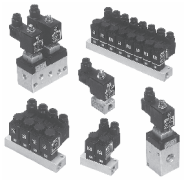
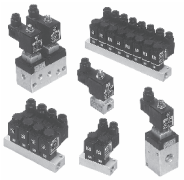
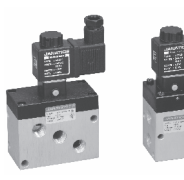
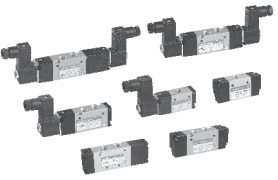
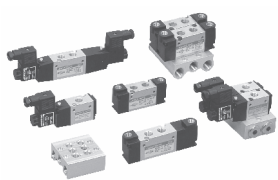
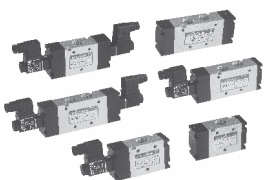
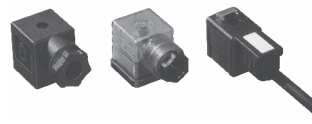
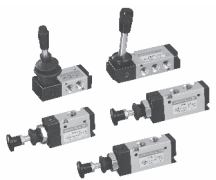

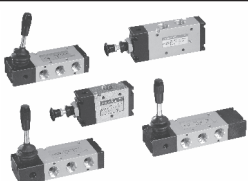
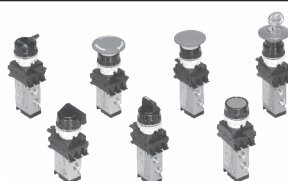
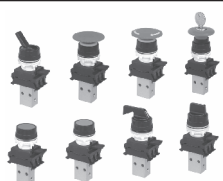
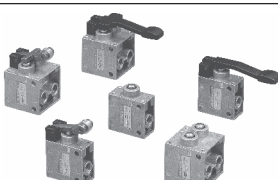
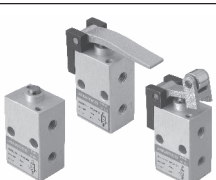

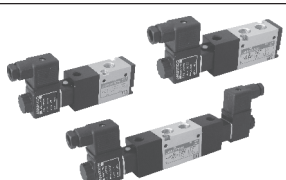
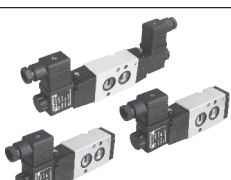

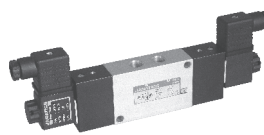
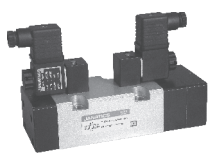


2. DIRECTIONAL CONTROL VALVES

<p>Solenoid Valves</p> <p>Series J (2/2, 3/2, 5/2) Sizes : G1/8, 1/4, 1/2</p> 	<p>Solenoid Valves</p> <p>Series J (2/2, 3/2) Sizes : G1/8</p> 	<p>Solenoid Valves</p> <p>Series DP1 (3/2, 5/2) Size : G1/4</p> 	<p>Compact Valves</p> <p>Series DS2 (3/2, 5/2, 5/3) Size : G1/8</p> 
Page No. 2.1.1 - 2.1.16	2.1.17 - 2.1.19	2.2.1 - 2.2.3	2.3.1 - 2.3.9
<p>Compact Valves</p> <p>Series DS2 (3/2, 5/2, 5/3) Size : G1/4</p> 	<p>Compact Valves</p> <p>Series DS2 (3/2, 5/2, 5/3) Size : G1/2</p> 	<p>Solenoid Connectors</p> <p>Series K Coil width : 17, 22, 32mm</p> 	<p>Manually Operated Valves</p> <p>Series DS2 (3/2, 5/2) Size : G1/8</p> 
Page No. 2.4.1 - 2.4.9	2.5.1 - 2.5.9	2.6.1 - 2.6.2	2.7.1 - 2.7.5
<p>Manually Operated Valves</p> <p>Series DS2 (3/2, 5/2, 5/3) Size : G1/4</p> 	<p>Manually Operated Valves</p> <p>Series DS2 (3/2, 5/2, 5/3) Size : G1/2</p> 	<p>Manually Operated Valves (Panel mounting)</p> <p>Series DS2 (3/2, 5/2) Size : G1/8</p> 	<p>Manually Operated Valves (Panel mounting)</p> <p>Series DP2 Size : M5</p> 
Page No. 2.8.1 - 2.8.6	2.9.1 - 2.9.6	2.10.1 - 2.10.3	2.11.1 - 2.11.2
<p>Manual & Mechanical Valves</p> <p>Series DP (3/2, 5/2) Size : G1/4</p> 	<p>Manual & Mechanical Valves</p> <p>Series DP2 (3/2) Size : M5</p> 	<p>Foot Operated Valve</p> <p>Series DP (3/2, 5/2) Size : G1/4</p> 	<p>Compact Valves External Solenoid Pilot</p> <p>Series DS2 (3/2, 5/2) Size : G1/4</p> 
Page No. 2.12.1 - 2.12.5	2.13.1 - 2.13.2	2.14.1 - 2.14.3	2.17.1 - 2.17.3
<p>Compact Valves NAMUR Standard</p> <p>Series DS3 (5/2) Size : G1/4</p> 	<p>Compact Valves Solenoid Pilot Operated</p> <p>Series DS5 (5/2) Size : G1/4</p> 	<p>Compact Valves External Solenoid Pilot</p> <p>Series DP (5/2) Size : G1/4</p> 	<p>ISO Sub Base - Size 1</p> <p>Series DS4 (5/2) Size : G1/4</p> 
Page No. 2.18.1 - 2.18.4	2.19.1 - 2.19.2	2.20.1 - 2.20.3	2.21.1 - 2.21.3

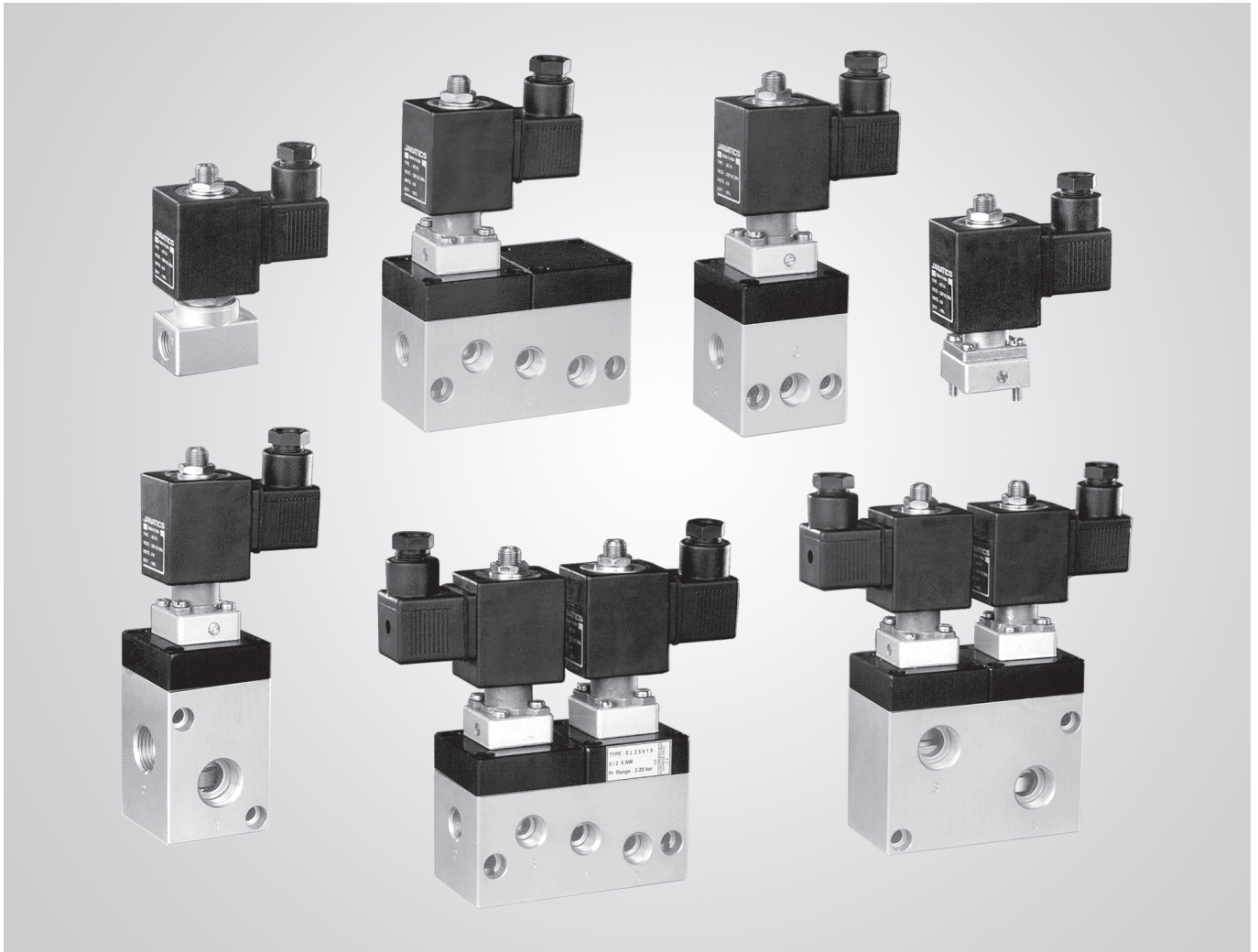
2. DIRECTIONAL CONTROL VALVES

<p>ISO Sub Base - Size 3</p> <p>Series DS4 (3/2, 5/2) Size : G1/2</p>	<p>ISO Sub Base - Size 3</p> <p>Series DS4 (5/3) Size : G1/2</p>	<p>Solenoid valve NC Pilot operated Valve</p> <p>Series DMN (2/2) Sizes : G1/4 to G1</p>	<p>Rotary Slide Valve</p> <p>Series DR (4/2) Sizes : G1/4</p>
			
<p>Page No. 2.22.1 - 2.22.3</p>	<p>2.22.4 - 2.22.5</p>	<p>2.23.1 - 2.23.3</p>	<p>2.24.1 - 2.24.2</p>
<p>Rotary Slide Valve</p> <p>Series DR (4/2) Sizes : G1/4</p>	<p>Angle Seat Valve</p> <p>Series DY2 (2/2 NC) Sizes : G1/2, G3/4</p>		
			
<p>Page No. 2.24.3 - 2.24.4</p>	<p>2.25.1 - 2.25.2</p>		

Solenoid Valve

Series : J

Sizes : G1/4, G1/2



- 2/2 Direct acting valves
- 3/2 direct acting, normally closed / normally open valve
- 2/2, 3/2 Gang mounting valves, manifolds
- 3/2, 5/2 Single solenoid pilot operated valves
- 5/2 Double solenoid pilot operated valves

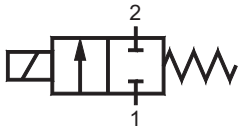
SOLENOID VALVE - ORDERING CODE

AC

REF. CAT. NO.	TYPE OF VALVE	PORT SIZE			NW	Operating pressure range (bar)	ORDERING NO. WITH COIL VOLTAGE OF (all coils are provided with DIN connector type socket S1)				Remarks	
		IN	OUT	EXH			AC					
							220 V	110 V	48 V	24 V		
Direct acting valves												
J001 - 04	2/2 NC	G1/4	G1/4	NIL	3.0	0 - 10	E12614A	E12614B	E12614D	E12614G		
J013 - 02	2/2 NC	G1/4	G1/4	NIL	2.5	0 - 7	E12613A	E12613B	E12613D	E12613G		
J013 - 02	2/2 NC	G1/4	G1/4	NIL	2	0 - 10	E12612A	E12612B	E12612D	E12612G		
J013 - 02	2/2 NC	G1/4	G1/4	NIL	1.2	0 - 20	E12611A	E12611B	E12611D	E12611G		
J002 - 04	3/2 NO	G1/8	G1/4	G1/4	2.5	0 - 7	E13613A	E13613B	E13613D	E13613G		
J002 - 04	3/2 NO	G1/8	G1/4	G1/4	2.0	0 - 10	E13612A	E13612B	E13612D	E13612G		
J002 - 04	3/2 NO	G1/8	G1/4	G1/4	1.2	0 - 20	E13611A	E13611B	E13611D	E13611G		
J003 - 04	3/2 NC	G1/4	G1/4	G1/8	2.5	0 - 7	E14613A	E14613B	E14613D	E14613G		
J003 - 04	3/2 NC	G1/4	G1/4	G1/8	2.0	0 - 10	E14612A	E14612B	E14612D	E14612G		
J003 - 04	3/2 NC	G1/4	G1/4	G1/8	1.2	0 - 20	E14611A	E14611B	E14611D	E14611G		
J004 - 04	3/2 Gang mounting NC	NIL	NIL	G1/8	2	0 - 10	E24002A E24002A - K	E24002B E24002B - K	E24002D E24002D - K	E24002G E24002G - K		Screw type manual adjuster Knob type manual adjuster
Pilot operated valves												
J005 - 05	3/2 Single pilot NO	G1/4	G1/4	G1/4	6	2 - 10	EL13615A EL13615A - K	EL13615B EL13615B - K	EL13615D EL13615D - K	EL13615G EL13615G - K	Screw type manual adjuster Knob type manual adjuster	
J006 - 05	3/2 Single pilot NC	G1/4	G1/4	G1/4	6	2 - 10	EL14615A EL14615A - K	EL14615B EL14615B - K	EL14615D EL14615D - K	EL14615G EL14615G - K	Screw type manual adjuster Knob type manual adjuster	
J007 - 05	3/2 Single pilot NO	G1/2	G1/2	G1/2	12	2 - 10	EL13637A EL13637A - K	EL13637B EL13637B - K	EL13637D EL13637D - K	EL13637G EL13637G - K	Screw type manual adjuster Knob type manual adjuster	
J008 - 05	3/2 Single pilot NC	G1/2	G1/2	G1/2	12	2 - 10	EL14637A EL14637A - K	EL14637B EL14637B - K	EL14637D EL14637D - K	EL14637G EL14637G - K	Screw type manual adjuster Knob type manual adjuster	
J009 - 05	5/2 Single pilot	G1/4	G1/4	G1/4	6	2 - 10	EL15615A EL15615A - K	EL15615B EL15615B - K	EL15615D EL15615D - K	EL15615G EL15615G - K	Screw type manual adjuster Knob type manual adjuster	
J010 - 05	5/2 Single pilot	G1/2	G1/2	G1/2	12	2 - 10	EL15637A EL15637A - K	EL15637B EL15637B - K	EL15637D EL15637D - K	EL15637G EL15637G - K	Screw type manual adjuster Knob type manual adjuster	
J011 - 05	5/2 Double pilot	G1/4	G1/4	G1/4	6	2 - 10	EL25615A EL25615A - K	EL25615B EL25615B - K	EL25615D EL25615D - K	EL25615G EL25615G - K	Screw type manual adjuster Knob type manual adjuster	
J012 - 05	5/2 Double pilot	G1/2	G1/2	G1/2	12	2 - 10	EL25637A EL25637A - K	EL25637B EL25637B - K	EL25637D EL25637D - K	EL25637G EL25637G - K	Screw type manual adjuster Knob type manual adjuster	

DC

REF. CAT. NO.	TYPE OF VALVE	PORT SIZE			NW	Operating pressure range (bar)	ORDERING NO. WITH COIL VOLTAGE OF (all coils are provided with DIN connector type socket S1)				Remarks	
		IN	OUT	EXH			DC					
							110 V	48 V	24 V	12 V		
Direct acting valves												
J001 - 04	2/2 NC	G1/4	G1/4	NIL	3.0	0 - 10	NIL	NIL	NIL	NIL		
J013 - 02	2/2 NC	G1/4	G1/4	NIL	2.5	0 - 7	E12613Q	E12613S	E12613W	E12613R		
J013 - 02	2/2 NC	G1/4	G1/4	NIL	2	0 - 10	E12612Q	E12612S	E12612W	E12612R		
J013 - 02	2/2 NC	G1/4	G1/4	NIL	1.2	0 - 20	E12611Q	E12611S	E12611W	E12611R		
J002 - 04	3/2 NO	G1/8	G1/4	G1/4	2.5	0 - 7	-	-	-	-		
J002 - 04	3/2 NO	G1/8	G1/4	G1/4	2.0	0 - 10	-	-	-	-		
J002 - 04	3/2 NO	G1/8	G1/4	G1/4	1.2	0 - 20	-	-	-	-		
J003 - 04	3/2 NC	G1/4	G1/4	G1/8	2.5	0 - 7	E14613Q	E14613S	E14613W	E14613R		
J003 - 04	3/2 NC	G1/4	G1/4	G1/8	2.0	0 - 10	E14612Q	E14612S	E14612W	E14612R		
J003 - 04	3/2 NC	G1/4	G1/4	G1/8	1.2	0 - 20	E14611Q	E14611S	E14611W	E14611R		
J004 - 04	3/2 Gang mounting NC	NIL	NIL	G1/8	2	0 - 10	E24002Q E24002Q - K	E24002S E24002S - K	E24002W E24002W - K	E24002R E24002R - K		Screw type manual adjuster Knob type manual adjuster
Pilot operated valves												
J005 - 05	3/2 Single pilot NO	G1/4	G1/4	G1/4	6	2 - 10	EL13615Q EL13615Q - K	EL13615S EL13615S - K	EL13615W EL13615W - K	EL13615R EL13615R - K	Screw type manual adjuster Knob type manual adjuster	
J006 - 05	3/2 Single pilot NC	G1/4	G1/4	G1/4	6	2 - 10	EL14615Q EL14615Q - K	EL14615S EL14615S - K	EL14615W EL14615W - K	EL14615R EL14615R - K	Screw type manual adjuster Knob type manual adjuster	
J007 - 05	3/2 Single pilot NO	G1/2	G1/2	G1/2	12	2 - 10	EL13637Q EL13637Q - K	EL13637S EL13637S - K	EL13637W EL13637W - K	EL13637R EL13637R - K	Screw type manual adjuster Knob type manual adjuster	
J008 - 05	3/2 Single pilot NC	G1/2	G1/2	G1/2	12	2 - 10	EL14637Q EL14637Q - K	EL14637S EL14637S - K	EL14637W EL14637W - K	EL14637R EL14637R - K	Screw type manual adjuster Knob type manual adjuster	
J009 - 05	5/2 Single pilot	G1/4	G1/4	G1/4	6	2 - 10	EL15615Q EL15615Q - K	EL15615S EL15615S - K	EL15615W EL15615W - K	EL15615R EL15615R - K	Screw type manual adjuster Knob type manual adjuster	
J010 - 05	5/2 Single pilot	G1/2	G1/2	G1/2	12	2 - 10	EL15637Q EL15637Q - K	EL15637S EL15637S - K	EL15637W EL15637W - K	EL15637R EL15637R - K	Screw type manual adjuster Knob type manual adjuster	
J011 - 05	5/2 Double pilot	G1/4	G1/4	G1/4	6	2 - 10	EL25615Q EL25615Q - K	EL25615S EL25615S - K	EL25615W EL25615W - K	EL25615R EL25615R - K	Screw type manual adjuster Knob type manual adjuster	
J012 - 05	5/2 Double pilot	G1/2	G1/2	G1/2	12	2 - 10	EL25637Q EL25637Q - K	EL25637S EL25637S - K	EL25637W EL25637W - K	EL25637R EL25637R - K	Screw type manual adjuster Knob type manual adjuster	



SOLENOID VALVE - G1/4

J Series

Cat No J001 - 04

2 / 2 Direct acting normally closed valve

Features

- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Noiseless performance
- Coil can be rotated by 360°

Technical Specifications

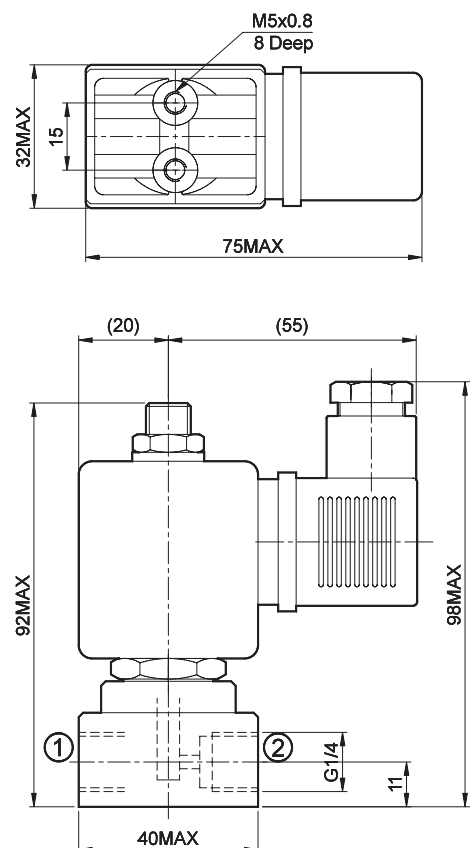
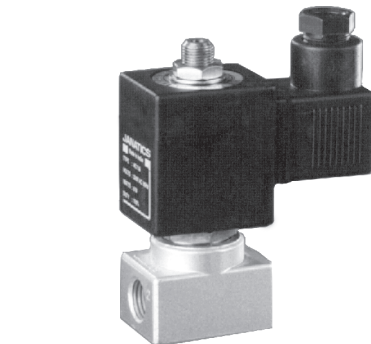
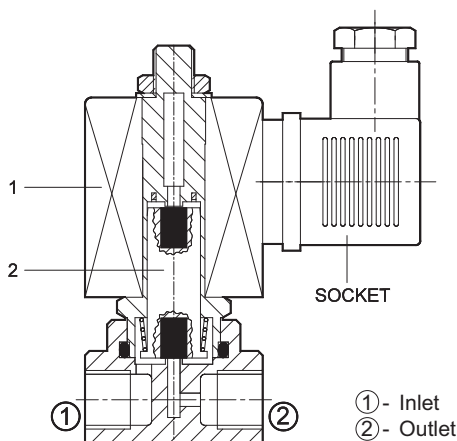
Model #	E12614
Port size	Inlet, Outlet - G1/4
Medium	Filtered compressed air
Ambient Temperature	-10° to +60° C
Medium temperature	+5° to +50° C
Orifice (NW)	3
Operating pressure (bar)	0 - 10 bar
Flow rate (lpm) *	250
Electrical	
Coil width	32 mm
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220
Power consumption (Watts)	6
Duty cycle	Continuous
Class of insulation	Class F
Type of coil protection	IP65
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

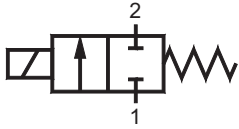
Spare parts list

Ref. No.	Coil (without socket)		Ordering no. for
	Voltage		
1	220		AC11A
	110		AC11B
	48		AC11D
	24		AC11G
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring		SSA0311



Caution:

A.C coil should not be used on a D.C coil valve, and vice versa.



