



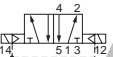


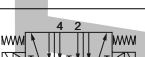








Order key, basic valves

P	2	V	-	A	V	5	0	0	E	E	6	C	S
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Valve family	
P2V	VDMA-valves

Size	
A	18 mm wide
B	26 mm wide

Valve type/Function		
Pneumatically and electrically actuated with internal supply to solenoid valve(s)		
5		5/2 valve
6		5/3 valve Closed centre position
7		5/3 valve Pressurised centre position
8		5/3 valve Vented centre position
Electrically actuated with external supply to solenoid valve(s)		
N		5/2 valve
P		5/3 valve Closed centre position
Q		5/3 valve Pressurised centre position
R		5/3 valve Vented centre position

Actuation/Return	
D	 Differential piston (air spring return only.)
E	 Electrically actuated/returned
J	 Electrically actuated/returned double piston area
P	 Pneumatically actuated/returned
Q	 Pneumatically actuated/returned double piston area
S	 Spring returned

Type of current	
Without solenoid	
1	AC 50 Hz
2	DC
3	AC 60 Hz
6	AC/DC

Voltage	
Without solenoid	
C	24 V
F	115 V
J	230 V

Overrides/ Cable head	
Without solenoid	
S	Spring returned with LED + VDR

Possible combinations

See pages 12, 14 and 16

Order key, manifolds and accessories

P 2 V - **A** **M** **5** **1** **2** **S** **0** **03**

Valve family	
P2V	VDMA valve

Size	
A	18 mm wide
B	26 mm wide

Version	
S	Single manifold
M	Multiple manifold
A	Blanking plate
K	Other accessories

Function and configuration	
0	Blank
5	Connection surface for 5/2 and 5/3 valves

Port type	
0	Without thread
1	G thread

Port size	
0	Without thread
1	G1/8
2	G1/4
3	G3/8

Configuration	
0	Without connection
E	For connecting VDMA 18 to 26 mm
S	Side connection
T	Top connection
B	Bottom connection

Type of manifold and end cover	
S	Single manifold
N	Multiple manifold with two valve positions
P	Multiple manifold N , but with the plugs fitted to suit use with internal supply to the solenoid valves
B	Intermediate manifold
G	End cover, G-side
H	End cover, H-side

With Valvetronic 110	
03	With 3 m Cable
10	With 10 m Cable

Possible combinations

See pages 18 and 19

Accessories on page 23 do not follow this order key!

Main data directional control valves

Symbol	VDMA size (mm)	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight (kg)	Order code
	18 26	Air signal	Air signal	1,5/1,5	10/10	0,07 0,15	P2V-AV500PP P2V-BV500PP
	18 26	Air signal Double piston	Air signal	1,2/1,5	10/14	0,08 0,18	P2V-AV500QP P2V-BV500QP
	18 26	Air signal	Spring	3,5/-	13/28	0,07 0,15	P2V-AV500PS P2V-BV500PS
	18 26	Air signal Double piston	Spring	2,0/-	13/39	0,08 0,18	P2V-AV500QS P2V-BV500QS
	18 26	Air signal Closed centre position	Air signal Self centring	3,5/3,5	19/40	0,10 0,15	P2V-AV600PP P2V-BV600PP
	26	Air signal Double piston Closed centre position	Air signal Double piston Self centring	2,0/2,0	19/55	0,21	P2V-BV600QQ
	18 26	Air signal Vented centre position	Air signal Self centring	3,5/3,5	19/40	0,10 0,15	P2V-AV800PP P2V-BV800PP
	26	Air signal Double piston Vented centre position	Air signal Double piston Self centring	2,0/2,0	19/55	0,21	P2V-BV800QQ
	18 26	Air signal Pressurised centre position	Air signal Self centring	3,5/3,5	19/40	0,10 0,15	P2V-AV700PP P2V-BV700PP
	26	Air signal Double piston Pressurised centre position	Air signal Double piston Self centring	2,0/2,0	19/55	0,21	P2V-BV700QQ

Q in the valve type number (e.g. P2V-AV500QS) indicates a double piston with lower changeover pressure.

