

MULTIFUNCTION SPOOL VALVES

air operated

ISO 5599/1 subbase mounted body

5/2-5/3

Series

541-542-543

Type

ISO sizes 1-2-3

FEATURES

- Reliability: long service life of 30 million cycles
- Choice of internal/external supply with selector seals (vacuum use to -0,950 bar)
- Modular assembly with joinable subbases
- Subbases with side or bottom ports

GENERAL

Fluid

Operating pressure

Pilot pressure

Ambient temperature

Flow (Qv at 6 bar)

Flow coefficients

- conforming to ISO 6358

sonic conductance

absolute static pressure

- conforming to NF E29312

(l/min)

Life

Base

Subbase

ISO 1	ISO 2	ISO 3
Air or neutral gas, filtered, lubricated or not		
-0,950 to +12 bar		
+3 to +10 bar (with internal differential supply)		
Can be used with vacuum -0,950 bar max.		
See specifications table		
-10°C to +60°C		
1400 l/min (ANR)	2800 l/min (ANR)	4200 l/min (ANR)
C = 5,8 x 10 ⁻⁸ m ³ /s.Pa	C = 1,136 x 10 ⁻⁷ m ³ /s.Pa	C = 16 x 10 ⁻⁸ m ³ /s.Pa
b = 0,28	b = 0,22	b = 0,34
Kv = 20	Kv = 37,5	Kv = 60
30 millions of cycles		15 millions of cycles
ISO 5599/1 sizes 1-2-3 - AFNOR NF E49080		
Single subbase ISO/AFNOR NF E49085		
Joinable subbase ISO/VDMA 24345		
Joinable subbase with integrated functions		



CONSTRUCTION

Cover

Pilot and return assembly

Seals

Internal parts

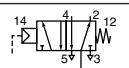
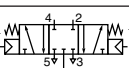
Painted steel

POM (polyacetal)

NBR (nitrile) and PUR (polyurethane)

POM (polyacetal), light alloy

SPECIFICATIONS

function symbol	operators		size	pilot pressure (bar)		catalogue number
	pilot (14)	return (12)		min.	max.	
5/2 	air operated	spring	ISO 1 ISO 2 ISO 3	3	12	54101017 54202017 54301017
	air operated	differential	ISO 1 ISO 2 ISO 3	3	12	54101018 54202018 54301018
	air operated	air	ISO 1 ISO 2 ISO 3	1,5	12	54101019 54202019 54301019
5/3 	air operated pressure held W1		ISO 1 ISO 2 ISO 3	3	12	54101020 54202020 54301020
	air operated pressure applied W2		ISO 1 ISO 2 ISO 3	3	12	54101022 54202022 54301022
	air operated pressure release W3		ISO 1 ISO 2 ISO 3	3	12	54101021 54202021 54301021

OPTIONS

- Equipment with manual testers so that the spool position can be checked
- Equipment for use in potentially **explosive atmospheres** caused by dusts or gases (ATEX Directive 2014/34/EU)

zones	classification 	ATEX option catalogue number		
		ISO 1	ISO 2	ISO 3
2-22	II 3GD c T 60°C T 85°C (T6)	612027	-	612029
1-21	II 2GD c IIC T 60°C T85°C (T6)	612030	612090	612032

SUBBASES AND ACCESSORIES

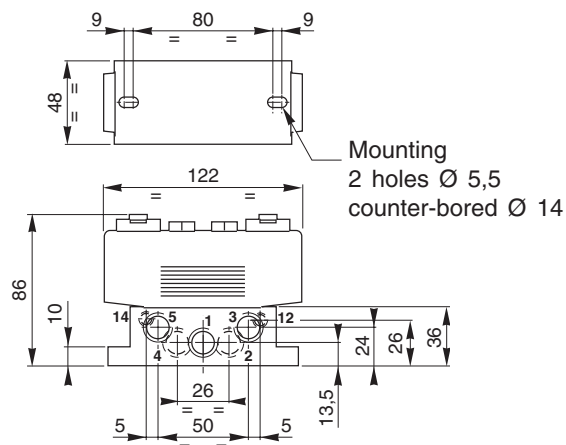
All leaflets are available on: www.asco.com

Air Operated (5/2 - 5/3) - 27

DIMENSIONS (mm), WEIGHT (kg)

