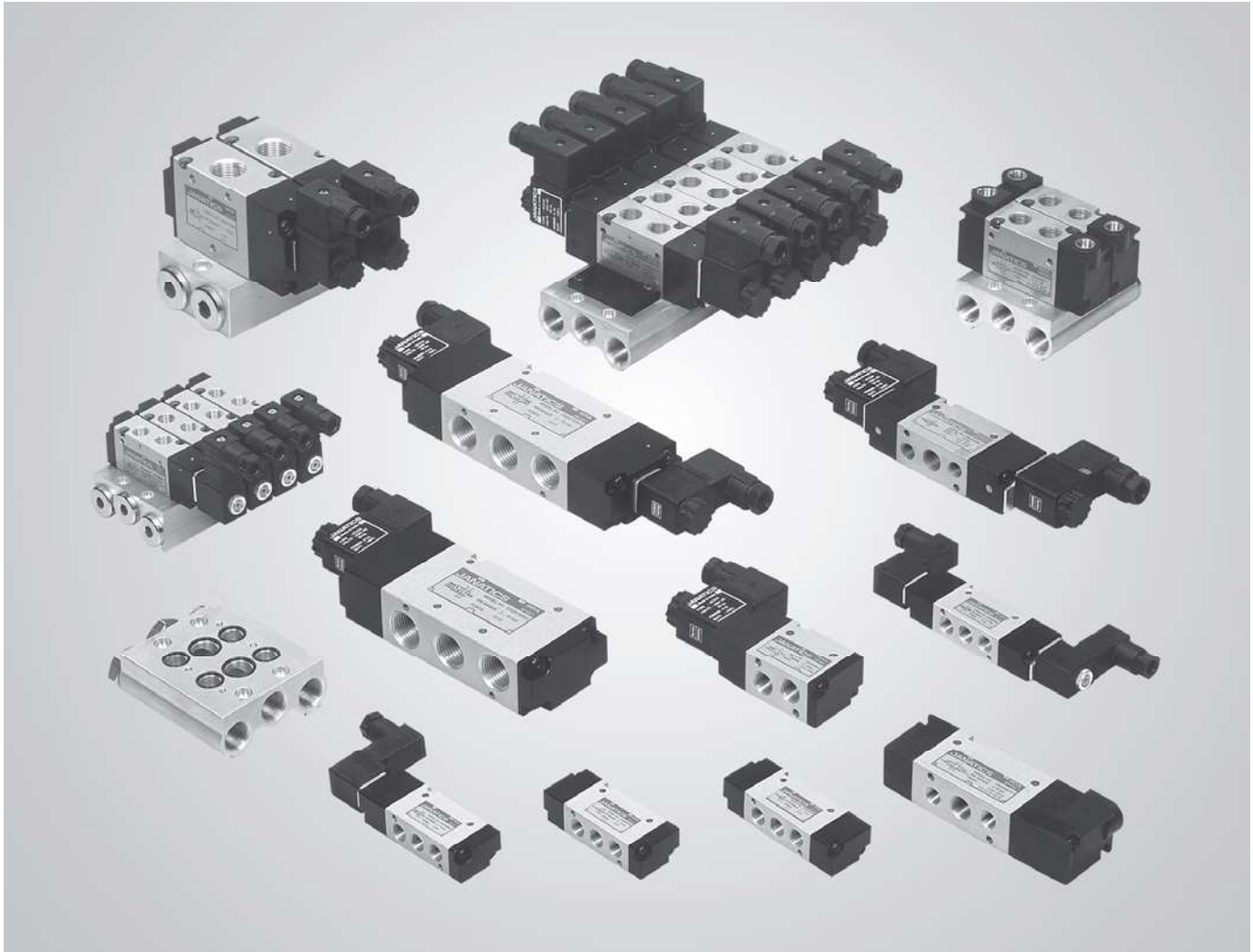


Compact Valve

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 - 1/8

Series DS2

Cat No DS2 - 01 - 07

COMPACT VALVE - G1/8

Features

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

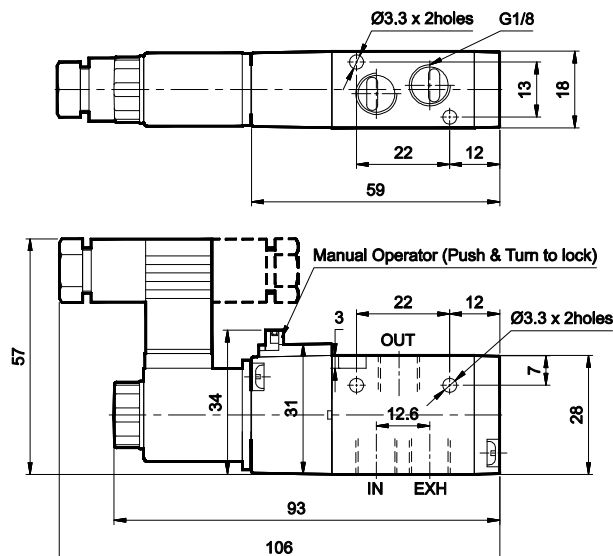


Technical Specifications

Model	DS2		
Type	3/2, 5/2, 5/3		
Design	Spool type		
Port Size	Inlet, Outlet, Exhaust - G1/8,	External pilot - M5	
Medium	Compressed air - Dry, filtered, lubricated		
Working Pressure range	2 - 8 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 @	450 lts/min		
Materials of construction	Aluminium, Nitrile, Brass, Acetal, PBT, Zinc, SS, Nylon, Poly Amide		
Electrical			
Coil width	17 mm		
Voltage (V) ± 10%	AC (50 Hz) - 24, 48, 110, 220		
	DC - 12, 24, 48, 110		
Power consumption	AC - 3.6 VA, DC - 2.5 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

