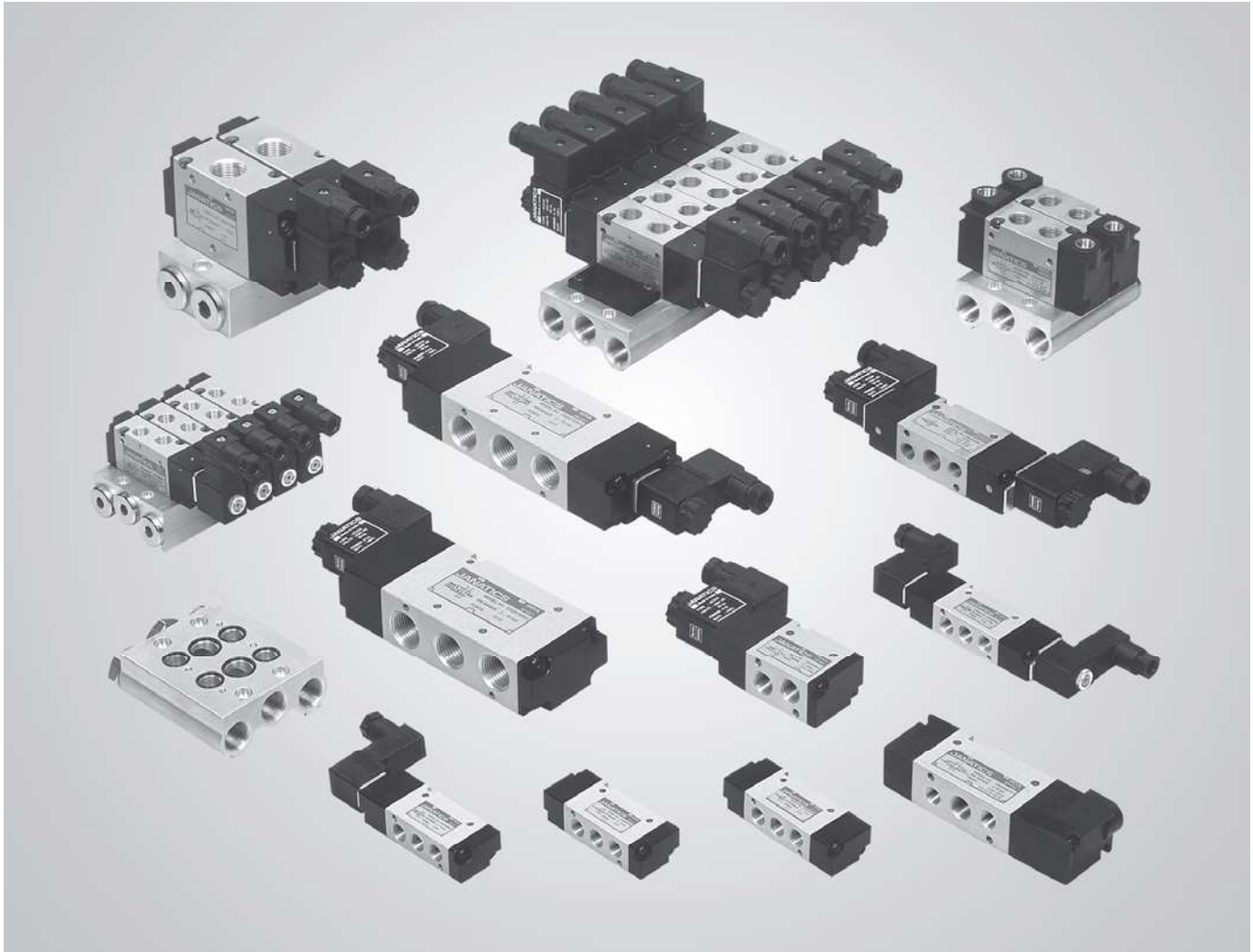


Compact Valve

Series : DS2

Sizes : G1/8, G1/4, G1/2



- ❑ 3/2, 5/2, 5/3 valves
- ❑ Suitable for 8 bar - G1/8, 10 bar - G1/4, G1/2 air pressure
- ❑ External air pilot and Solenoid pilot operated versions
- ❑ Solenoid coils suitable for continuous duty cycle
- ❑ Available coil voltages : AC - 220V, 110V, 48V, 24V
DC - 110V, 48V, 24V, 12V