SOLENOID VALVE - G1/4

J Series

Cat No J013 - 02

2 / 2 Direct acting normally closed valve

Features

- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Noiseless performance
- Coil can be rotated by 360°

Technical Specifications

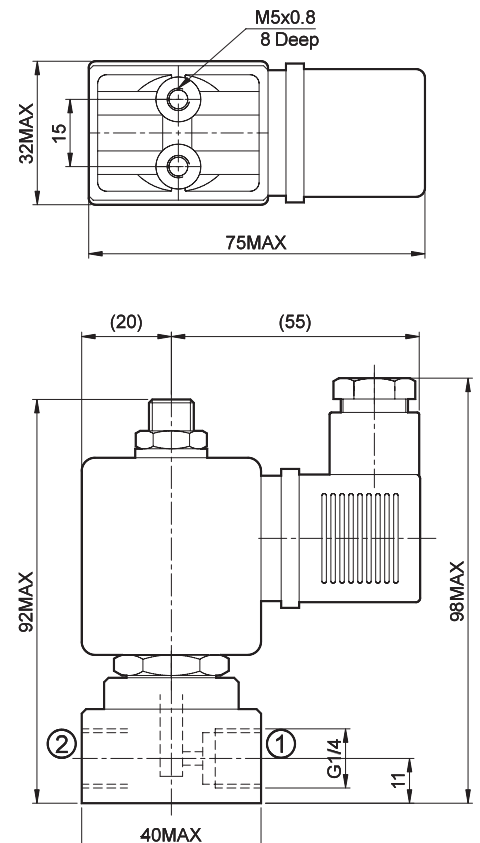
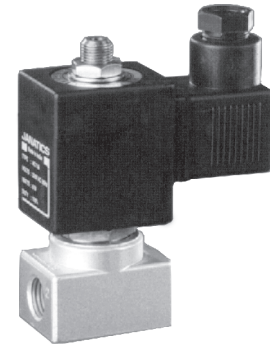
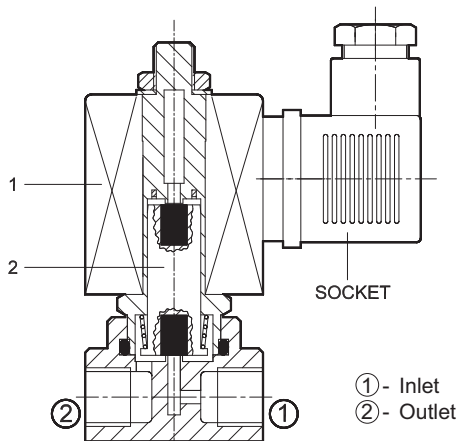
Model #	E12613	E12612	E12611
Port size	Inlet, Outlet - G1/4		
Medium	Filtered compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	2.5	2	1.2
Operating pressure (bar)	0 - 7	0 - 10	0 - 20
Flow rate (lpm) *	180	140	60
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz)		DC
	24, 48, 110, 220	12	24, 48, 110
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

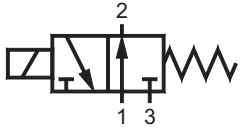
Spare parts list

Ref. No.	Coil (without socket)	Ordering no. for	
	Voltage	AC 50Hz	DC
1	220	AC11A	- NA -
	110	AC11B	DC12Q
	48	AC11D	DC12S
	24	AC11G	DC12W
	12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711



Caution:

A.C coil should not be used on a D.C coil valve, and vice versa.



SOLENOID VALVE - G1/4

J Series

Cat No J002 - 04

3 / 2 Direct acting normally open valve

Features

- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Noiseless performance
- Coil can be rotated by 360°

Technical Specifications

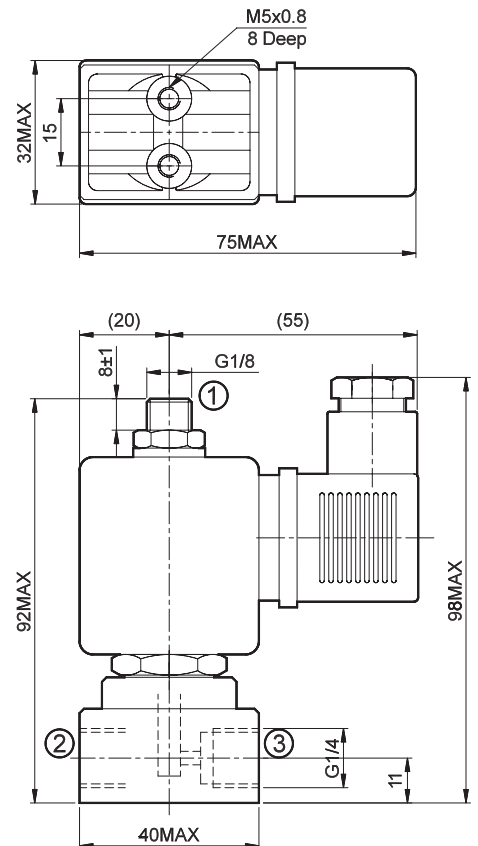
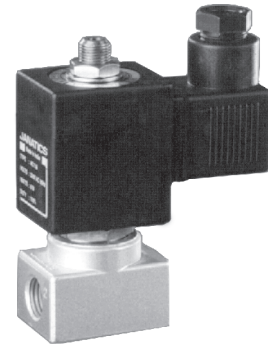
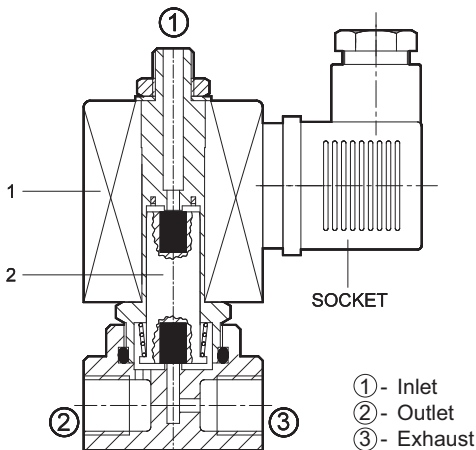
Model #	E13613	E13612	E13611
Port size	Inlet - G1/8, Outlet, Exhaust - G1/4		
Medium	Filtered compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	2.5	2	1.2
Operating pressure (bar)	0 - 7	0 - 10	0 - 20
Flow rate (lpm) *	180	140	60
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220		
Power consumption (Watts)	6		
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

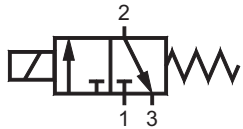
Spare parts list

Ref. No.	Coil (without socket)	Ordering no. for
	Voltage	AC 50Hz
1	220	AC11A
	110	AC11B
	48	AC11D
	24	AC11G
	12	- NA -
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0411



Caution:

A.C coil should not be used on a D.C coil valve, and vice versa.



SOLENOID VALVE - G1/4

J Series

Cat No J003 - 04

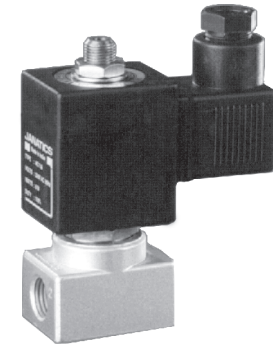
3 / 2 Direct acting normally closed valve

Features

- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Noiseless performance
- Coil can be rotated by 360°

Technical Specifications

Model #	E14613	E14612	E14611
Port size	Inlet, Outlet - G1/4, Exhaust - G1/8		
Medium	Filtered compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	2.5	2	1.2
Operating pressure (bar)	0 - 7	0 - 10	0 - 20
Flow rate (lpm) *	180	140	60
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz)		DC
	24, 48, 110, 220	12	24, 48, 110
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

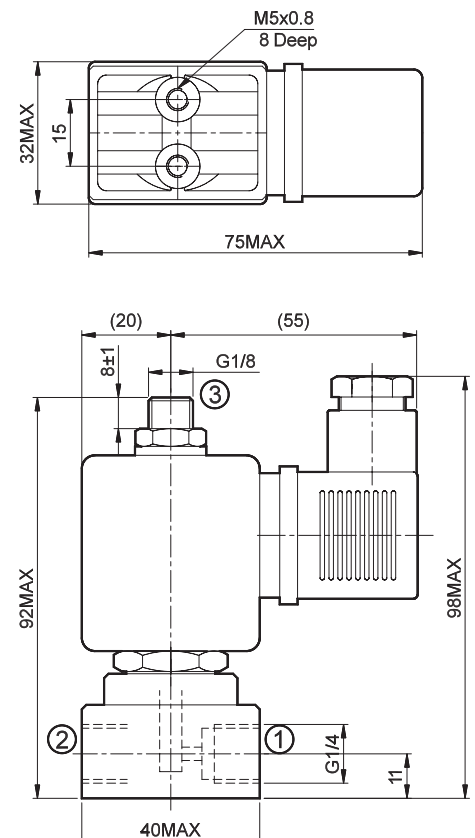
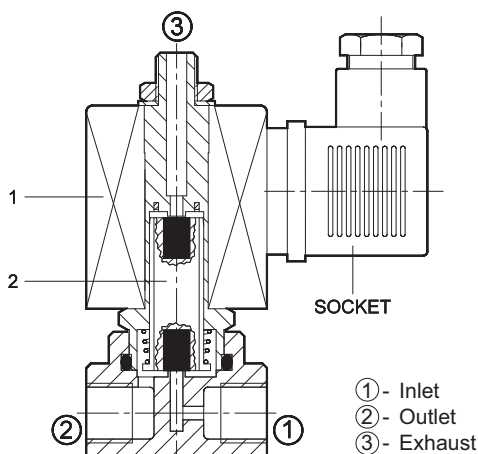


For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

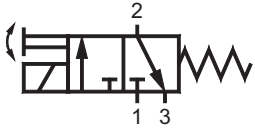
Spare parts list

Ref. No.	Coil (without socket)	Ordering no. for	
		AC 50Hz	DC
1	220	AC11A	- NA -
	110	AC11B	DC12Q
	48	AC11D	DC12S
	24	AC11G	DC12W
	12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711



Caution:

A.C coil should not be used on a D.C coil valve, and vice versa.



SOLENOID VALVE

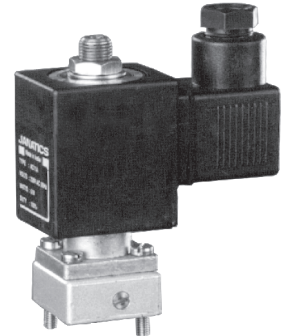
J Series

Cat No J004 - 04

3 / 2 Direct acting, normally closed, gang mounting valve

Features

- Gang mounting type (Manifolds for gang mounting of 1 ,2, 5 & 9 valves are available - for details refer next page)
- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Noiseless performance
- Manual operator (Screw driver type)



Technical Specifications

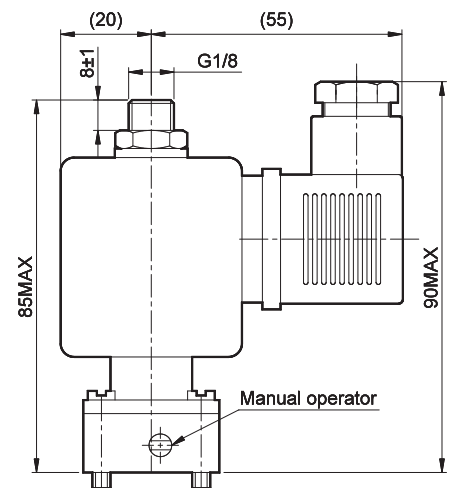
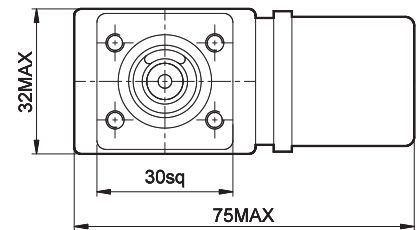
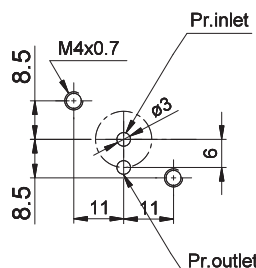
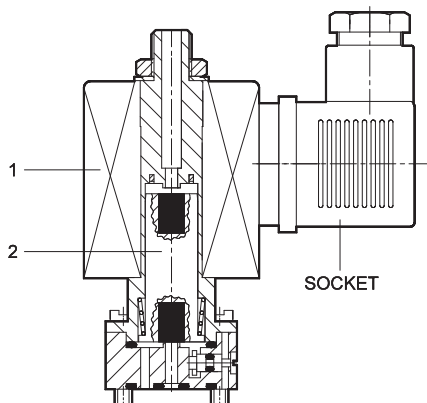
Model #	E24002		
Port size	Exhaust G1/8		
Medium	Filtered compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	2		
Operating pressure range (bar)	0 - 10		
Flow rate (lpm) *	140		
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz)	DC	
	24, 48, 110, 220	12	24, 48, 110
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

Spare parts list

Ref. No.	Coil (without socket)	Ordering no. for	
		AC 50Hz	DC
1	220	AC11A	- NA -
	110	AC11B	DC12Q
	48	AC11D	DC12S
	24	AC11G	DC12W
	12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711



Caution:

A.C coil should not be used on a D.C coil valve, and vice versa.

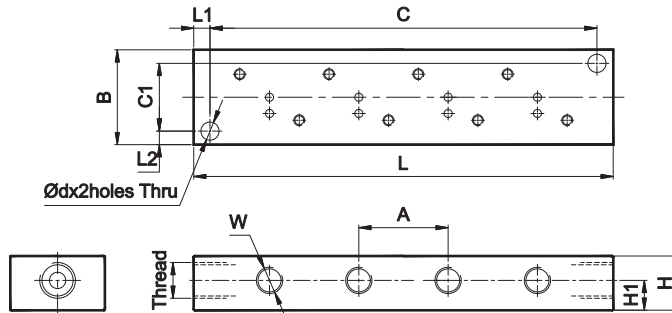
SOLENOID VALVE

J Series

Cat No J004 - 04

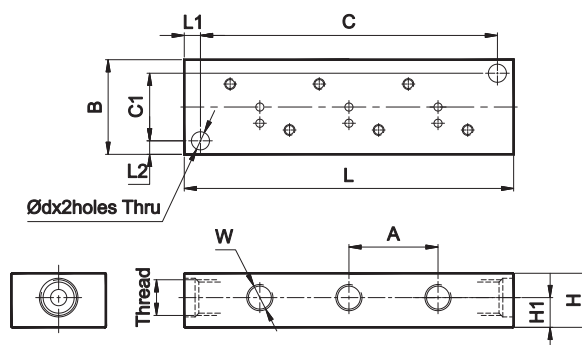
Manifold for Gang Mounting Valves

Plug type manifold



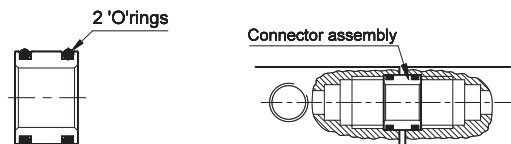
Part Name	Thread	W	B	C	C1	A	$\varnothing d$	L	L1	L2	H	H1	Ordering no.
Four valves	G1/4	G1/8	35	143	25	33	6.7	155	6	5	20	11	LA3029
Six valves	G1/4	G1/8	35	209	25	33	6.7	221	6	5	20	11	LA3030
Nine valves	G1/4	G1/8	35	308	25	33	6.7	320	6	5	20	11	42312

Connector type manifold



Part Name	Thread	W	B	C	C1	A	$\varnothing d$	L	L1	L2	H	H1	Ordering no.
One valve	G1/4	G1/8	35	44	25	-	6.7	56	6	5	20	11	42080
Two valves	G1/4	G1/8	35	77	25	33	6.7	89	6	5	20	11	42070
Three valves	G1/4	G1/8	35	110	25	33	6.7	122	6	5	20	11	LA3035
Five valves	G1/4	G1/8	35	176	25	33	6.7	188	6	5	20	11	42069

Connector assembly

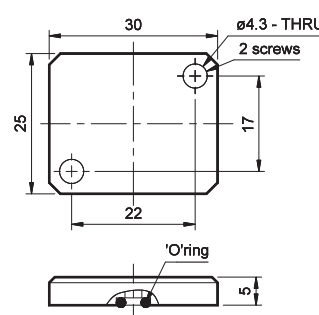


Application:

These connector assemblies can be used to connect two manifolds. For eg., 2 no's of manifolds to Model no. 42080 can be connected together. This is applicable for the connector type manifold only.

Part Name	Ordering no.
Connector assembly	MS001
Cover plate assembly	MS002

Cover plate assembly



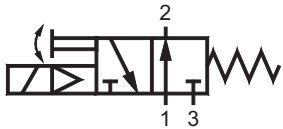
Application:

These cover plate assemblies can be used to plug the unutilised position in a manifold.

For eg., if it is required to mount only 8 valves on manifold no. 42312, the 9th position can be plugged and made dummy using one cover plate assembly.

How to Order

While ordering valve, mention the ordering number given in the corresponding tables.



SOLENOID VALVE - G1/4

J Series

Cat No J005 - 06

3 / 2 Pilot operated normally open valve

Features

- Diaphragm operated poppet seat type
- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Manual operator (Screw driver type)
- Noiseless performance
- Good flow characteristics



Technical Specifications

Model #	EL13615		
Port size	Inlet, Outlet, Exhaust - G1/4		
Medium	Filtered compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	6		
Operating pressure range (bar)	2 - 10		
Cv value	0.65		
Flow rate (lpm) *	650		
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220	DC 12, 24, 48, 110	
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

Spare parts list

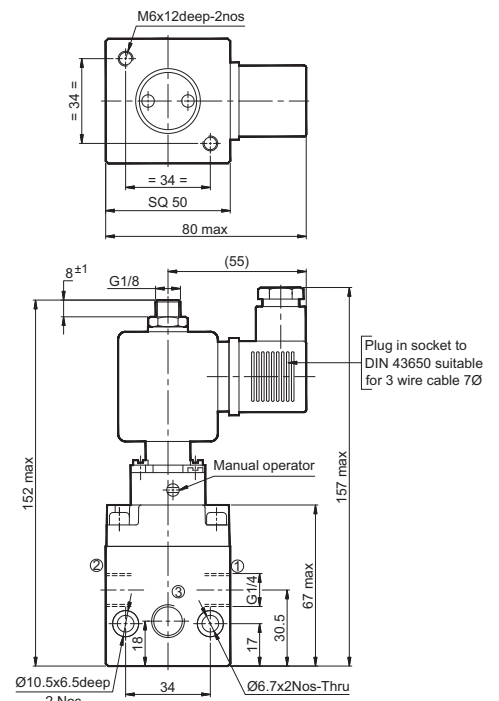
Ref. No.	Coil (without socket)	Ordering no. for		
		Voltage	AC	DC
1		220	AC11A	- NA -
		110	AC11B	DC12Q
		48	AC11D	DC12S
		24	AC11G	DC12W
		12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711	
3	Solenoid valve sub assembly complete (without coil) Consists of 1. Solenoid valve sub assembly 2. Screws – 2 no's 3. 'O' rings – 2 no's	E24001-A	E24001-D	
	Seal kit consists of all rubber items for the main valve (4)	SK3611		

Caution:

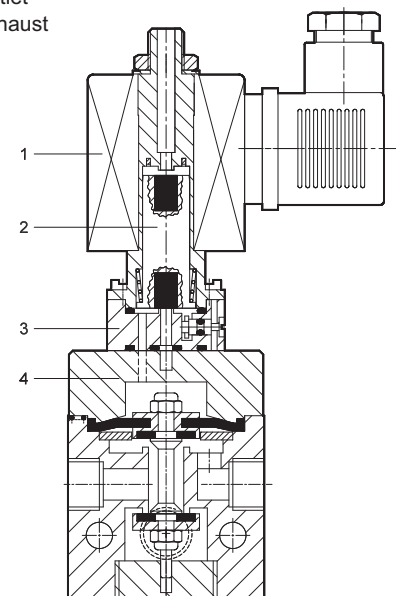
A. To ensure proper functioning

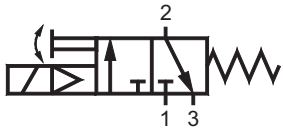
1. Please ensure that inlet port is connected to tubing of 6 mm ID minimum from the compressor air source.
2. Exhaust should not be restricted.