VALVES ON SINGLE SUBBASES

Side port - ISO 1

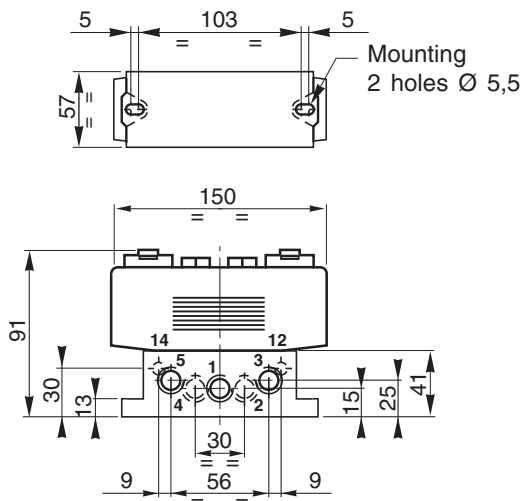


subbase catalogue number	port orifices		
	12-14	1-2-4	3-5
35500076	G 1/8	G 1/4	G 1/4
35500061			G 3/8
35500382		G 3/8	G 3/8

Total weight : 0,880

VALVES ON SINGLE SUBBASES

Side port - ISO 2

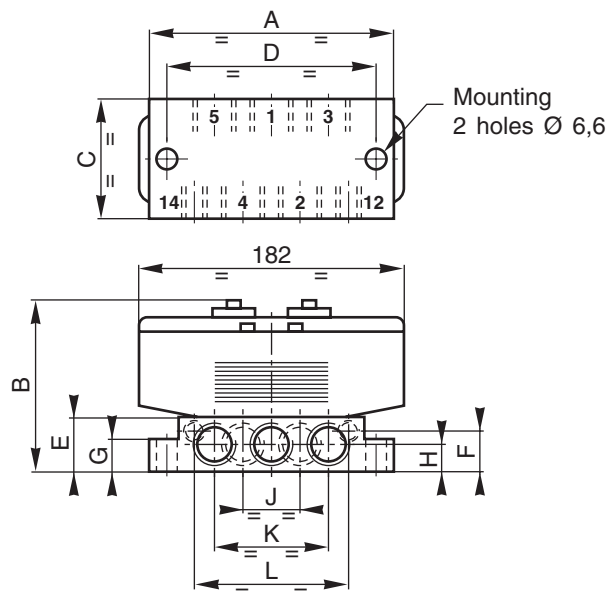


subbase catalogue number	port orifices		
	12-14	1-2-4	3-5
35500560	G 1/8	G 3/8	G 3/8
35500562		G 1/2	G 1/2

Total weight : 1,200

VALVES ON SINGLE SUBBASES

Side port - ISO 3



subbase catalogue number	port orifices		
	12-14	1-2-4	3-5
35500171	G 1/8	G 1/2	G 1/2
35500192		G 3/4	G 3/4

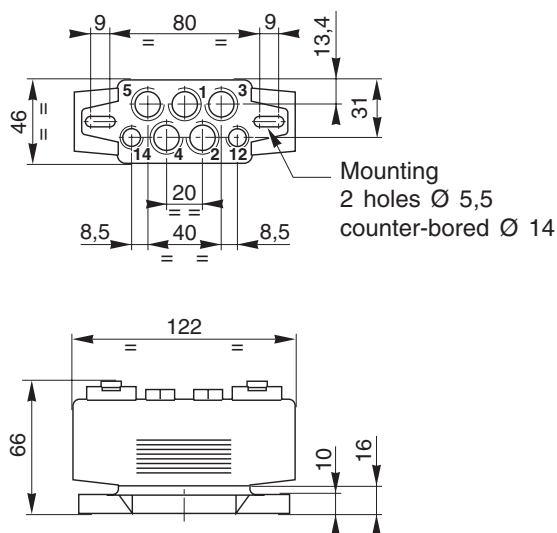
Total weight : 1,400

dimension	subbase	
	G 1/2	G 3/4
A	149	149
B	99	117
C	71	71
D	136	136
E	32	50
F	22	40
G	18	18
H	17	20
J	32	36
K	68	80
L	90	92

DIMENSIONS (mm), WEIGHT (kg)