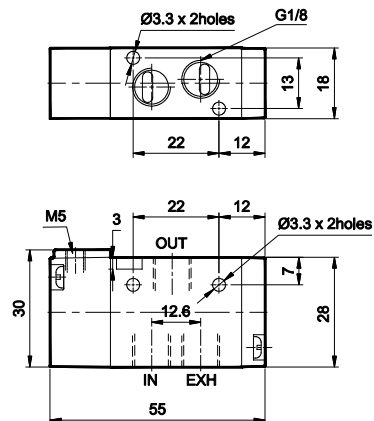
Ordering No*	DS234SR60	DS244SR60
Type	Normally open	Normally closed
Symbol		

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

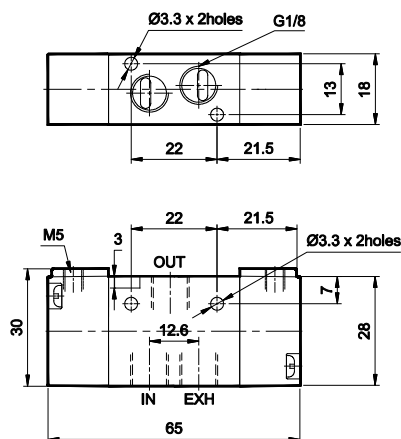
3 / 2 Single External pilot operated valve with spring return



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

Ordering No	DS234ER60	DS244ER60
Type	Normally open	Normally closed
Symbol		

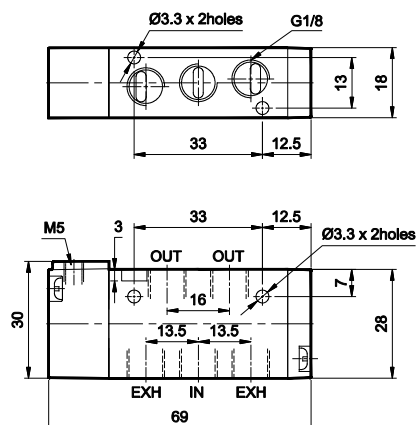
3 / 2 Double External pilot operated valve



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

Ordering No	DS234EE60	DS244EE60
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

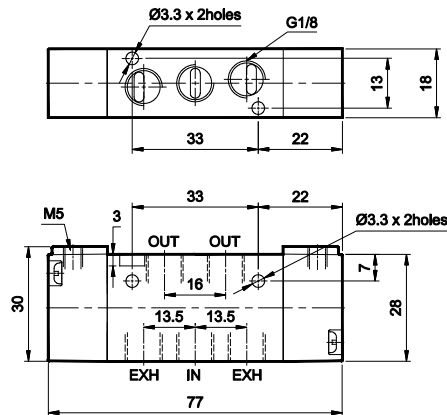
Ordering No	DS254ER60
Symbol	

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

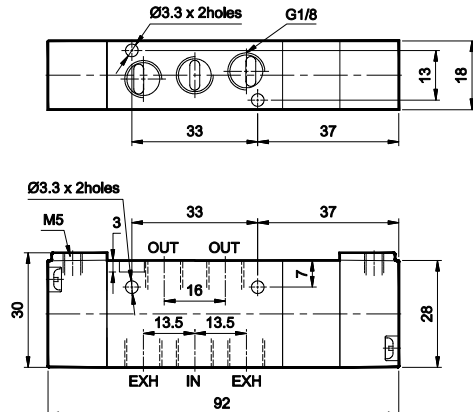
5 / 2 Double External pilot operated valve



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

Ordering No	DS254EE60
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	DS264EC60	DS274EC60	DS284EC60
Type	Blocked	Exhausted	Energised
Symbol			

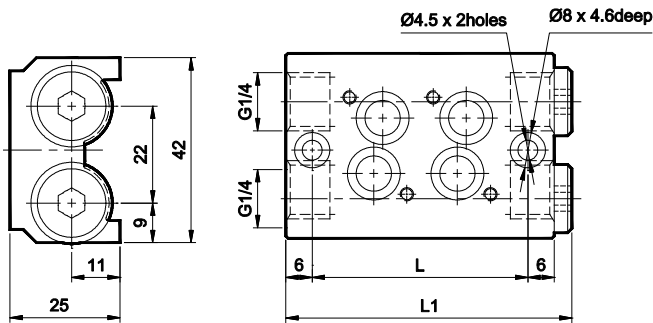
COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

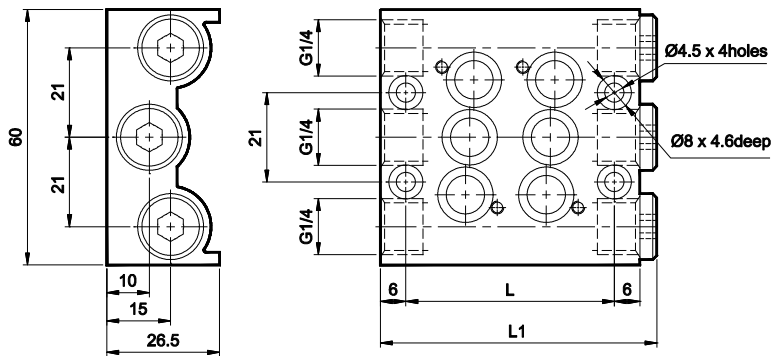
MANIFOLDS FOR COMPACT VALVE

Manifold - Type M051 (for 3/2 valves)



