
12	Turn & lock	Up	Pinch plug	V11998-E02
12	Push only	Down	Multipole	V11996-E01
12	Turn & lock	Down	Multipole	V11996-E02

Valve blanking station	Short code	Port blanking station	Short code	oz. (kg)
VM156517AQ0300	B000	VM156517AQ0301	Port 1 blanked	B100 .098 (0.028)
		VM156517AQ0302	Ports 3 & 5 blanked	B300 .098 (0.028)
		VM156517AQ0303	Ports 1, 3 & 5 blanked	B500 .098 (0.028)

**Accessories**

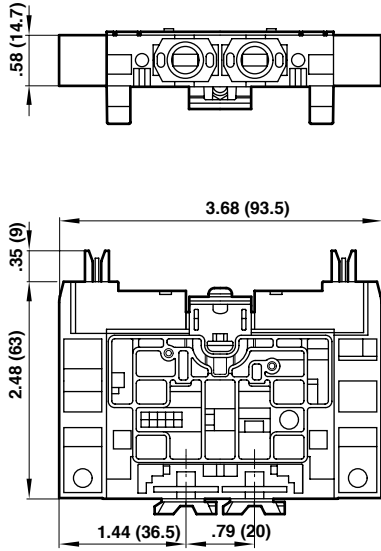
D Sub-connector 25 pin IP65, NEMA 4	D Sub-connector 44 pin IP65, NEMA 4	2 Pin connector IP40, NEMA 4	Valve blanking station	Port blanking station
				
V11569-E01 3 ft (1m) L1	V11570-E01 3 ft (1m) M1	V11556-E03 1 ft (0.3m) K2	VM156517AQ0300 B000	VM156517AQ0301 Port 1 blanked B100
V11569-E03 10 ft (3m) L2	V11570-E03 10 ft (3m) M2	V11556-E10 3 ft (1m) K1		VM156517AQ0302 Ports 3 & 5 blanked B300
V11569-E05 16 ft (5m) L3	V11570-E05 16 ft (5m) M3			VM156517AQ0303 Ports 1, 3 & 5 blanked B500

Pressure switch	DIN Rail	DIN Rail fixing kit	ISEM
			
VM106517AQ0801 1/4"	V10009-C00 3 ft (1m) A17	V12022-K30 8E	VM156517AQ0307 5/16" ISEM Feed right RMDO
VM106517AQ0806 6 mm 7B		V11900-C01 8D	VM156517AQ0308 5/16" ISEM Feed left LMDO
			VM156517AQ0309 5/16" ISEM Feed right&left FMDO
			VM156517AQ0304 8mm Feed right RM80
			VM156517AQ0305 8mm Feed left LM80
			VM156517AQ0306 8mm Feed right & left FM80

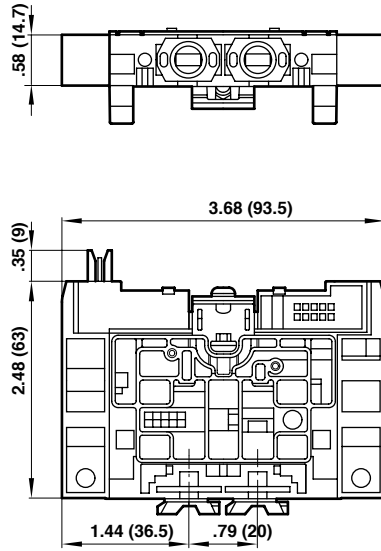
D Sub-connector 25 pin 90° Right handed	D Sub-connector 44 pin 90° Left handed	Label cover kit	Labels
			
V12086-E01 3 ft (1m) L4	V12088-E01 3 ft (1m) M4	V12016-K30 4 Station G1	V12033-L01 Write and seal label J1
V12086-E03 10 ft (3m) L5	V12088-E03 10 ft (3m) M5	V12016-K31 6 Station G2	V12034-L01 Paper label J5
V12086-E05 16 ft (5m) L6	V12088-E05 16 ft (5m) M6	V12016-K32 8 Station G3	
		V12016-K33 10 Station G4	
		V12016-K34 12 Station G5	
		V12016-K35 16 Station G6	

NOTE: Use Pneufit C composite plugs where needed. Do not use nickel plated brass plugs.

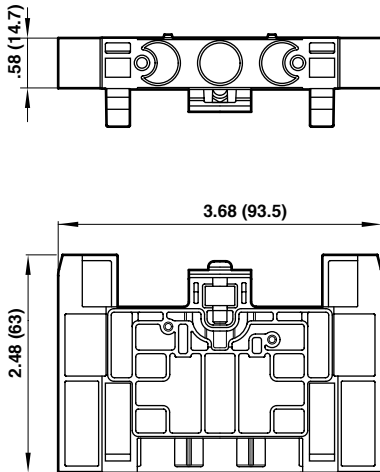
**Double solenoid**



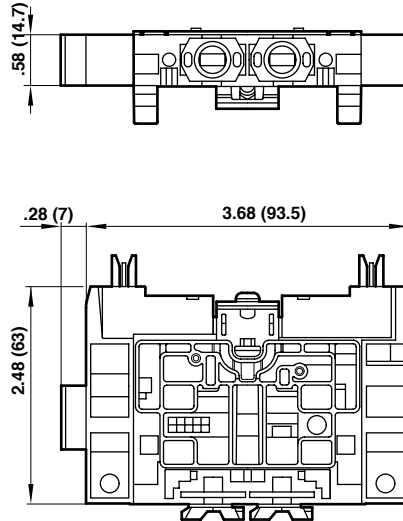
**Single solenoid**



**Blanking plates**



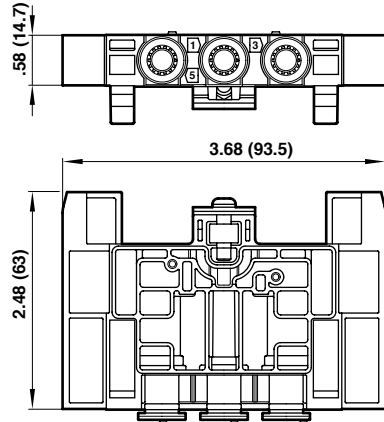
**5/3 APB  
Double solenoid**



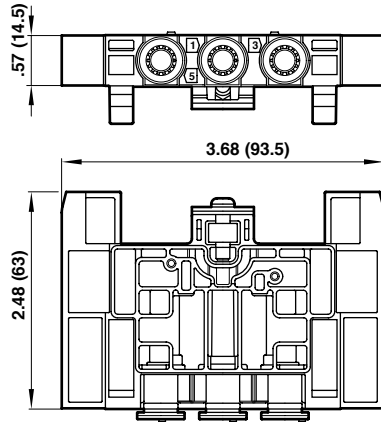
Dimensions in inches (mm)

