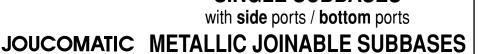
SINGLE SUBBASES





ISO sizes 1-2-3

Series

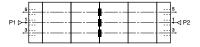
with **bottom** ports

SPECIFICATIONS

description				port connection				catalogue						
type of subbase		type of port	12-14	1	2-4	3-5	size	number						
			G 1/8	G 1/4	G 1/4	G 1/4		35500076						
			G 1/8	G 1/4	G 1/4	G 3/8	ISO 1	35500061						
	side		G 1/8	G 3/8	G 3/8	G 3/8]	35500382						
single	1	tapped	G 1/8	G 3/8	G 3/8	G 3/8	100.0	35500560						
subbases	E		G 1/8	G 1/2	G 1/2	G 1/2	ISO 2	35500562						
			G 1/8	G 1/2	G 1/2	G 1/2	100.0	35500171						
ISO 5599/1			G 1/8	G 3/4	G 3/4	G 3/4	ISO 3	35500192						
AFNOR NFE 49080	bottom	tapped	G 1/8	G 1/4	G 1/4	G 1/4	ISO 1	35500077						
			G 1/8	G 3/8	G 3/8	G 3/8	ISO 2	35500085						
		with couplers	Ø 4 mm	for OD Ø 8 mm		G 1/4	ISO 1	35500069						
		subbase	G 1/8	-	G 1/4	-	100.1	35500165						
	bottom	hottom						set of 2 end plates	-	G 3/8	-	G 3/8	ISO 1	35500166
joinable			subbase	G 1/8	-	G 3/8	-	100.0	35500169					
subbases		set of 2 end plates	-	G 1/2	-	G 1/2	ISO 2	35500170						
	500	subbase	G 1/8		G 1/2		100.2	35500173						
ISO 5599/1	.000	set of 2 end plates	-	G 1	-	G 1	ISO 3	35500174						
VDMA 24345		act of 2 pluga on main r	roccure (1) c	and ovhoust	o (2 E)		ISO 1	88135521						
		set of 3 plugs on main p for 2 different pressure s	` '		s (3-3)		ISO 2	88135522						
		Tor 2 dilicioni prossure s		, vj			ISO 3	88135520						

Set of 2 end plates supplied with 3 plugs (for 1-3-5)

(A) Mounting principle of a plug set : this device allows joinable subbases to be supplied with 2 different pressure inlets.

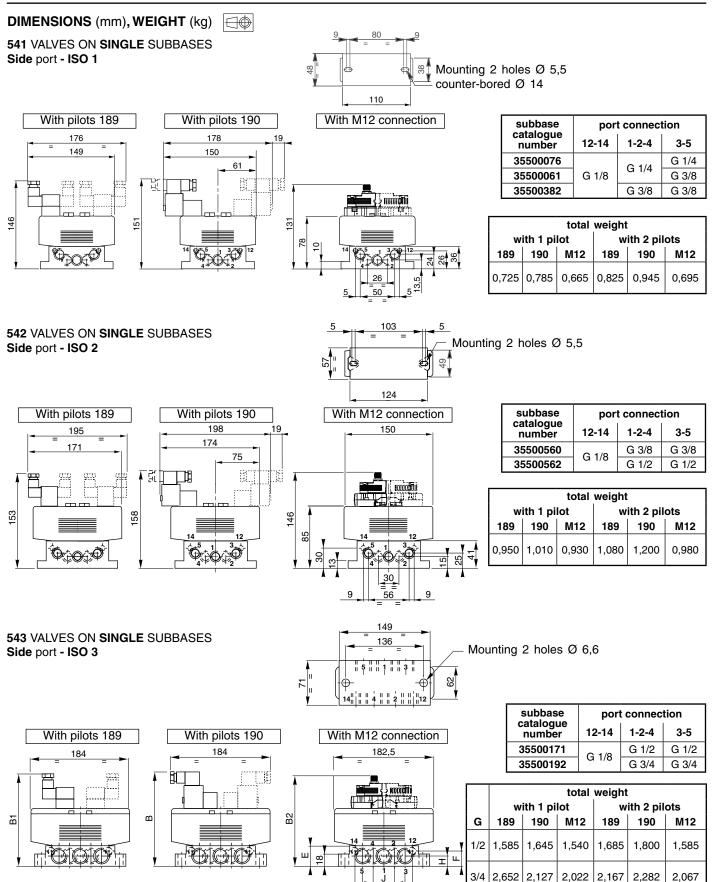


SET OF TRANSFER PLATES AND CONNECTIONS

- Set of transfer plates and connections to put together different sizes of ISO VDMA joinable subbases : ISO 1 - ISO 2, set including:
 - A transfer module to allow connection of ISO-VDMA joinable subbases through ISO 1 and ISO 2 bottom ports, and connection of supply pressure (1) and exhausts (3-5) through the unit.
 - One end plate ISO 1 (ports 1 3 5)
 - One end plate ISO 2 (ports 1 3 5)