B. A.C coil should not be used on a D.C coil valve, and vice versa.



- ① - Inlet
- ② - Outlet
- ③ - Exhaust





SOLENOID VALVE - G1/4

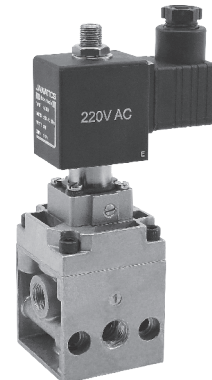
J Series

Cat No J006 - 06

3 / 2 Pilot operated normally closed valve

Features

- Diaphragm operated poppet seat type
- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Manual operator (Screw driver type)
- Noiseless performance
- Good flow characteristics



Technical Specifications

Model #	EL14615		
Port size	Inlet, Outlet, Exhaust - G1/4		
Medium	Filtered compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	6		
Operating pressure range (bar)	2 – 10		
Cv value	0.65		
Flow rate (lpm) *	650		
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220	DC 12, 24, 48, 110	
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

Spare parts list

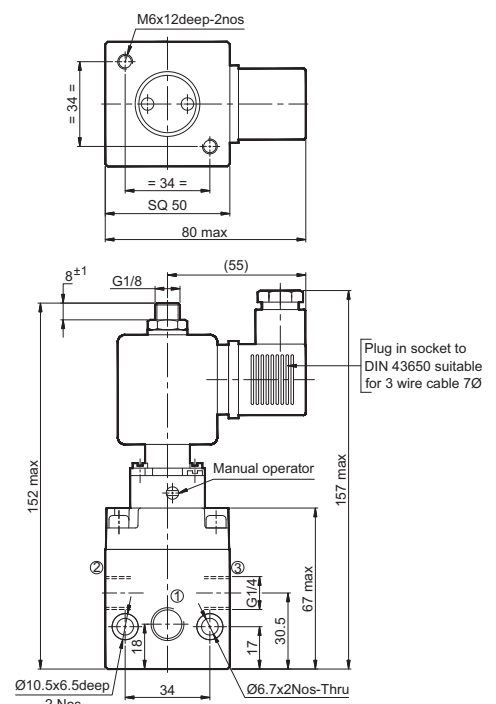
Ref. No.	Coil (without socket)	Ordering no. for	
		AC	DC
1	220	AC11A	- NA -
	110	AC11B	DC12Q
	48	AC11D	DC12S
	24	AC11G	DC12W
	12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711
3	Solenoid valve sub assembly complete (without coil) Consists of 1. Solenoid valve sub assembly 2. Screws – 2 no's 3. 'O' rings – 2 no's	E24001-A	E24001-D
	Seal kit consists of all rubber items for the main valve (4)	SK3611	

Caution:

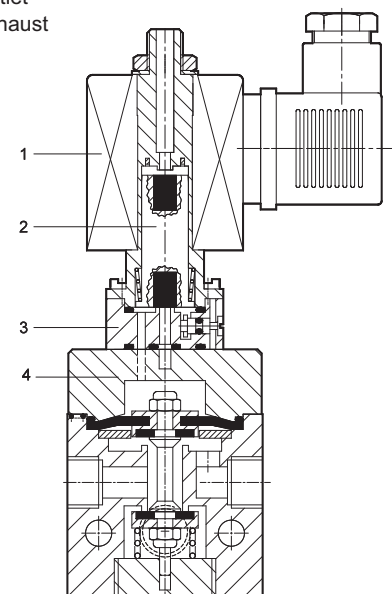
A. To ensure proper functioning

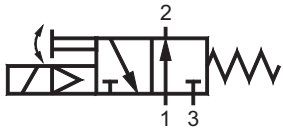
1. Please ensure that inlet port is connected to tubing of 6 mm ID minimum from the compressor air source.
2. Exhaust should not be restricted.

B. A.C coil should not be used on a D.C coil valve, and vice versa.



- ① - Inlet
- ② - Outlet
- ③ - Exhaust





SOLENOID VALVE - G1/2

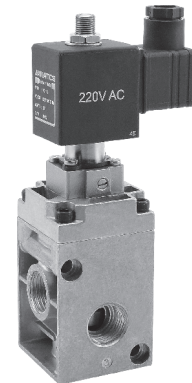
J Series

Cat No J007 - 06

3 / 2 Pilot operated normally open valve

Features

- Diaphragm operated poppet seat type
- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Manual operator (Screw driver type)
- Noiseless performance
- Good flow characteristics



Technical Specifications

Model #	EL13637		
Port size	Inlet, Outlet, Exhaust - G1/2		
Medium	Filtered compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	12		
Operating pressure range (bar)	2 - 10		
Cv value	3		
Flow rate (lpm) *	3000		
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220	12	DC 24, 48, 110
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

Spare parts list

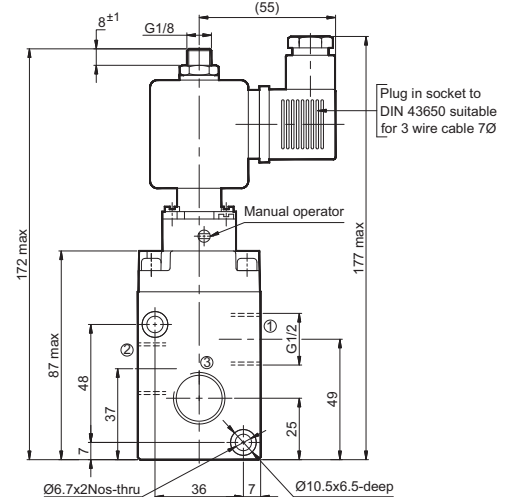
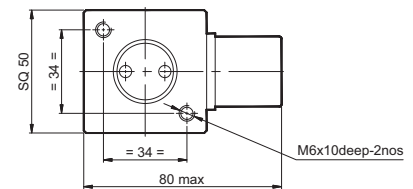
Ref. No.	Coil (without socket)	Ordering no. for		
		Voltage	AC	DC
1		220	AC11A	- NA -
		110	AC11B	DC12Q
		48	AC11D	DC12S
		24	AC11G	DC12W
		12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711	
3	Solenoid valve sub assembly complete (without coil) Consists of 1. Solenoid valve sub assembly 2. Screws – 2 no's 3. 'O' rings – 2 no's	E24001-A	E24001-D	
	Seal kit consists of all rubber items for the main valve (4)	SK3631		

Caution:

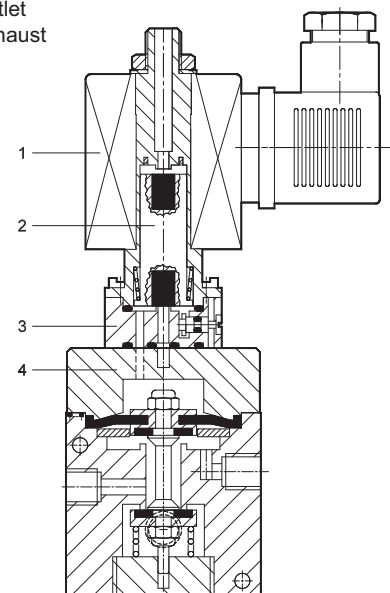
A. To ensure proper functioning

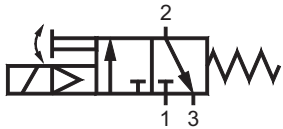
1. Please ensure that inlet port is connected to tubing of 10 mm ID minimum from the compressor air source.
2. Exhaust should not be restricted.

B. A.C coil should not be used on a D.C coil valve, and vice versa.



- ① - Inlet
- ② - Outlet
- ③ - Exhaust





SOLENOID VALVE - G1/2

J Series

Cat No J008 - 06

3 / 2 Pilot operated normally closed valve

Features

- Diaphragm operated poppet seat type
- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Manual operator (Screw driver type)
- Noiseless performance
- Good flow characteristics



Technical Specifications

Model #	EL14637		
Port size	Inlet, Outlet, Exhaust - G1/2		
Medium	Filtered compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	12		
Operating pressure range (bar)	2 - 10		
Cv value	3		
Flow rate (lpm) *	3000		
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220	DC 12, 24, 48, 110	
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

Spare parts list

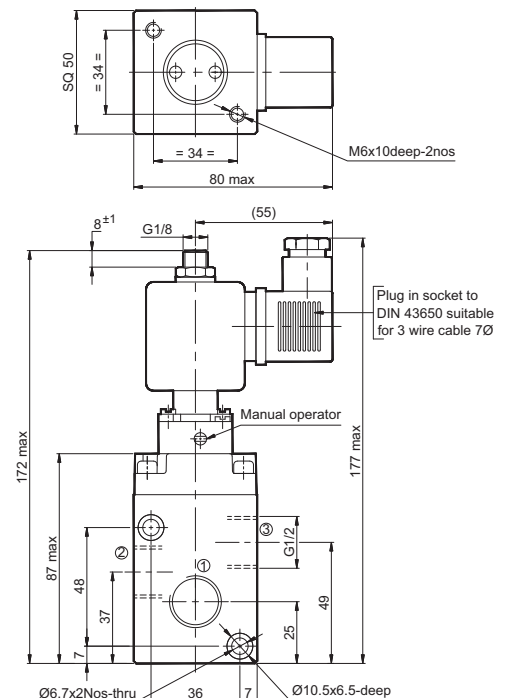
Ref. No.	Coil (without socket)	Ordering no. for	
		AC	DC
1	220	AC11A	- NA -
	110	AC11B	DC12Q
	48	AC11D	DC12S
	24	AC11G	DC12W
	12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711
3	Solenoid valve sub assembly complete (without coil) Consists of 1. Solenoid valve sub assembly 2. Screws – 2 no's 3. 'O' rings – 2 no's	E24001-A	E24001-D
	Seal kit consists of all rubber items for the main valve (4)	SK3631	

Caution:

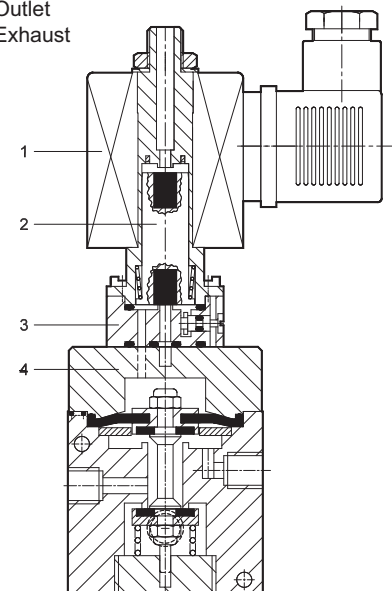
A. To ensure proper functioning

1. Please ensure that inlet port is connected to tubing of 10 mm ID minimum from the compressor air source.
2. Exhaust should not be restricted.

B. A.C coil should not be used on a D.C coil valve, and vice versa.



- ① - Inlet
- ② - Outlet
- ③ - Exhaust





SOLENOID VALVE - G1/4

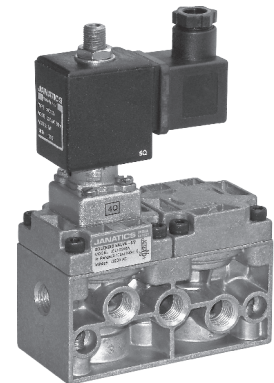
J Series

Cat No J009 - 06

5 / 2 Single solenoid pilot operated valve

Features

- Diaphragm operated poppet seat type
- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Manual operator (Screw driver type)
- Noiseless performance
- Good flow characteristics

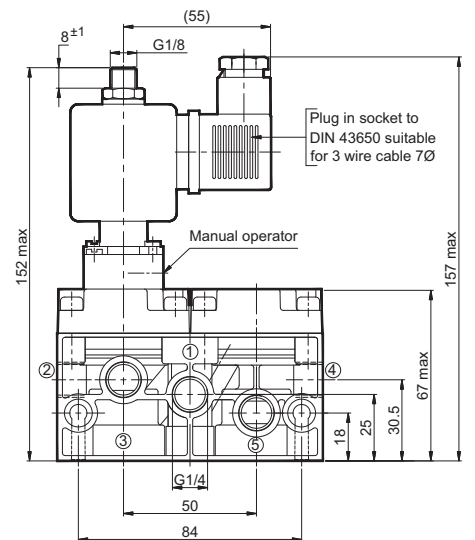
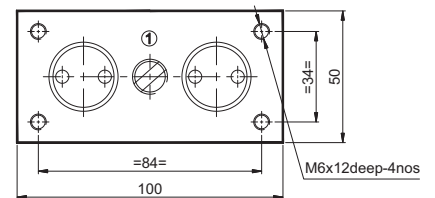


Technical Specifications

Model #	EL15615		
Port size	Inlet, Outlet, Exhaust - G1/4		
Medium	Filtered compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	6		
Operating pressure range (bar)	2 - 10		
Flow rate (lpm) *	1100		
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220	DC 12, 24, 48, 110	
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

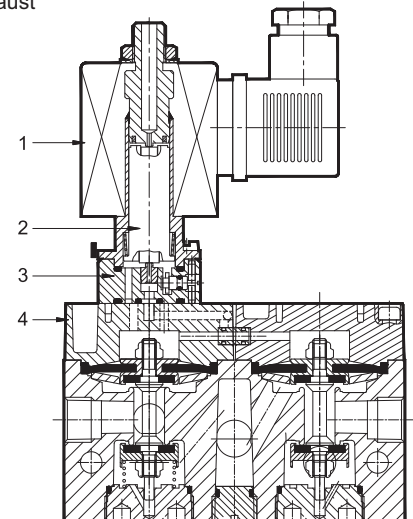
* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar



Spare parts list

Ref. No.	Coil (without socket)	Ordering no. for	
	Voltage	AC	DC
1	220	AC11A	- NA -
	110	AC11B	DC12Q
	48	AC11D	DC12S
	24	AC11G	DC12W
	12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711
3	Solenoid valve sub assembly complete (without coil) Consists of 1. Solenoid valve sub assembly 2. Screws – 2 no's 3. 'O' rings – 2 no's	E24001-A	E24001-D
	Seal kit consists of all rubber items for the main valve (4)	SK5611	

- ① - Inlet - 2 nos.
- ② ④ - Outlet
- ③ ⑤ - Exhaust



Caution:

A. To ensure proper functioning

1. Please ensure that inlet port is connected to tubing of 6 mm ID minimum from the compressor air source.
2. Exhaust should not be restricted.

B. A.C coil should not be used on a D.C coil valve, and vice versa.



SOLENOID VALVE - G1/2

J Series

Cat No J010 - 06

5 / 2 Single solenoid pilot operated valve

Features

- ❑ Diaphragm operated poppet seat type
- ❑ Wide range of coil voltages
- ❑ Continuous duty cycle
- ❑ Low temperature of operation
- ❑ Manual operator (Screw driver type)
- ❑ Noiseless performance
- ❑ Good flow characteristics

Technical Specifications

Model #	EL15637		
Port size	Inlet, Outlet, Exhaust - G1/2		
Medium	Filtered compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	12		
Operating pressure (bar)	2 - 10		
Cv value	3		
Flow rate (lpm) *	3000		
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220	DC 12, 24, 48, 110	
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

Spare parts list

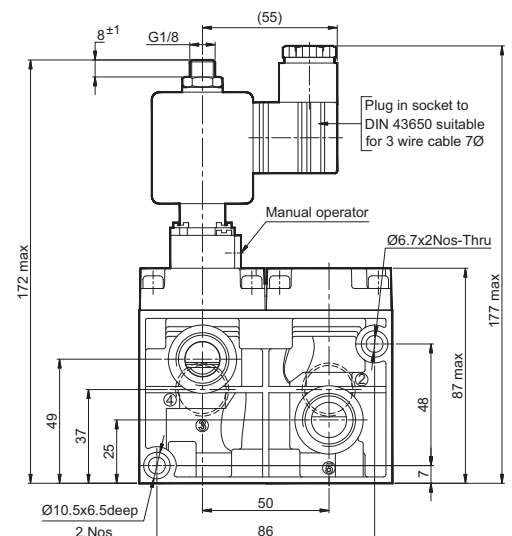
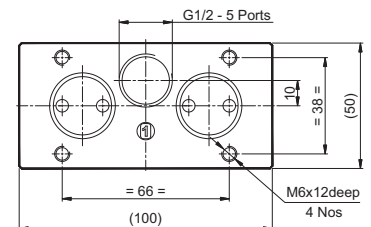
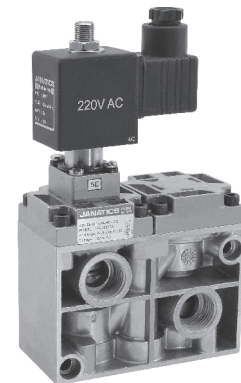
Ref. No.	Coil (without socket)	Ordering no. for		
		Voltage	AC	DC
1		220	AC11A	- NA -
		110	AC11B	DC12Q
		48	AC11D	DC12S
		24	AC11G	DC12W
		12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711	
3	Solenoid valve sub assembly complete (without coil) Consists of 1. Solenoid valve sub assembly 2. Screws – 2 no's 3. 'O' rings – 2 no's	E24001-A	E24001-D	
	Seal kit consists of all rubber items for the main valve (4)	SK5631		

Caution:

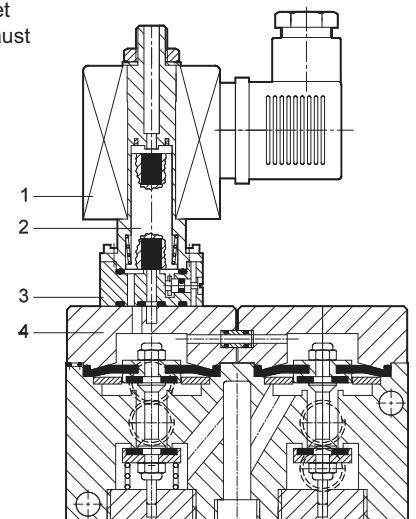
A. To ensure proper functioning

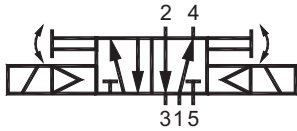
1. Please ensure that inlet port is connected to tubing of 10 mm ID minimum from the compressor air source.
2. Exhaust should not be restricted.

B. A.C coil should not be used on a D.C coil valve, and vice versa.



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





SOLENOID VALVE - G1/4

J Series

Cat No J011 - 06

5 / 2 Double solenoid pilot operated valve

Features

- Diaphragm operated poppet seat type
- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Manual operator (Screw driver type)
- Noiseless performance
- Good flow characteristics

Technical Specifications

Model #	EL25615		
Port size	Inlet, Outlet, Exhaust - G1/4		
Medium	Filtered, Lubricated compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	6		
Operating pressure range (bar)	2 - 10		
Flow rate (lpm) *	1200		
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz)	DC	
	24, 48, 110, 220	12	24, 48, 110
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

Spare parts list

Ref. No.	Coil (without socket)	Ordering no. for	
		AC	DC
1	220	AC11A	- NA -
	110	AC11B	DC12Q
	48	AC11D	DC12S
	24	AC11G	DC12W
	12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711
3	Solenoid valve sub assembly complete (without coil) Consists of 1. Solenoid valve sub assembly 2. Screws – 2 no's 3. 'O'rings – 2 no's	E22001-A	E22001-D
	Seal kit consists of all rubber items for the main valve (4)	SK5611	

Caution:

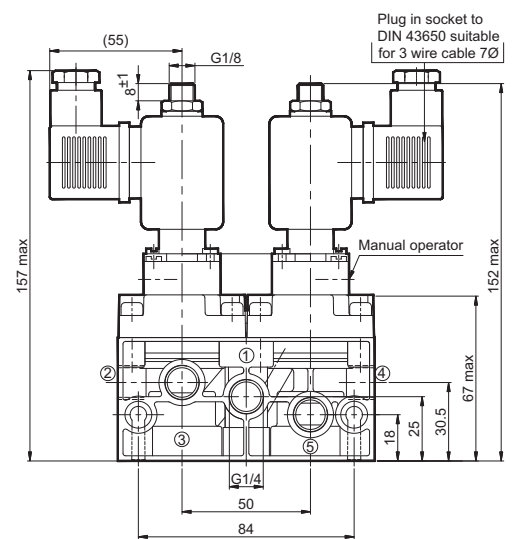
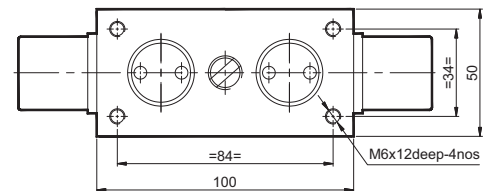
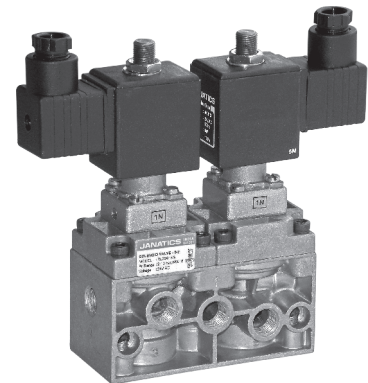
A. To ensure proper functioning

1. Please ensure that inlet port is connected to tubing of 6 mm ID minimum from the compressor air source.
2. Exhaust should not be restricted.