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

COMPACT VALVE - G1/2

Features

- ☐ Suitable for manifold mounting
- ☐ Mounting provision for individual unit
- ☐ Compact size
- ☐ Manual override
- ☐ Wide range of manifolds available
- ☐ Wide range of coil voltages

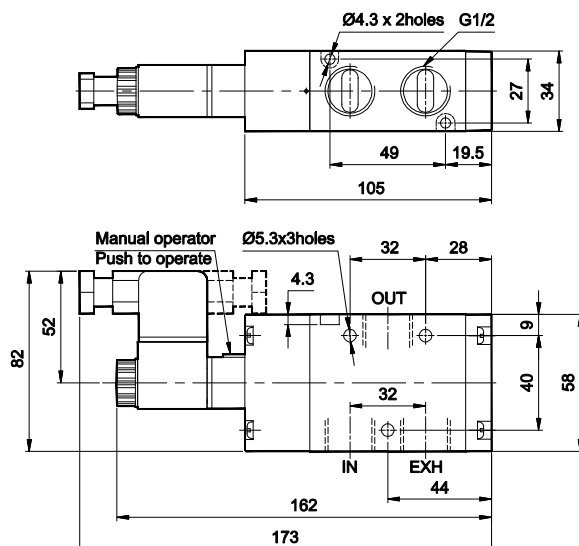


Technical Specifications

Model	DS2
Type	3/2, 5/2, 5/3
Design	Spool type
Port Size	Inlet, Outlet, Exhaust - G1/2, External pilot - G1/8
Medium	Compressed air - Dry, filtered, lubricated
Working Pressure range	2 - 10 bar
External pilot pressure (ER model)	2 - 4 bar
Recommended oil for lubrication	ISO VG32 (Servo system 32)
Ambient / Medium temperature	5° - 60° C
Flow @	3500 lts/min
Materials of construction	Aluminium, Nitrile, Brass, Acetal, PBT, Zinc
Electrical	
Coil width	22 mm
Voltage (V) ± 10%	AC (50 Hz) - 24, 48, 110, 220
	DC - 12, 24, 48, 110
Power consumption	AC - 6 VA, DC - 5 W
Duty cycle	Continuous
Class of insulation	Class F
Type of coil protection	IP65

@ Inlet pressure 6 bar, and pressure drop 1 bar

3 / 2 Single Solenoid pilot operated valve with spring return



1 - Inlet, 2 - Outlet, 3 - Exhaust

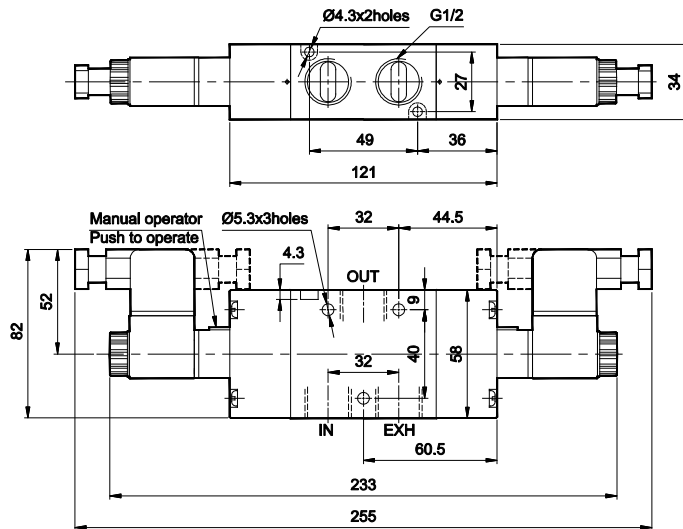
Ordering No*	DS237SR63	DS247SR63
Type	Normally open	Normally closed
Symbol		

