

# *Directional control valves*

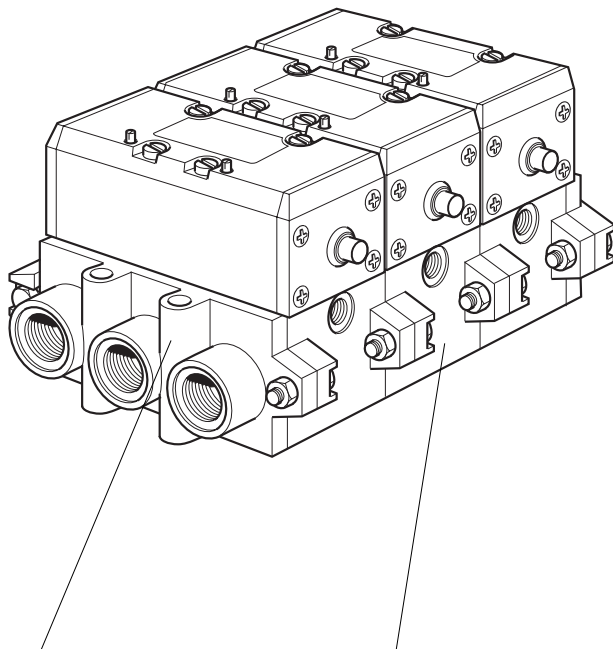
*Flexflow Series*

*According to ISO 5599/1, size 1-4*

*Catalogue 9127007622GB-ul*



## Multiple mounting with bottom connection VG25, VG35 and VG45 to VDMA 24345

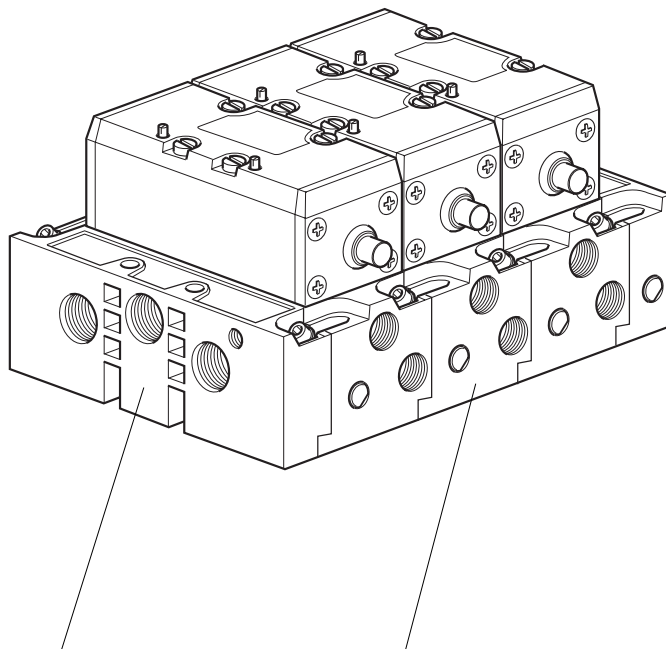


**ISO\*-D connection set**  
for side connection

**ISO\*-C multiple manifold**  
Ports 2 and 4 connected  
from the bottom:  
ports 12 and 14 connected  
from the side.

\*  
1 for VG25  
2 for VG35  
3 for VG45

## Multiple mounting with side connection VG25 and VG35 to VDMA 24345



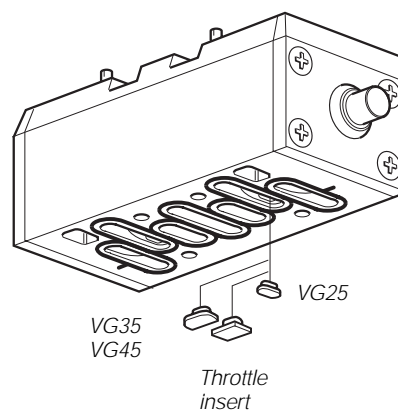
**Connection set**  
P2N-EM513ES (VG25)  
P2N-FM514ES (VG35)  
For side connection

**Multiple manifold**  
P2N-EM512MD (VG25)  
P2N-FM513MD (VG35)  
Ports 2 and 4, as well as 12  
and 14, connected from the  
side.