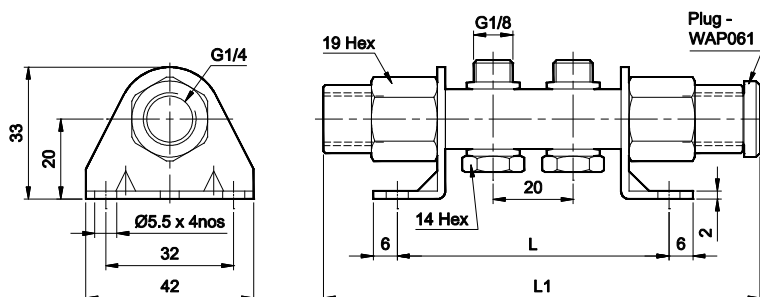
For mounting	L	L1	Ordering no
2 valves	49	65	M0510102
4 valves	87	103	M0510104
6 valves	125	141	M0510106
8 valves	163	179	M0510108

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



For mounting	L	L1	Ordering no
2 valves	49	65	M0030102
4 valves	87	103	M0030104
6 valves	125	141	M0030106
8 valves	163	179	M0030108

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



For mounting	L	L1	Ordering No
2 valves	68	114	M0040102
4 valves	108	154	M0040104
6 valves	148	194	M0040106
8 valves	188	234	M0040108

Note : While mounting compact valves in M004 type manifold, use only AS0160 silencers

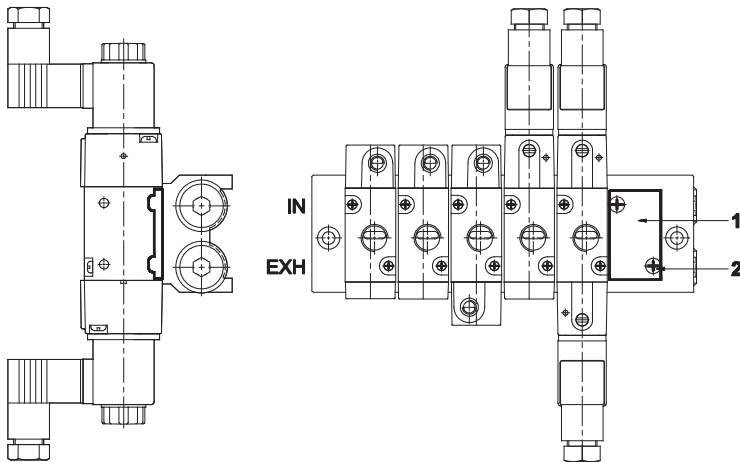
COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

ACCESSORIES FOR COMPACT VALVE

Cover plate assembly for Manifold Type M051

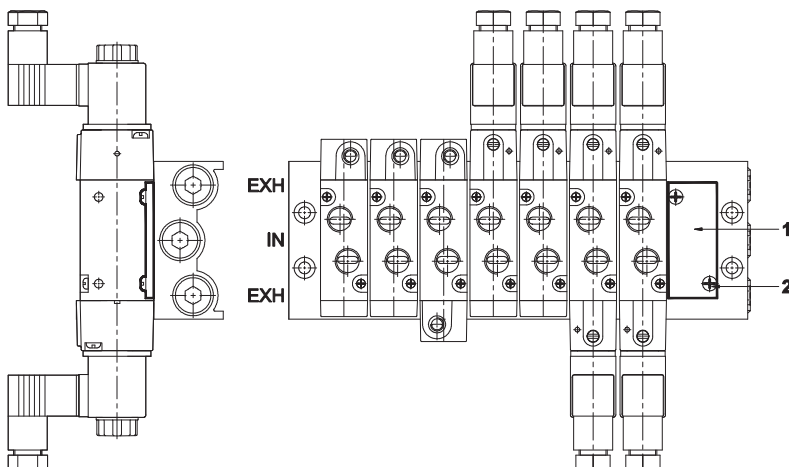


SL NO	Item	Qty	Ordering No
1	Cover plate	1	A4C07
2	Screw - M3x8	2	

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 5 valves on manifold no. M0510106, the sixth 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	A4C06
2	Screw - M3x8	2	

Application:

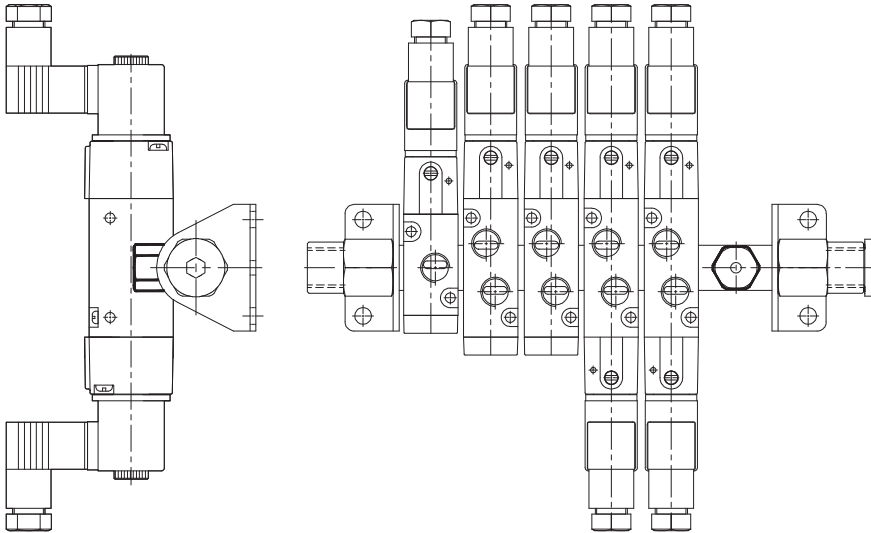
The cover plate assembly can be used to plug the unutilised position in a manifold. For eg., if it is required to mount only 7 valves on manifold no. M0030108, the eighth position can be plugged and made dummy using a cover plate assembly. (refer picture above)