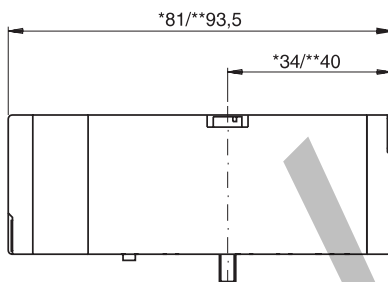
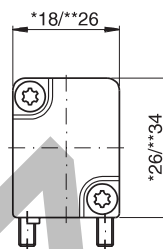
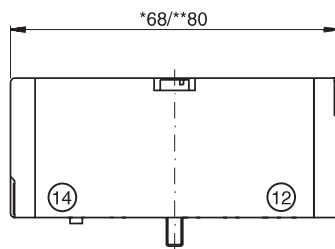
Manifolds and multiple mounting
See pages 18 to 24.

Dimensions

Pneumatically actuated 5/2 and 5/3 valves

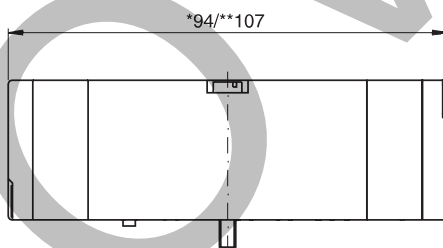
*P2V-AV500PP
*P2V-AV500PS

**P2V-BV500PP
**P2V-BV500PS
**P2V-BV600PP
**P2V-BV800PP
**P2V-BV700PP



*P2V-AV500QP
*P2V-AV500QS

















**P2V-BV500QP
**P2V-BV500QS



*P2V-AV600PP
*P2V-AV800PP
*P2V-AV700PP

**P2V-BV600QQ
**P2V-BV800QQ
**P2V-BV700QQ

Main data directional control valves

Symbol	VDMA size (mm)	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight (kg)	Order code	
Electrically actuated 5/2 valves								
Internal supply to solenoid valve(s) via port 1								
		18 26	Electric signal	Electric signal	1,5/1,5	20/20	0,08 0,16	P2V-AV500EE P2V-BV500EE
		18 26	Electric signal	Spring	3,5/-	20/30	0,08 0,15	P2V-AV500ES P2V-BV500ES
		18 26	Electric signal	Air spring	3,5/-	15/30	0,08 0,15	P2V-AV500JD P2V-BV500JD
		18 26	Electric signal	Spring	2,0/-	22/42	0,09 0,18	P2V-AV500JS P2V-BV500JS
Electrically actuated 5/2 valves								
External supply to solenoid valve(s) via port 14 *								
		18 26	Electric signal	Electric signal	1,5/1,5	20/20	0,08 0,16	P2V-AVN00EE P2V-BVN00EE
		18 26	Electric signal	Spring	3,5/-	20/30	0,08 0,16	P2V-AVN00ES P2V-BVN00ES
		18 26	Electric signal	Air spring	3,5/-	15/30	0,08 0,16	P2V-AVN00JD P2V-BVN00JD
		18 26	Electric signal	Spring	2,0/-	19/55	0,09 0,19	P2V-AVN00JS P2V-BVN00JS

*Or through a common air channel in the manifold (14) for separate supply. The solenoid valves are vented through a common channel (12) in the manifold. J in the valve order code 500JS and N00JS indicates a double piston with lower changeover pressure.

Solenoid valves

Solenoid valves and cable heads must be ordered separately. Use P2E-•V as pilot valves in the above valves. A pilot valve is required for each E or J in the valve order code.