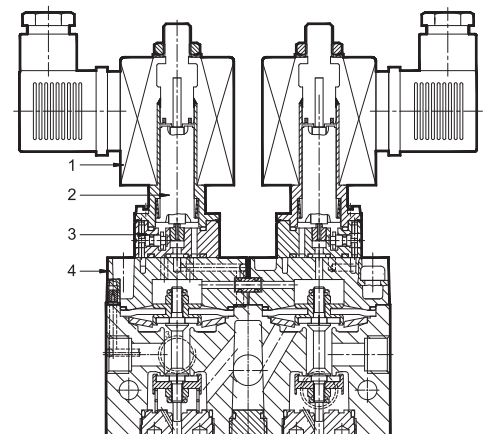
B. Stay put function

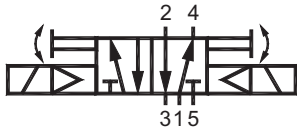
When the valve is in operation, it will be in stay out condition even if the power fails, provided the inlet pressure remains above 2 bar.

C. A.C coil should not be used on a D.C coil valve, and vice versa.



- ① - Inlet - 2 nos.
- ② ④ - Outlet
- ③ ⑤ - Exhaust





SOLENOID VALVE - G1/2

J Series

Cat No J012 - 06

5 / 2 Double solenoid pilot operated valve

Features

- Diaphragm operated poppet seat type
- Wide range of coil voltages
- Continuous duty cycle
- Low temperature of operation
- Manual operator (Screw driver type)
- Noiseless performance
- Good flow characteristics

Technical Specifications

Model #	EL25637		
Port size	Inlet, Outlet, Exhaust - G1/2		
Medium	Filtered, Lubricated compressed air		
Ambient Temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	12		
Operating pressure range (bar)	2 - 10		
Cv value	3		
Flow rate (lpm) *	3000		
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220	12	DC 24, 48, 110
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 2.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

Spare parts list

Ref. No.	Coil (without socket) Voltage	Ordering no. for	
		AC	DC
1	220	AC11A	- NA -
	110	AC11B	DC12Q
	48	AC11D	DC12S
	24	AC11G	DC12W
	12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311	SSA0711
3	Solenoid valve sub assembly complete (without coil) Consists of 1. Solenoid valve sub assembly 2. Screws – 2 no's 3. 'O'rings – 2 no's	E22001-A	E22001-D
	Seal kit consists of all rubber items for the main valve (4)	SK5632	

Caution:

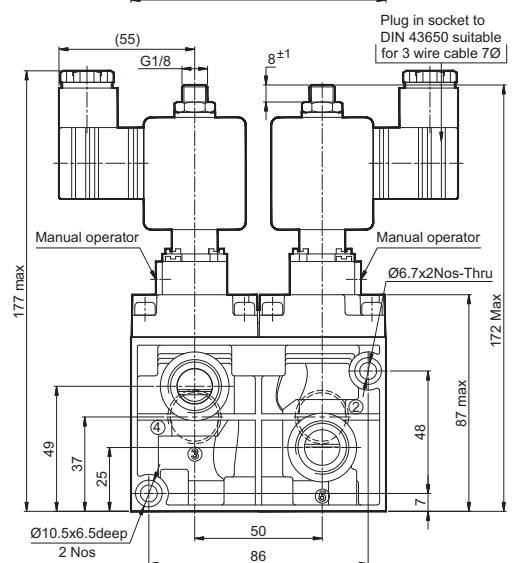
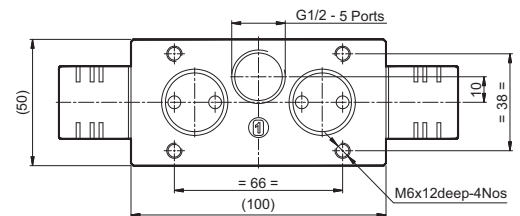
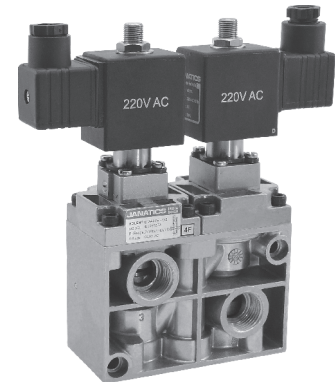
A. To ensure proper functioning

1. Please ensure that inlet port is connected to tubing of 10 mm ID minimum from the compressor air source.
2. Exhaust should not be restricted.

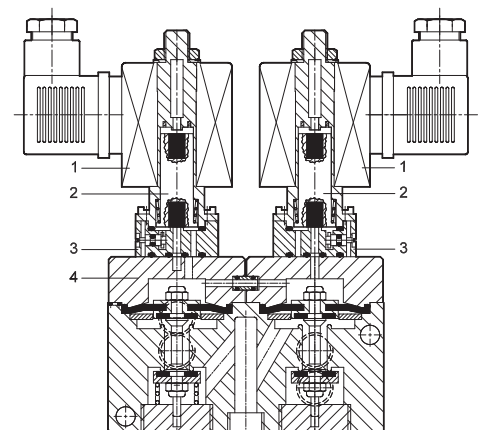
B. Stay put function

When the valve is in operation, it will be in stay out condition even if the power fails, provided the inlet pressure remains above 2 bar.

C. A.C coil should not be used on a D.C coil valve, and vice versa.



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



SOLENOID VALVE

J Series

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

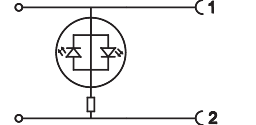
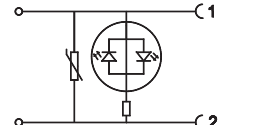
A	220V AC	Q	110V D C
B	110V AC	S	48V D C
D	48V AC	W	24V D C
G	24V AC	R	12V D C

Example

- The ordering no. for 3 / 2 pilot operated NC valve with 24V D.C coil is **EL14615-W**
- The ordering no. for 3 / 2 pilot operated NC valve with 24V D.C coil with Moulded cable is **EL14615-W1**

2. Solenoid valve + “ Connectors with LED ”

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

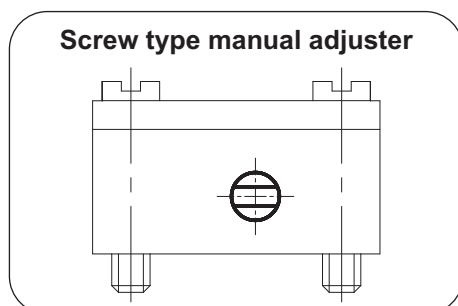
Voltage		Housing Colour & Indication		LED colour		Connection type	
A	220V AC	T0		R	Red	0	PG Cable entry
G	24V AC					1	Moulded cable (with 2metre length)
W	24V DC	T1					
				Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the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

Example

The ordering no. for 3 / 2 pilot operated NC valve with 24V D.C, connectors with LED of Transparent colour housing with Bipolar LED and varistor with moulded cable : **EL14615-WT1R1**

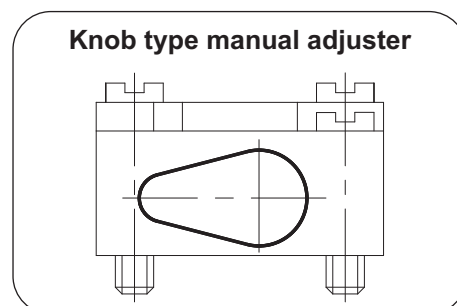
Example

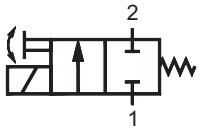
The ordering no. for 3 / 2 pilot operated NC valve with 24V D.C coil is **EL14615W** with screw type manual adjuster (Standard model)



Knob type manual adjuster

The ordering no. for 3 / 2 pilot operated NC valve with 24V D.C coil is **EL14615W - K** with knob type manual adjuster





SOLENOID VALVE - G1/4

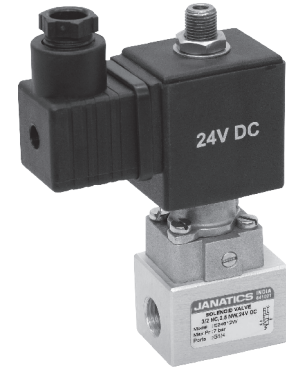
J Series

Cat No J013MA - 01 - A

2 / 2 Direct acting normally closed valve (with manual operator)

Features

- ❑ Wide range of coil voltages
- ❑ Continuous duty cycle
- ❑ Low temperature of operation
- ❑ Noiseless performance
- ❑ Coil can be rotated by 360°
- ❑ Manual operator (Screw & Knob type)

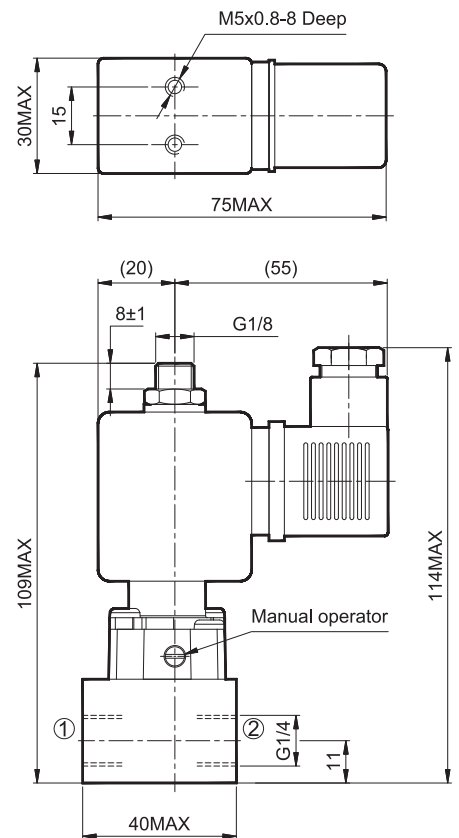


Technical Specifications

Model #	E22613	E22612	E22611
Port size	Inlet, Outlet - G1/4		
Medium	Filtered compressed air		
Ambient temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	2.5	2	1.2
Operating pressure (bar)	0 - 7	0 - 10	0 - 20
Flow rate (lpm) *	180	140	60
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz)		DC
	24, 48, 110, 220	12	24, 48, 110
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 3.1.1

* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

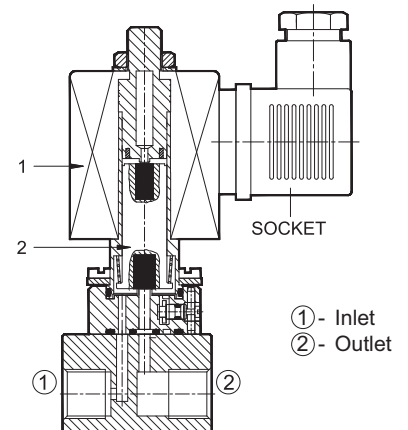
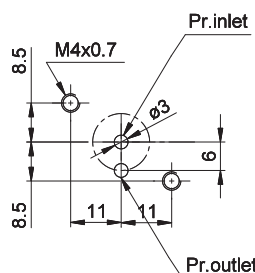


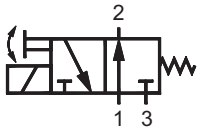
Spare parts list

Ref. No.	Coil (without socket)		Ordering no. for	
	Voltage		AC 50Hz	DC
1	220		AC11A	- NA -
	110		AC11B	DC12Q
	48		AC11D	DC12S
	24		AC11G	DC12W
	12		- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring		SSA0311-H	SSA0711-H

Caution:

A.C coil should not be used on a D.C coil valve, and vice versa.





SOLENOID VALVE - G1/4

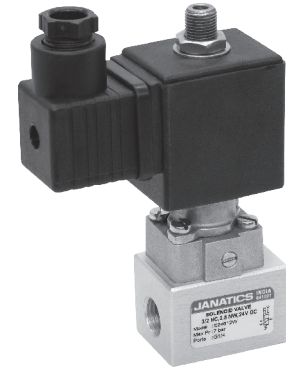
J Series

Cat No J002MA - 04 - A

3 / 2 Direct acting normally open valve (with manual operator)

Features

- ❑ Wide range of coil voltages
- ❑ Continuous duty cycle
- ❑ Low temperature of operation
- ❑ Noiseless performance
- ❑ Coil can be rotated by 360°
- ❑ Manual operator (Screw & Knob type)



Technical Specifications

Model #	E23613	E23612	E23611
Port size	Inlet - G1/8, Outlet, Exhaust - G1/4		
Medium	Filtered compressed air		
Ambient temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	2.5	2	1.2
Operating pressure (bar)	0 - 7	0 - 10	0 - 20
Flow rate (lpm) *	180	140	60
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220		
Power consumption (Watts)	6		
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 3.1.1

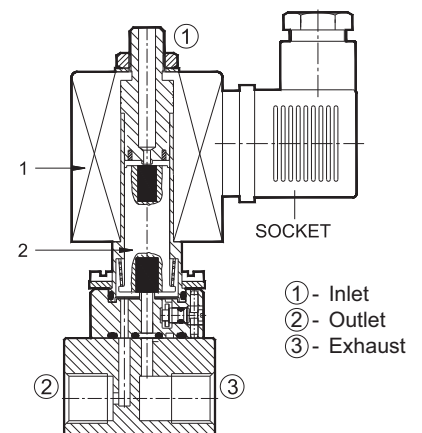
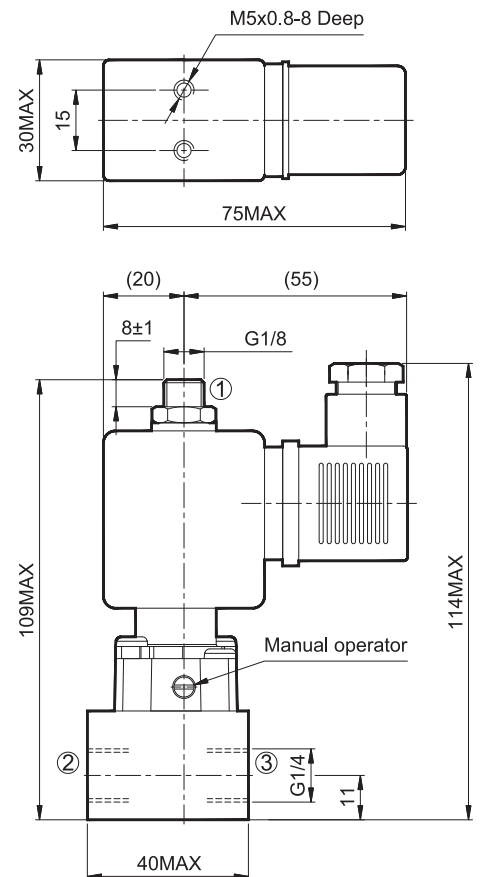
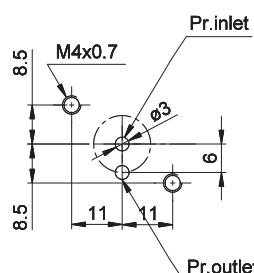
* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

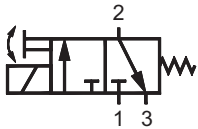
Spare parts list

Ref. No.	Coil (without socket)		Ordering no. for
	Voltage		
1	220		AC11A
	110		AC11B
	48		AC11D
	24		AC11G
	12		- NA -
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring		SSA0411-H

Caution:

A.C coil should not be used on a D.C coil valve, and vice versa.





SOLENOID VALVE - G1/4

J Series

Cat No J003MA - 04 - A

3 / 2 Direct acting normally closed valve (with manual operator)

Features

- ❑ Wide range of coil voltages
- ❑ Continuous duty cycle
- ❑ Low temperature of operation
- ❑ Noiseless performance
- ❑ Coil can be rotated by 360°
- ❑ Manual operator (Screw & Knob type)



Technical Specifications

Model #	E24613	E24612	E24611
Port size	Inlet, Outlet - G1/4, Exhaust - G1/8		
Medium	Filtered compressed air		
Ambient temperature	-10° to +60° C		
Medium temperature	+5° to +50° C		
Orifice (NW)	2.5	2	1.2
Operating pressure (bar)	0 - 7	0 - 10	0 - 20
Flow rate (lpm) *	180	140	60
Electrical			
Coil width	32 mm		
Voltage (V) ± 10%	AC (50 Hz)		DC
	24, 48, 110, 220	12	24, 48, 110
Power consumption (Watts)	6	9	8
Duty cycle	Continuous		
Type of coil protection	IP65		
Class of insulation	Class F		
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile		

For ordering refer page no. 3.1.1

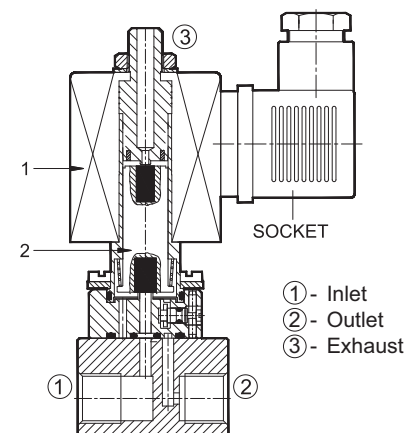
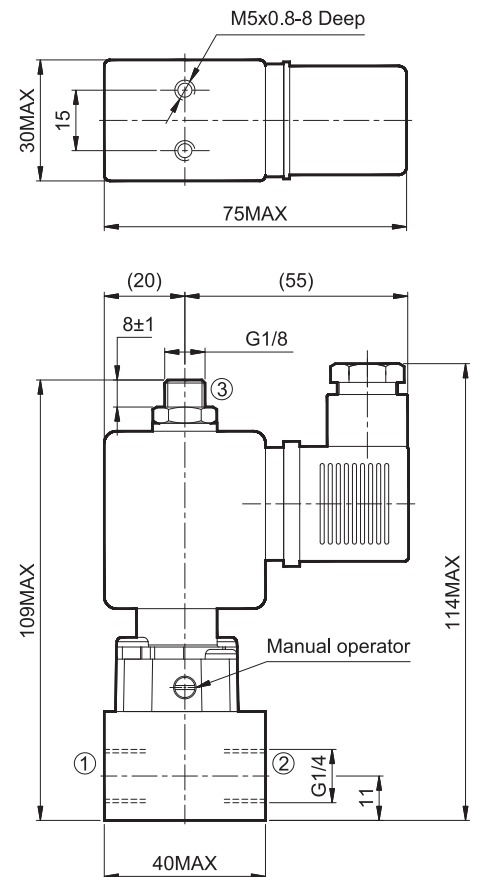
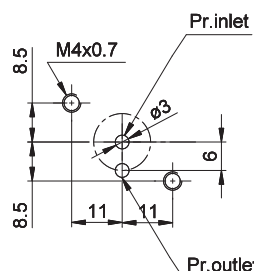
* at 6 bar inlet, 5 bar outlet, with pressure drop $\Delta p = 1$ bar

Spare parts list

Ref. No.	Coil (without socket)	Ordering no. for	
	Voltage	AC 50Hz	DC
1	220	AC11A	- NA -
	110	AC11B	DC12Q
	48	AC11D	DC12S
	24	AC11G	DC12W
	12	- NA -	DC15R
2	Moving core sub assembly complete consists of 1. moving core subassembly 2. main spring	SSA0311-H	SSA0711-H

Caution:

A.C coil should not be used on a D.C coil valve, and vice versa.



SOLENOID VALVE - G1/4

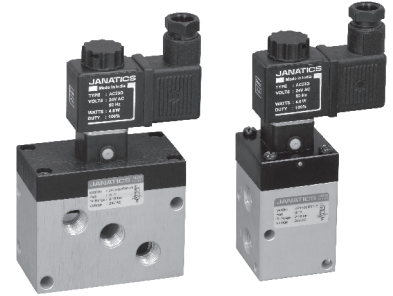
DP1 Series

Cat No DP1 - 01 - 01

PNEUMATIC VALVE - G1/4

Features

- Diaphragm operated poppet seat
- No lubrication required
- Maintenance free
- Wide range of coil voltages
- Continuous duty cycle
- Good flow characteristics
- Coil can be rotated by 360°
- Suitable for dirty / dusty environment



Technical Specifications

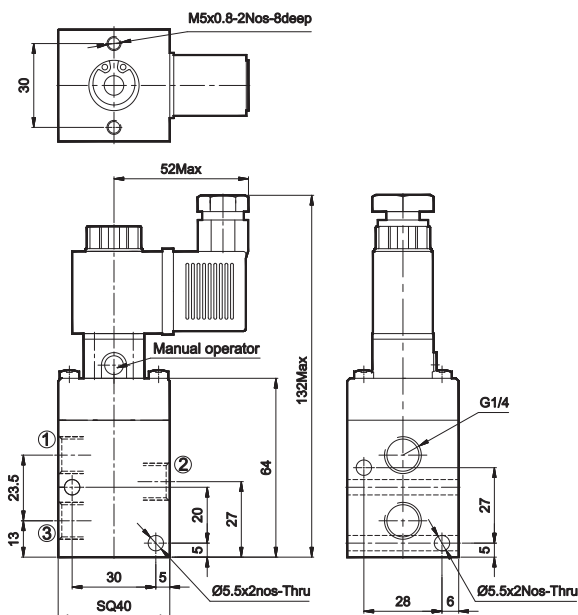
Model	DP1	
Type	3/2	5/2
Port size	Inlet (1), Outlet (2,4), Exhaust (3,5) - G1/4	
Medium	Compressed air	
Ambient temperature	-10° to +60° C	
Medium temperature	+5° to +50° C	
Operating pressure range (bar)	2 to 10 bar	
Orifice (NW)	6	
Flow rate @ (lpm)	1000	1000
Electrical		
Coil width	22 mm	
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220	DC 12, 24, 48, 110
Power consumption	6 VA	5 W
Duty cycle	Continuous	
Class of insulation	Class F	
Type of coil protection	IP65	
Materials of construction	Aluminium, Brass, Stainless steel, Nitrile	

@ Inlet pressure 6 bar, and pressure drop 1 bar

Spare parts list

Ref. No.	Coil (without socket)		Ordering no. for	
	Voltage (V)		AC 50Hz	DC
1	220		AC23A	Nil
	110		AC23B	DC24Q
	48		AC23D	DC24S
	24		AC23G	DC24W
	12		Nil	DC24R
2	Actuator assembly		SC3001	

3 / 2 Single solenoid pilot operated normally open valve with spring return



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DP135SR61
Symbol	

Note: Modular valve rotatable by 90° incremental in 4 positions. We can assemble according to the manual operator position requirement.