## Throttle inserts





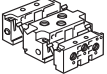


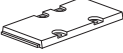

Fitting throttle inserts in exhaust ports 3 and 5 provides several stages of cylinder speed control.

Valve	Throttle insert	Flow as % of maximum flow
VG25	With throttle insert	0-60%
	Without throttle insert	-100%
VG35, VG45	With whole throttle insert	0-50%
	With half throttle insert	-80%
	Without throttle insert	-100%

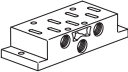









**NB:**  
The throttle  
inserts must be  
removed for  
maximum flow  
capacity.

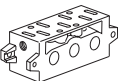

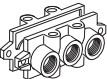

## Manifolds, side connection, ISO size 1

Accessory	Designation	Connection	Weight Kg	Order code
	 <b>Manifold, ISO1-TS</b> With G1/4 side connection, including O-rings and fitting bolts	G1/4	0,06	<b>P2N-EM512MD</b>
	 <b>Connecting kit, ISO1-TS</b> With G3/8 side connection, including O-rings and fitting bolts	G3/8	0,21	<b>P2N-EM513ES</b>
	 <b>Adaptor set, ISO1 - ISO2</b> Including front and rear block, seal and fitting bolts		1,60	<b>P2N-EM500AG</b>
	<b>Bracket</b> For fitting to DIN rail. Four required per valve block.		0,10	<b>9121 7184-90</b>
	<b>Blanking plate, ISO1</b> Including seal and fitting bolts		0,10	<b>P2N-AA5B</b>
	<b>Stainless steel fitting bolts</b> Four stainless steel bolts for VG25		0,10	<b>9121 5902-69</b>

## Single subbases, ISO size 2

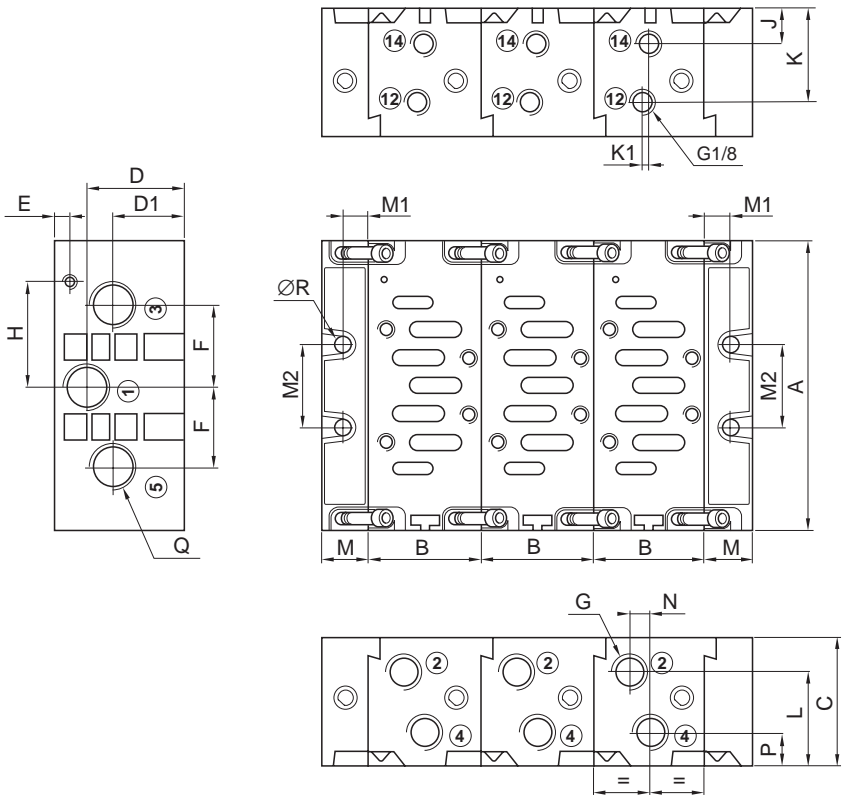
Accessory	Designation	Connection	Weight Kg	Order code
	 <b>Subbase, ISO2-A</b> with G3/8 side connections, to VDMA 24345, Form A.	G3/8	0,28	<b>P2N-WS513S</b>
	 <b>Subbase, ISO2-1</b> with G1/4 side connections	G1/4	0,53	<b>P2N-HS512SS</b>
	 <b>Subbase, ISO2-1</b> with G1/2 side connections	G1/2	0,50	<b>P2N-HS514SS</b>
	 <b>Subbase, ISO2-2</b> with G3/8 side connections	G3/8	0,57	<b>P2N-HS513SB</b>