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

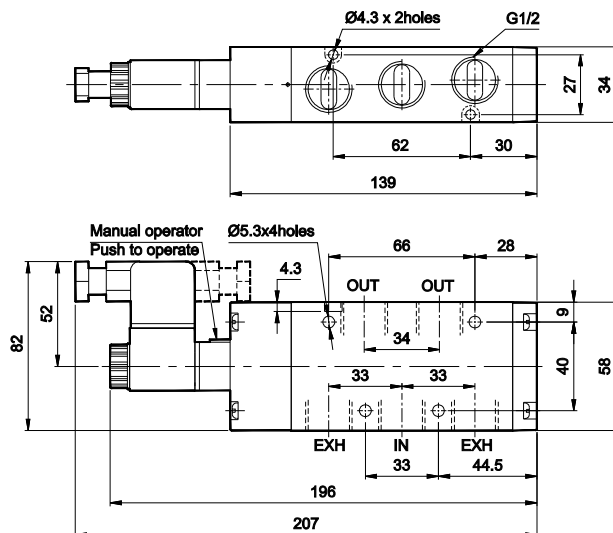
3 / 2 Double solenoid pilot operated valve



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No*	DS237SS63	DS247SS63
Type	Normally open	Normally closed
Symbol		

5 / 2 Single solenoid pilot operated valve with spring return



1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust

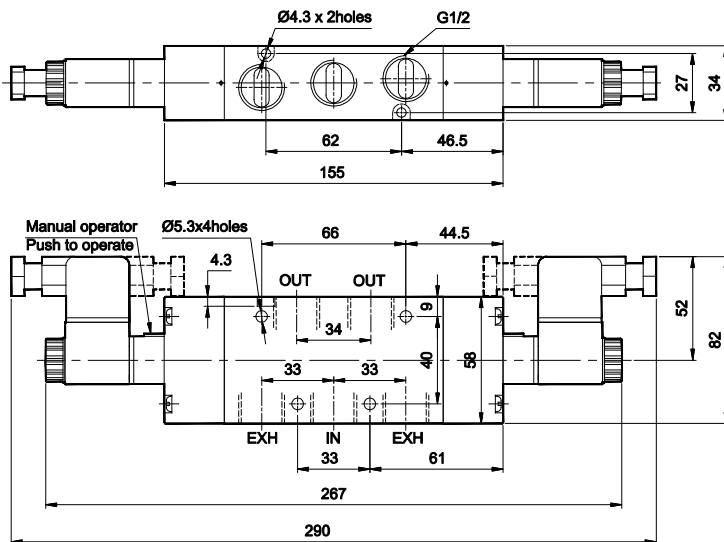
Ordering No*	DS257SR63
Symbol	

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

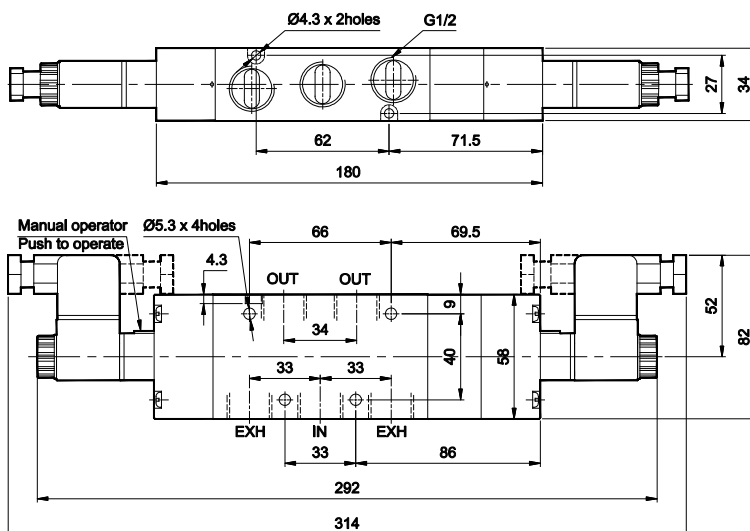
5 / 2 Double solenoid pilot operated valve



1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust

Ordering No*	DS257SS63
Symbol	

5 / 3 Double solenoid pilot operated valve with spring centered



1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust

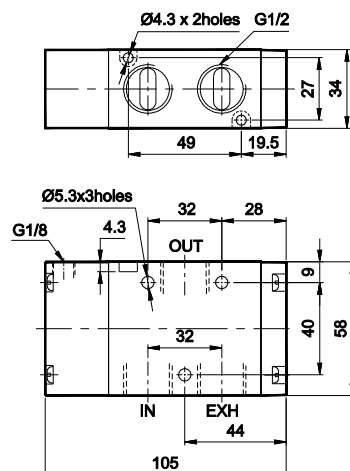
Ordering No*	DS267SC63	DS277SC63	DS287SC63
Type	Blocked	Exhausted	Energised
Symbol			