ISO 1 - ISO 3 set including the same parts as mentionned above, but adapted to the connection of ISO 1 and ISO 3

	description	type	catalogue number	E (mm)	5
. I.	Set of transfer plate and connections for ISO/VDMA joinable subbases	ISO 1 - ISO 2	35500199	20	End plate ISO 1 Valves and subbases ISO 1 TRANSFERT MODULE
o change without notice	with bottom ports	ISO 1 - ISO 3	35500194	32	Valves and subbases ISO 2 End plate ISO 2



	В	B1	B2	E	F	Н	J	K	L
G 1/2	164	159,5	152	32	22	17	32	68	90
G 3/4	182	177,5	170	50	40	20	36	80	92

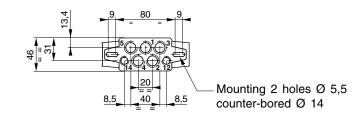
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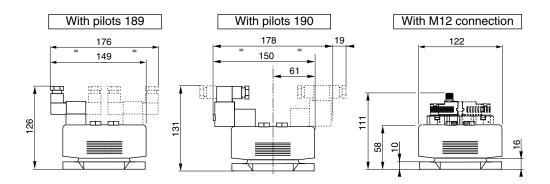
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DIMENSIONS (mm), WEIGHT (kg)



541 VALVES ON SINGLE SUBBASES Bottom port - ISO 1

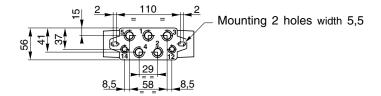


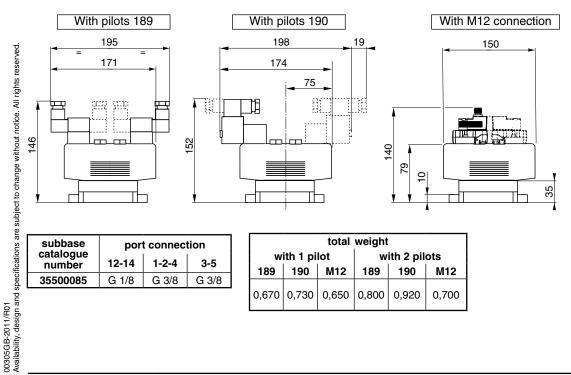


subbase	port connection					
catalogue number	12-14	1-2-4	3-5			
35500077	G 1/8	G 1/4	G 1/4			
35500069	Instant	G 1/4				
35500069	Ø 4 OD	Ø8 OD	G 1/4			

	total weight									
with 1 pilot				with 2 pilots						
18	189 190 M12		189	190	M12					
0,7	720	0,780	0,660	0,820	0,940	0,690				

542 VALVES ON SINGLE SUBBASES Bottom port - ISO 2





subbase catalogue	port connection					
number	12-14	1-2-4	3-5			
35500085	G 1/8	G 3/8	G 3/8			

total weight								
with 1 pilot with 2 pilots								
189	190 M12		190 M12 189 190		M12			
0,670	0,730	0,650	0,800	0,920	0,700			

DIMENSIONS (mm), **WEIGHT** (kg)



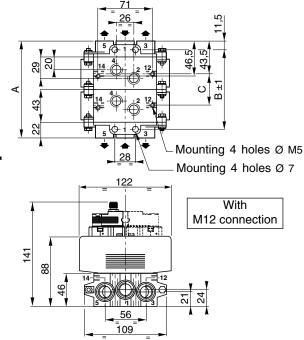
541 SPOOL VALVES ON METALLIC JOINABLE SUBBASES Bottom port - ISO 1

				weight				
number of subbases	A	B±1	С	valves with 2 pilots + subbases + end plates				
				pilot 189	pilot 190	M12		
3	173	150	86	2,850	3,200	2,450		
4	216	193	129	3,500	4,000	3,000		
5	259	236	172	4,100	4,700	3,450		
6	302	279	215	4,750	5,500	4,000		
7	345	322	258	5,350	6,200	4,450		
8	388	365	301	6,000	7,000	5,000		

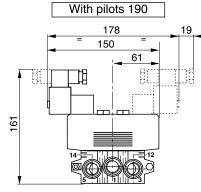
Pilots weight : $1 \times 189 = 0,120 \text{ kg} - 1 \times 190 = 0,180 \text{ kg}$
$1 \times M12 = 0,058 \text{ kg} - 2 \times M12 = 0,110 \text{ kg}$

	code	port connection				
	code	12-14	2-4	1-3-5		
subbase	35500165	G 1/8	G 1/4	-		
2 end plates	35500166	-	-	G 3/8		