Caution:

A. To ensure proper functioning

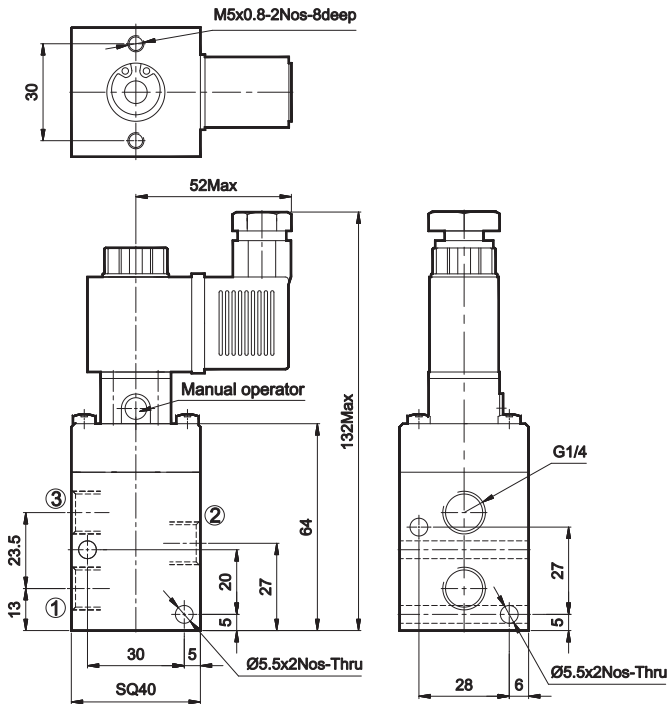
1. Please ensure that inlet port is connected to tubing of 6 mm ID minimum from the compressor air source.
2. Exhaust should not be restricted.

SOLENOID VALVE - G1/4

DP1 Series

Cat No DP1 - 01 - 01

3 / 2 Single solenoid pilot operated normally closed valve with spring return

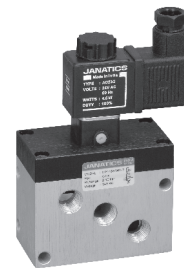
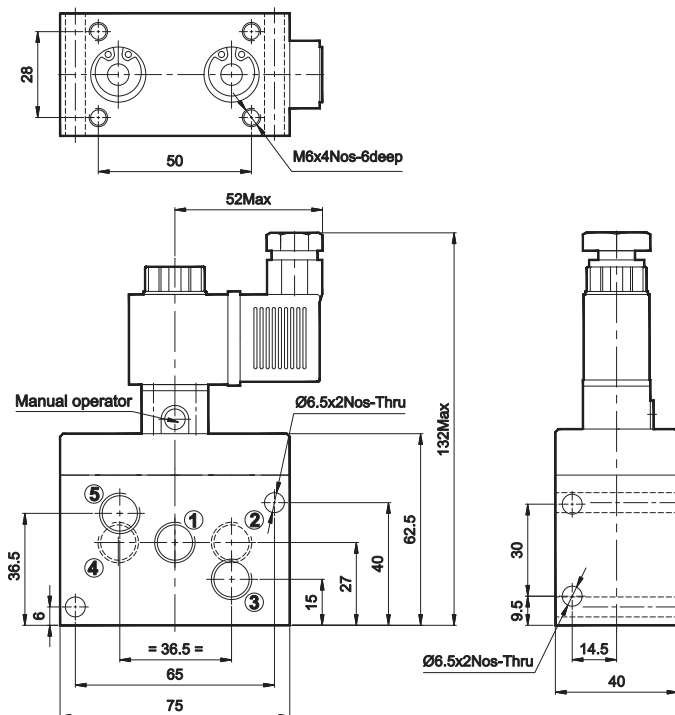


1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DP145SR61
Symbol	

Note: Modular valve rotatable by 90° incremental in 4 positions. We can assemble according to the manual operator position requirement.

5 / 2 Single solenoid pilot operated valve with spring return



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

Ordering No	DP155SR61
Symbol	

SOLENOID VALVE - G1/4

DP1 Series

Cat No DP1 - 01 - 01

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



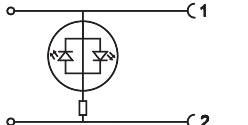
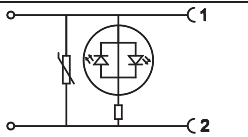
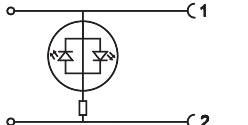
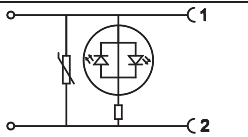

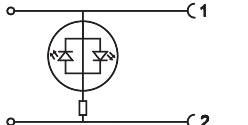
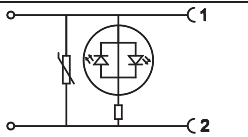
A 220V AC	Q 110V D C
B 110V AC	S 48V D C
D 48V AC	W 24V D C
G 24V AC	R 12V D C

Example

- a. The ordering no. for 3/2 Single solenoid pilot operated NO valve with 24V D.C coil is **DP135SR61-W**
- b. The ordering no. for 3/2 Single solenoid pilot operated NO valve with 24V D.C coil with Moulded cable is **DP135SR61-W1**

2. Solenoid valve + “ Connectors with LED ”

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

 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Voltage</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">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> </tbody> </table>	Voltage		A	220V AC	G	24V AC	W	24V DC	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Housing Colour & Indication</th> </tr> </thead> <tbody> <tr> <td style="width: 10%;">T0</td> <td>  Transparent housing with Bipolar LED indicator confirming supply voltage </td> </tr> <tr> <td>T1</td> <td>  Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load </td> </tr> </tbody> </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	R <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">LED colour</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">R</td> <td>Red</td> </tr> </tbody> </table>	LED colour		R	Red	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Connection type</th> </tr> </thead> <tbody> <tr> <td style="width: 10%;">0</td> <td>PG Cable entry</td> </tr> <tr> <td>1</td> <td>Moulded cable (with 2metre length)</td> </tr> </tbody> </table>	Connection type		0	PG Cable entry	1	Moulded cable (with 2metre length)
Voltage																											
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G	24V AC																										
W	24V DC																										
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LED colour																											
R	Red																										
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0	PG Cable entry																										
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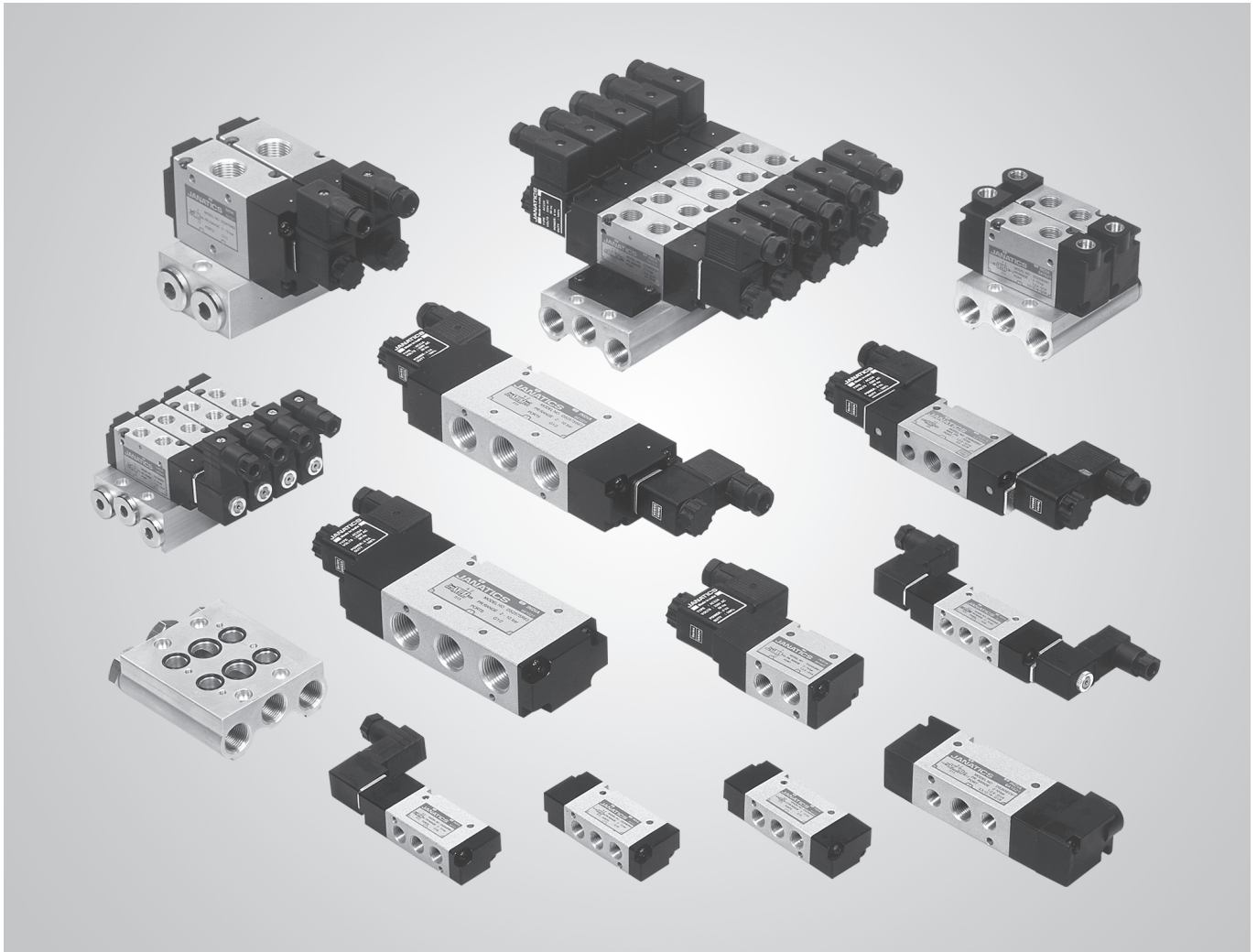
Example

The ordering no. for 3/2 Single solenoid pilot operated NO valve, 24V D.C, connectors with LED of Transparent colour housing with Bipolar LED and varistor with moulded cable : **DP135SR61-WT1R1**

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

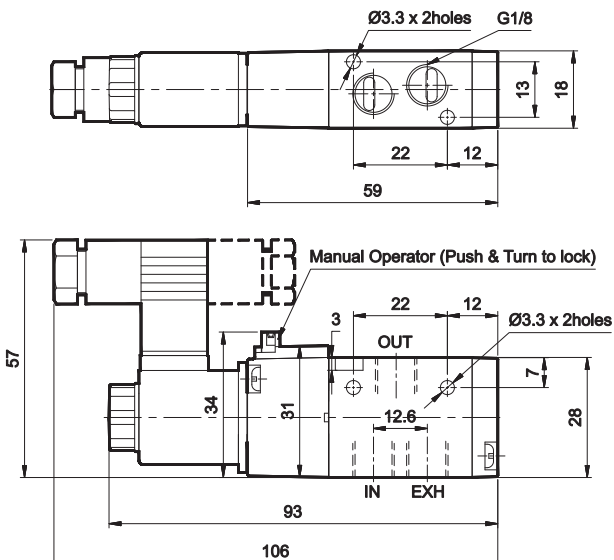


Technical Specifications

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 to 8 bar
External pilot pressure (ER model)	2 to 4 bar
Recommended oil for lubrication	ISO VG32 (Servo system 32)
Ambient temperature	-10° to +60° C
Medium temperature	+5° to +50° C
Flow @	450 lts/min
Materials of construction	Aluminium, Nitrile, Brass, Acetal, PBT, Zinc, SS, Nylon, Polyamide
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		

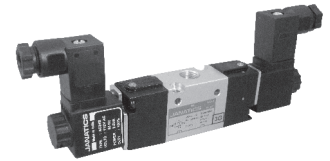
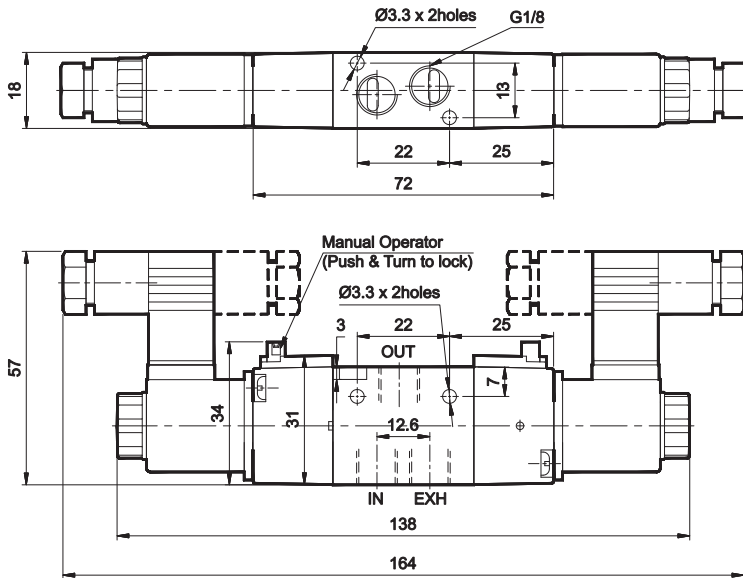
* For ordering No, voltage to be added. Refer page no. 2.3.9

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

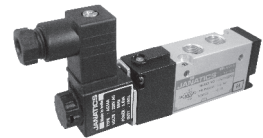
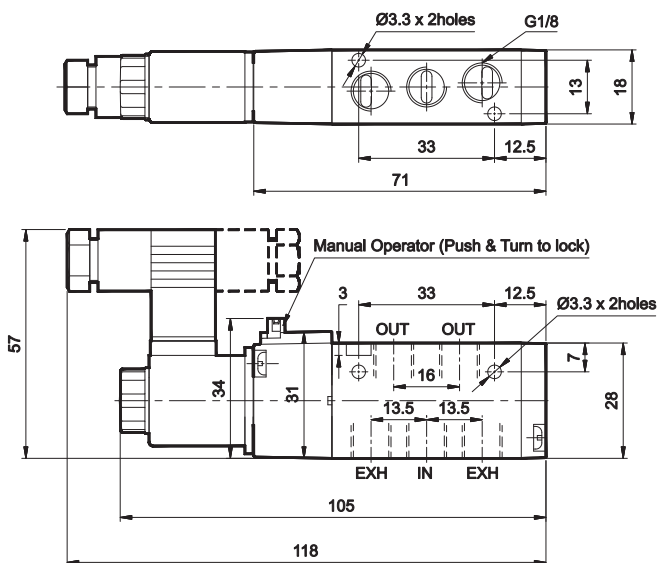
3 / 2 Double solenoid pilot operated valve



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No*	DS234SS60	DS244SS60
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*	DS254SR60
Symbol	

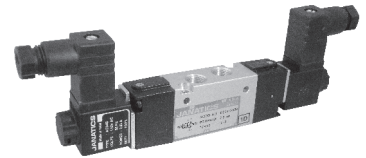
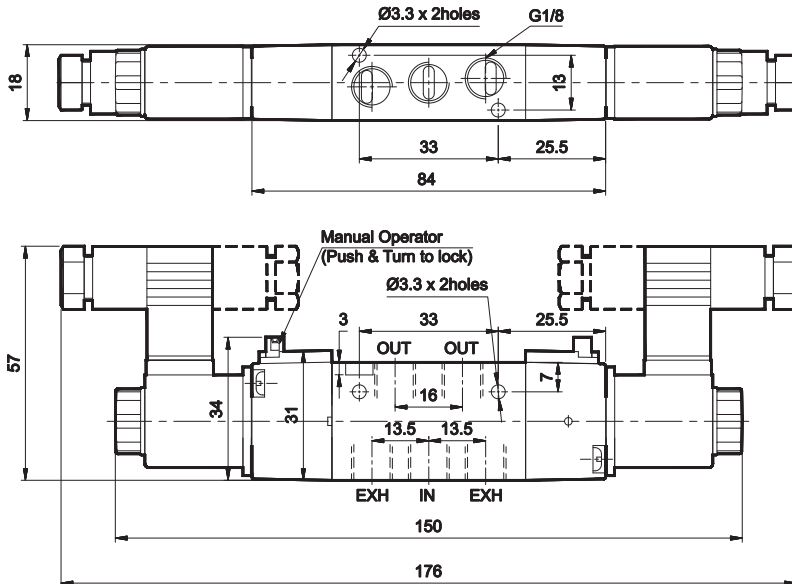
* For ordering No, voltage to be added. Refer page no. 2.3.9

COMPACT VALVE - 1/8

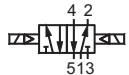
Series DS2

Cat No DS2 - 01 - 07

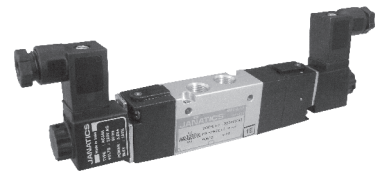
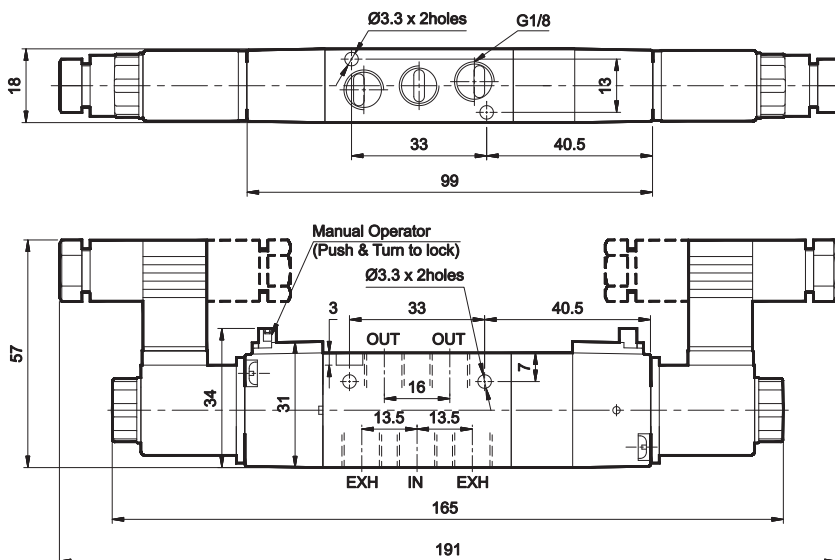
5 / 2 Double solenoid pilot operated valve





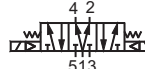
1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust

Ordering No*	DS254SS60
Symbol	

5 / 3 Double solenoid pilot operated valve with spring centered



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

Ordering No*	DS264SC60	DS274SC60	DS284SC60
Type	Blocked	Exhausted	Energised
Symbol			

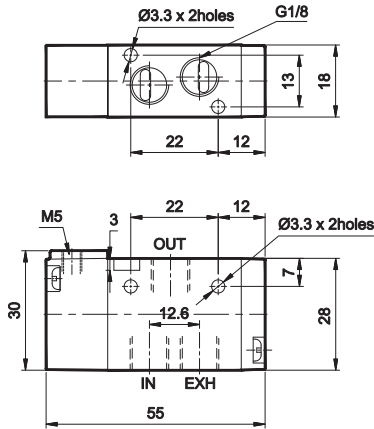
* For ordering No, voltage to be added. Refer page no. 2.3.9

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

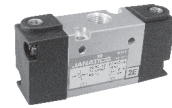
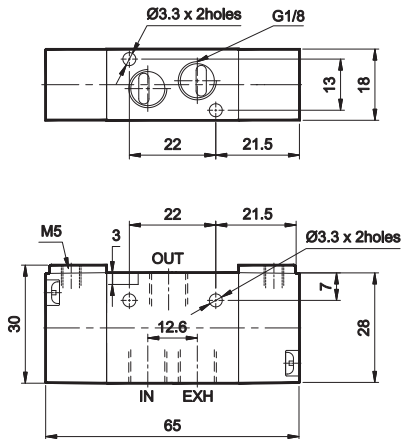
3 / 2 Single External pilot operated valve with spring return



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

Ordering No	DS234ER60	DS244ER60
Type	Normally open	Normally closed
Symbol		

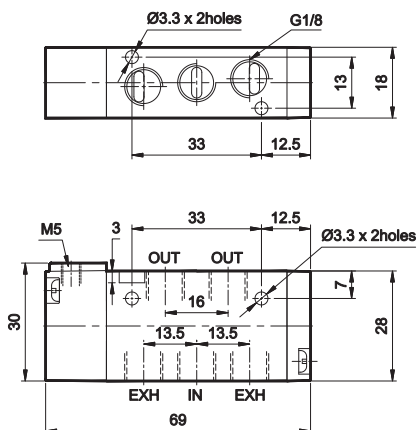
3 / 2 Double External pilot operated valve