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

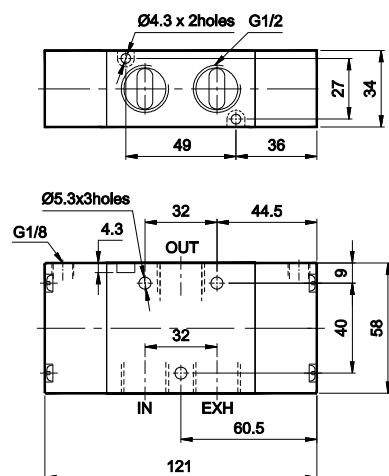
3 / 2 Single External pilot operated valve with spring return



1 - Inlet, 2 - Outlet, 3 - Exhaust, 12, 10 - External pilot

Ordering No	DS237ER63	DS247ER63
Type	Normally open	Normally closed
Symbol		

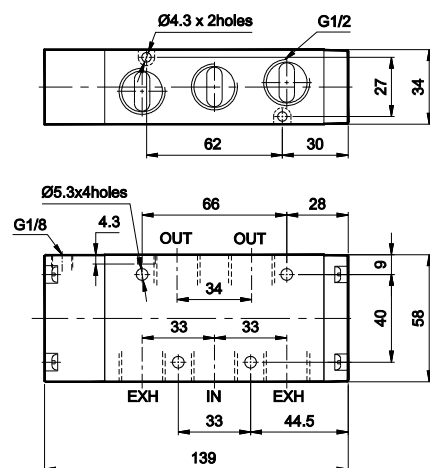
3 / 2 Double External pilot operated valve



1 - Inlet, 2 - Outlet, 3 - Exhaust, 12, 10 - External pilot

Ordering No	DS237EE63	DS247EE63
Type	Normally open	Normally closed
Symbol		

5 / 2 Single External pilot operated valve with spring return



1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust, 14 - External pilot

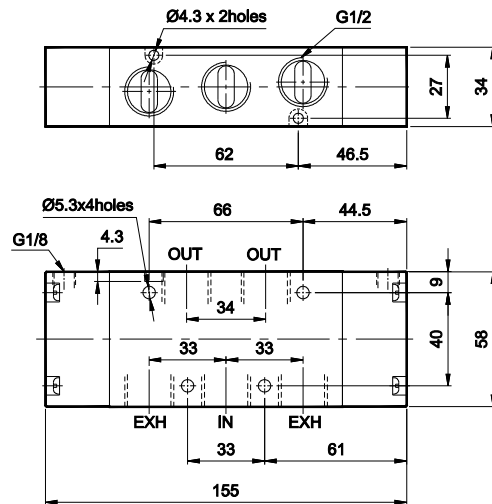
Ordering No	DS257ER63
Symbol	

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

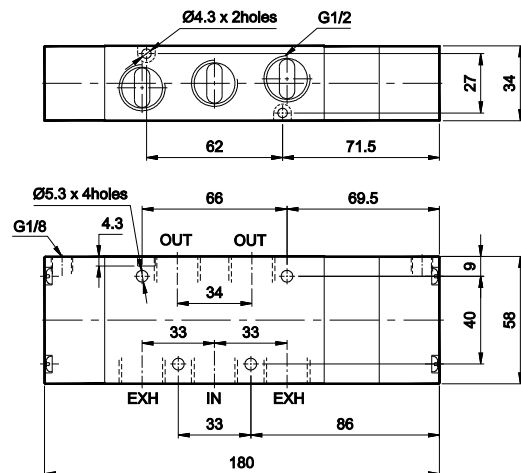
5 / 2 Double External pilot operated valve



1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust, 14,12 - External pilot

Ordering No	DS257EE63
Symbol	

5 / 3 Double External pilot operated valve with spring centered



1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust, 14,12 - External pilot

Ordering No	DS267EC63	DS277EC63	DS287EC63
Type	Blocked	Exhausted	Energised
Symbol			