ISEM (Intermediate Supply Exhaust Manifold)

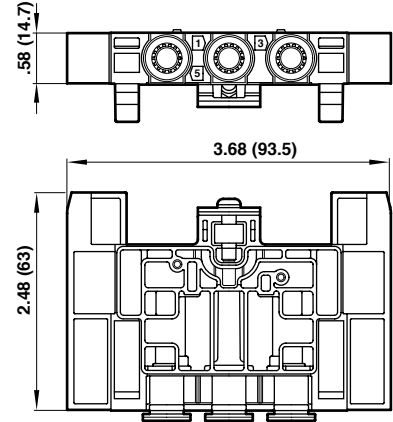
VM156517AQ0304



VM156517AQ0305

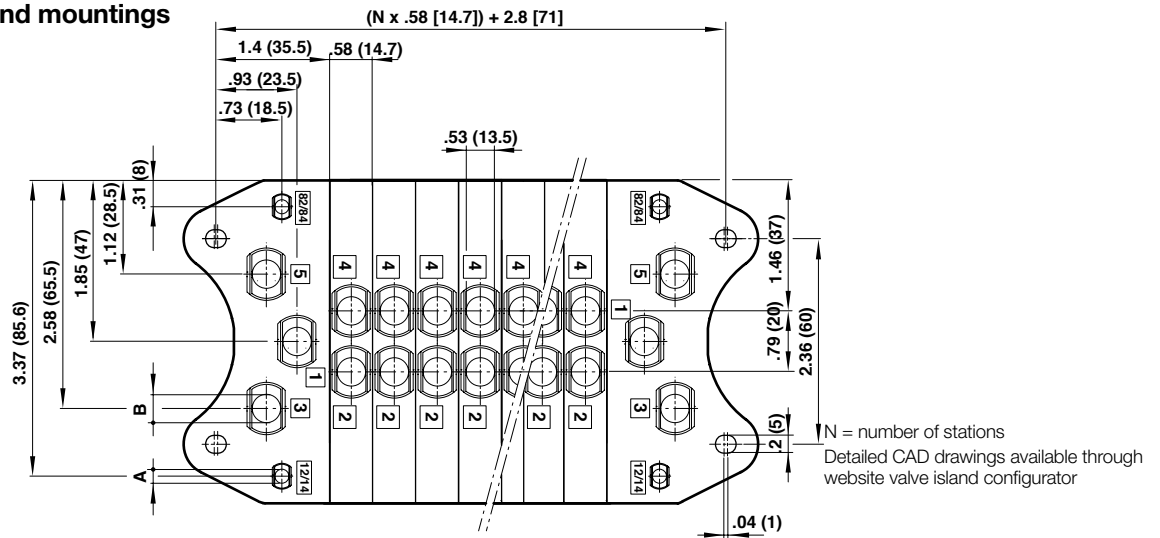


VM156517AQ0306



ISEM (5/16")		Short code	ISEM (8 mm)		Short code
VM156517AQ0307	Feed right	RMD0	VM156517AQ0304	Feed right	RM80
VM156517AQ0308	Feed left	LMD0	VM156517AQ0305	Feed left	LM80
VM156517AQ0309	Feed right & left	FMD0	VM156517AQ0306	Feed right & left	FM80

Port connections and mountings



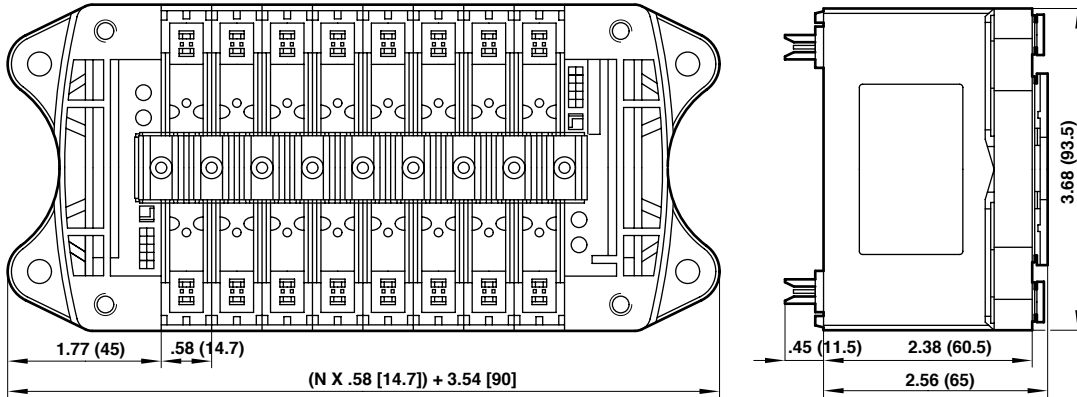
Model	Description	B Ports 1, 3 & 5	A Ports 12/14 & 82/84	C Ports 2 & 4	Short code	lb. (kg)
VM156517AQ020V	End plate kit - feed both ends	1/2"	1/4"	1/4", 5/16" or 3/8"	FF00	1.4 (0.628)
VM156517AQ020Z	End plate kit - feed both ends	3/8"	1/4"	1/4", 5/16" or 3/8"	FE00	1.4 (0.628)
VM156517AQ021V	End plate kit - right blocked	1/2"	1/4"	1/4", 5/16" or 3/8"	LF00	1.4 (0.628)
VM156517AQ021Z	End plate kit - right blocked	3/8"	1/4"	1/4", 5/16" or 3/8"	LE00	1.4 (0.628)
VM156517AQ022V	End plate kit - left blocked	1/2"	1/4"	1/4", 5/16" or 3/8"	RF00	1.4 (0.628)
VM156517AQ022Z	End plate kit - left blocked	3/8"	1/4"	1/4", 5/16" or 3/8"	RE00	1.4 (0.628)
VM156517AQ010Z	End plate kit - feed both ends	12 mm	6 mm	6 mm, 8 mm or 10 mm	F200	0.6 (0.285)
VM156517AQ010Y	End plate kit - feed both ends	10 mm	6 mm	6 mm, 8 mm or 10 mm	F100	0.6 (0.285)
VM156517AQ011Z	End plate kit - right blocked	12 mm	6 mm	6 mm, 8 mm or 10 mm	L200	0.6 (0.285)
VM156517AQ011Y	End plate kit - right blocked	10 mm	6 mm	6 mm, 8 mm or 10 mm	L100	0.6 (0.285)
VM156517AQ012Z	End plate kit - left blocked	12 mm	6 mm	6 mm, 8 mm or 10 mm	R200	0.6 (0.285)
VM156517AQ012Y	End plate kit - left blocked	10 mm	6 mm	6 mm, 8 mm or 10 mm	R100	0.6 (0.285)
VM156517AQ0134	End plate kit - feed both ends - Pneumapole	no PIF	no PIF	3/8" or 10 mm	FP00	0.6 (0.285)
VM156517AQ0135	End plate kit - left blocked - Pneumapole	no PIF	no PIF	3/8" or 10 mm	RP00	0.6 (0.285)
VM156517AQ0136	End plate kit - right blocked - Pneumapole	no PIF	no PIF	3/8" or 10 mm	LP00	0.6 (0.285)