## Manifolds, bottom connection, VDMA ISO size 2

Accessory	Designation	Connection	Weight Kg	Order code
	 <b>Manifold, ISO2-C</b> Including O-rings and fitting bolts. Ports 2 and 4 bottom connection, ports 12 and 14 end connection, to VDMA 24345, Form C.	G3/8	0,36	<b>P2N-WM513MB</b>
	 <b>Connecting kit, ISO2-D</b> with G1/2 side connections, including O-rings and fitting bolts. Supplied in pairs. To VDMA 24345, Form D.	G1/2	0,34	<b>P2N-WM514ES</b>

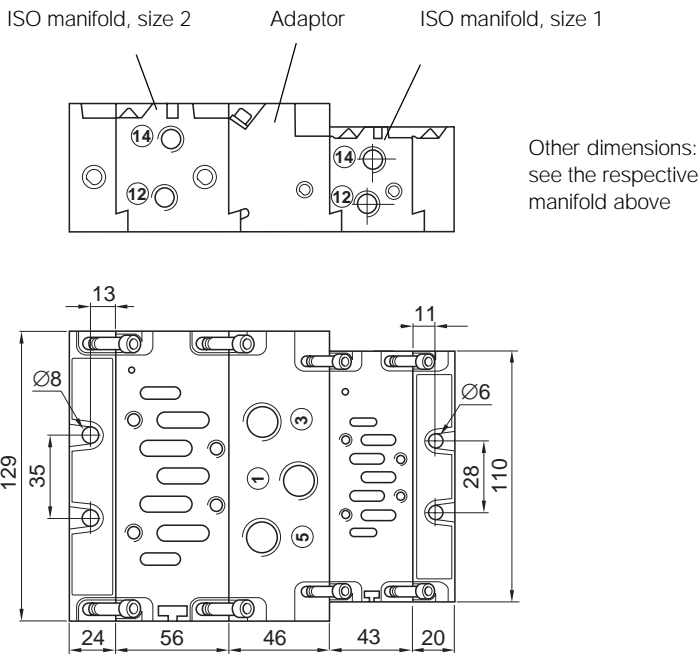
Material specification, please see page 26.

Side connection, ISO size 1 - P2N-EM512MD, P2N-EM513ES  
Side connection, ISO size 2 - P2N-FM513MD, P2N-FM514ES



Type	A	B	C	D	D1	E	F	G	H	J	K	K1	L	M	M1	M2	N	P	Q	R
P2N-EM	110	43	48	35,5	26,5	5,5	28,0	1/4"	36	15,5	35,0	3	32	20	11	28	12,0	12,5	3/8"	6
P2N-FM	129	56	60	44,5	35,5	6,0	34,5	3/8"	45	16,0	41,5	3	41	24	13	35	12,5	16,0	1/2"	8

Adaptor plate, P2N-EM500AG



Other dimensions:  
see the respective  
manifold above