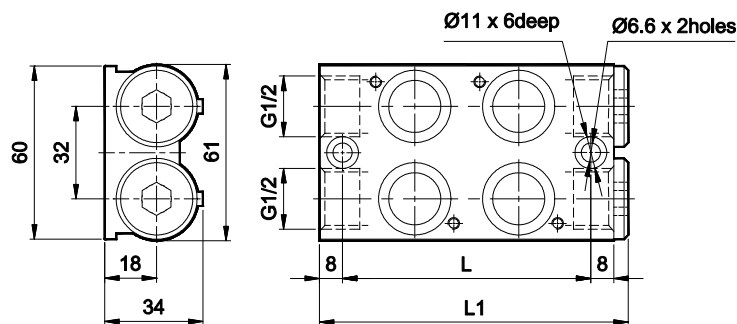
COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

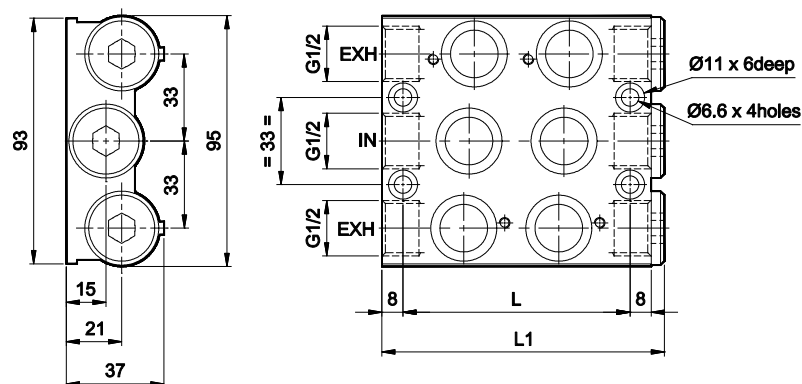
MANIFOLDS FOR COMPACT VALVE

Manifold - Type M051 (for 3/2 valves)



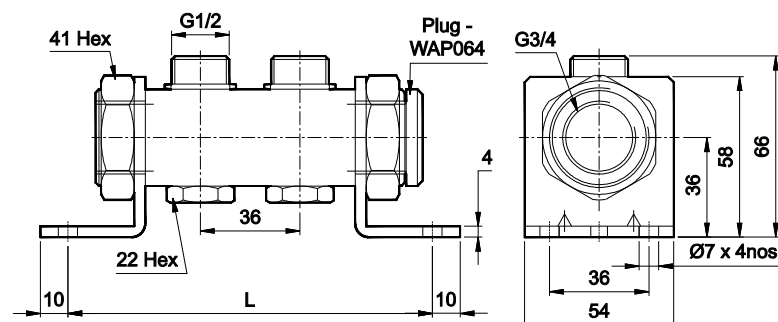
For mounting	L	L1	Ordering no
2 valves	86	107	M0510602
4 valves	158	179	M0510604
6 valves	230	251	M0510606
8 valves	302	323	M0510608

Manifold - Type M003 (for 5/2, 5/3 valves)



For mounting	L	L1	Ordering no
2 valves	86	107	M0030602
4 valves	158	179	M0030604
6 valves	230	251	M0030606
8 valves	302	323	M0030608

Manifold - Type M004 (for 3/2, 5/2, 5/3 valves)



For mounting	L	Ordering No
2 valves	132	M0040402
4 valves	204	M0040404
6 valves	276	M0040406
8 valves	348	M0040408

Note : While mounting 3/2 compact valves in M004 type manifold, use only ASC0163, ASR0163 silencers

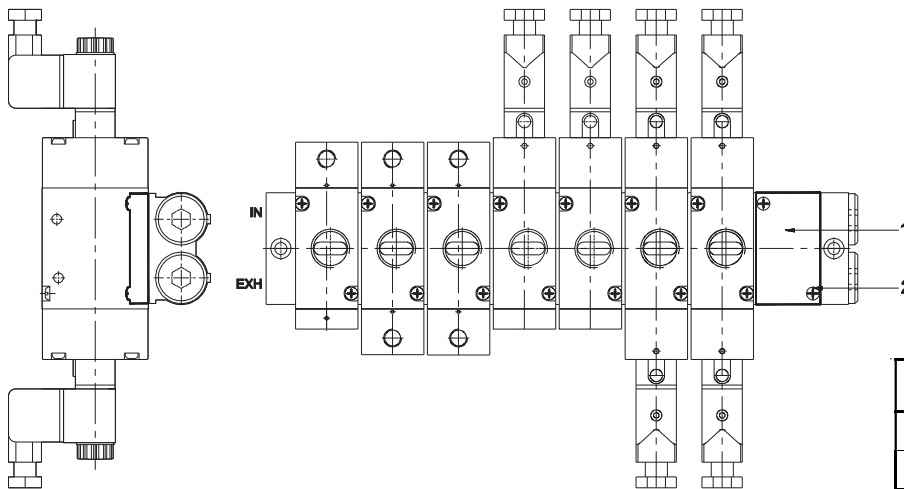
COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