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

Dummy plug for Manifold Type M004



Item	Ordering No.
Dummy plug	A4C08

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. M0040106, the sixth position can be plugged and made dummy using a dummy plug. (refer picture above)

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

COMPACT VALVE - G1/4

Features

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



Important

To prevent malfunctioning of the valve while operating the manual override (or) while operating the solenoid coil, ensure to have a minimum air supply of 1200 lpm to the valve through a tube of minimum Ø8 outer diameter (with minimum Ø5.5 internal diameter)

Technical Specification

Model	DS2	
Type	3/2	5/2 & 5/3
Design	Spool type	
Port Size	Inlet, Outlet, Exhaust - G1/4, External pilot - G1/8	Inlet, Outlet - G1/4, Exhaust, External pilot - G1/8
Medium	Compressed air, 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 @	1200 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	

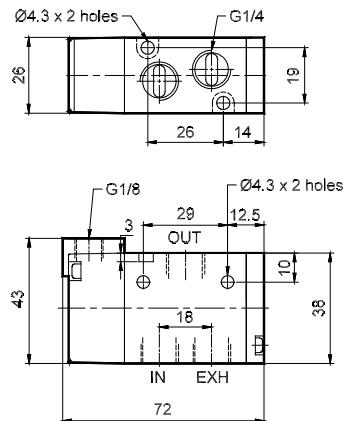
® Inlet pressure 6 bar, and pressure drop 1 bar

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

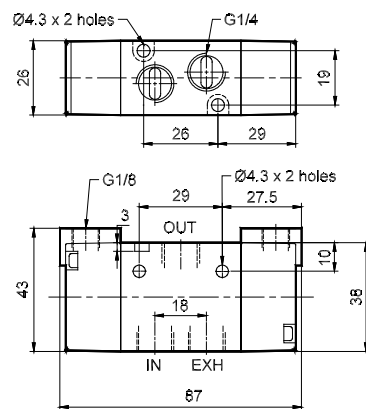
3 / 2 Single External pilot operated valve with spring return



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

Ordering No	DS235ER61	DS245ER61
Type	Normally open	Normally closed
Symbol		

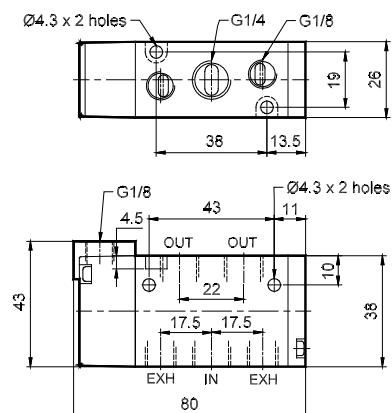
3 / 2 Double External pilot operated valve



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

Ordering No	DS235EE61	DS245EE61
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

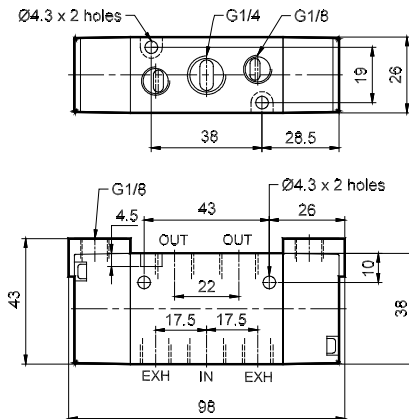
Ordering No	DS255ER61
Symbol	

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

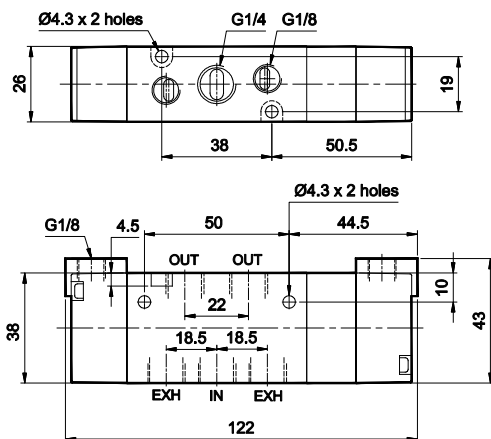
5 / 2 Double External pilot operated valve



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

Ordering No	DS255EE61
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	DS265EC61	DS275EC61	DS285EC61
Type	Blocked	Exhausted	Energised
Symbol			

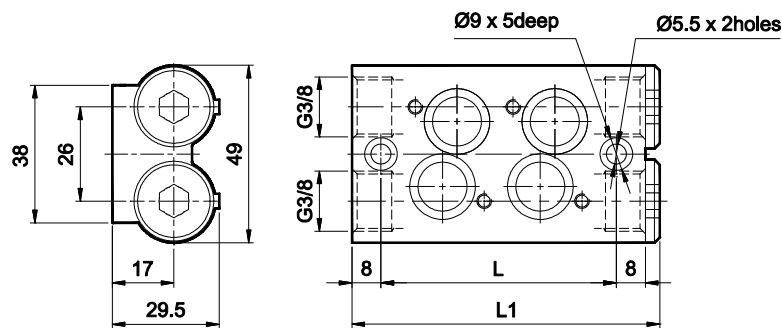
COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