Note: Under no circumstances should port 82/84 be plugged. A filter/silencer can be fitted or the port can be piped away.

Dimensions in inches (mm)

Modular assembly

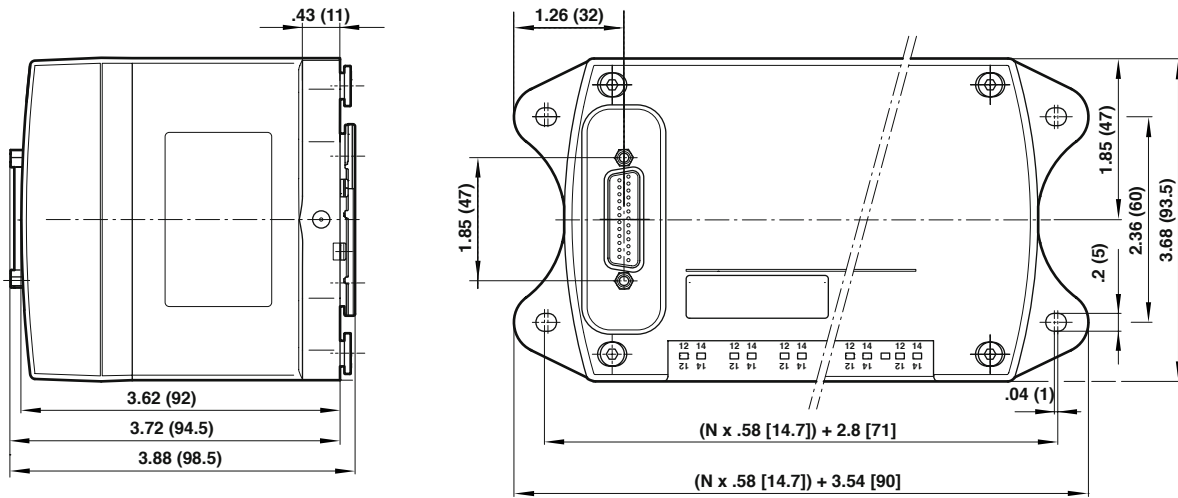
Individually wired IP40



Individually wired	No. of stations	Max. no. coils	Lb. (kg)*
2 Pin connector	2 to 20	40	.628 (0.285)