Set of end plates supplied with 3 plugs G 3/8 (for 1-3-5)



	With pilots 189
	176
	149
Ā	
156	14-12-12-12-13-13-13-13-13-13-13-13-13-13-13-13-13-



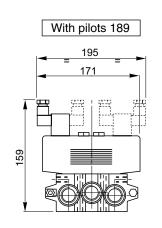
542 SPOOL VALVES ON **METALLIC JOINABLE SUBBASES Bottom** port - **ISO 2**

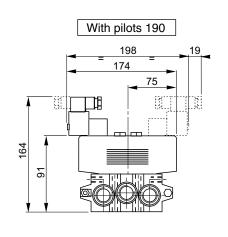
number of	_			weight valves with 2 pilots			
subbases	A	B±1	С	+ subbases + end plates			
				pilot 189	pilot 190	M12	
3	220	193	112	3,600	3,900	3,240	
4	276	249	168	4,600	5,100	4,220	
5	332	305	224	5,700	6,300	5,200	
6	388	361	280	6,800	7,500	6,180	
7	444	417	336	7,800	8,700	7,160	
8	500	473	392	9,000	9,900	8,140	

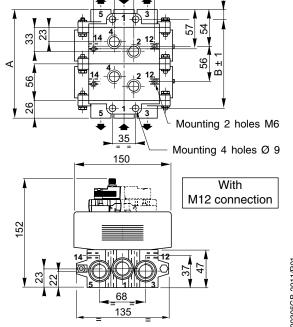
Pilot weight : 1 x 189 = 0,120 kg - 1 x 190 = 0,180 kg 1 x M12 = 0,073 kg - 2 x M12 = 0,140 kg

	catalogue	port connection						
	number	12-14	2-4	1-3-5				
subbase	35500169	G 1/8	G 3/8	-				
2 end plates	35500170	-	-	G 1/2				

Set of end plates supplied with 3 plugs G 1/2 (for 1-3-5)







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DIMENSIONS (mm), **WEIGHT** (kg)

543 SPOOL VALVES ON METALLIC JOINABLE SUBBASES

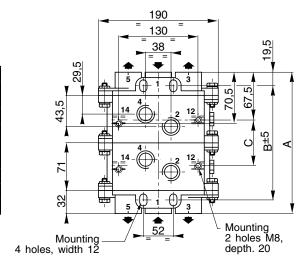
Bottom port - ISO 3

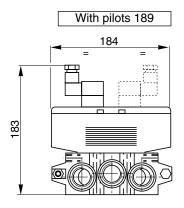
	catalogue	port connection						
	number	12-14	2-4	1-3-5				
subbase	35500173	G 1/8	G 1/2	-				
2 end plates	35500174	-	-	G 1				

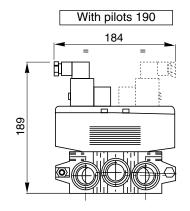
Set of end plates supplied with 3 plugs G 3/8 (for 1-3-5)

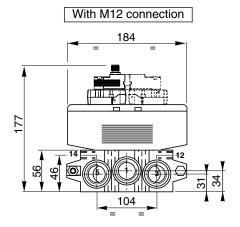
					weight		
number of subbases	A	B±1	С	va + sub			
				pilot 189	pilot 190	M12	
2	206	167	71	4,140	4,260	3,820	
3	277	238	142	5,740	5,860	5,200	
4	348	309	213	7,340	7,460	6,580	
5	419	380	284	8,940	9,060	7,960	
6	490	451	355	10,540	10,660	9,120	
7	561	522	426	12,140	12,140	10,380	

Pilots weight : 1 x 189 = 0,120 kg - 1 x 190 = 0,180 kg 1 x M12 = 0,073 kg - 2 x M12 = 0,141 kg









POLYAMIDE JOINABLE SUBBASES

side ports G 1/4



5/2-5/3
Series
355
Type
ISO size 1

GENERAL

This subbase system comprises joinable subbases and accessories with the following main characteristics:

- The equipment has a **standard** interface complying with the international standard ISO 5599/1, size 1 (Series 541).
- Joinable subbases with **side ports**, with connector G1/4 or instant fittings(couplers).
- Reduction in costs of piping due to built-in pneumatic inter-connections between subbases.
- Built-in pressure indicators show the condition of outputs of the spool valve.
- Adjustable built-in flow regulators.

CONSTRUCTION

Subbase: glass-filled polyamide (PA+FV). Internal parts: light alloy and acetal (POM), brass

Sealing: nitrile (NBR).