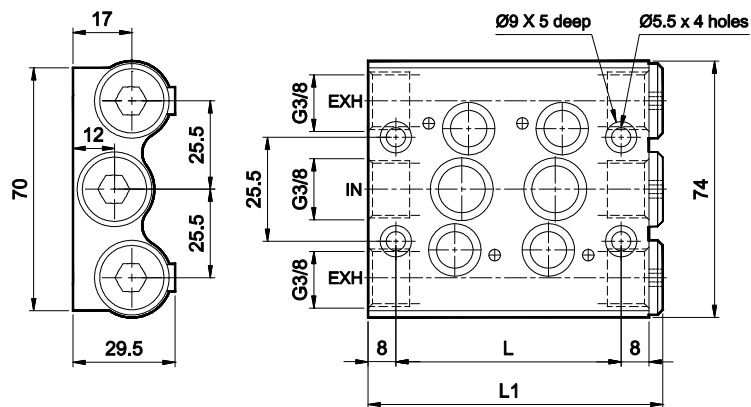
MANIFOLDS FOR COMPACT VALVE

Manifold - Type M051 (for 3/2 valves)



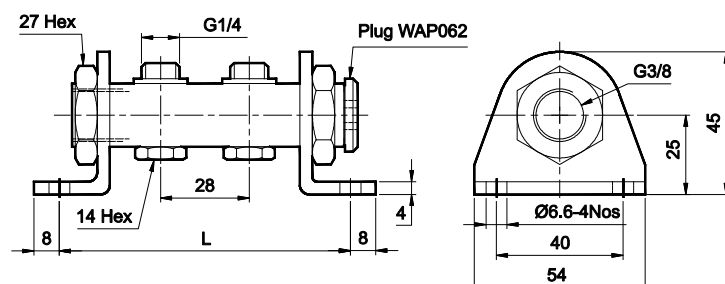
For mounting	L	L1	Ordering No
2 valves	65	85	M0510202
4 valves	119	139	M0510204
6 valves	173	193	M0510206
8 valves	227	247	M0510208

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



For mounting	L	L1	Ordering No
2 valves	65	85	M0030202
4 valves	119	139	M0030204
6 valves	173	193	M0030206
8 valves	227	247	M0030208

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



For mounting	L	Ordering No
2 valves	92	M0040202
4 valves	148	M0040204
6 valves	204	M0040206
8 valves	260	M0040208

Note : While mounting 3/2 compact valves in M004 type manifold, use only AS0161 silencers

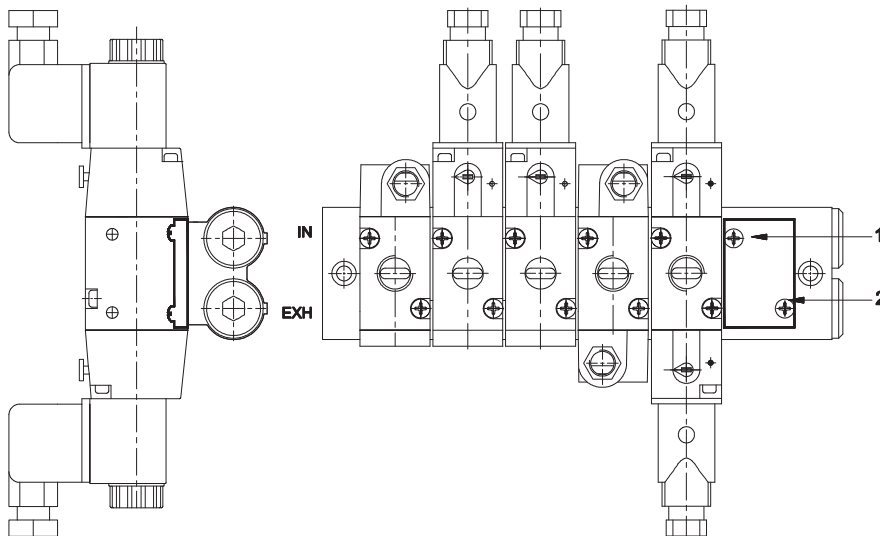
COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

