SINGLE SUBBASES

with **side** ports / **bottom** ports

METALLIC JOINABLE SUBBASES



Series 355

ISO sizes 1-2-3

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	3550006 ⁻
	side		G 1/8	G 3/8	G 3/8	G 3/8		3550038
single	- 70	tapped	G 1/8	G 3/8	G 3/8	G 3/8	ISO 2	3550056
subbases	4		G 1/8	G 1/2	G 1/2	G 1/2	130 2	3550056
			G 1/8	G 1/2	G 1/2	G 1/2	ISO 3	3550017
ISO 5599/1			G 1/8	G 3/4	G 3/4	G 3/4	130 3	3550019
AFNOR NFE 49080	bottom	tapped	G 1/8	G 1/4	G 1/4	G 1/4	ISO 1	3550007
		tappeu	G 1/8	G 3/8	G 3/8	G 3/8	ISO 2	3550008
		with couplers	Ø 4 mm	for OD	Ø 8 mm	G 1/4	ISO 1	3550006
		subbase	G 1/8	-	G 1/4	-	100.4	3550016
		set of 2 end plates	-	G 3/8	-	G 3/8	ISO 1	3550016
joinable	bottom	subbase	G 1/8	-	G 3/8	-	100.0	3550016
subbases	Dottom	set of 2 end plates	-	G 1/2	-	G 1/2	ISO 2	3550017
	100	subbase	G 1/8		G 1/2		100.2	3550017
ISO 5599/1	.000	set of 2 end plates	-	G 1	-	G 1	ISO 3	3550017
VDMA 24345		act of 2 plugs on main	orosouro (1) s	and ovhoust	o (2 E)	•	ISO 1	8813552
		set of 3 plugs on main pressure (1) and exhausts (3-5) for 2 different pressure supplies (see A)						8813552
		ioi 2 dilicioni piessure s	Jupplies (300	, ,,			ISO 3	8813552

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.

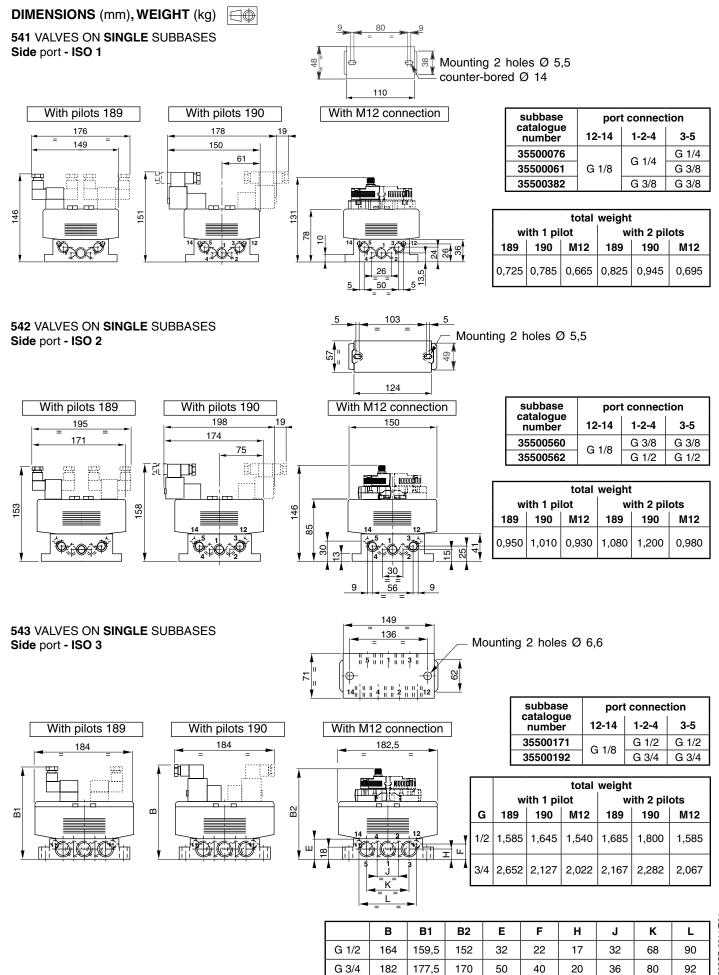


SET OF TRANSFER PLATES AND CONNECTIONS

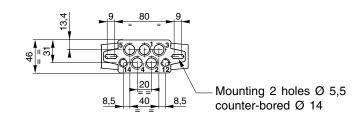
- Set of transfer plates and connections to put together different sizes of ISO <u>VDMA</u> joinable subbases : ISO 1 ISO 2, set including :
 - A transfer module to allow connection of ISO-VDMA joinable subbases through ISO 1 and ISO 2 **bottom** ports, and connection of supply pressure (1) and exhausts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