\* Lb (kg) + valves weight

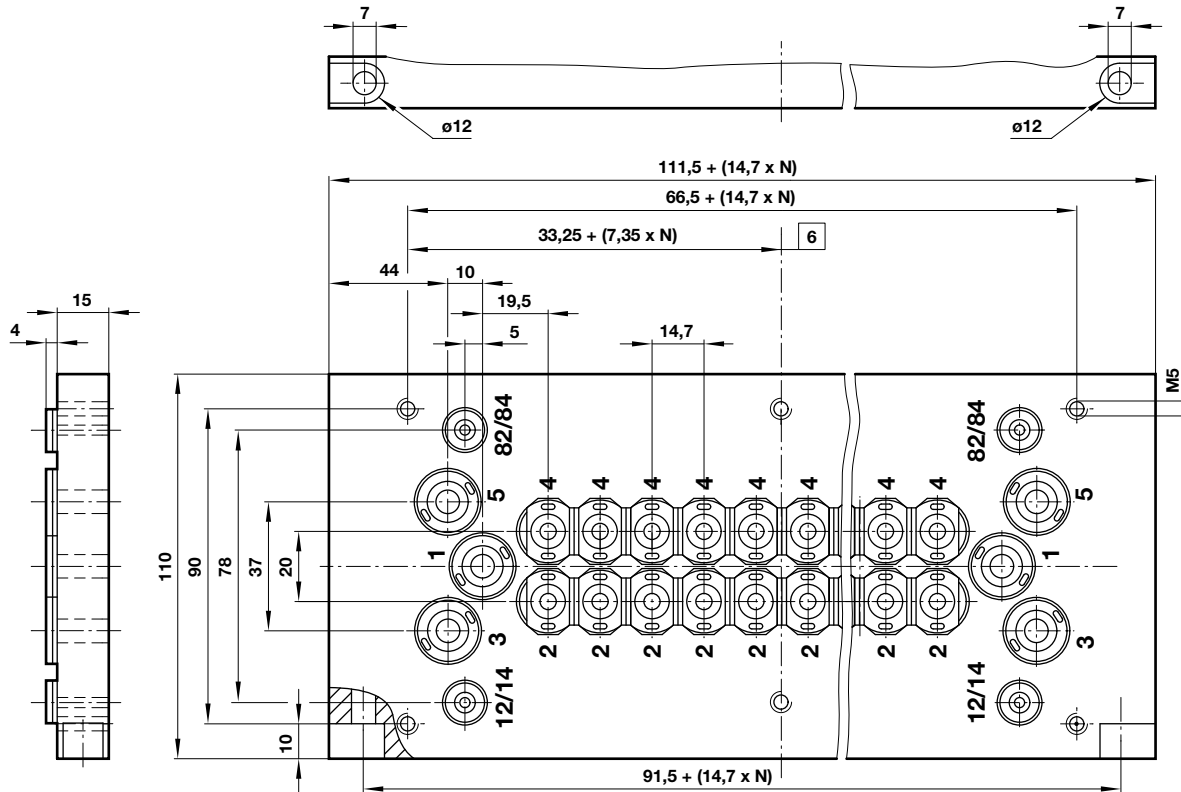
Multipole IP65



Multipole	No. of stations	model -ve common	Short code	Model +vd common	Short code	Max. no. coils	lb. (kg)
25 Pin connector	4	VM156517AQ0404	2N04	VM156517RQ0404	2P04	8	1.03 (0.467)
25 Pin connector	6	VM156517AQ0406	2N06	VM156517RQ0406	2P06	12	1.11 (0.505)
25 Pin connector	8	VM156517AQ0408	2N08	VM156517RQ0408	2P08	16	1.19 (0.540)
25 Pin connector	10	VM156517AQ0410	2N10	VM156517RQ0410	2P10	20	1.27 (0.575)
25 Pin connector	12	VM156517AQ0412	2N12	VM156517RQ0412	2P12	24	1.37 (0.623)
44 Pin connector	10	VM156517AQ0510	4N10	VM156517RQ0510	4P10	20	1.27 (0.575)
44 Pin connector	12	VM156517AQ0512	4N12	VM156517RQ0512	4P12	24	1.37 (0.623)
44 Pin connector	16	VM156517AQ0516	4N16	VM156517RQ0516	4P16	32	1.56 (0.706)

Dimensions in inches (mm)

Pneumapole sub-base

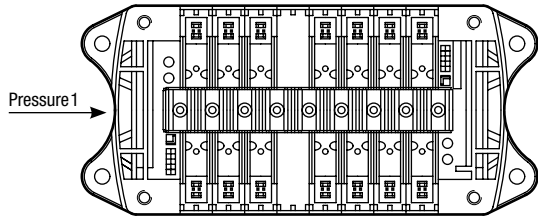


Model	Description	A Ports 1, 3 & 5	B Ports 12/14 & 82/84	C Ports 2 & 4	Exhaust type	Short code
VM156517AQ2604	4 station Pneumapole	1/2"	1/4"	3/8"	Standard	EB04
VM156517AQ2606	6 station Pneumapole	1/2"	1/4"	3/8"	Standard	EB06
VM156517AQ2608	8 station Pneumapole	1/2"	1/4"	3/8"	Standard	EB08
VM156517AQ2610	10 station Pneumapole	1/2"	1/4"	3/8"	Standard	EB10
VM156517AQ2612	12 station Pneumapole	1/2"	1/4"	3/8"	Standard	EB12
VM156517AQ2616	16 station Pneumapole	1/2"	1/4"	3/8"	Standard	EB16
VM156517AQY604	4 station Pneumapole	12 mm	6 mm	10 mm	Standard	1B04
VM156517AQY606	6 station Pneumapole	12 mm	6 mm	10 mm	Standard	1B06
VM156517AQY608	8 station Pneumapole	12 mm	6 mm	10 mm	Standard	1B08
VM156517AQY610	10 station Pneumapole	12 mm	6 mm	10 mm	Standard	1B10
VM156517AQY612	12 station Pneumapole	12 mm	6 mm	10 mm	Standard	1B12
VM156517AQY616	16 station Pneumapole	12 mm	6 mm	10 mm	Standard	1B16

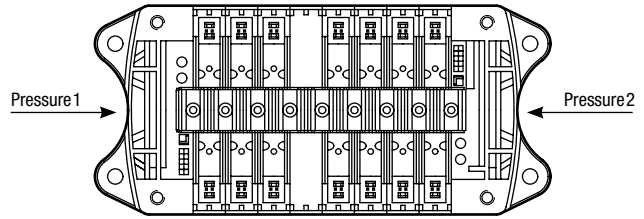
Dimensions in inches (mm)

Multi-pressure options

Single pressure

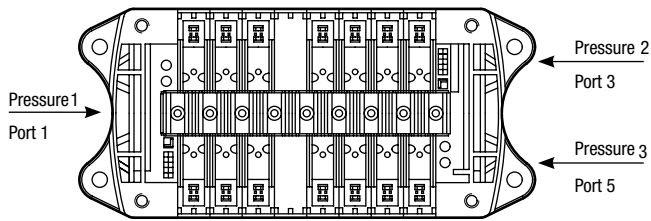


Dual pressure



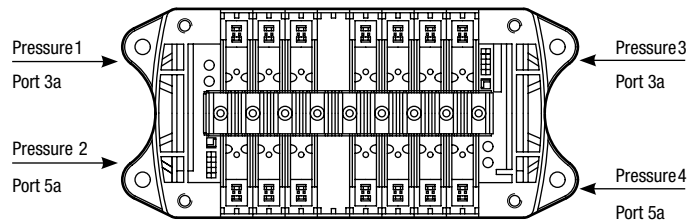
Blanking slice  
 Gallery 1  
 VM156517AQ0301

Three pressure



Blanking slice  
 Galleries 1, 3 and 5  
 VM156517AQ0303

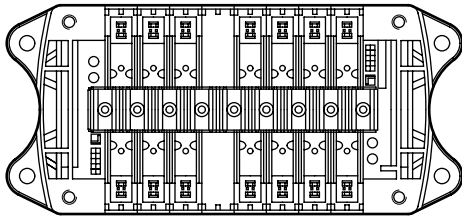
Four pressure



Blanking slice  
 Galleries 3 and 5  
 VM156517AQ0302

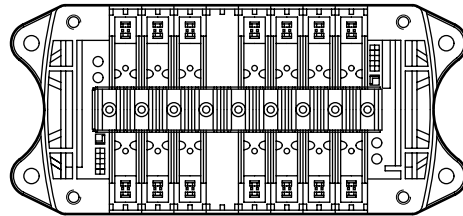
Multi-pressure options – Intermediate Supply Exhaust Manifolds