ACCESSORIES FOR COMPACT VALVE

Cover plate assembly for Manifold Type M051

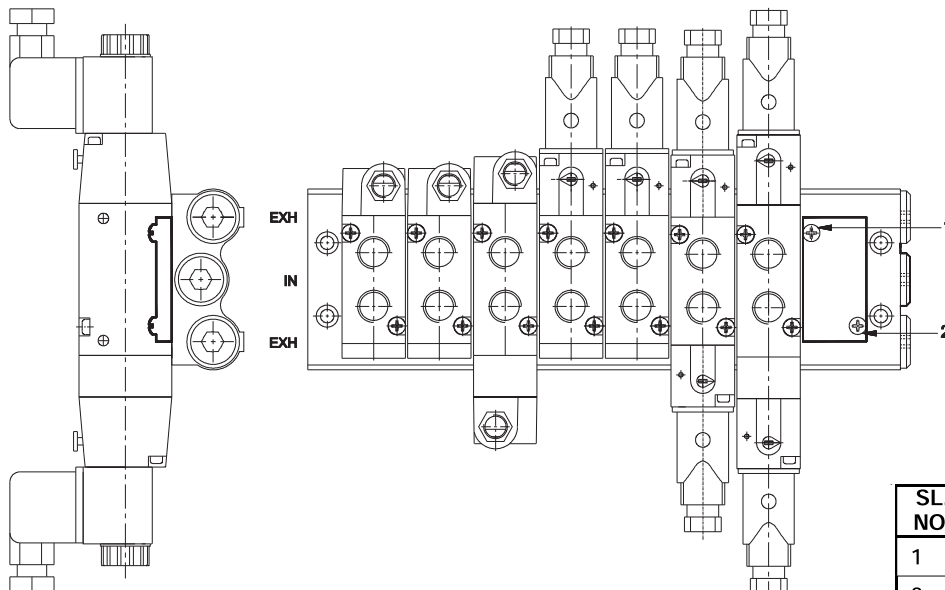


Sl. No.	Item	Qty.	Ordering No
1	Cover plate	1	A4C03
2	Screw – M4X0.7	2	

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 5 valves on manifold no. M0510206, the sixth 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	A4C02
2	Screw – M4X0.7	2	

Application:

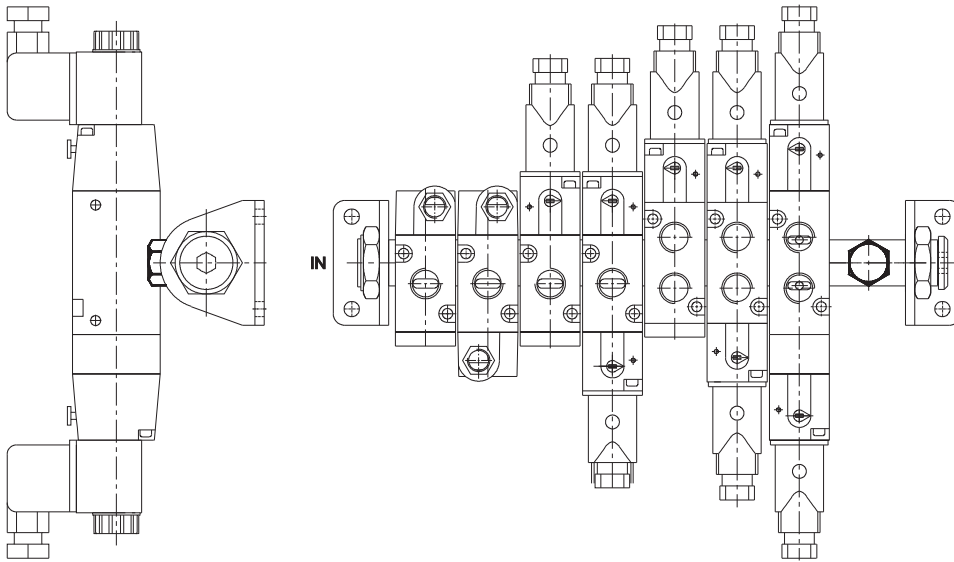
The cover plate assembly can be used to plug the unutilised position in a manifold. For eg., if it is required to mount only 7 valves on manifold no. M0030208, the eighth position can be plugged and made dummy using a cover plate assembly. (refer picture above)

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

Dummy plug for Manifold Type M004



Item	Ordering No
Dummy plug	A4C01

Application:

This dummy plug 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. M0040208, the eighth 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

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

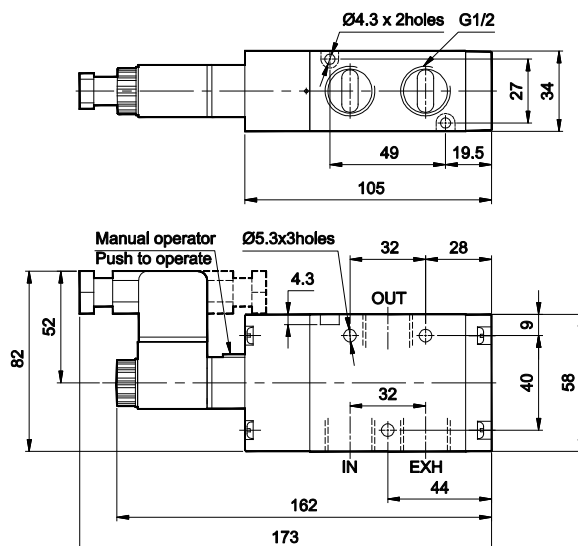


Technical Specifications

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

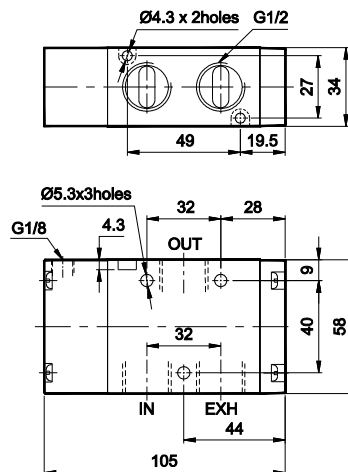
Ordering No*	DS237SR63	DS247SR63
Type	Normally open	Normally closed
Symbol		

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

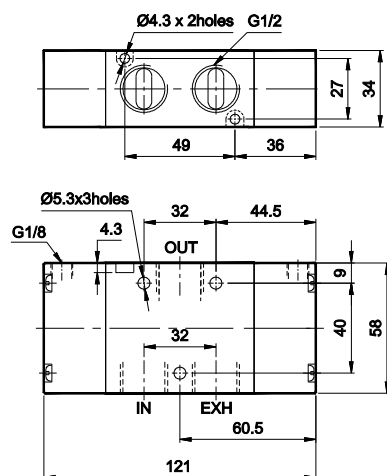
3 / 2 Single External pilot operated valve with spring return