VALVES ON SINGLE SUBBASES

Bottom port - ISO 1

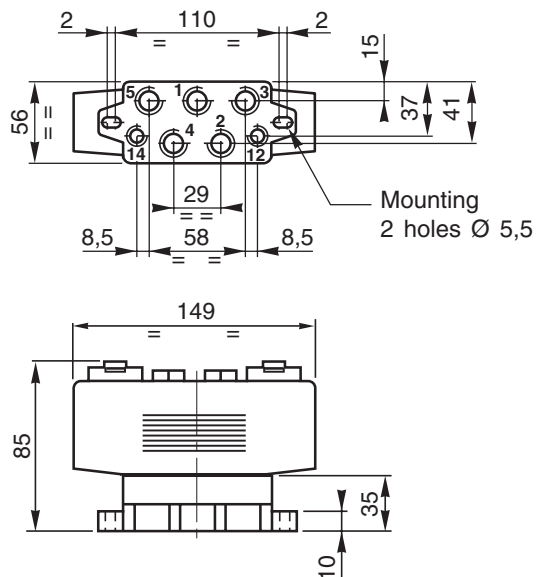


subbase catalogue number	port orifices		
	12-14	1-2-4	3-5
35500077	G 1/8	G 1/4	G 1/4
35500069	instant fittings		G 1/4
	Ø 4 OD	Ø 8 OD	

Total weight : 0,500

VALVES ON SINGLE SUBBASES

Bottom port - ISO 2

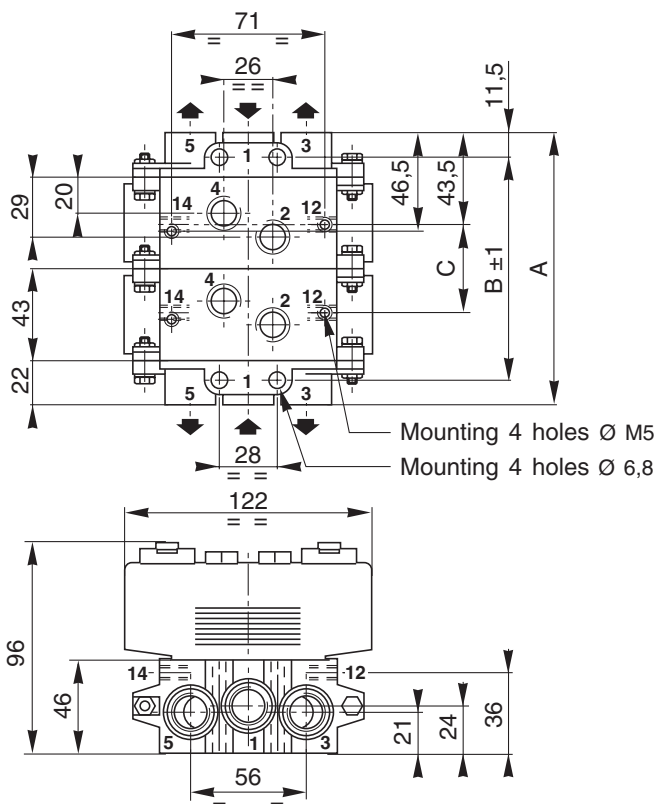


subbase catalogue number	port orifices		
	12-14	1-2-4	3-5
35500085	G 1/8	G 3/8	G 3/8

Total weight : 1,150

SPOOL VALVES ON METALLIC JOINABLE SUBBASES

Bottom port - ISO 1



	catalogue number	port orifices		
		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)