Pressure indicator: polyether
End plates: light alloy



CONNECTION FACILITIES

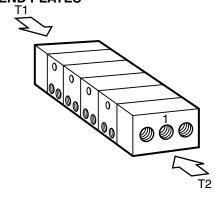
The joinable subbases with side ports offer many advantages:

- Many piping possibilities due to a large number of port connections.
- Easier assembly in panels with a better access to the ports.
- Simple maintenance.
- Cost reduction due to the removal of pivoting mounting chassis and to the reduction of the number of fittings.
- Possible mounting directly on the body of the machine.
- Improved flow rates and response times due to the reduced piping length.

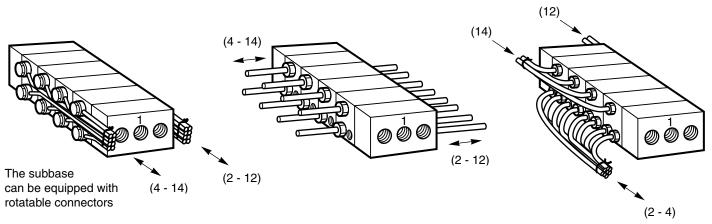
These subbases allow piping to the outlet ports (2-4) and pilot port (14) on the left side; to the outlet port (2) and pilot port (12) on the right side.

The end plates allow the piping of the main pressure supply (1) and of exhausts (3 and 5) on side T_1 or T_2 or on both sides T_1 and T_2 (see opposite and overleaf).

CONNECTION THROUGH THE END PLATES

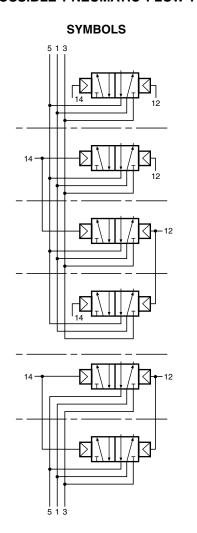


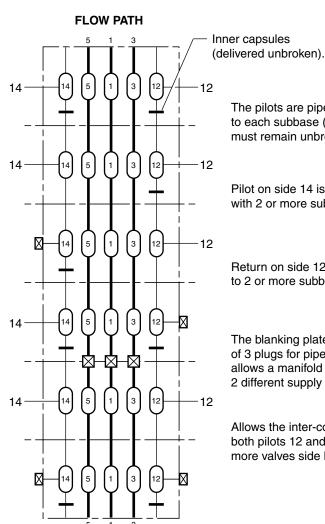
SAMPLE PIPING ARRANGEMENTS



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POSSIBLE PNEUMATIC FLOW PATHSE





The pilots are piped separately to each subbase (inner capsules must remain unbroken).

Pilot on side 14 is connected with 2 or more subbases (*).

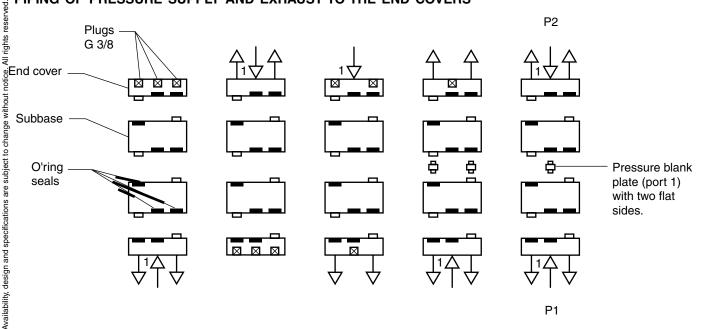
Return on side 12 is connected to 2 or more subbases (★).

The blanking plate (order a set of 3 plugs for pipes 1, 3 and 5) allows a manifold to be used with 2 different supply pressures.

Allows the inter-connection of both pilots 12 and 14 with 2 or more valves side by side (*).

- (*) Ports 12 and 14 are connected by side orifices.
 - Punch the inner capsule (with a drift punch) out of the pneumatic inter-connection between subbases to connect pilots with 2 or more subbases: 1) Insert drift punch into the opposite side of raising 2) With G 1/8 plugs, plug the other port(s) of pilot 12 or 14 (subbase is delivered with sealings).

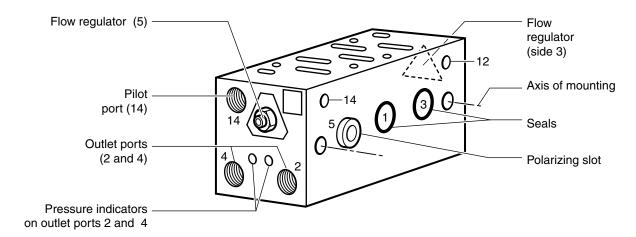
PIPING OF PRESSURE SUPPLY AND EXHAUST TO THE END COVERS



Pneutrol International Limited UK Office 5 Caulside Drive, Antrim, BT41 2DU United Kingdom TEL: +44 (0) 289448 1808 www.valves-direct.com