Feed right



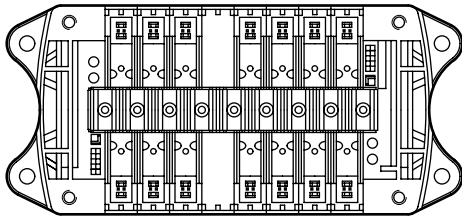
ISEM  
 VM156517AQ0304

Feed left



ISEM  
 VM156517AQ0305

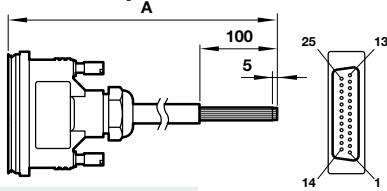
Three pressure



ISEM  
 VM156517AQ0306



**D sub-connector 25 pin (IP65)**

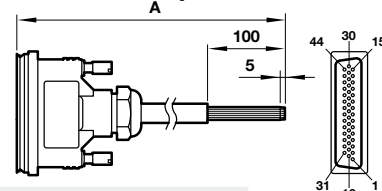


A	Model
1 m	V11569-E01
3 m	V11569-E03
5 m	V11569-E05

Pin no.	Wire colour	Socket	Pilot	Station
1	White	Solenoid 1-a	14	1
2	Brown	Solenoid 2-a	14	2
3	Green	Solenoid 3-a	14	3
4	Yellow	Solenoid 4-a	14	4
5	Grey	Solenoid 5-a	14	5
6	Pink	Solenoid 6-a	14	6
7	Blue	Solenoid 7-a	14	7
8	Red	Solenoid 8-a	14	8
9	Black	Solenoid 9-a	14	9
10	Violet	Solenoid 10-a	14	10
11	Grey/Pink	Solenoid 11-a	14	11
12	Red/Blue	Solenoid 12-a	14	12
13	White/Green	Common-Ve		-
14	Brown/Green	Solenoid 1-b	12	1
15	White/Yellow	Solenoid 2-b	12	2
16	Yellow/Brown	Solenoid 3-b	12	3
17	White/Grey	Solenoid 4-b	12	4
18	Grey/Brown	Solenoid 5-b	12	5
19	White/Pink	Solenoid 6-b	12	6
20	Pink/Brown	Solenoid 7-b	12	7
21	White/Blue	Solenoid 8-b	12	8
22	Brown/Blue	Solenoid 9-b	12	9
23	White/Red	Solenoid 10-b	12	10
24	Brown/Red	Solenoid 11-b	12	11
25	White/Black	Solenoid 12-b	12	12

Note: Conforms to DIN 47100

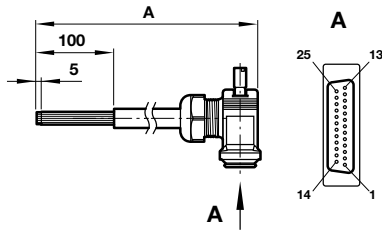
**D Sub-connector 44 pin (IP65)**



A	Model
1 m	V11570-E01
3 m	V11570-E03
5 m	V11570-E05

Pin no.	Wire colour	Socket	Pilot	Station
1	White	Solenoid 1-a	14	1
2	Brown	Solenoid 2-a	14	2
3	Green	Solenoid 3-a	14	3
4	Yellow	Solenoid 4-a	14	4
5	Grey	Solenoid 5-a	14	5
6	Pink	Solenoid 6-a	14	6
7	Blue	Solenoid 7-a	14	7
8	Red	Solenoid 8-a	14	8
9	Black	Solenoid 9-a	14	9
10	Violet	Solenoid 10-a	14	10
11	Grey/Pink	Solenoid 11-a	14	11
12	Red/Blue	Solenoid 12-a	14	12
13	White/Green	Solenoid 13-a	14	13
14	Brown/Green	Solenoid 14-a	14	14
15	White/Yellow	Solenoid 15-a	14	15
16	Yellow/Brown	Solenoid 1-b	12	1
17	White/Grey	Solenoid 2-b	12	2
18	Grey/Brown	Solenoid 3-b	12	3
19	White/Pink	Solenoid 4-b	12	4
20	Pink/Brown	Solenoid 5-b	12	5
21	White/Blue	Solenoid 6-b	12	6
22	Brown/Blue	Solenoid 7-b	12	7
23	White/Red	Solenoid 8-b	12	8
24	Brown/Red	Solenoid 9-b	12	9
25	White/Black	Solenoid 10-b	12	10
26	Brown/Black	Solenoid 11-b	12	11
27	Grey/Green	Solenoid 12-b	12	12
28	Yellow/Grey	Solenoid 13-b	12	13
29	Pink/Green	Solenoid 14-b	12	14
30	Yellow/Pink	Solenoid 15-b	12	15
31	Green/Blue	Solenoid 16-a	14	16
32	Yellow/Blue	Solenoid 16-b	12	16
33	—	Not used	—	—
34	—	Not used	—	—
35	—	Not used	—	—
36	—	Not used	—	—
37	—	Not used	—	—
38	—	Not used	—	—
39	—	Not used	—	—
40	—	Not used	—	—
41	—	Not used	—	—
42	—	Not used	—	—
43	—	Not used	—	—
44	Red/Black Yellow/Black	Common -Ve	—	—

### D Sub-connector 25 pin 90° (IP65)

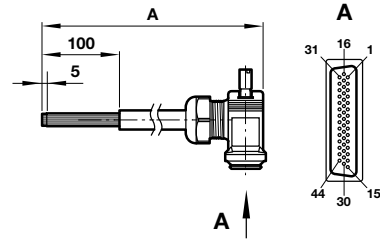


A	Model
1 m	V12086-E01
3 m	V12086-E03
5 m	V12086-E05

Pin no.	Wire colour	Socket	Pilot	Station
1	White	Solenoid 1-a	14	1
2	Brown	Solenoid 2-a	14	2
3	Green	Solenoid 3-a	14	3
4	Yellow	Solenoid 4-a	14	4
5	Grey	Solenoid 5-a	14	5
6	Pink	Solenoid 6-a	14	6
7	Blue	Solenoid 7-a	14	7
8	Red	Solenoid 8-a	14	8
9	Black	Solenoid 9-a	14	9
10	Violet	Solenoid 10-a	14	10
11	Grey/Pink	Solenoid 11-a	14	11
12	Red/Blue	Solenoid 12-a	14	12
13	White/Green	Common-Ve		-
14	Brown/Green	Solenoid 1-b	12	1
15	White/Yellow	Solenoid 2-b	12	2
16	Yellow/Brown	Solenoid 3-b	12	3
17	White/Grey	Solenoid 4-b	12	4
18	Grey/Brown	Solenoid 5-b	12	5
19	White/Pink	Solenoid 6-b	12	6
20	Pink/Brown	Solenoid 7-b	12	7
21	White/Blue	Solenoid 8-b	12	8
22	Brown/Blue	Solenoid 9-b	12	9
23	White/Red	Solenoid 10-b	12	10
24	Brown/Red	Solenoid 11-b	12	11
25	White/Black	Solenoid 12-b	12	12