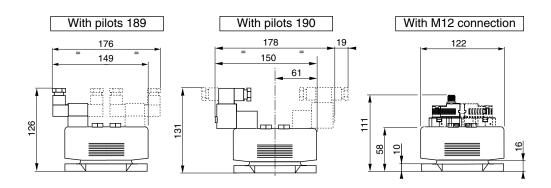
ISO 1 - ISO 3 set including the same parts as mentionned above, but adapted to the connection of ISO 1 and ISO 3

	description	type	catalogue number	E (mm)	5 \(\tau \) 3 1 1 1 1
e. All rignts reserved.	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
criarige wirrout notice	with bottom ports	ISO 1 - ISO 3	35500194	32	Valves and subbases ISO 2 End plate ISO 2



DIMENSIONS (mm), WEIGHT (kg) 541 VALVES ON SINGLE SUBBASES Bottom port - ISO 1

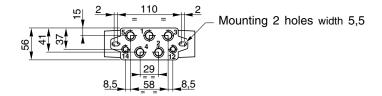


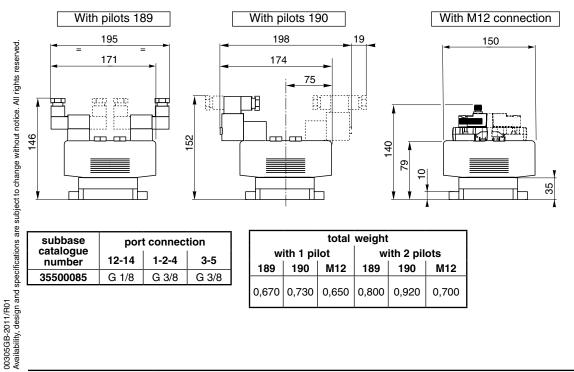


subbase	port connection				
catalogue number	12-14	1-2-4	3-5		
35500077	G 1/8	G 1/4	G 1/4		
35500069	Instant	G 1/4			
35500069	Ø 4 OD	Ø8 OD	G 1/4		

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

542 VALVES ON SINGLE SUBBASES Bottom port - ISO 2





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

	total weight										
w	ith 1 pi		w	ith 2 pil	ots						
189	189 190 M12			190	M12						
0,670	0,730	0,650	0,800	0,920	0,700						

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



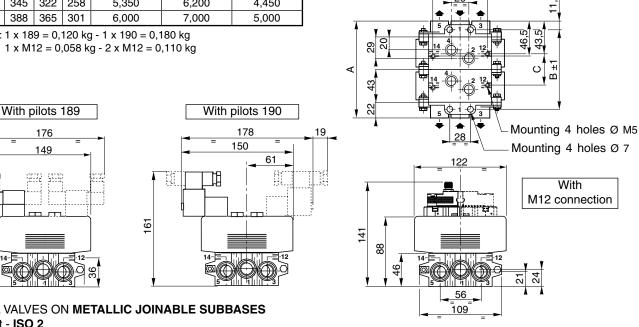
541 SPOOL VALVES ON METALLIC JOINABLE SUBBASES Bottom port - ISO 1

				weight valves with 2 pilots + subbases + end plates		
number of subbases	A	B±1	С			
				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 x 189 = 0,120 kg - 1 x 190 = 0,180 kg $1 \times M12 = 0.058 \text{ kg} - 2 \times M12 = 0.110 \text{ kg}$

	code	ро	rt connecti	on
	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)



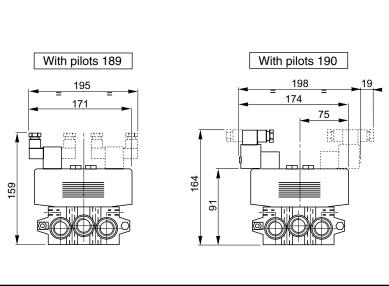
542 SPOOL VALVES ON METALLIC JOINABLE SUBBASES Bottom port - ISO 2