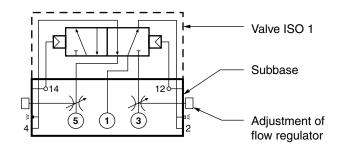
sales@pneutrol.com European Office Unit 6, Saint Anthony's Business Park, Ballymount Road, D22 VW95 TEL: +353 (0) 1 4373653

JOINABLE SUBBASE WITH BUILT-IN FLOW REGULATORS AND PRESSURE INDICATORS

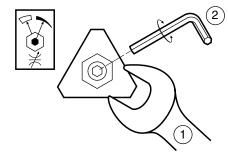


FLOW REGULATORS

MOUNTING



ADJUSTMENT



- 1 Turn nut until the desired flow regulation.
- (2) For accurate adjustment, turn central screw.

SPECIFICATIONS

de e estado a	n and a U.A		oort connectio	n	catalogue	
description	parts list	1-3-5	2-4	12-14	number	
joinable subbase with built-in flow regulators and pressure indicators	1 subbase 5 seals for piping 1-3-5-12-14 1 plug G 1/4 +1plug G 1/8 2 assembly posts	-	G 1/4	G 1/8	35500153	
(see above)	1 subbase 5 seals for piping 1-3-5-12-14			ttings for tubes	0==004==	
	2 cylindrical plugs (1 Ø 8 + 1 Ø 4 mm) 2 assembly posts	-	ODØ8	OD Ø 4	35500155	
joinable subbase without flow regulators nor pressure indicator	1 subbase 5 seals for piping 1-3-5-12-14 1 plug G 1/4 +1 plug G 1/8 2 assembly posts	-	G 1/4	G 1/8	35500156	
	1 subbase 5 seals for piping 1-3-5-12-14		instant fi flexible			
	2 cylindrical plugs (1 Ø 8 + 1 Ø 4 mm) 2 assembly posts	-	ODØ8	OD Ø 4	35500158	
set of 2 end plates	2 end plates 4 seals 2 assembly screws 2 assembly nuts 3 plugs G 3/8	G 3/8	-	-	35500159	
set of 3 plugs	3 plugs on main pressure (1) and exhausts (3,5) - seals included		•		88135514	

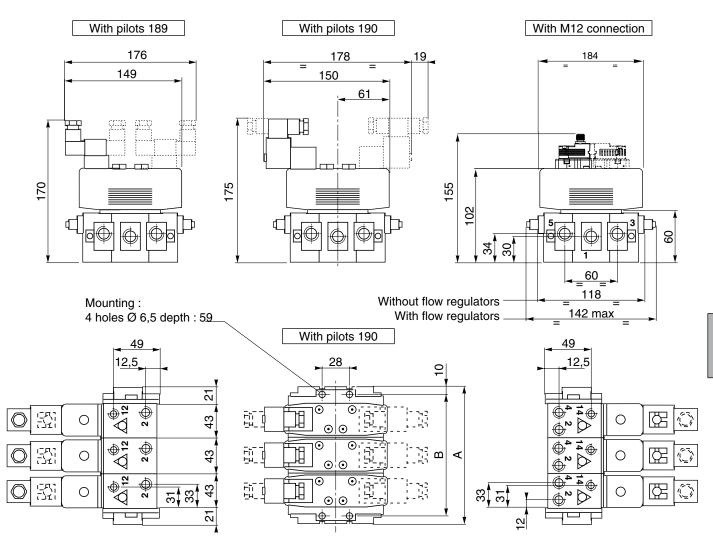
NOTE - number maximum of subbases = 10

ACCESSORIES (see page 22)

DIMENSIONS (mm), WEIGHT (kg)

SPOOL VALVES ON POLYAMIDE JOINABLE SUBBASES
Side port - ISO 1

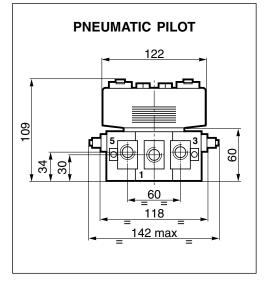
ELECTRIC PILOT



			weight								
number of subbases	Α	В	valves with 2 pilots + subbases + end plates								
Subbases			pilot 189	pilot 190	M12						
2	128	108	2,200	2,400	1,900						
3	171	151	3,100	3,400	2,650						
4	214	194	4,000	4,400	3,400						
5	257	237	4,900	5,400	4,150						
6	300	280	5,800	,6,400	4,900						
7	343	323	6,700	7,400	5,650						
8	386	366	7,600	8,400	6,400						
9	429	409	8,500	9,400	7,150						
10	472	452	9,400	10,400	7,900						

Pilot weight : 1 x 189 = 0,120 kg - 1 x 190 = 0,180 kg 1 x M12 = 0,058 kg - 2 x M12 = 0,110 kg

n°	port connection							
of ports	tapped	with instant fittings for flexible tubes						
1-3-5	G 3/8	tapped G 3/8						
2-4	G 1/4	OD. Ø 8 mm						
12-14	G 1/8	OD. Ø 4 mm						



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METALLIC JOINABLE SUBBASES

side ports G 1/4



5/2-5/3 Series 355

ISO sizes 1 and 2

GENERAL

This subbase system comprises joinable subbases and accessories with 3 principal characteristics.