Note: Conforms to DIN 47100e

### D Sub-connector 44 pin 90° (IP65)

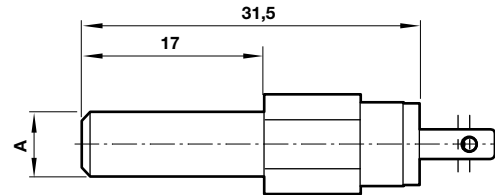


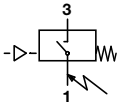
A	Model
1 m	V12088-E01
3 m	V12088-E03
5 m	V12088-E05

Pin no.	Wire colour	Socket	Pilot	Station
1	White	Solenoid 1-a	14	1
2	Brown	Solenoid 2-a	14	2
3	Green	Solenoid 3-a	14	3
4	Yellow	Solenoid 4-a	14	4
5	Grey	Solenoid 5-a	14	5
6	Pink	Solenoid 6-a	14	6
7	Blue	Solenoid 7-a	14	7
8	Red	Solenoid 8-a	14	8
9	Black	Solenoid 9-a	14	9
10	Violet	Solenoid 10-a	14	10
11	Grey/Pink	Solenoid 11-a	14	11
12	Red/Blue	Solenoid 12-a	14	12
13	White/Green	Solenoid 13-a	14	13
14	Brown/Green	Solenoid 14-a	14	14
15	White/Yellow	Solenoid 15-a	14	15
16	Yellow/Brown	Solenoid 1-b	12	1
17	White/Grey	Solenoid 2-b	12	2
18	Grey/Brown	Solenoid 3-b	12	3
19	White/Pink	Solenoid 4-b	12	4
20	Pink/Brown	Solenoid 5-b	12	5
21	White/Blue	Solenoid 6-b	12	6
22	Brown/Blue	Solenoid 7-b	12	7
23	White/Red	Solenoid 8-b	12	8
24	Brown/Red	Solenoid 9-b	12	9
25	White/Black	Solenoid 10-b	12	10
26	Brown/Black	Solenoid 11-b	12	11
27	Grey/Green	Solenoid 12-b	12	12
28	Yellow/Grey	Solenoid 13-b	12	13
29	Pink/Green	Solenoid 14-b	12	14
30	Yellow/Pink	Solenoid 15-b	12	15
31	Green/Blue	Solenoid 16-a	14	16
32	Yellow/Blue	Solenoid 16-b	12	16
33	-	Not used	-	-
34	-	Not used	-	-
35	-	Not used	-	-
36	-	Not used	-	-
37	-	Not used	-	-
38	-	Not used	-	-
39	-	Not used	-	-
40	-	Not used	-	-
41	-	Not used	-	-
42	-	Not used	-	-
43	-	Not used	-	-
44	Red/Black Yellow/Black	Common -Ve	-	-

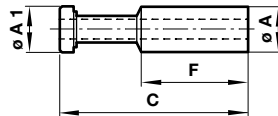
**Pressure switch for pilot ports 12 & 14**

<b>Voltage:</b>	<b>24 V d.c.</b>
Pressure range:	0 ... 10 bar
Switching point rising pressure:	3 ... 5 bar
Switch point falling pressure:	2,5 ... 3,7 bar
AMP E-terminals:	2,8 x 0,8
Degee of protection:	IP00
Adjustment:	None



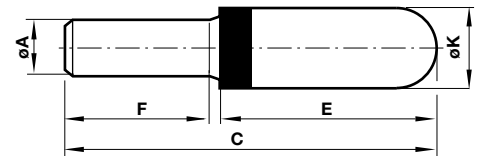
Symbol	A	Short code	Weight (kg)	Model
	6	7B	0,004	VM106517AQ0806

**Plug C0004**



Ø A	Ø A1	C	F	Model
6	6	34	18,5	C00040600
8	8	38	21	C00040800
10	10	42	24	C00041000
12	12	46	29,5	C00041200

**Silencer**



Ø A	C	E	F	Ø K	Model
6	45	24,5	17	12,5	T45P0006
8	43,5	22	19	13,5	T45P0008
10	57,5	31	23	15,5	T45P0010
12	82	53	25	18,5	T45P0012