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

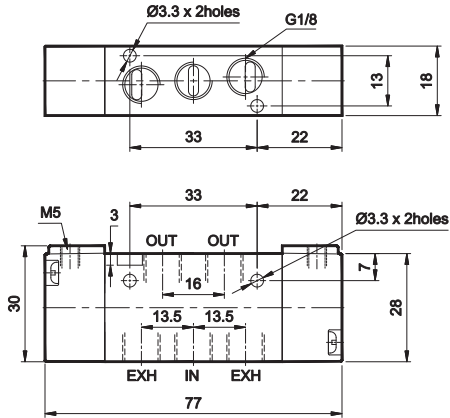
Ordering No	DS254ER60
Symbol	

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

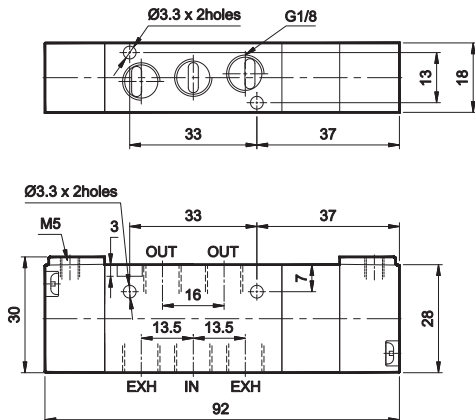
5 / 2 Double External pilot operated valve



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			

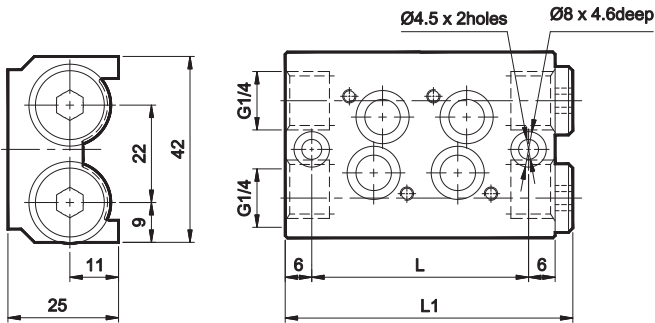
COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

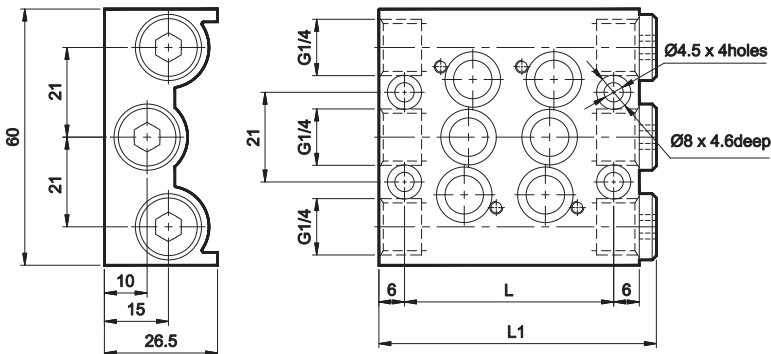
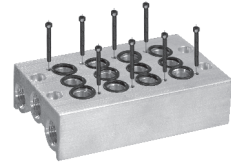
MANIFOLDS FOR COMPACT VALVE

Manifold - Type M051 (for 3/2 valves)



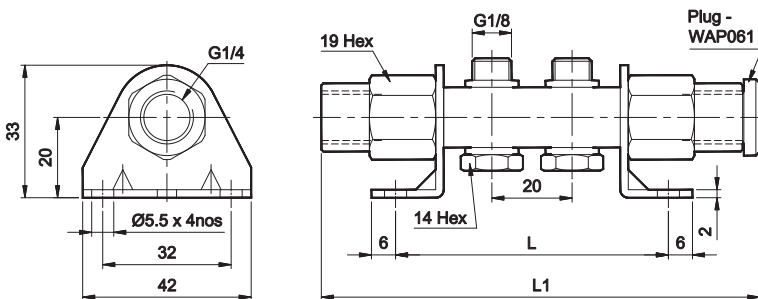
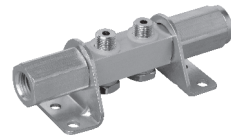
For mounting	L	L1	Ordering no
2 valves	49	65	M0510102
4 valves	87	103	M0510104
6 valves	125	141	M0510106
8 valves	163	179	M0510108

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

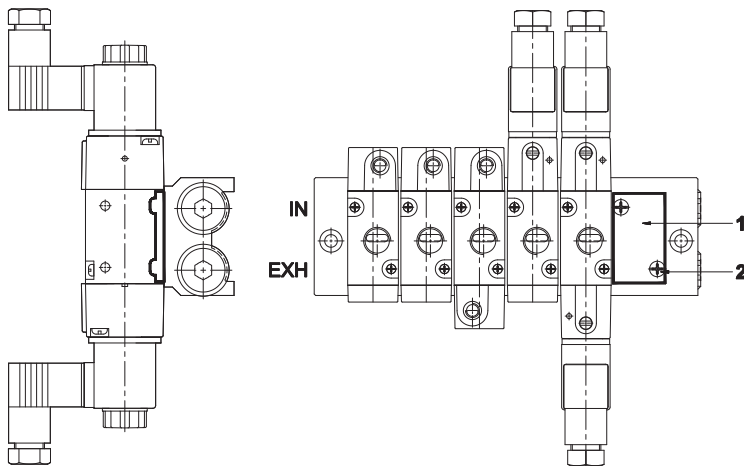
COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

ACCESSORIES FOR COMPACT VALVE

Cover plate assembly for Manifold Type M051

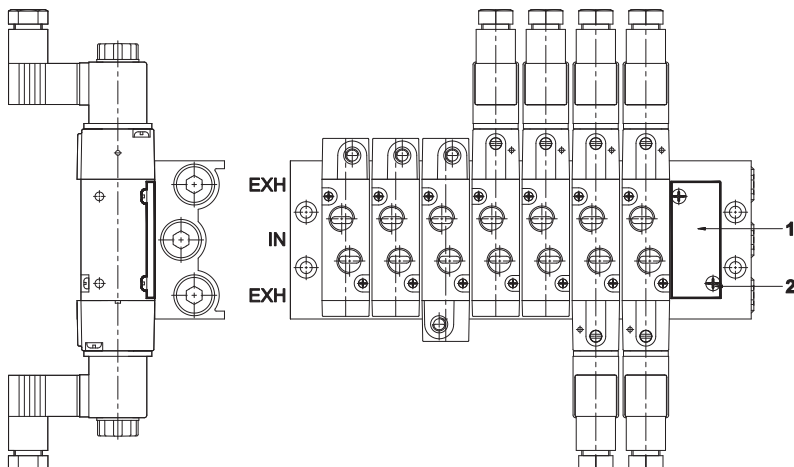


SL NO	Item	Qty	Ordering No
1	Cover plate	1	A4C07
2	Screw - M3x8	2	

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:

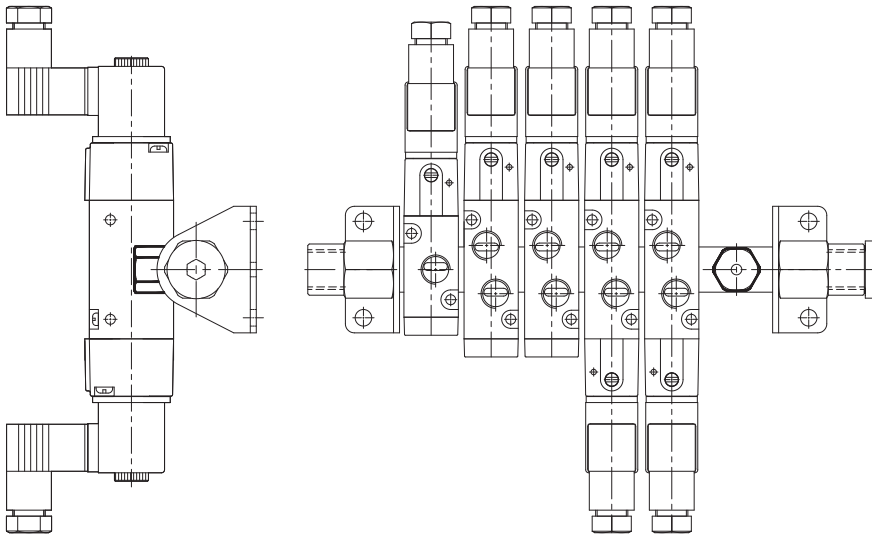
The cover plate assembly can be used to plug the unutilised position in a manifold. For eg., if it is required to mount only 7 valves on manifold no. M0030108, the eighth position can be plugged and made dummy using a cover plate assembly. (refer picture above)

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 - 1/8

Series DS2

Cat No DS2 - 01 - 07

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



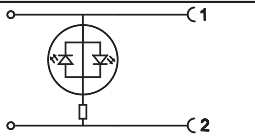
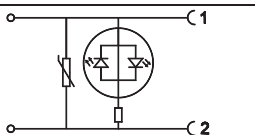
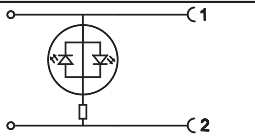
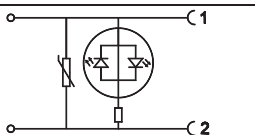

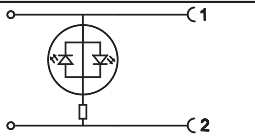
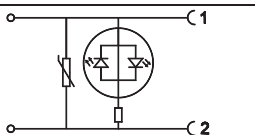
A 220V AC	Q 110V D C
B 110V AC	S 48V D C
D 48V AC	W 24V D C
G 24V AC	R 12V D C

Example

- a. The ordering no. for 3/2 NC Single solenoid valve, 24V D.C coil with PG cable is **DS244SR60-W**
- b. The ordering no. for 3/2 NC Single solenoid valve, 24V D.C coil with Moulded cable is **DS244SR60-W1**

2. Solenoid valve + “ Connectors with LED ”

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

 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Voltage</th> </tr> </thead> <tbody> <tr> <td style="width: 20px;">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> </tbody> </table>	Voltage		A	220V AC	G	24V AC	W	24V DC	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Housing Colour & Indication</th> </tr> </thead> <tbody> <tr> <td style="width: 20px; text-align: center;">T0</td> <td>  Transparent housing with Bipolar LED indicator confirming supply voltage </td> </tr> <tr> <td style="text-align: center;">T1</td> <td>  Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load </td> </tr> </tbody> </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	R <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">LED colour</th> </tr> </thead> <tbody> <tr> <td style="width: 20px;">R</td> <td>Red</td> </tr> </tbody> </table>	LED colour		R	Red	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Connection type</th> </tr> </thead> <tbody> <tr> <td style="width: 20px;">0</td> <td>PG Cable entry</td> </tr> <tr> <td>1</td> <td>Moulded cable (with 2metre length)</td> </tr> </tbody> </table>	Connection type		0	PG Cable entry	1	Moulded cable (with 2metre length)
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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 (1/8"), 24V DC, connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable : **DS244SR60-WT1R1**

Coil spare ordering no.

Coil (without connector)	Ordering no.	
	AC	DC
Voltage		
220	AC34A	- NA -
110	AC34B	DC36Q
48	AC34D	DC36S
24	AC34G	DC36W
12	- NA -	DC36R

COMPACT VALVE - 1/4

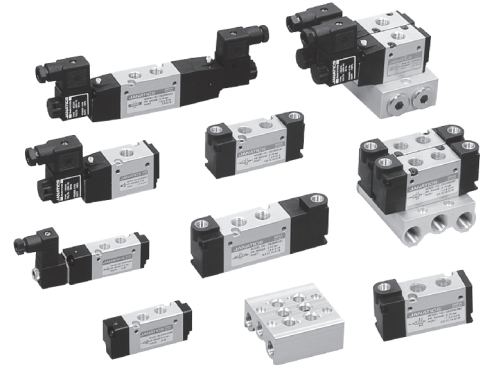
Series DS2

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 Specifications

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
Flow @	1200 lts/min	Inlet to Outlet - 1200 lts/min; Outlet to Exhaust - 700 lts/min
Medium	Compressed air - Dry, filtered, lubricated	
Working Pressure range	2 to 10 bar	
External pilot pressure (ER model)	2 to 4 bar	
Recommended oil for lubrication	ISO VG32 (Servo system 32)	
Ambient temperature	-10° to +60° C	
Medium temperature	+5° to +50° C	
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	

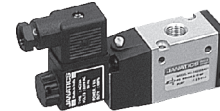
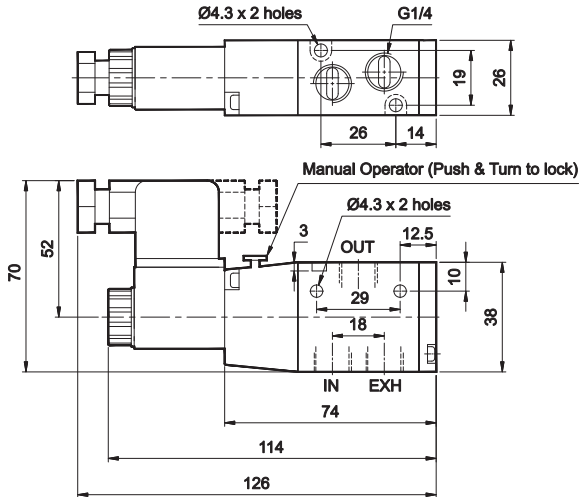
@ Inlet pressure 6 bar, and pressure drop 1 bar

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

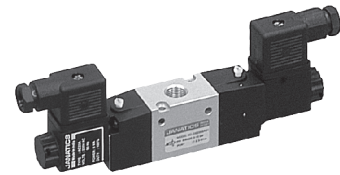
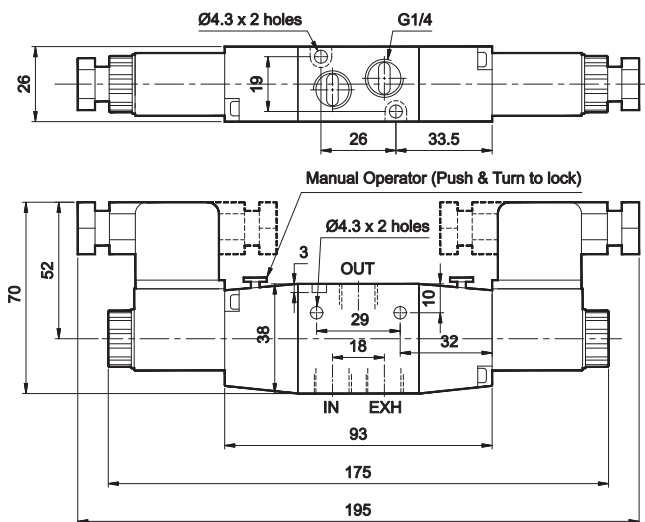
3 / 2 Single Solenoid pilot operated valve with spring return



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No*	DS235SR61	DS245SR61
Type	Normally open	Normally closed
Symbol		

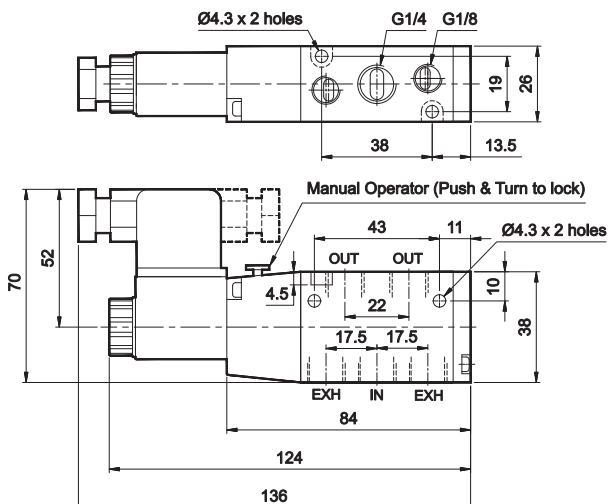
3 / 2 Double solenoid pilot operated valve



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No*	DS235SS61	DS245SS61
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*	DS255SR61
Symbol	

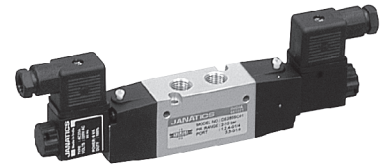
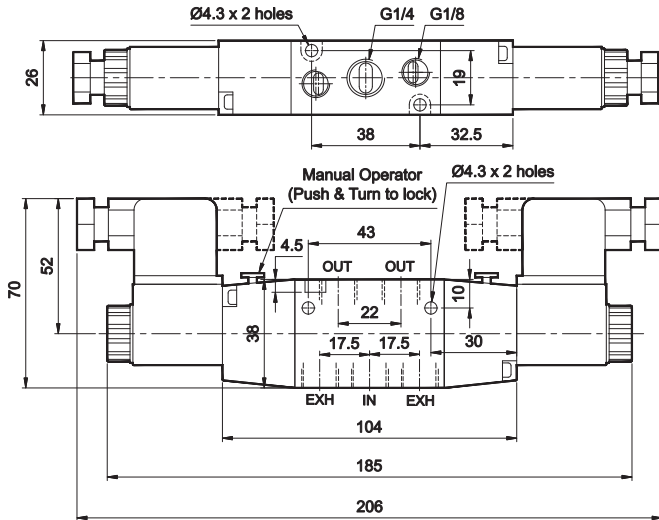
* For ordering No, voltage to be added. Refer page no. 2.3.18

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

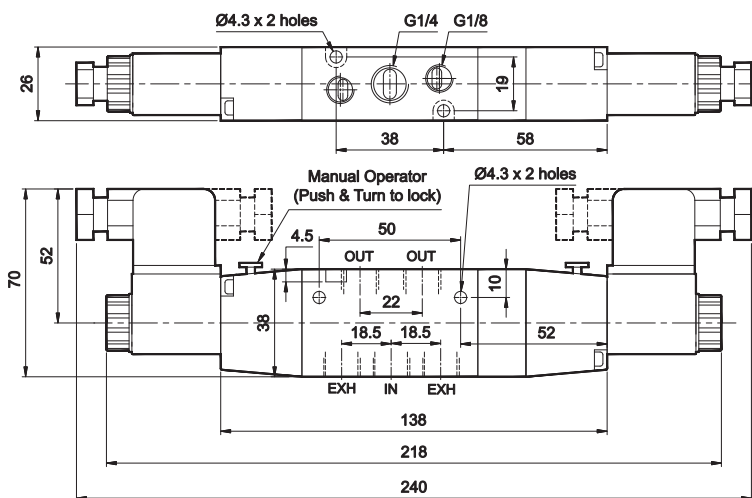
5 / 2 Double solenoid pilot operated valve



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

Ordering No*	DS255SS61
Symbol	

5 / 3 Double solenoid pilot operated valve with spring centered



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

Ordering No*	DS265SC61	DS275SC61	DS285SC61
Type	Blocked	Exhausted	Energised
Symbol			

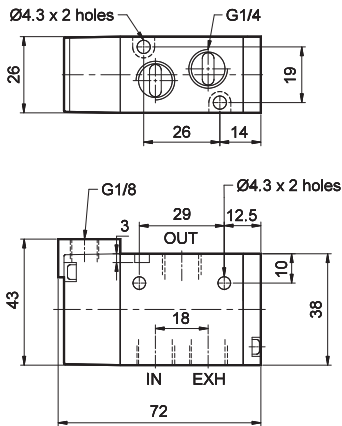
* For ordering No, voltage to be added. Refer page no. 2.3.18

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

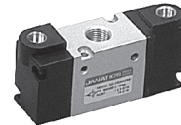
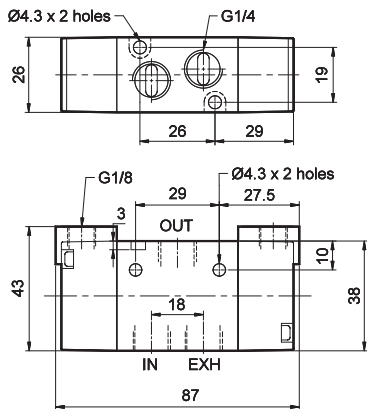
3 / 2 Single External pilot operated valve with spring return



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

Ordering No	DS235ER61	DS245ER61
Type	Normally open	Normally closed
Symbol		

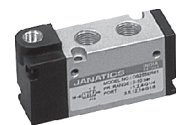
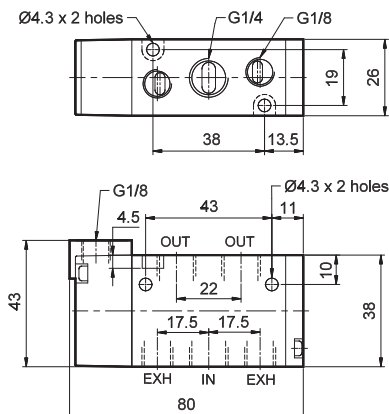
3 / 2 Double External pilot operated valve