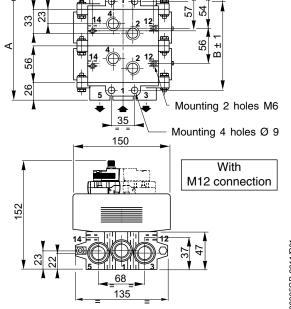
number of subbases	А	B±1	С	weight valves with 2 pilots + subbases + end plates		
				pilot 189	M12	
3	220	193	112	3,600	3,900	3,240
4	276	249	168	4,600	5,100	4,220
5	332	305	224	5,700	6,300	5,200
6	388	361	280	6,800	7,500	6,180
7	444	417	336	7,800	8,700	7,160
8	500	473	392	9,000	9,900	8,140

Pilot weight: $1 \times 189 = 0,120 \text{ kg} - 1 \times 190 = 0,180 \text{ kg}$ $1 \times M12 = 0.073 \text{ kg} - 2 \times M12 = 0.140 \text{ kg}$

	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

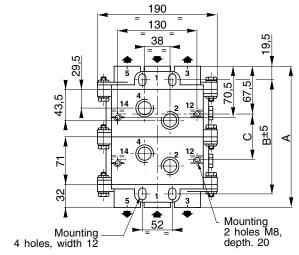
Bottom port - ISO 3

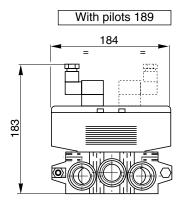
	catalogue	ро	port connection		
	number	12-14	2-4	1-3-5	
subbase	35500173	G 1/8	G 1/2	-	
2 end plates	35500174	-	-	G 1	

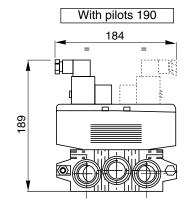
Set of end plates supplied with 3 plugs G 3/8 (for 1-3-5)

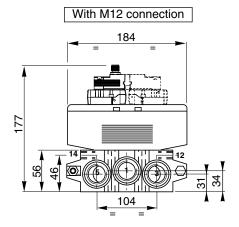
				weight valves with 2 pilots + subbases + end plates		
number of subbases	A	B±1	С			
				pilot 189	pilot 190	M12
2	206	167	71	4,140	4,260	3,820
3	277	238	142	5,740	5,860	5,200
4	348	309	213	7,340	7,460	6,580
5	419	380	284	8,940	9,060	7,960
6	490	451	355	10,540	10,660	9,120
7	561	522	426	12,140	12,140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

Pilots weight : 1 x 189 = 0,120 kg - 1 x 190 = 0,180 kg1 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

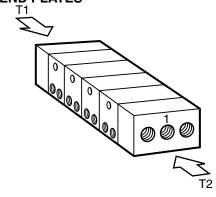
The joinable subbases with side ports offer many advantages:

- 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.

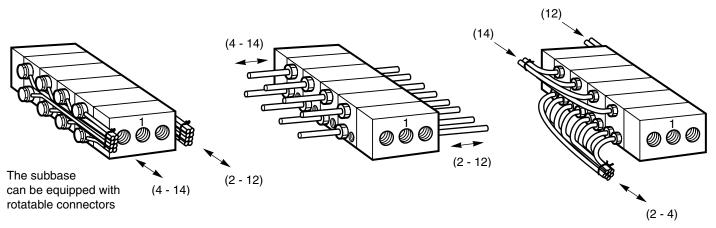
These subbases allow piping to the outlet ports (2-4) and pilot port (14) on the left side; to the outlet port (2) and pilot port (12) on the right side.