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

Ordering No	DS237ER63	DS247ER63
Type	Normally open	Normally closed
Symbol		

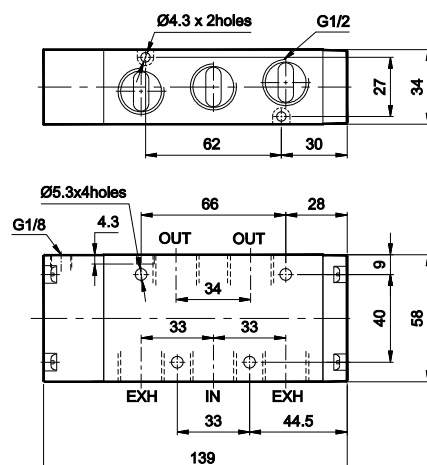
3 / 2 Double External pilot operated valve



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

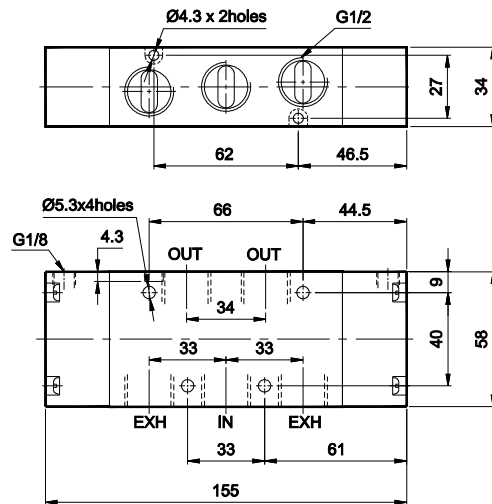
Ordering No	DS257ER63
Symbol	

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

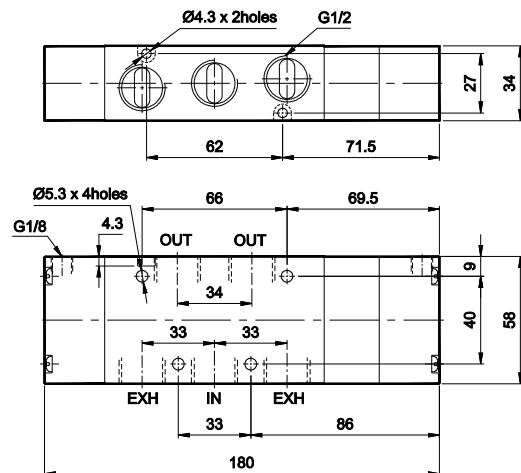
5 / 2 Double External pilot operated valve



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			

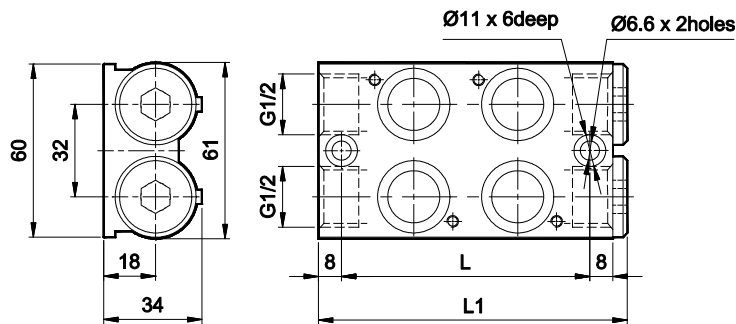
COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

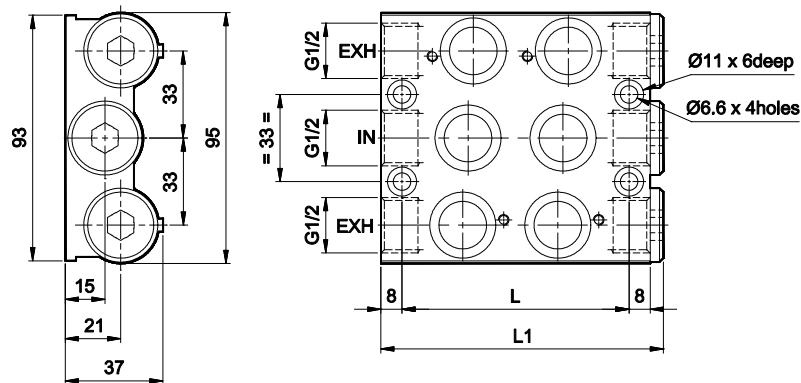
MANIFOLDS FOR COMPACT VALVE

Manifold - Type M051 (for 3/2 valves)



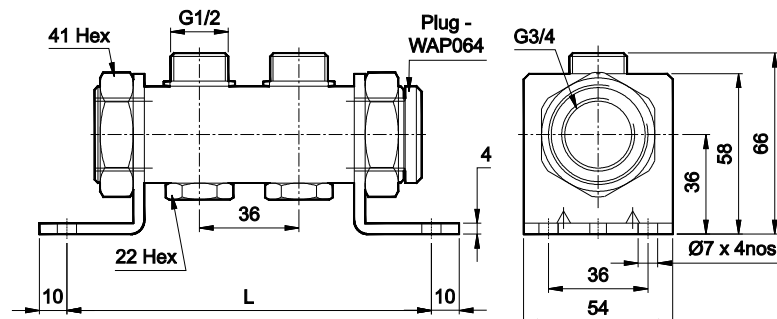
For mounting	L	L1	Ordering no
2 valves	86	107	M0510602
4 valves	158	179	M0510604
6 valves	230	251	M0510606
8 valves	302	323	M0510608