ACCESSORIES FOR COMPACT VALVE

Cover plate assembly for Manifold Type M051

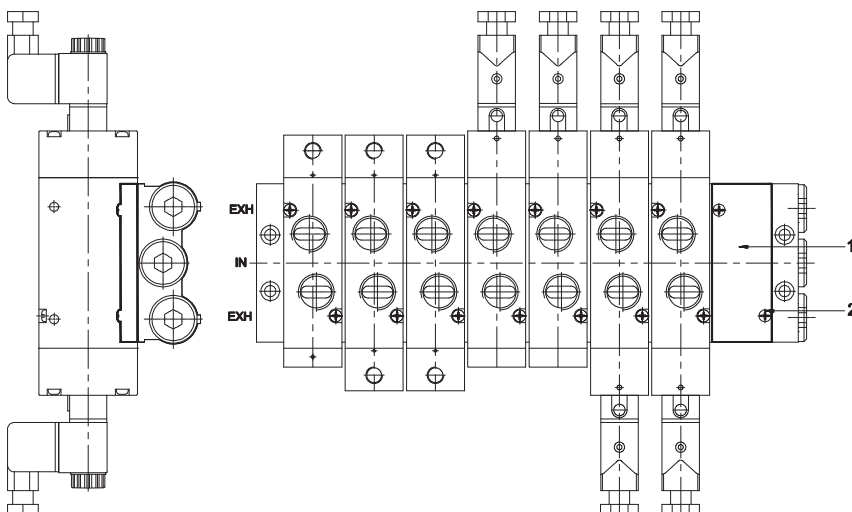


SL. NO.	Item	Qty.	Ordering No
1	Cover plate	1	A4C05
2	Screw - M4x15	2	

Application:

The cover plate assembly can be used to plug the unutilised position in a manifold. For eg., if it is required to mount only 7 valves on manifold no. M0510608, the eighth position can be plugged and made dummy using a cover plate assembly. (refer picture above)

Cover plate assembly for Manifold Type M003



SL. NO.	Item	Qty.	Ordering No
1	Cover plate	1	A4C04
2	Screw - M4x15	2	

Application:

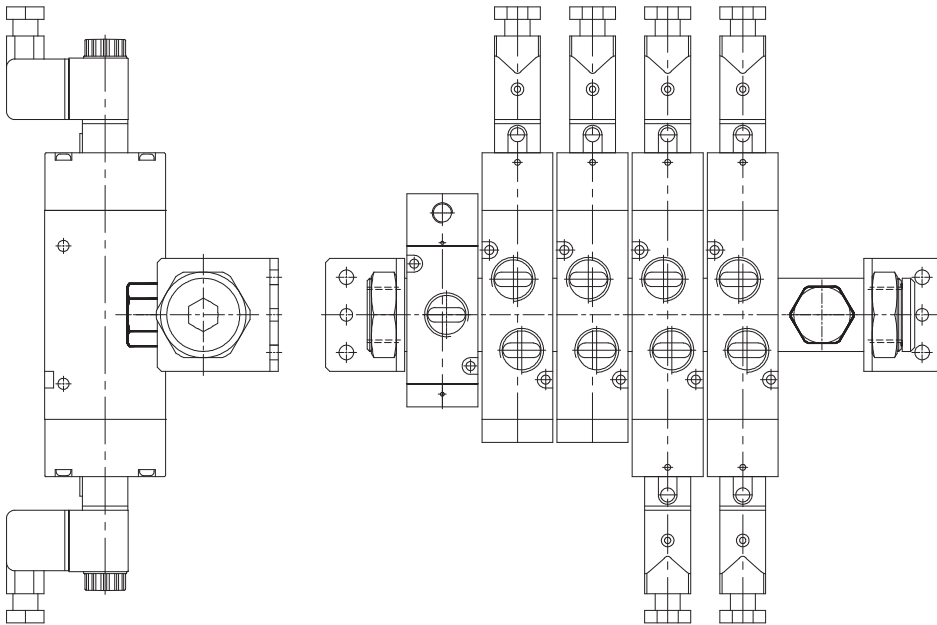
The cover plate assembly can be used to plug the unutilised position in a manifold. For eg., if it is required to mount only 7 valves on manifold no. M0030608, the eighth position can be plugged and made dummy using a cover plate assembly. (refer picture above)