Complete valves

See pages 24 and 25

Manifolds and multiple mounting

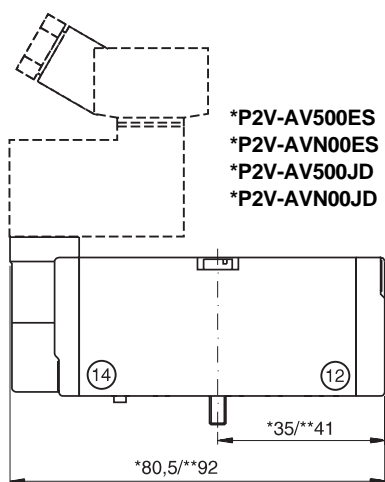
See pages 18 to 24

Solenoid valves

See page 26

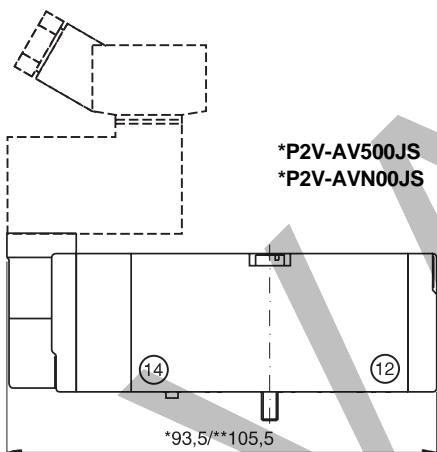
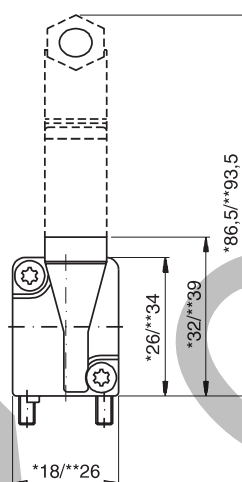
Dimensions

Electrically actuated 5/2 valve



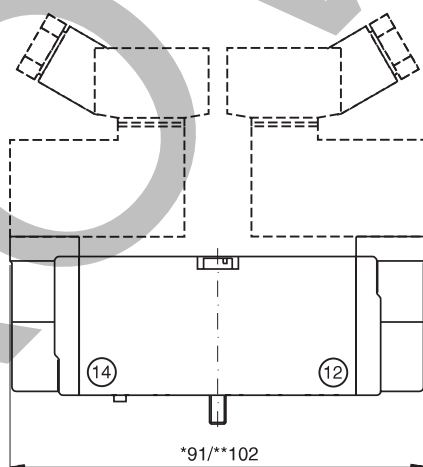
*P2V-AV500ES
*P2V-AVN00ES
*P2V-AV500JD
*P2V-AVN00JD

**P2V-BV500ES
**P2V-BVN00ES
**P2V-BV500JD
**P2V-BVN00JD



*P2V-AV500JS
*P2V-AVN00JS

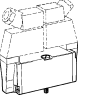
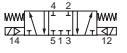
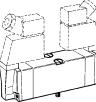

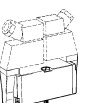
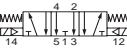
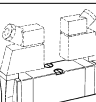
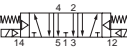
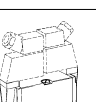
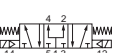
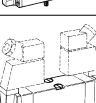

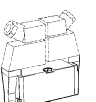

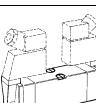
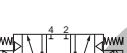
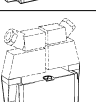
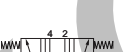
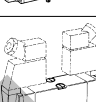

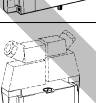
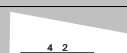
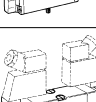

**P2V-BV500JS
**P2V-BVN00JS



*P2V-AV500EE
*P2V-AVN00EE

**P2V-BV500EE
**P2V-BVN00EE

Main data directional control valves

Symbol	VDMA size (mm)	Actuation	Return	Signal pressure min. (bar) at 6 bar actua./return	Changeover time (ms) at 6 bar actua./return	Weight (kg)	Order code	
Electrically actuated 5/3 valves								
Internal supply to solenoid valve(s) via port 1								
		18 26	Electric signal Closed centre position	Electric signal Spring Self centring	3,5/-	37/40	0,10 0,16	P2V-AV600EE P2V-BV600EE
		26	Electric signal Double piston Closed centre position	Electric signal Double piston Self centring	2,0/-	37/55	0,21	P2V-BV600JJ
		18 26	Electric signal Vented centre position	Electric signal Self centring	3,5/-	37/40	0,10 0,16	P2V-AV800EE P2V-BV800EE
		26	Electric signal Double piston Vented centre position	Electric signal Double piston Self centring	2,0/-	37/55	0,21	P2V-BV800JJ
		18 26	Electric signal Pressurised centre position	Electric signal Self centring	3,5/-	37/40	0,10 0,16	P2V-AV700EE P2V-BV700EE
		26	Electric signal Double piston Pressurised centre position	Electric signal Double piston Self centring	2,0/-	37/55	0,21	P2V-BV700JJ
Electrically actuated 5/3 valves								
External supply to solenoid valve(s) via port 14 *								
		18 26	Electric signal Closed centre position	Electric signal Self centring	3,5/-	37/40	0,10 0,16	P2V-AVP00EE P2V-BVP00EE
		26	Electric signal Double piston Closed centre position	Electric signal Double piston Self centring	2,0/-	37/55	0,21	P2V-BVP00JJ
		18 26	Electric signal Vented centre position	Electric signal Self centring	3,5/-	37/40	0,10 0,16	P2V-AVR00EE P2V-BVR00EE
		26	Electric signal Double piston Vented centre position	Electric signal Double piston Self centring	2,0/-	37/55	0,21	P2V-BVR00JJ
		18 26	Electric signal Pressurised centre position	Electric signal Self centring	3,5/-	37/40	0,10 0,16	P2V-AVQ00EE P2V-BVQ00EE
		26	Electric signal Double piston Pressurised centre position	Electric signal Double piston Self centring	2,0/-	37/55	0,21	P2V-BVQ00JJ