- The equipment has a **standard** interface complying with the international standard ISO 5599/1 Size 1, so that spool valves series 541 can be fitted.
- Subbases for side ports.
- The subbases are fitted with selector plates which mean that various piping arrangements and inter-connections can be selected.

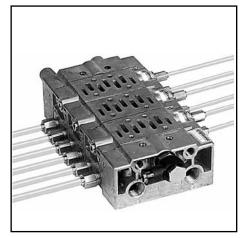
CONNECTION POSSIBILITIES

These joinable subbases with side ports offer many advantages:

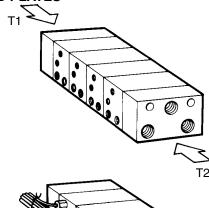
- Various piping possibilities due to a large number of port connections.
- Simple assembly in panels due to an improved accessibility to the ports.
- Simple maintenance.
- A reduction in costs due to the removal of pivoting mounting chassis and a reduction in the number of fittings.
- Possibility of mounting directly onto the body of the machine.
- A reduction in lengths of tube giving improved flow rates and improved response times.

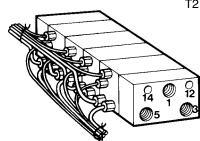
These bases allow piping to outlet ports (2, 4) and pilot ports (12, 14) on both side faces, as shown below.

The end plates allow the piping of the supply (1) and exhausts (3,5), in addition, the pilots (12,14) can be piped into the end plates.

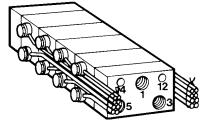


CONNECTION THROUGH THE END PLATES

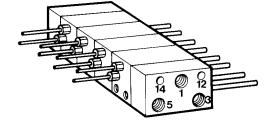




SAMPLE PIPING ARRANGEMENTS

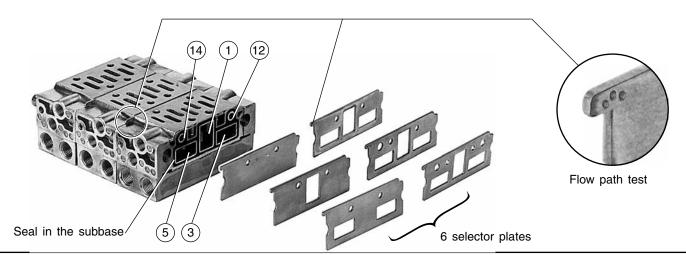


This arrangements allows the use of rotatable fitting



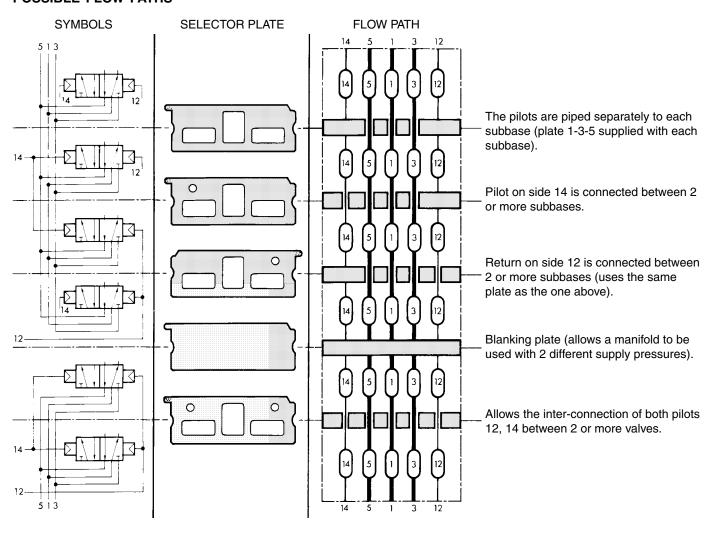
POSSIBLE FLOW PATHS

The subbases include 5 flow paths (1-3-5-12-14), all of which can be connected through the end plates of each manifold assembly.



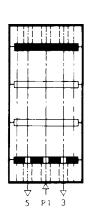
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POSSIBLE FLOW PATHS

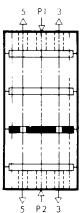


PIPING OF SUPPLY AND EXHAUSTS TO THE END COVERS

STANDARD ASSEMBLY Supply and exhausts to 1 side plate.