**Short codes for valve manifold specifications**

Description	Manual override	Short code	Model
2 x 3/2 - 2 x NC - Internal feed valve 6 mm PIF	Turn & lock	NA6T	VM156A11AB213B
2 x 3/2 - 2 x NC - Internal feed valve 6 mm PIF	Push only	NA6U	VM156A11AB313B
2 x 3/2 - 2 x NC - Internal feed valve 8 mm PIF	Turn & lock	NA8T	VM158A11AB213B
2 x 3/2 - 2 x NC - Internal feed valve 8 mm PIF	Push only	NA8U	VM158A11AB313B
2 x 3/2 - 2 x NC - Internal feed valve 10 mm PIF	Turn & lock	NA1T	VM15YA11AB213B
2 x 3/2 - 2 x NC - Internal feed valve 10 mm PIF	Push only	NA1U	VM15YA11AB313B
2 x 3/2 - 2 x NC - Internal feed valve Pneumapole	Turn & lock	NAZT	VM157A11AB213B
2 x 3/2 - 2 x NC - Internal feed valve Pneumapole	Push only	NAZU	VM157A11AB313B
2 x 3/2 - 2 x NC - External feed valve 6 mm PIF	Turn & lock	ND6T	VM156A22AB213B
2 x 3/2 - 2 x NC - External feed valve 6 mm PIF	Push only	ND6U	VM156A22AB313B
2 x 3/2 - 2 x NC - External feed valve 8 mm PIF	Turn & lock	ND8T	VM158A22AB213B
2 x 3/2 - 2 x NC - External feed valve 8 mm PIF	Push only	ND8U	VM158A22AB313B
2 x 3/2 - 2 x NC - External feed valve 10 mm PIF	Turn & lock	ND1T	VM15YA22AB213B
2 x 3/2 - 2 x NC - External feed valve 10 mm PIF	Push only	ND1U	VM15YA22AB313B
2 x 3/2 - 2 x NC - External feed valve Pneumapole	Turn & lock	NDZT	VM157A22AB213B
2 x 3/2 - 2 x NC - External feed valve Pneumapole	Push only	NDZU	VM157A22AB313B
2 x 3/2 - 2 x NO - Internal feed valve 6 mm PIF	Turn & lock	NB6T	VM156B11AB213B
2 x 3/2 - 2 x NO - Internal feed valve 6 mm PIF	Push only	NB6U	VM156B11AB313B
2 x 3/2 - 2 x NO - Internal feed valve 8 mm PIF	Turn & lock	NB8T	VM158B11AB213B
2 x 3/2 - 2 x NO - Internal feed valve 8 mm PIF	Push only	NB8U	VM158B11AB313B
2 x 3/2 - 2 x NO - Internal feed valve 10 mm PIF	Turn & lock	NB1T	VM15YB11AB213B
2 x 3/2 - 2 x NO - Internal feed valve 10 mm PIF	Push only	NB1U	VM15YB11AB313B
2 x 3/2 - 2 x NO - Internal feed valve Pneumapole	Turn & lock	NBZT	VM157B11AB213B
2 x 3/2 - 2 x NO - Internal feed valve Pneumapole	Push only	NBZU	VM157B11AB313B
2 x 3/2 - 2 x NO - External feed valve 6 mm PIF	Turn & lock	NE6T	VM156B22AB213B
2 x 3/2 - 2 x NO - External feed valve 6 mm PIF	Push only	NE6U	VM156B22AB313B
2 x 3/2 - 2 x NO - External feed valve 8 mm PIF	Turn & lock	NE8T	VM158B22AB213B
2 x 3/2 - 2 x NO - External feed valve 8 mm PIF	Push only	NE8U	VM158B22AB313B
2 x 3/2 - 2 x NO - External feed valve 10 mm PIF	Turn & lock	NE1T	VM15YB22AB213B
2 x 3/2 - 2 x NO - External feed valve 10 mm PIF	Push only	NE1U	VM15YB22AB313B
2 x 3/2 - 2 x NO - External feed valve Pneumapole	Turn & lock	NEZT	VM157B22AB213B
2 x 3/2 - 2 x NO - External feed valve Pneumapole	Push only	NEZU	VM157B22AB313B

**Short codes for valve manifold specifications**

<b>Description</b>	<b>Manual override</b>	<b>Short code</b>	<b>Model</b>
2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 6 mm PIF	Turn & lock	NC6T	VM156C11AB213B
2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 6 mm PIF	Push only	NC6U	VM156C11AB313B
2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 8 mm PIF	Turn & lock	NC8T	VM158C11AB213B
2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 8 mm PIF	Push only	NC8U	VM158C11AB313B
2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 10 mm PIF	Turn & lock	NC1T	VM15YC11AB213B
2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve 10 mm PIF	Push only	NC1U	VM15YC11AB313B
2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve Pneumapole	Turn & lock	NCZT	VM157C11AB213B
2 x 3/2 - 1 x NC + 1 x NO - Internal feed valve Pneumapole	Push only	NCZU	VM157C11AB313B
2 x 3/2 - 1 x NC + 1 x NO - External feed valve 6 mm PIF	Turn & lock	NF6T	VM156C22AB213B
2 x 3/2 - 1 x NC + 1 x NO - External feed valve 6 mm PIF	Push only	NF6U	VM156C22AB313B
2 x 3/2 - 1 x NC + 1 x NO - External feed valve 8 mm PIF	Turn & lock	NF8T	VM158C22AB213B
2 x 3/2 - 1 x NC + 1 x NO - External feed valve 8 mm PIF	Push only	NF8U	VM158C22AB313B
2 x 3/2 - 1 x NC + 1 x NO - External feed valve 10 mm PIF	Turn & lock	NF1T	VM15YC22AB213B
2 x 3/2 - 1 x NC + 1 x NO - External feed valve 10 mm PIF	Push only	NF1U	VM15YC22AB313B
2 x 3/2 - 1 x NC + 1 x NO - External feed valve Pneumapole	Turn & lock	NFZT	VM157C22AB213B
2 x 3/2 - 1 x NC + 1 x NO - External feed valve Pneumapole	Push only	NFZU	VM157C22AB313B
5/2 Solenoid Spring - Internal feed valve 6 mm PIF	Turn & lock	NG6T	VM156517AB213B
5/2 Solenoid Spring - Internal feed valve 6 mm PIF	Push only	NG6U	VM156517AB313B
5/2 Solenoid Spring - Internal feed valve 8 mm PIF	Turn & lock	NG8T	VM158517AB213B
5/2 Solenoid Spring - Internal feed valve 8 mm PIF	Push only	NG8U	VM158517AB313B
5/2 Solenoid Spring - Internal feed valve 10 mm PIF	Turn & lock	NG1T	VM15Y517AB213B
5/2 Solenoid Spring - Internal feed valve 10 mm PIF	Push only	NG1U	VM15Y517AB313B
5/2 Solenoid Spring - Internal feed valve Pneumapole	Turn & lock	NGZT	VM157517AB213B
5/2 Solenoid Spring - Internal feed valve Pneumapole	Push only	NGZU	VM157517AB313B
5/2 Solenoid Spring - External feed valve 6 mm PIF	Turn & lock	NH6T	VM156527AB213B
5/2 Solenoid Spring - External feed valve 6 mm PIF	Push only	NH6U	VM156527AB313B
5/2 Solenoid Spring - External feed valve 8 mm PIF	Turn & lock	NH8T	VM158527AB213B
5/2 Solenoid Spring - External feed valve 8 mm PIF	Push only	NH8U	VM158527AB313B
5/2 Solenoid Spring - External feed valve 10 mm PIF	Turn & lock	NH1T	VM15Y527AB213B
5/2 Solenoid Spring - External feed valve 10 mm PIF	Push only	NH1U	VM15Y527AB313B
5/2 Solenoid Spring - External feed valve Pneumapole	Turn & lock	NHZT	VM157527AB213B
5/2 Solenoid Spring - External feed valve Pneumapole	Push only	NHZU	VM157527AB313B