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

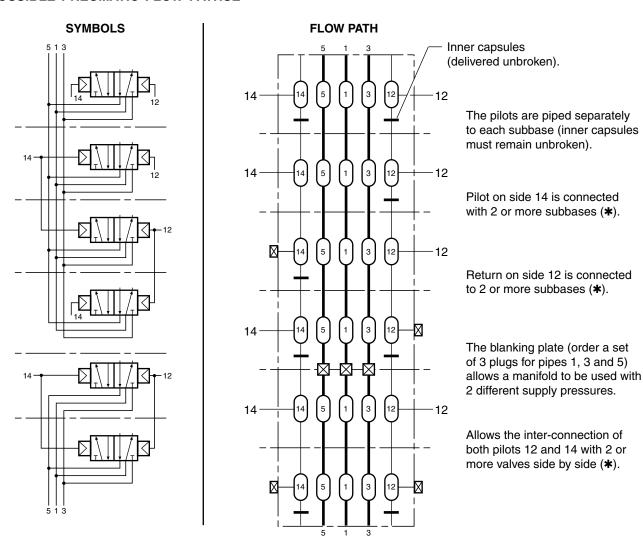


SAMPLE PIPING ARRANGEMENTS



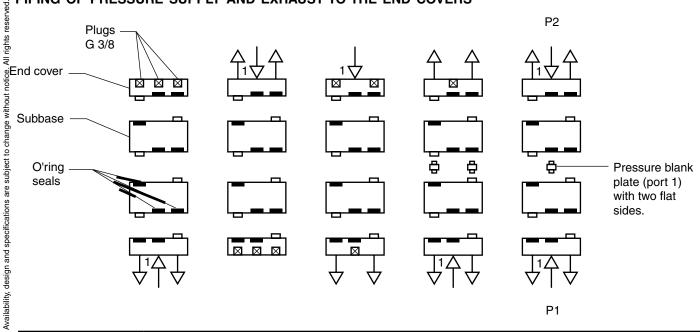
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POSSIBLE PNEUMATIC FLOW PATHSE

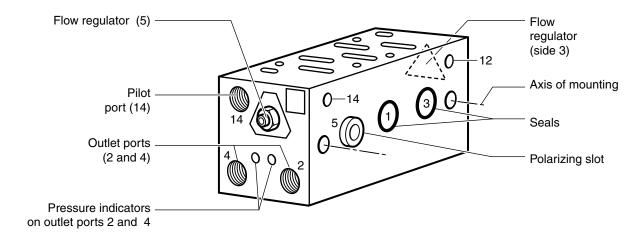


- (*) Ports 12 and 14 are connected by side orifices.
 - Punch the inner capsule (with a drift punch) out of the pneumatic inter-connection between subbases to connect pilots with 2 or more subbases: 1) Insert drift punch into the opposite side of raising 2) With G 1/8 plugs, plug the other port(s) of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

PIPING OF PRESSURE SUPPLY AND EXHAUST TO THE END COVERS

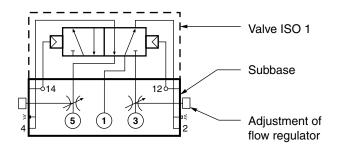


JOINABLE SUBBASE WITH BUILT-IN FLOW REGULATORS AND PRESSURE INDICATORS

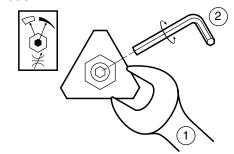


FLOW REGULATORS

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 that		port connection					
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	35500155			
	2 cylindrical plugs (1 Ø 8 + 1 Ø 4 mm) 2 assembly posts	-	ODØ8	ODØ8 ODØ4				
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 fittings for flexible tubes		05500450			
	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			

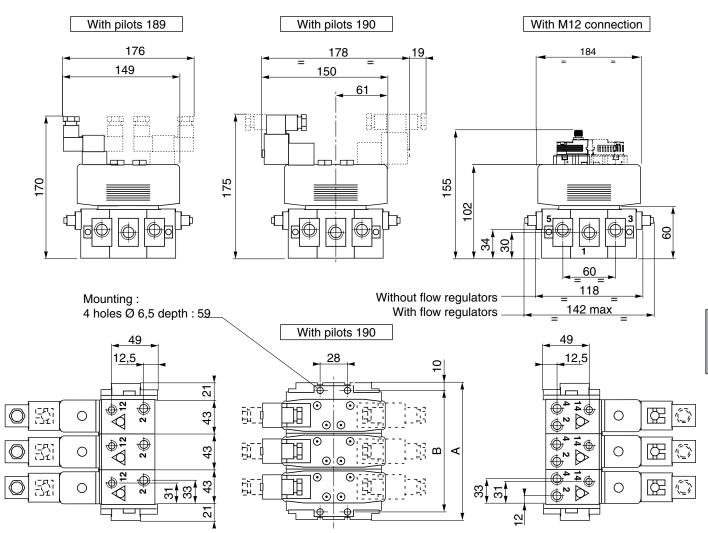
NOTE - number maximum of subbases = 10

ACCESSORIES (see page 22)

DIMENSIONS (mm), WEIGHT (kg)

SPOOL VALVES ON POLYAMIDE JOINABLE SUBBASES
Side port - ISO 1

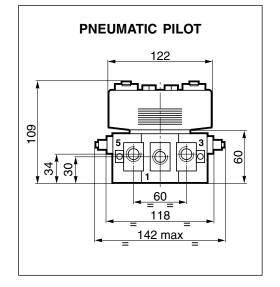
ELECTRIC PILOT



					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°	ŀ	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



METALLIC JOINABLE SUBBASES

side ports G 1/4



5/2-5/3

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.