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

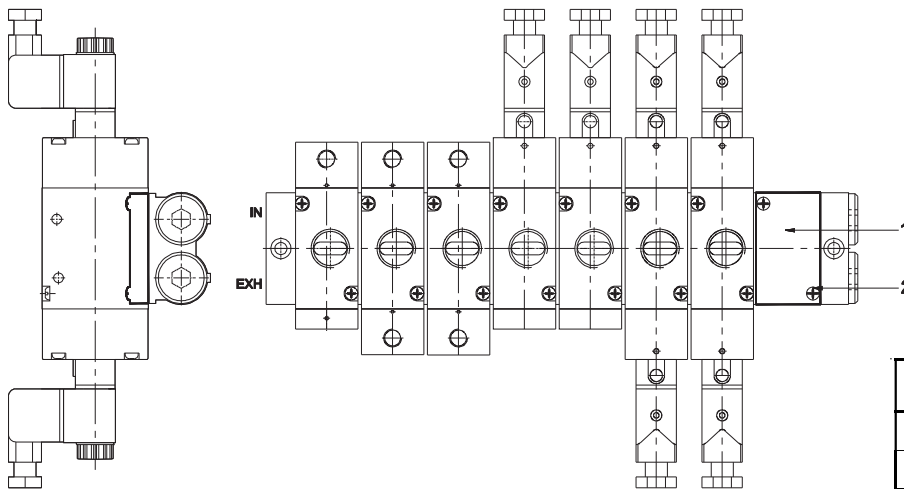
COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

ACCESSORIES FOR COMPACT VALVE

Cover plate assembly for Manifold Type M051

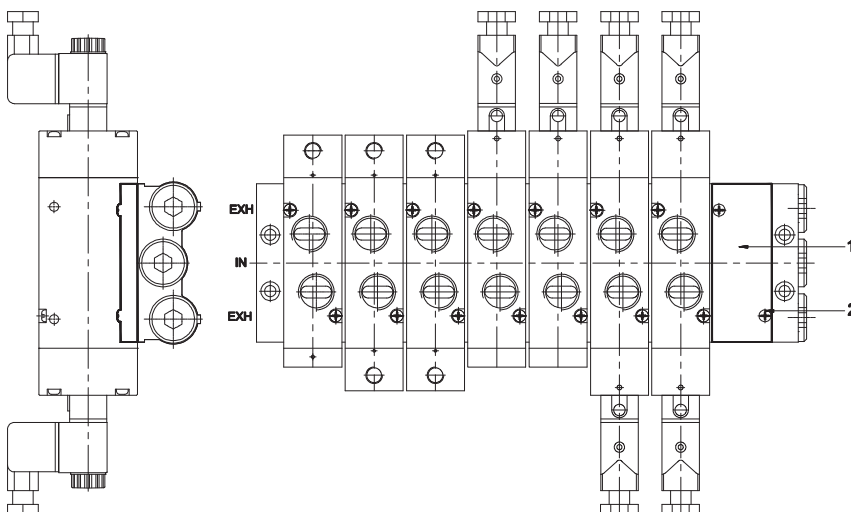


SL. NO.	Item	Qty.	Ordering No
1	Cover plate	1	A4C05
2	Screw - M4x15	2	

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:

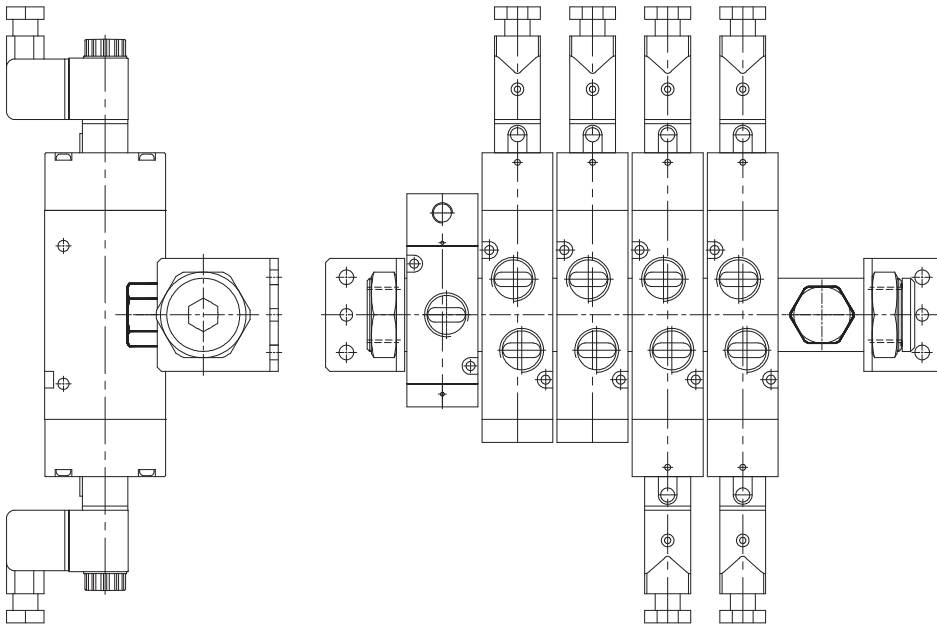
The cover plate assembly can be used to plug the unutilised position in a manifold. For eg., if it is required to mount only 7 valves on manifold no. M0030608, the eighth position can be plugged and made dummy using a cover plate assembly. (refer picture above)

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)