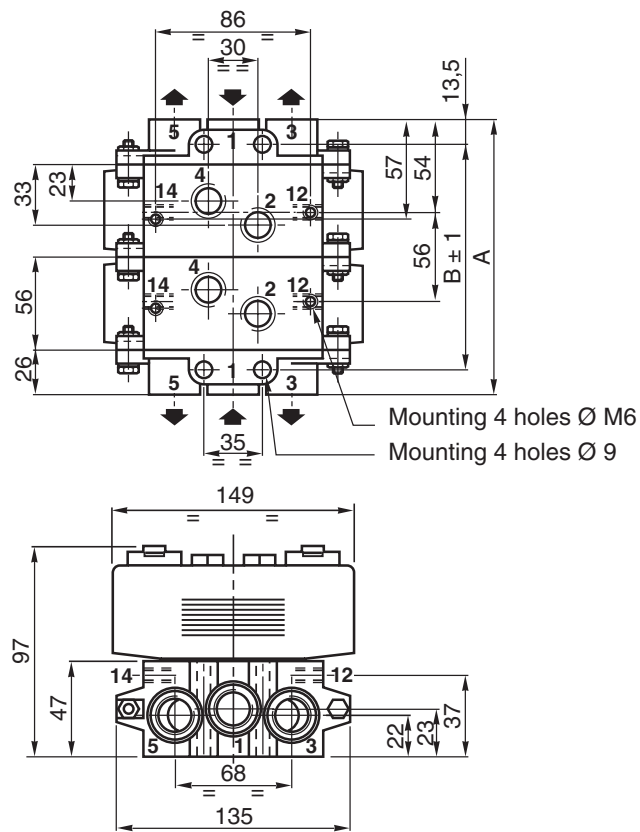
number of subbases	A	B±1	C	weight
3	173	150	86	2,150
4	216	193	129	2,800
5	259	236	172	3,450
6	302	279	215	4,100
7	345	322	258	4,750
8	388	365	301	5,400

Weight : spool valves + subbases + end plates

DIMENSIONS (mm), WEIGHT (kg)

SPOOL VALVES ON METALLIC JOINABLE SUBBASES

Bottom port - ISO 2



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

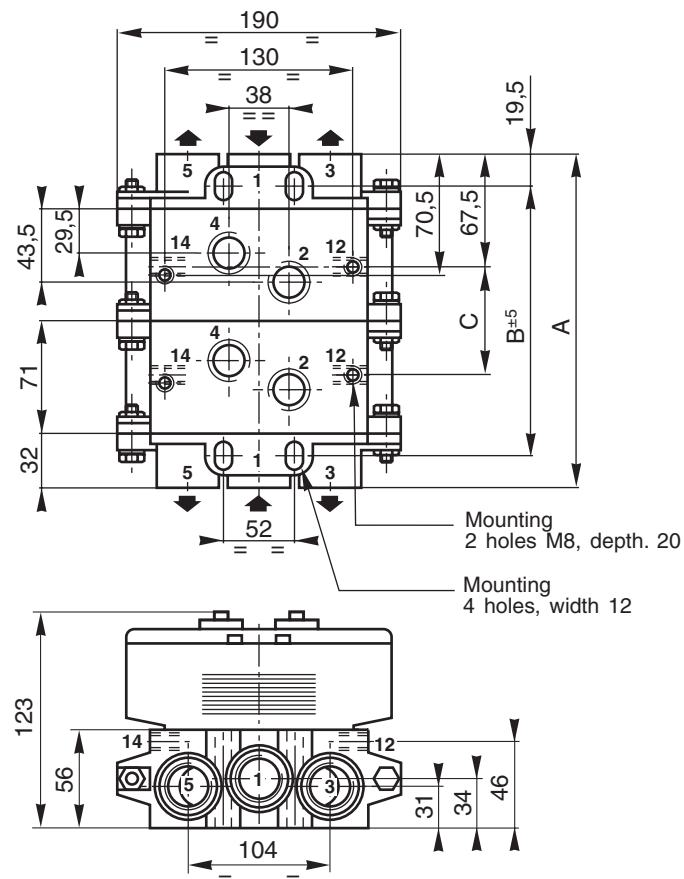
Set of end plates supplied with 3 plugs G 1/2 (for 1-3-5)

number of subbases	A	B±1	weight
3	220	193	4,500
4	276	249	6,100
5	332	305	7,700
6	388	361	9,300
7	444	417	9,900
8	500	473	10,500

Weight : spool valves + subbases + end plates

SPOOL VALVES ON METALLIC JOINABLE SUBBASES

Bottom port - ISO 3



	catalogue number	port orifices		
		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 1 (for 1-3-5)

number of subbases	A	B±1	C	weight
2	206	167	71	3,900
3	277	238	142	5,500
4	348	309	213	7,100
5	419	380	284	8,700
6	490	451	355	10,300
7	561	522	426	11,900

Weight : spool valves + subbases + end plates



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