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

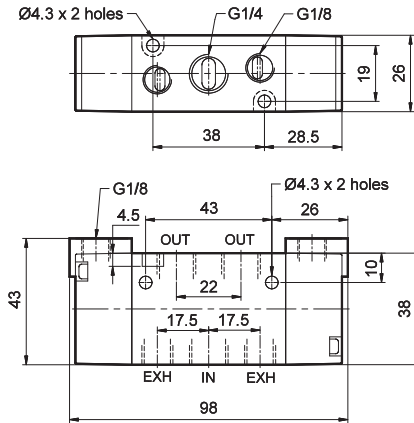
Ordering No	DS255ER61
Symbol	

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

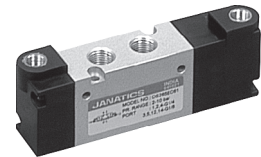
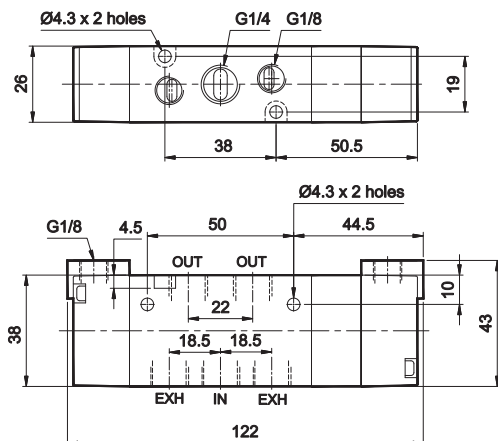
5 / 2 Double External pilot operated valve



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			

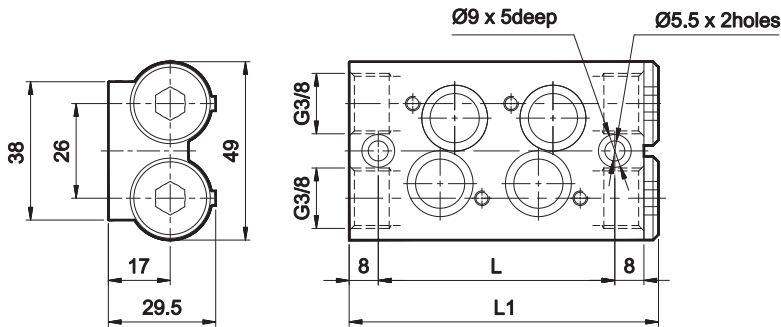
COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

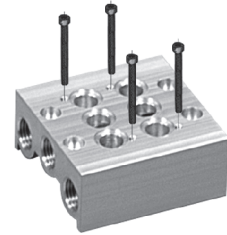
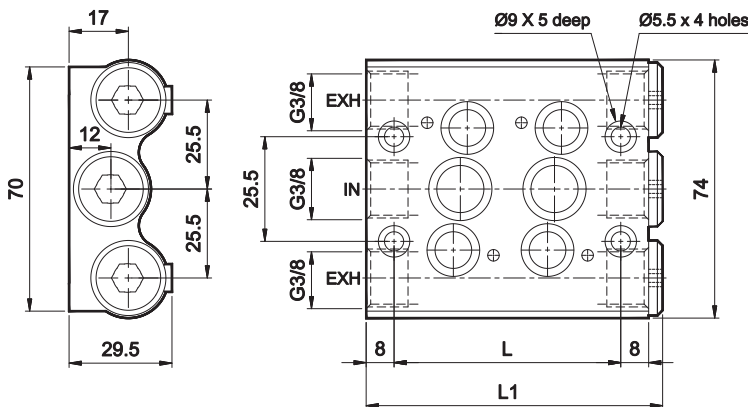
MANIFOLDS FOR COMPACT VALVE

Manifold - Type M051 (for 3/2 valves)



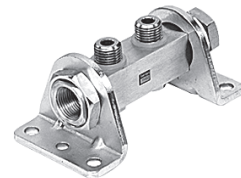
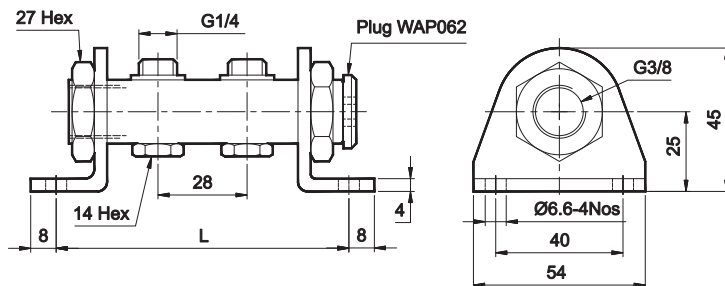
For mounting	L	L1	Ordering No
2 valves	65	85	M0510202
4 valves	119	139	M0510204
6 valves	173	193	M0510206
8 valves	227	247	M0510208

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

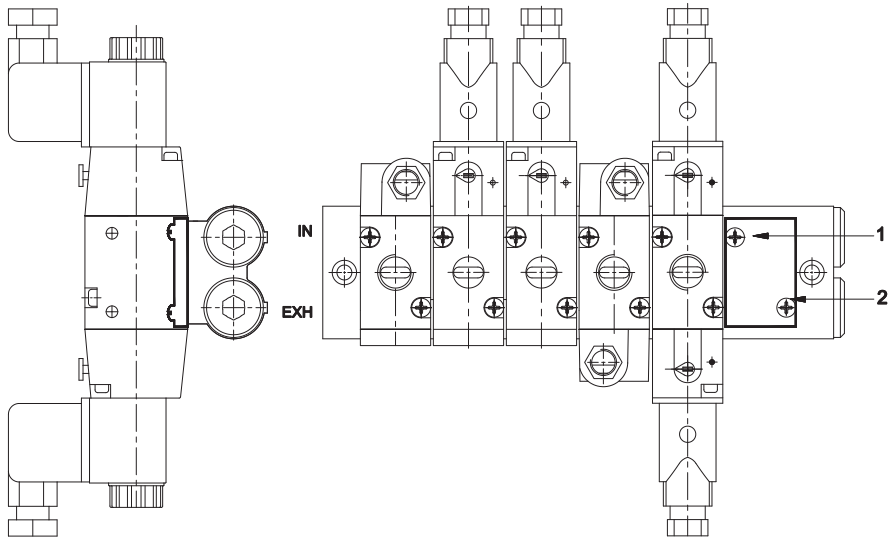
COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 08

ACCESSORIES FOR COMPACT VALVE

Cover plate assembly for Manifold Type M051

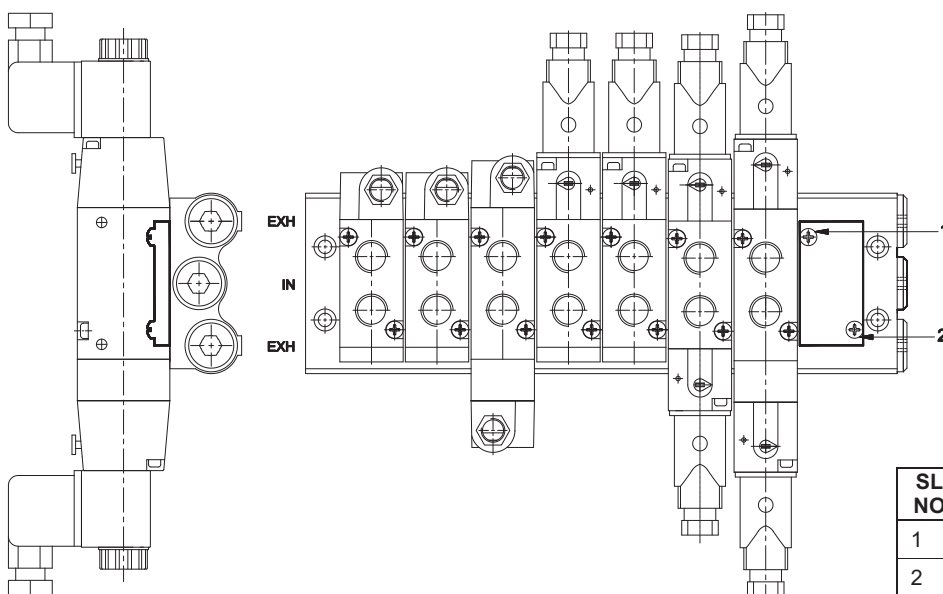


Sl. No.	Item	Qty.	Ordering No
1	Cover plate	1	A4C03
2	Screw – M4X0.7	2	

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:

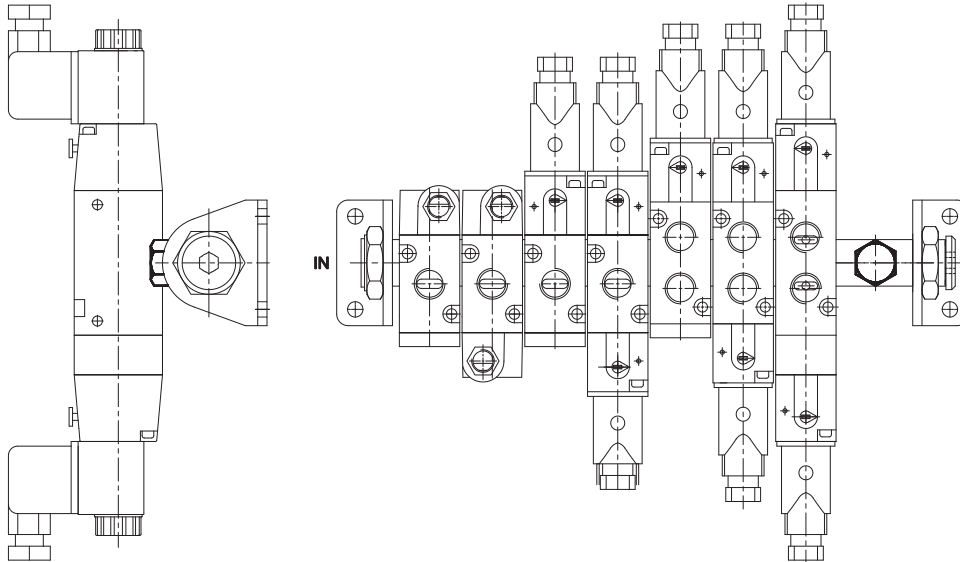
The cover plate assembly can be used to plug the unutilised position in a manifold. For eg., if it is required to mount only 7 valves on manifold no. M0030208, the eighth position can be plugged and made dummy using a cover plate assembly. (refer picture above)

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 - 1/4

Series DS2

Cat No DS2 - 01 - 08

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



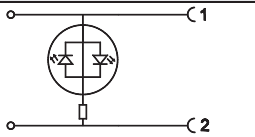
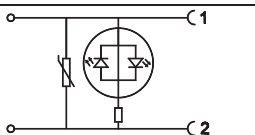
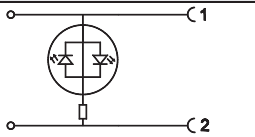
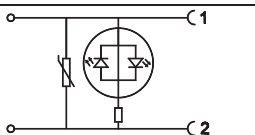

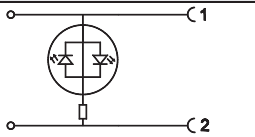
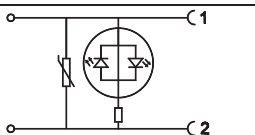
A 220V AC	Q 110V D C
B 110V AC	S 48V D C
D 48V AC	W 24V D C
G 24V AC	R 12V D C

Example

- a. The ordering no. for 3/2 NC Single solenoid valve, 24V D.C coil with PG cable is **DS245SR61-W**
- b. The ordering no. for 3/2 NC Single solenoid valve, 24V D.C coil with Moulded cable is **DS245SR61-W1**

2. Solenoid valve + “ Connectors with LED ”

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

 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Voltage</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">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> </tbody> </table>	Voltage		A	220V AC	G	24V AC	W	24V DC	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Housing Colour & Indication</th> </tr> </thead> <tbody> <tr> <td style="width: 10%; text-align: center;">T0</td> <td>  Transparent housing with Bipolar LED indicator confirming supply voltage </td> </tr> <tr> <td style="text-align: center;">T1</td> <td>  Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load </td> </tr> </tbody> </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	R <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">LED colour</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">R</td> <td>Red</td> </tr> </tbody> </table>	LED colour		R	Red	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Connection type</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">0</td> <td>PG Cable entry</td> </tr> <tr> <td>1</td> <td>Moulded cable (with 2metre length)</td> </tr> </tbody> </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																										
T1	 Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load																										
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 (1/4"), 24V DC, connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable: **DS245SR61-WT1R1**

Coil spare ordering no.

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

COMPACT VALVE - 1/2

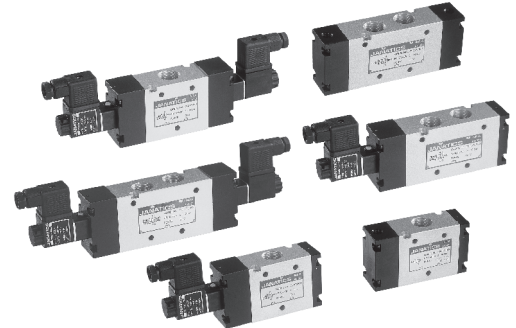
Series DS2

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

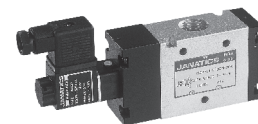
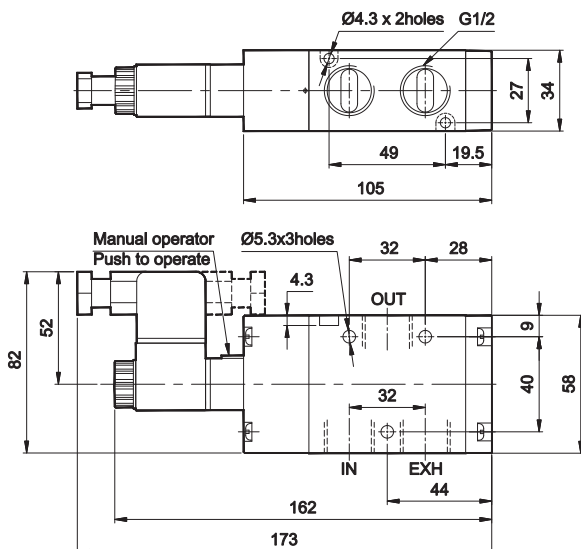


Technical Specifications

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 to 10 bar
External pilot pressure (ER model)	2 to 4 bar
Recommended oil for lubrication	ISO VG32 (Servo system 32)
Ambient temperature	-10° to +60° C
Medium temperature	+5° to +50° 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		

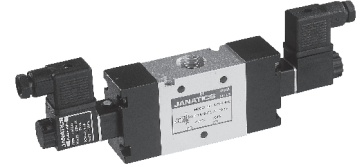
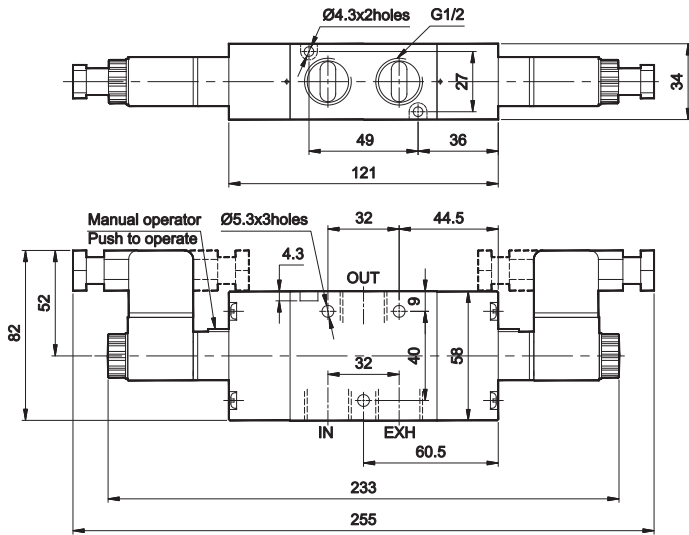
* For ordering No, voltage to be added. Refer page no. 2.3.27

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

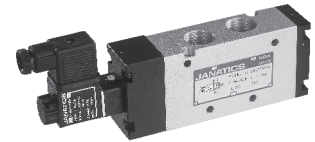
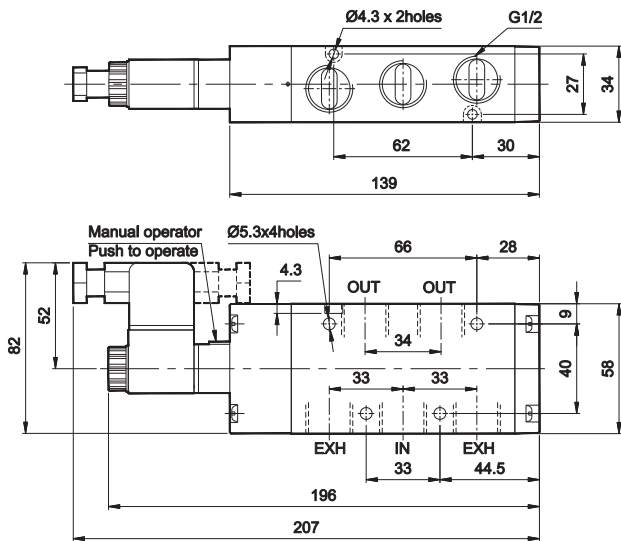
3 / 2 Double solenoid pilot operated valve



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	

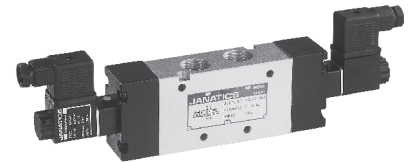
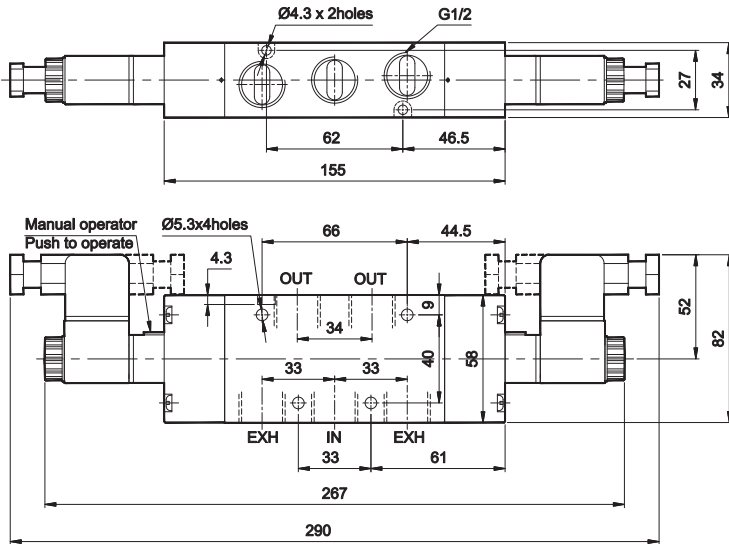
* For ordering No, voltage to be added. Refer page no. 2.3.27

COMPACT VALVE - 1/2

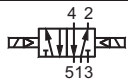
Series DS2

Cat No DS2 - 01 - 09

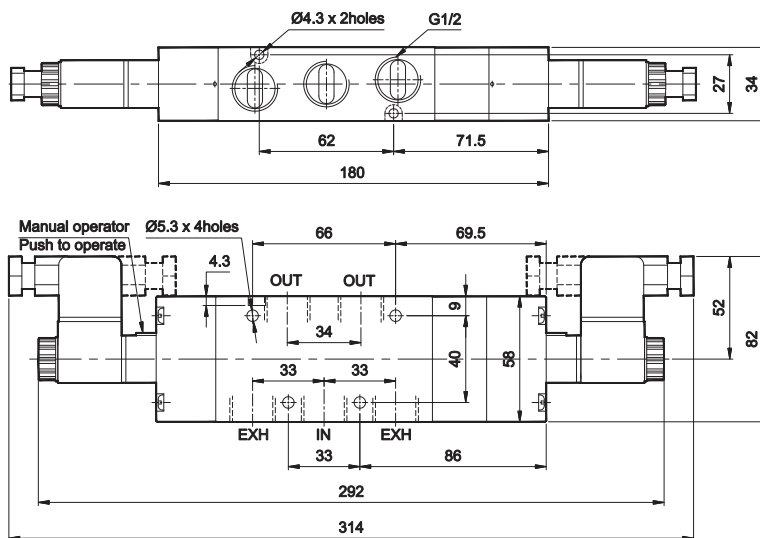
5 / 2 Double solenoid pilot operated valve



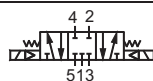
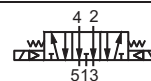
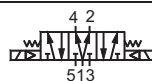
1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust

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			

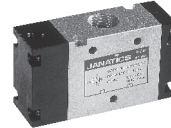
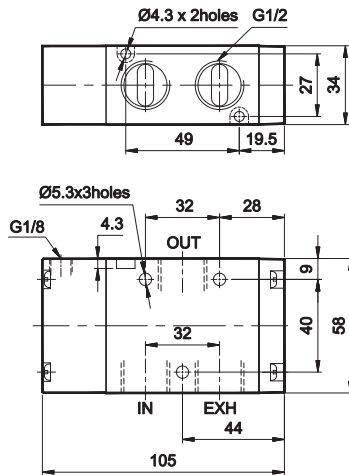
* For ordering No, voltage to be added. Refer page no. 2.3.27

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

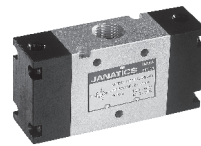
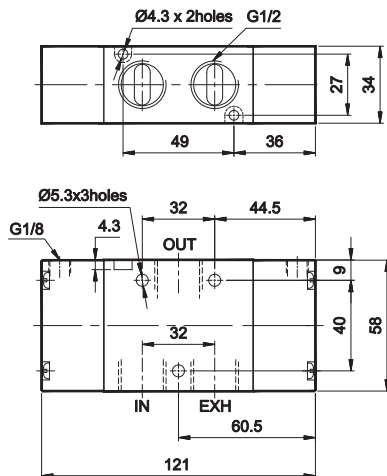
3 / 2 Single External pilot operated valve with spring return