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

Dummy plug for Manifold Type M004



Item	Ordering No
Dummy plug	A4C09

Application:

This dummy plug can be used to plug the unutilised position in a manifold. For eg., if it is required to mount only 5 valves on manifold no. M0040406, the sixth position can be plugged and made dummy using a dummy plug. (refer picture above)

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

How to order

1. Solenoid valve + " Connectors without LED "

While ordering Solenoid operated valves, please mention the suffix given below along with the model number to indicate the required voltage

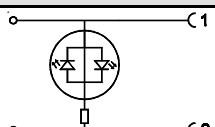
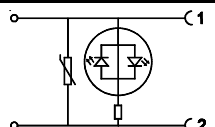
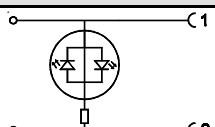
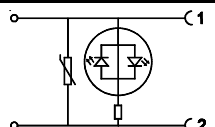
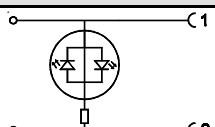
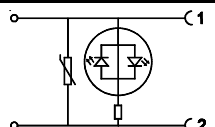
A	220V AC	Q	110V D C
B	110V AC	S	48V D C
D	48V AC	W	24V D C
G	24V AC	R	12V D C

Example

- The ordering no. for 3/2 NC Single solenoid valve, 24V D.C coil with PG cable is **DS247SR63-W**
- The ordering no. for 3/2 NC Single solenoid valve, 24V D.C coil with Moulded cable is **DS247SR63-W1**

2. Solenoid valve + " Connectors with LED "

While ordering Solenoid operated valves with LED connectors, given below in the corresponding tables.

																													
<table><tr><th colspan="2">Voltage</th></tr><tr><td>A</td><td>220V AC</td></tr><tr><td>G</td><td>24V AC</td></tr><tr><td>W</td><td>24V DC</td></tr></table>	Voltage		A	220V AC	G	24V AC	W	24V DC	<table><tr><th colspan="2">Housing Colour & Indication</th></tr><tr><td rowspan="2">T0</td><td></td></tr><tr><td>Transparent housing with Bipolar LED indicator confirming supply voltage</td></tr><tr><td rowspan="2">T1</td><td></td></tr><tr><td>Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load</td></tr></table>	Housing Colour & Indication		T0		Transparent housing with Bipolar LED indicator confirming supply voltage	T1		Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load	<table><tr><th colspan="2">LED colour</th></tr><tr><td>R</td><td>Red</td></tr></table>	LED colour		R	Red	<table><tr><th colspan="2">Connection type</th></tr><tr><td>0</td><td>PG Cable entry</td></tr><tr><td>1</td><td>Moulded cable (with 2metre length)</td></tr></table>	Connection type		0	PG Cable entry	1	Moulded cable (with 2metre length)
Voltage																													
A	220V AC																												
G	24V AC																												
W	24V DC																												
Housing Colour & Indication																													
T0																													
	Transparent housing with Bipolar LED indicator confirming supply voltage																												
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LED colour																													
R	Red																												
Connection type																													
0	PG Cable entry																												
1	Moulded cable (with 2metre length)																												

Example

The Ordering no for 3/2 NC Single solenoid valve (1/2"), 24V DC, connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable : **DS247SR63-WT1R1**

Coil spare ordering no.

Coil (without connector)	Ordering no.	
Voltage	AC	DC
220	AC23A	- NA -
110	AC23B	DC24Q
48	AC23D	DC24S
24	AC23G	DC24W
12	- NA -	DC24R