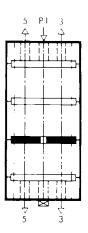


Selector plates supplied as standard allows the assembly as shown above. Assembly with 2 different pressures and with the exhaust piped to both end plates.



For this assembly a selector plate with connections between 3, 5 is necessary.

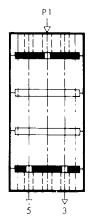
Assembly with 1 supply on 1 plate but with exhausts from the 2nd end plate.



For this assembly a selector plate allows flow through port 1 if required. The supply port in the second plate must be plugged.

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Assembly with the supply port in 1 end plate and the exhaust from the other end plate.



For this assembly you require 2 selector plates, 1 allowing flow through port 1 and 1 allowing flow through ports 3, 5. With ISO 1 bases this arrangement allows the assembly without plugging any ports.

CHOICE OF EQUIPMENT

				ports			со	de	
description	parts list	1-3	3-5	2	-4	12-14	ISO 1	ISO 2	
		ISO 1	ISO 2	ISO 1	ISO 2	ISO 1-2	150 1	150 2	
metallic joinable subbase with side ports	1 subbase + 2 seals 1 selector plate (connects ports 1 - 3 - 5) 2 G 1/4 plugs 1 G 1/8 plug 2 assembly diabolos	-	-	G 1/4	G 1/2	G 1/8	35500088	35500102	
set of 2 end plates	2 end plates + 2 seals 1 blank selector plate (no flow) 1 selector plate (connects ports 1 - 3 - 5) 2 assembly diabolos	G 3/8	G 3/4	-	-	G 1/8	35500087	35500101	
blank selector plate (no f	low)						88135501	88135506	
selector plate (connects	port 1)						88135512	88135513	
selector plate (connects	ports 3 and 5)						88135510	88135511	
selector plate (connects	selector plate (connects ports 1 - 3 - 5)								
selector plate (connects		88135503	88135508						
selector plate (connects	ports 1 - 3 - 5 and 2 pilots 12 and 14)						88135504	88135509	

SET OF TRANSFER PLATES AND CONNECTIONS

- Allow connection of ISO 1 and ISO 2 metallic joinable subbases, with side port .
- Set including: A transfer module to allow connection of subbases ISO 1 and ISO 2
 - One end plate ISO 2 (ports 1 3 5 : G 3/4)
 - One end plate ISO 1 (ports 1 3 5 : G 3/8)

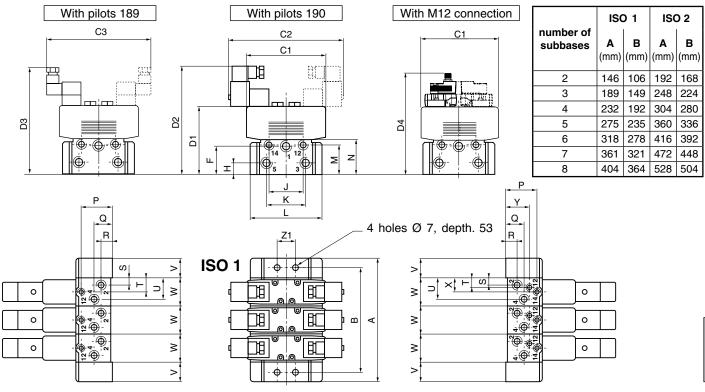
SPECIFICATIONS

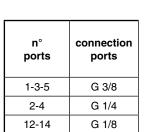
designation	type	catalogue number	E (mm)	5
set of transfer plate and connections for joinable metallic subbases with side port	ISO 1 - ISO 2	35500390	30	End plate ISO 1 Valves and subbases ISO 1 TRANSFERT MODULE Valves and subbases ISO 2 End plate ISO 2

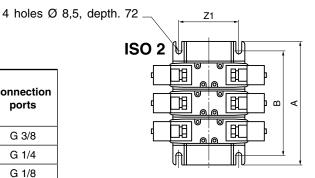
ACCESSORIES (see page 22)

DIMENSIONS (mm), WEIGHT (kg)

SPOOL VALVES ON **METALLIC JOINABLE** SUBBASES **Side** ports - **ISO 1-2**





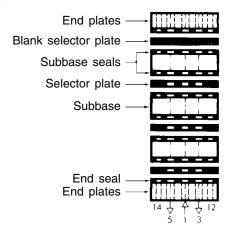


		weight (1)										
number of subbases		ISO 1		ISO 2								
	189	190	M12	189	190	M12						
2	3,66	3,90	3,40	5,196	5,436	4,966						
3	4,86	5,22	4,47	6,374	6,734	6,074						
4	6,06	6,54	5,54	7,652	8,132	7,252						
5	7,26	7,86	6,61	8,930	9,530	8,430						
6	8,46	9,18	7,68	10,208	10,928	9,608						
7	9,66	10,50	8,75	11,888	12,728	11,188						
8	10,86	11,82	9,82	13,166	14,126	12,366						