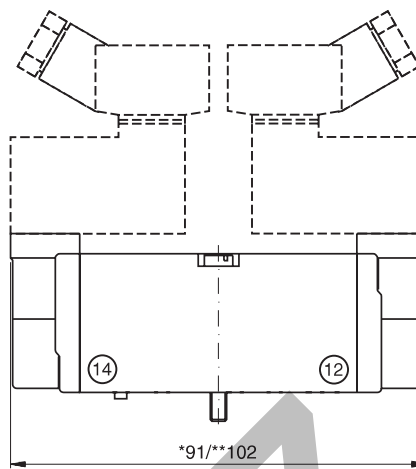
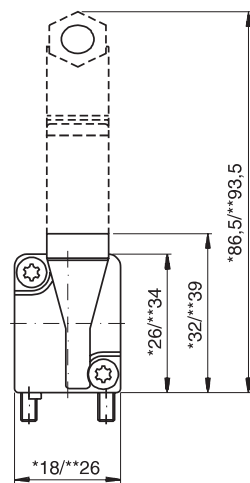
*Or through a common air channel in the manifold (14) for separate supply. The solenoid valves are vented through a common channel (12) in the manifold. J in the valve order code **P2V-BV600JJ** for example indicates a double piston with lower changeover pressure.

Solenoid valves

Solenoid valves and cable heads must be ordered separately. Use P2E-•V as pilot valves in the above valves. A pilot valve is required for each E or J in the valve order code.

Dimensions

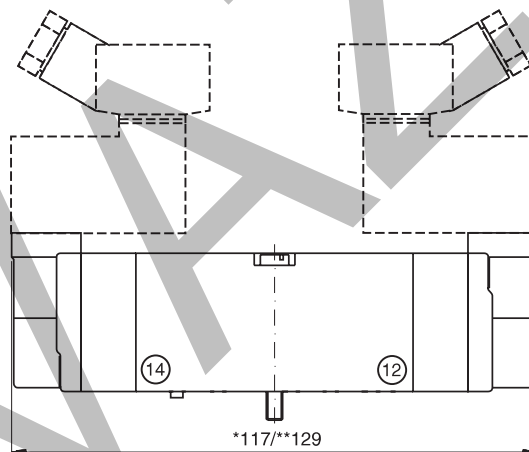
Electrically actuated 5/3 valve



****P2V-BV600EE**
****P2V-BVP00EE**
****P2V-BV800EE**
****P2V-BVR00EE**
****P2V-BV700EE**
****P2V-BVQ00EE**

***P2V-AV600EE**
***P2V-AVP00EE**
***P2V-AV800EE**
***P2V-AVR00EE**
***P2V-AV700EE**
***P2V-AVQ00EE**

****P2V-BV600JJ**
****P2V-BVP00JJ**
****P2V-BV800JJ**
****P2V-BVR00JJ**
****P2V-BV700JJ**
****P2V-BVQ00JJ**



Complete valves


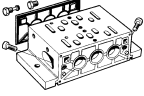

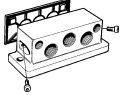
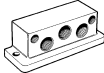
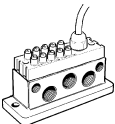
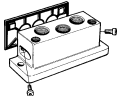


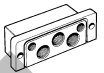
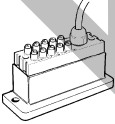
See pages 24 and 25