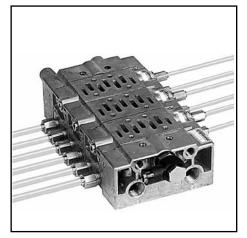
CONNECTION POSSIBILITIES

These joinable subbases with side ports offer many advantages:

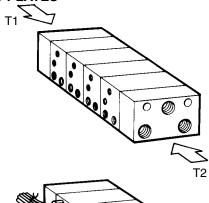
- Various piping possibilities due to a large number of port connections.
- Simple assembly in panels due to an improved accessibility to the ports.
- Simple maintenance.
- A reduction in costs due to the removal of pivoting mounting chassis and a reduction in the number of fittings.
- Possibility of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

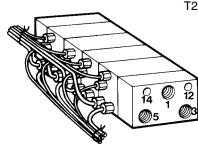
These bases allow piping to outlet ports (2, 4) and pilot ports (12, 14) on both side faces, as shown below.

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.

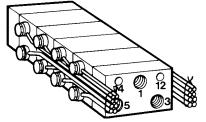


CONNECTION THROUGH THE END PLATES

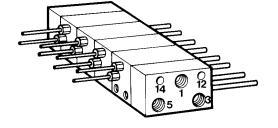




SAMPLE PIPING ARRANGEMENTS

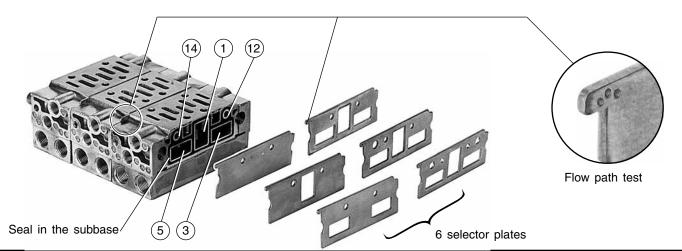


This arrangements allows the use of rotatable fitting



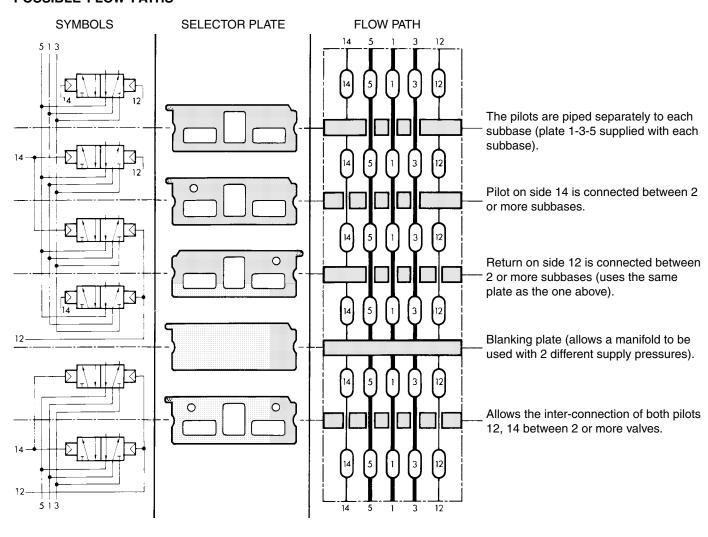
POSSIBLE FLOW PATHS

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.



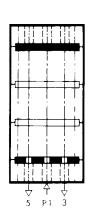
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POSSIBLE FLOW PATHS



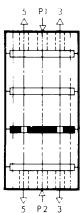
PIPING OF SUPPLY AND EXHAUSTS TO THE END COVERS

STANDARD ASSEMBLY Supply and exhausts to 1 side plate.



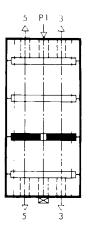
Selector plates supplied as standard allows the assembly as shown above.

Assembly with 2 different pressures and with the exhaust piped to both end plates.



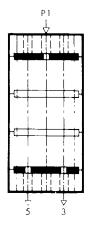
For this assembly a selector plate with connections between 3, 5 is necessary.

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.