**Short codes for valve manifold specifications**

Description	Manual override	Short code	Model
5/2 Solenoid Solenoid - Internal feed valve 6 mm PIF	Turn & lock	NJ6T	VM156511AB213B
5/2 Solenoid Solenoid - Internal feed valve 6 mm PIF	Push only	NJ6U	VM156511AB313B
5/2 Solenoid Solenoid - Internal feed valve 8 mm PIF	Turn & lock	NJ8T	VM158511AB213B
5/2 Solenoid Solenoid - Internal feed valve 8 mm PIF	Push only	NJ8U	VM158511AB313B
5/2 Solenoid Solenoid - Internal feed valve 10 mm PIF	Turn & lock	NJ1T	VM15Y511AB213B
5/2 Solenoid Solenoid - Internal feed valve 10 mm PIF	Push only	NJ1U	VM15Y511AB313B
5/2 Solenoid Solenoid - Internal feed valve Pneumapole	Turn & lock	NJZT	VM157511AB213B
5/2 Solenoid Solenoid - Internal feed valve Pneumapole	Push only	NJZU	VM157511AB313B
5/2 Solenoid Solenoid - External feed valve 6 mm PIF	Turn & lock	NK6T	VM156522AB213B
5/2 Solenoid Solenoid - External feed valve 6 mm PIF	Push only	NK6U	VM156522AB313B
5/2 Solenoid Solenoid - External feed valve 8 mm PIF	Turn & lock	NK8T	VM158522AB213B
5/2 Solenoid Solenoid - External feed valve 8 mm PIF	Push only	NK8U	VM158522AB313B
5/2 Solenoid Solenoid - External feed valve 10 mm PIF	Turn & lock	NK1T	VM15Y522AB213B
5/2 Solenoid Solenoid - External feed valve 10 mm PIF	Push only	NK1U	VM15Y522AB313B
5/2 Solenoid Solenoid - External feed valve Pneumapole	Turn & lock	NKZT	VM157522AB213B
5/2 Solenoid Solenoid - External feed valve Pneumapole	Push only	NKZU	VM157522AB313B
5/3 APB Solenoid Solenoid - Internal feed valve 6 mm PIF	Turn & lock	NL6T	VM156611AB213B
5/3 APB Solenoid Solenoid - Internal feed valve 6 mm PIF	Push only	NL6U	VM156611AB313B
5/3 APB Solenoid Solenoid - Internal feed valve 8 mm PIF	Turn & lock	NL8T	VM158611AB213B
5/3 APB Solenoid Solenoid - Internal feed valve 8 mm PIF	Push only	NL8U	VM158611AB313B
5/3 APB Solenoid Solenoid - Internal feed valve 10 mm PIF	Turn & lock	NL1T	VM15Y611AB213B
5/3 APB Solenoid Solenoid - Internal feed valve 10 mm PIF	Push only	NL1U	VM15Y611AB313B
5/3 APB Solenoid Solenoid - Internal feed valve Pneumapole	Turn & lock	NLZT	VM157611AB213B
5/3 APB Solenoid Solenoid - Internal feed valve Pneumapole	Push only	NLZU	VM157611AB313B
5/3 APB Solenoid Solenoid - External feed valve 6 mm PIF	Turn & lock	NM6T	VM156622AB213B
5/3 APB Solenoid Solenoid - External feed valve 6 mm PIF	Push only	NM6U	VM156622AB313B
5/3 APB Solenoid Solenoid - External feed valve 8 mm PIF	Turn & lock	NM8T	VM158622AB213B
5/3 APB Solenoid Solenoid - External feed valve 8 mm PIF	Push only	NM8U	VM158622AB313B
5/3 APB Solenoid Solenoid - External feed valve 10 mm PIF	Turn & lock	NM1T	VM15Y622AB213B
5/3 APB Solenoid Solenoid - External feed valve 10 mm PIF	Push only	NM1U	VM15Y622AB313B
5/3 APB Solenoid Solenoid - External feed valve Pneumapole	Turn & lock	NMZT	VM157622AB213B
5/3 APB Solenoid Solenoid - External feed valve Pneumapole	Push only	NMZU	VM157622AB313B

Dimensions in inches (mm)

**Short codes for valve manifold specifications**

<b>Description</b>		<b>Short code</b>	<b>Model</b>
End plate kit - feed both ends	12 mm	F200	VM156517AQ010Z
End plate kit - feed both ends	10 mm	F100	VM156517AQ010Y
End plate kit - right blocked	12 mm	L200	VM156517AQ011Z
End plate kit - right blocked	10 mm	L100	VM156517AQ011Y
End plate kit - left blocked	12 mm	R200	VM156517AQ012Z
End plate kit - left blocked	10 mm	R100	VM156517AQ012Y
End plate kit - feed both ends - Pneumapole	no PIF	FPZ0	VM156517AQ0134
End plate kit - left blocked - Pneumapole	no PIF	RPZ0	VM156517AQ0136
End plate kit - right blocked - Pneumapole	no PIF	LPZ0	VM156517AQ0135
Blank body		B000	VM156517AQ0300
Port 1 blanked		B100	VM156517AQ0301
Ports 3 & 5 blanked		B300	VM156517AQ0302
Ports 1, 3 & 5 blanked		B500	VM156517AQ0303
ISEM Feed right		RM80	VM156517AQ0304
ISEM Feed left		LM80	VM156517AQ0305
ISEM Feed right & left		FM80	VM156517AQ0306
4 station Pneumapole	Standard	1B04	VM156517AQY604
6 station Pneumapole	Standard	1B06	VM156517AQY606
8 station Pneumapole	Standard	1B08	VM156517AQY608
10 station Pneumapole	Standard	1B10	VM156517AQY610
12 station Pneumapole	Standard	1B12	VM156517AQY612
16 station Pneumapole	Standard	1B16	VM156517AQY616