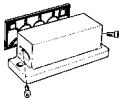
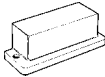
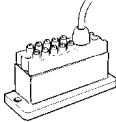


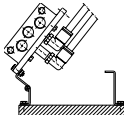

Manifolds and multiple mounting

See pages 18 to 24

Solenoid valves

See page 26

Accessories	Designation	Weight (kg)	Order code (P2V-A, 18 mm)	Weight (kg)	Order code (P2V-B, 26 mm)
	Manifold with side connections	0,07	P2V-AS511SS	0,12	P2V-BS512SS
	Multiple manifold Including seal, fitting screws and plugs. Ports 2, 4, and 14 are bottom-connected. Fit plugs as required to provide common supply of operating air and common exhausts for solenoid valves. Plug assembly instruction, see page 35.	0,20	P2V-AM511NB	0,40	P2V-BM512NB
	Multiple manifold Multiple manifold as above, but with the plugs fitted to suit use with valves with internal supply to solenoid.	0,20	P2V-AM511PB	0,40	P2V-BM512PB
	Intermediate manifold, 18 to 26 mm Including seals and fitting screws. For connecting P2V-AM511NB/PB multiple manifolds to P2V-BM511NB/PB multiple manifolds.	0,33	P2V-AM500BE	0,33	P2V-AM500BE
	Connection block G-side, including seal and fitting screws. For side connection.	0,18	P2V-AM512GS	0,21	P2V-BM513GS
	Connection block H-side. For side connection.	0,18	P2V-AM512HS	0,21	P2V-BM513HS
	Connection block with Valvetronic 110 H-side. For side connection. with 3 m cable with 10 m cable	0,50 1,33	P2V-AM512HS03 P2V-AM512HS10	0,53 1,36	P2V-BM513HS03 P2V-BM513HS10
	Connection block G-side, including seal and fitting screws. For top connection.	0,18	P2V-AM512GT	0,21	P2V-BM513GT
	Connection block H-side. For top connection.	0,18	P2V-AM512HT	0,21	P2V-BM513HT
	Connection block G-side, including seal and fitting screws. For bottom connection.	0,18	P2V-AM512GB	0,22	P2V-BM513GB
	Connection block H-side. For bottom connection.	0,18	P2V-AM512HB	0,22	P2V-BM513HB
	Connection block with Valvetronic 110 H-side. For bottom connection. with 3 m cable with 10 m cable	0,50 1,33	P2V-AM512HB03 P2V-AM512HB10	0,53 1,36	P2V-BM513HB03 P2V-BM513HB10

Accessories	Designation	Weight (kg)	Order code (P2V-A, 18 mm)	Weight (kg)	Order code (P2V-B, 26 mm)
	End cover G-side, including seal and fitting screws.	0,19	P2V-AM500G0	0,24	P2V-BM500G0
	End cover H-side	0,19	P2V-AM500H0	0,24	P2V-BM500H0
	End cover with Valvetronic 110 H-side with 3 m cable with 10 m cable	0,51 1,34	P2V-AM500H003 P2V-AM500H010	0,54 1,37	P2V-BM500H003 P2V-BM500H010
	Blanking plate Including seal and fitting screws.	0,02	PS2973F	0,05	P2V-BA5B
	Plug For sealing supply and exhaust air ducts between multiple manifolds with different primary supply pressures.	0,004	P2V-AK0P	0,01	P2V-BK0P
	Angle mounting set For raising multiple manifolds so that angle connections can be fitted to the underside. The parts are designed so that the entire manifold can be angled to simplify connection of the pipes. The set consists of four mounts, complete with all necessary screws and nuts.	0,14	P2V-AK0M	0,14	P2V-AK0M
	O-ring strip seal For sealing between bases and multiple manifolds. 3.53 mm diameter, Supplied in 5 m lengths.	0,07	9304331543	0,07	9304331543
	Seal Seal between the valve and manifold.	0,01	9303155575	0,01	9303155526
	Seal Seal between multiple manifolds.	0,01	9303155576	0,01	9303155527
	Plug kit Plug kit for multiple manifolds. Also see plug assembly instruction on page 35.	0,02	9304331546	0,02	9304331546

Dimensions Manifold

*P2V-AS511SS
**P2V-BS512SS