(1) Spool valves with 2 pilots 189 + subbases + end plates Pilot weight: 1 x 189 = 0,120 kg - 1 x 190 = 0,180 kg M12 ISO1 1 x M12 = 0,058 kg - 2 x M12 = 0,110 kg M12 ISO2 1 x M12 = 0,073 kg - 2 x M12 = 0,140 kg

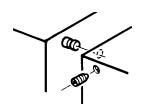
		C1	C2	СЗ	D1	D2	D3	D4	F	Н	J	K	L	М	N	Р	Q	R	S	T	U	٧	W	X	Υ	Z 1
I	SO 1	122	178	176	95	168	163	148	42	16	53	59	106	44	53	44	13	13	11	17,5	32	30	43	26	30	28
IS	SO 2	150	198	171	126	197	191	185	62	30	62	62	126	72	80	68	36	17	15	18	41	40	58	38	64	104

ASSEMBLY OF SUBBASES



CONNECTION

End plates and subbases are connected together using a system of diabolos and grub screws.



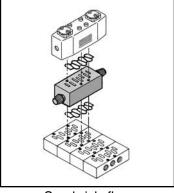
00305GB-2008/R01
Availability, design and specifications are subject to change

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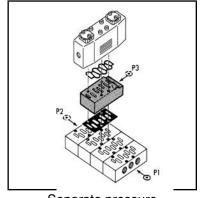
Pneutrol International Limited UK Office 5 Caulside Drive, Antrim, BT41 2DU United Kingdom TEL: +44 (0) 289448 1808 www.valves-direct.com sales@pneutrol.com European Office Unit 6, Saint Anthony's Business Park, Ballymount Road, D22 VW95 Ireland TEL: +353 (0) 1 4373653

SPECIFICATIONS

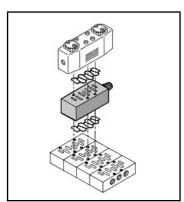
design	ation		symbol	cata	alogue num	ber	
uesign			Symbol	ISO 1	ISO 2	ISO 3	
Blanking plate to cover interface This plate allows later assembly wi		alve.	Plate 3 0 0 2 Subbase	88135517	88135518	88135519	
Flow regulator sandwich This unit, fitted between the subba 2 flow regulators in the exhaust po Flow regulators can be used to co cylinder. Weights: ISO 1:0,230 kg - ISO 2	rts 3 and 5. ntrol the spe	eed of a double acting	Spool valve 28 4 5 1 3 2 Subbase	34600476	34600477	-	
Separate pressure supply modular This unit, fitted between the subbatindividual valve to be supplied with the main manifold. The pressure fellocked by adding this plate. Pressure supply port P: G 1/4	se and the v a different p	oressure from that in	Spool valve E MODULE Subbase	35500118 - MODULE			
Sandwich pressure regulator module	on port 1	regulator flow at 6 bar : ISO 1 : 550 l/min weight: 0,387 kg	Spool valve D	34600474	-	-	
This module, which is placed between a subbase and a spool	(supply pressure)	ISO 2: 1000 I/min weight: 1,680 kg ISO 3: 2000 I/min weight: 2,210 kg	MODULE 6 Suppase 8 Module 4 Page 14 Pa	34600471	-	-	
valve, is designed to regulate the pressure and the port according to: - Adjustable pressure: 0.5 to 10 bar - G1/8 (A) port on top for pressure gauge connection	on port 2	regulator flow at 6 bar : ISO 1 : 850 l/min weight: 0,387 kg ISO 2 : 1400 l/min weight: 1,680 kg ISO 3 : 2700 l/min weight: 2,210 kg	4 § ① 3 ②	34600458	-	-	
- Locking adjustment knob of "Pull-Turn-Push" type	on port 4	regulator flow at 6 bar : ISO 1 : 850 l/min weight: 0,387 kg ISO 2 : 1400 l/min weight: 1,680 kg ISO 3 : 2700 l/min weight: 2,210 kg	4 5 1 3 2	34600459	-	-	
ISO 1 : E=45 mm L=146 mm ISO 2 : E=60 mm L=180 mm ISO 3 : E=67 mm L=208 mm	m weight: 2,400 kg		d (3) (3) (2)	34600460	-	-	
Gauge Ø40 (0 - 12 bar)			3430001				
G1/8 bracket connection for p	ressure ga	auge mounting			88100617		



Sandwich flow regulator module



Separate pressure supply module



Sandwich pressure regulator module