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		code		
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	ports 1 - 3 - 5)						88135502	88135507
selector plate (connects	selector plate (connects ports 1 - 3 - 5 and 1 pilot 12 or 14)							
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)

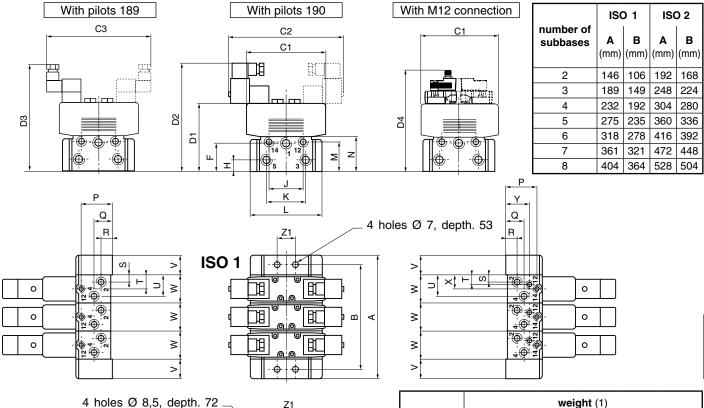
SPECIFICATIONS

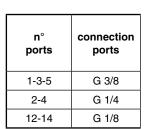
designation	type	catalogue number	E (mm)	5 ♥ 3 ↑ ↓ ↑
set of transfer plate and connections for joinable metallic subbases with side port	ISO 1 - ISO 2	35500390	30	End plate ISO 1 Valves and subbases ISO 1 TRANSFERT MODULE Valves and subbases ISO 2 End plate ISO 2

ACCESSORIES (see page 22)

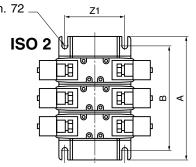
DIMENSIONS (mm), WEIGHT (kg)

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



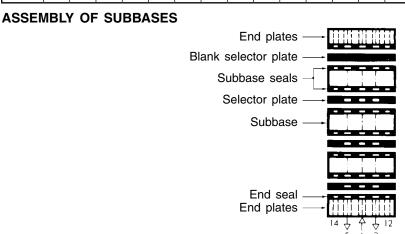


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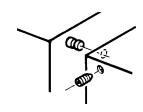
	weight (1)											
number of subbases		ISO 1		ISO 2								
	189	190	M12	189	190	M12						
2	3,66	3,90	3,40	5,196	5,436	4,966						
3	4,86	5,22	4,47	6,374	6,734	6,074						
4	6,06	6,54	5,54	7,652	8,132	7,252						
5	7,26	7,86	6,61	8,930	9,530	8,430						
6	8,46	9,18	7,68	10,208	10,928	9,608						
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						

gnts		C1	C2	СЗ	D1	D2	D3	D4	F	Н	J	K	L	M	N	Р	Q	R	S	Т	U	V	w	Х	Υ	Z 1
All	ISO 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
OIICE.	ISO 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



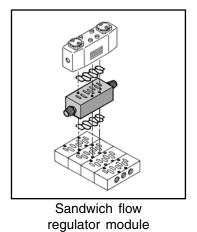
CONNECTION

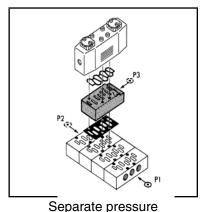
End plates and subbases are connected together using a system of diabolos and grub screws.



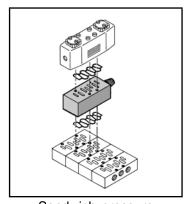
SPECIFICATIONS

design	otion		symbol	cat	catalogue number				
uesign			Symbol	ISO 1	ISO 2	ISO 3			
Blanking plate to cover interface This plate allows later assembly wi		alve.	Plate 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 D MODULE 3 3 3 Subbase	34600476	34600477	-			
Separate pressure supply moduly This unit, fitted between the subbatindividual valve to be supplied with the main manifold. The pressure feel blocked by adding this plate. Pressure supply port P: G 1/4	se and the v a different p	pressure from that in	Spool valve E MODULE Subbase	35500118	-				
Sandwich pressure regulator module	on port 1	regulator flow at 6 bar : ISO 1 : 550 l/min weight: 0,387 kg	Spool valve	34600474	-	-			
This module, which is placed between a subbase and a spool	(supply pressure)	ISO 2 : 1000 l/min weight: 1,680 kg ISO 3 : 2000 l/min weight: 2,210 kg	E MODULE Subbase	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 5 0 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		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		regulator flow at 6 bar: ISO 1:850 l/min weight: 0,577 kg ISO 2:1400 l/min weight: 2,400 kg ISO 3:2700 l/min weight: 3,200 kg		34600460	-	-			
Gauge Ø40 (0 - 12 bar)			34300014						
G1/8 bracket connection for p	ressure ga	auge mounting		88100617					





Separate pressure supply module



Sandwich pressure regulator module