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

Ordering No	DS237ER63	DS247ER63
Type	Normally open	Normally closed
Symbol		

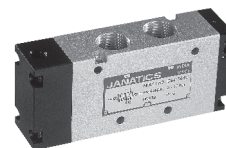
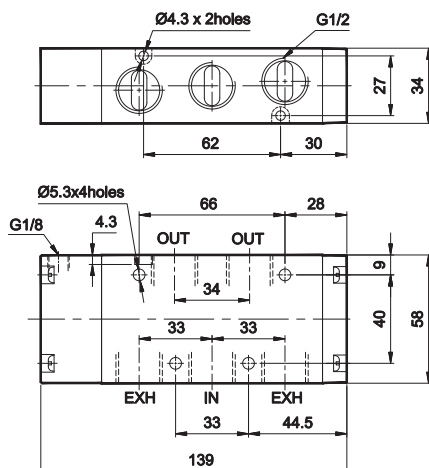
3 / 2 Double External pilot operated valve



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

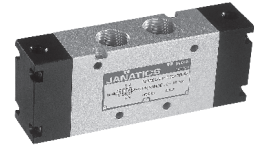
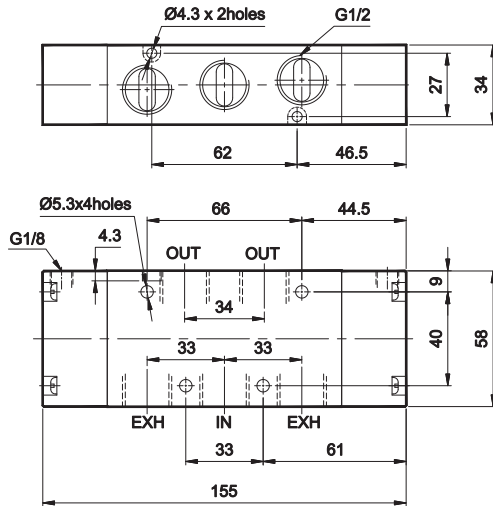
Ordering No	DS257ER63
Symbol	

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

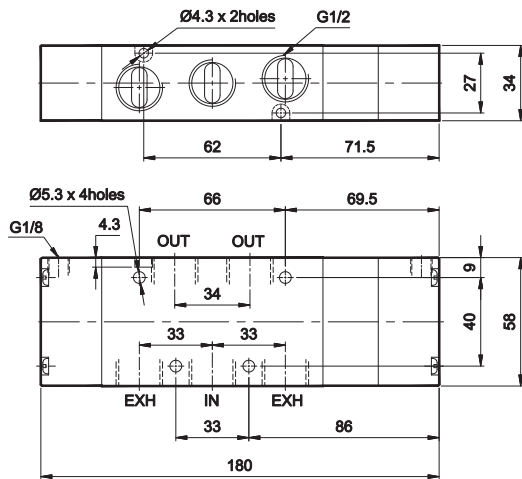
5 / 2 Double External pilot operated valve



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			

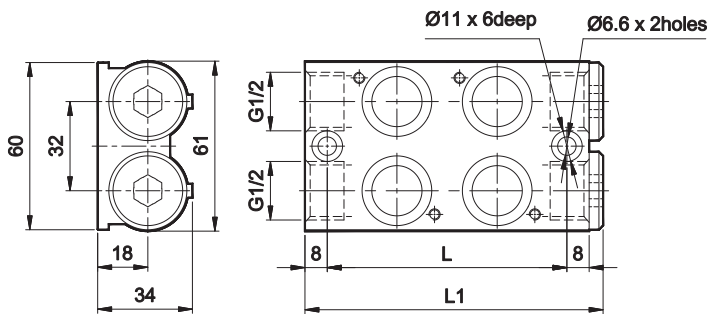
COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

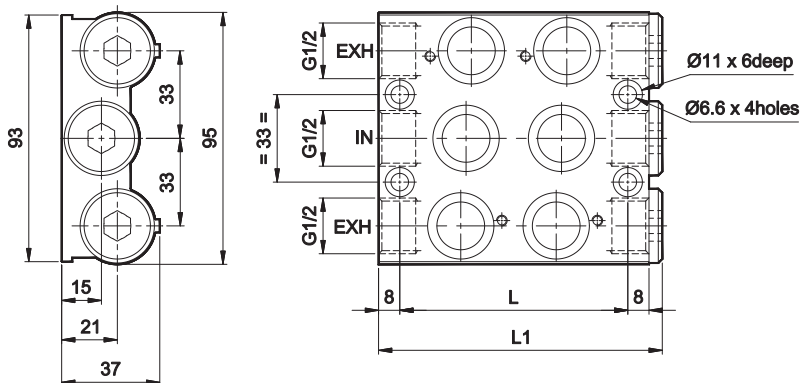
MANIFOLDS FOR COMPACT VALVE

Manifold - Type M051 (for 3/2 valves)



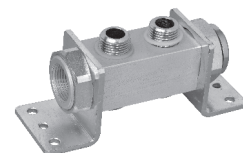
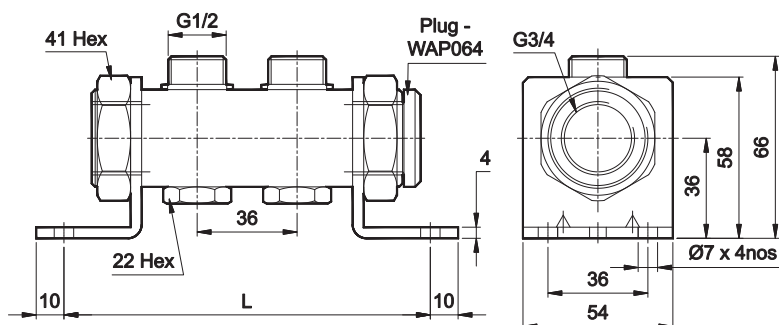
For mounting	L	L1	Ordering no
2 valves	86	107	M0510602
4 valves	158	179	M0510604
6 valves	230	251	M0510606
8 valves	302	323	M0510608

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

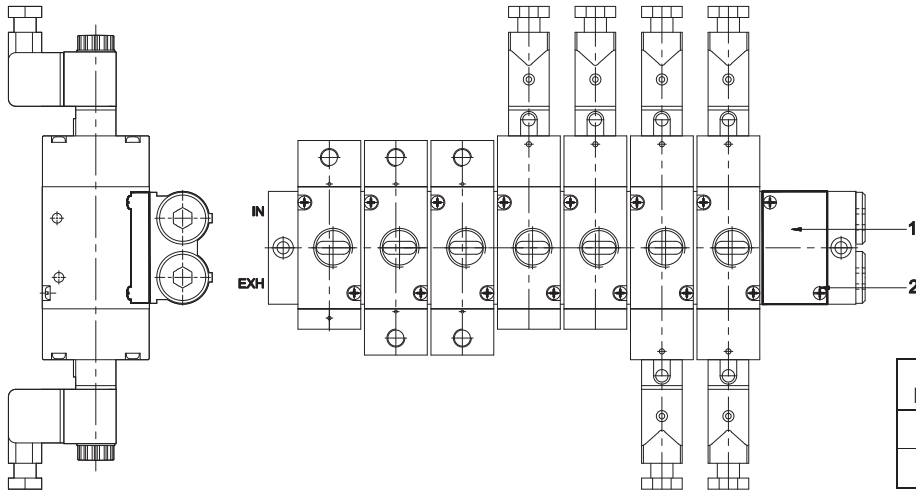
COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 09

ACCESSORIES FOR COMPACT VALVE

Cover plate assembly for Manifold Type M051

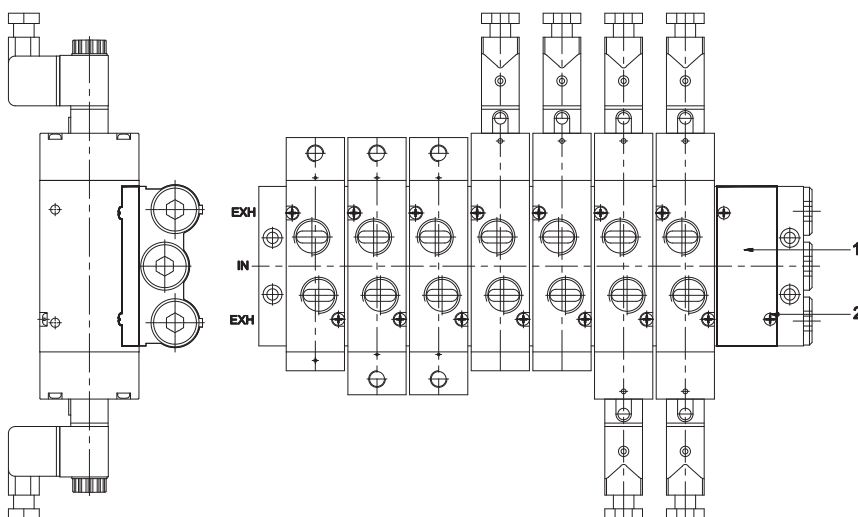


SL. NO.	Item	Qty.	Ordering No
1	Cover plate	1	A4C05
2	Screw - M4x15	2	

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:

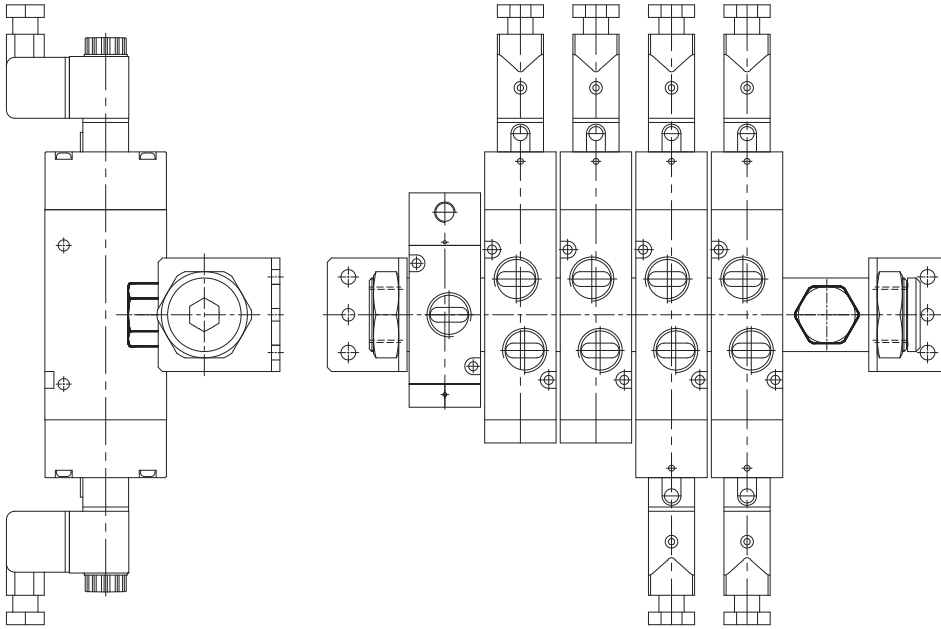
The cover plate assembly can be used to plug the unutilised position in a manifold. For eg., if it is required to mount only 7 valves on manifold no. M0030608, the eighth position can be plugged and made dummy using a cover plate assembly. (refer picture above)

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



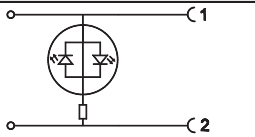
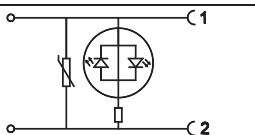
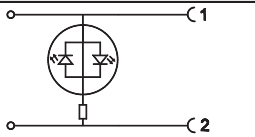
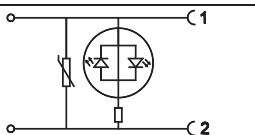

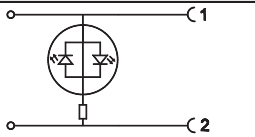
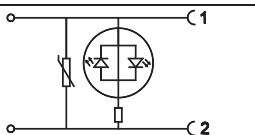
A 220V AC	Q 110V D C
B 110V AC	S 48V D C
D 48V AC	W 24V D C
G 24V AC	R 12V D C

Example

- a. The ordering no. for 3/2 NC Single solenoid valve, 24V D.C coil with PG cable is **DS247SR63-W**
- b. 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 border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Voltage</th> </tr> </thead> <tbody> <tr> <td style="width: 20px;">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> </tbody> </table>	Voltage		A	220V AC	G	24V AC	W	24V DC	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Housing Colour & Indication</th> </tr> </thead> <tbody> <tr> <td style="width: 20px;">T0</td> <td>  Transparent housing with Bipolar LED indicator confirming supply voltage </td> </tr> <tr> <td>T1</td> <td>  Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load </td> </tr> </tbody> </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	R <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">LED colour</th> </tr> </thead> <tbody> <tr> <td style="width: 20px;">R</td> <td>Red</td> </tr> </tbody> </table>	LED colour		R	Red	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Connection type</th> </tr> </thead> <tbody> <tr> <td style="width: 20px;">0</td> <td>PG Cable entry</td> </tr> <tr> <td>1</td> <td>Moulded cable (with 2metre length)</td> </tr> </tbody> </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																										
T1	 Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load																										
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.	
	AC	DC
Voltage		
220	AC23A	- NA -
110	AC23B	DC24Q
48	AC23D	DC24S
24	AC23G	DC24W
12	- NA -	DC24R

SOLENOID CONNECTORS

Series K

Cat No K - 01 - 01

SOLENOID CONNECTORS - KA, KB, KC

Features

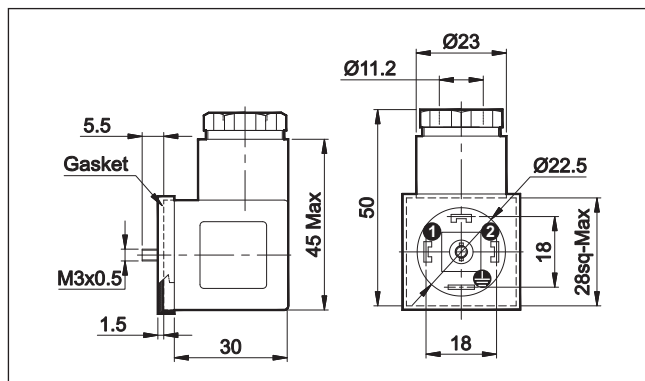
- ❑ Confirms to DIN 43650 standards
- ❑ Central screw ensures vibration proof interlocking
- ❑ Suitable for solenoid valves
- ❑ Models available with transparent housing and indicator lamps
- ❑ Connector versions with circuit to protect the source and load



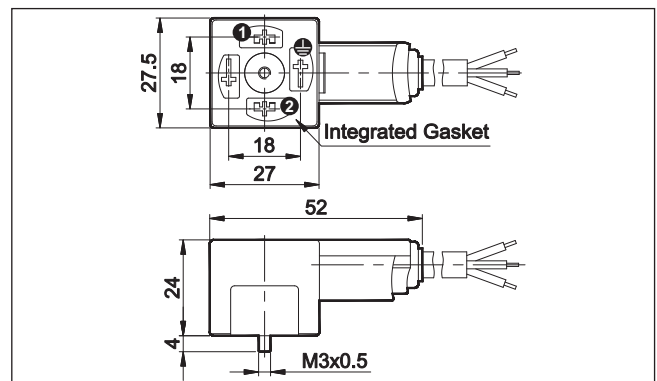
Technical Specifications

Model	KA	KB	KC
Contact spacing	18 mm	11 mm	9.4 mm
Suitable for coil width	32mm	22mm	17mm
No. of contacts	2 pole + Earth		
Contact surface	Silver plated		
Max. contact current	10 A	10 A	6 A
Max. contact screw torque	0.5 Nm		
Cable entry	PG9 (cable OD 6 - 8 mm)		PG7 (Cable OD 4 - 6 mm)
Conductor cross section	0.5 to 1.5 mm ²		
Rated voltage	24V and 230V AC/DC, 110V AC		24V AC/DC, 230V AC/DC
Housing material	Glass reinforced Polyamide		
Housing colour	Black, Transparent		
LED colour	Red		
Gasket	Synthetic rubber		
Type of coil protection	IP65 (when plugged & screwed with gasket)		

KA

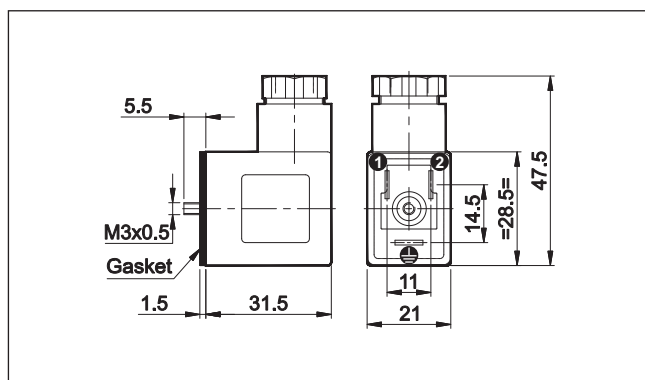


Connector with PG cable entry

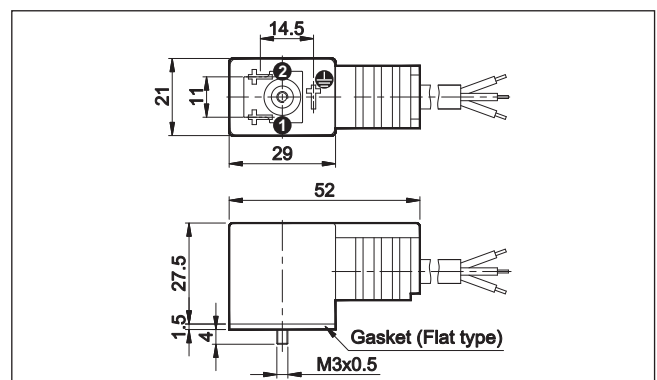


Connector with Moulded cable

KB



Connector with PG cable entry



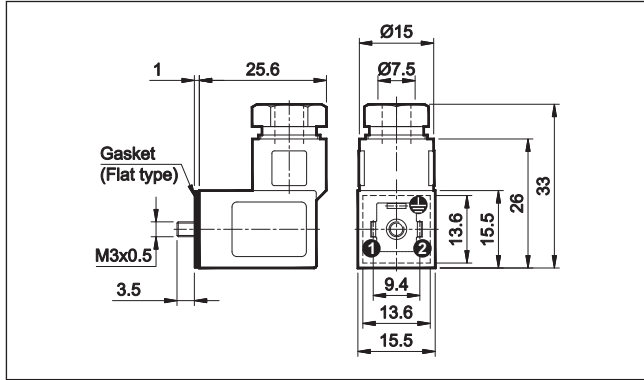
Connector with Moulded cable

SOLENOID CONNECTORS

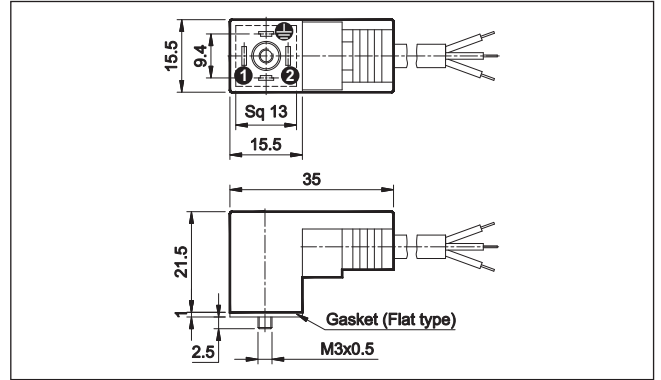
Series K

Cat No K - 01 - 01

KC



Connector with PG cable entry



Connector with Moulded cable

How to order

Connectors without LED

K

Suitable for Coil width		Connection type	
A	32 mm	0	PG9 Cable entry
B	22 mm	1	Moulded cable (with 2metre length)
C	17 mm		

Note: Connectors without LED is suitable for all voltages, both AC / DC

Connectors with LED

K

Suitable for Coil width		Voltage	
A	32 mm	0	24V AC/DC
B	22 mm	1	220V AC
C	17 mm		

Housing Colour & Indication	
T0	<p>Transparent housing with Bipolar LED indicator confirming supply voltage</p>
T1	<p>Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load</p>

R

LED colour		Connection type	
R	Red	0	PG9 Cable entry
		1	Moulded cable (with 2metre length)

- Ordering Example :**
- Ordering no for connectors with LED for 22mm coil, 24V DC, Transparent colour housing with Bipolar LED and varistor with moulded cable: **KB0T1R1**
 - Ordering no for connectors without LED for 32mm coil with moulded cable : **KA1**

Subject to change

Compact Valve - Manually operated 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
- Mounting provision for individual unit
- Suitable for panel mounting

COMPACT VALVE - 1/8

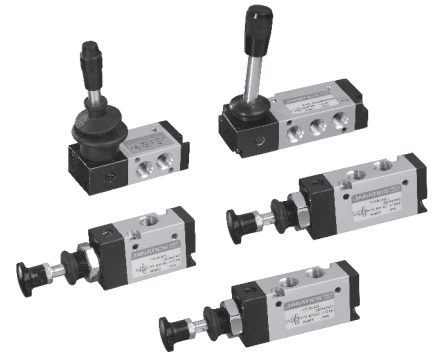
Series DS2

Cat No DS2 - 01 - 11

MANUALLY OPERATED VALVE - G1/8

Features

- Compact size
- Suitable for panel mounting
- Mounting provision for individual unit

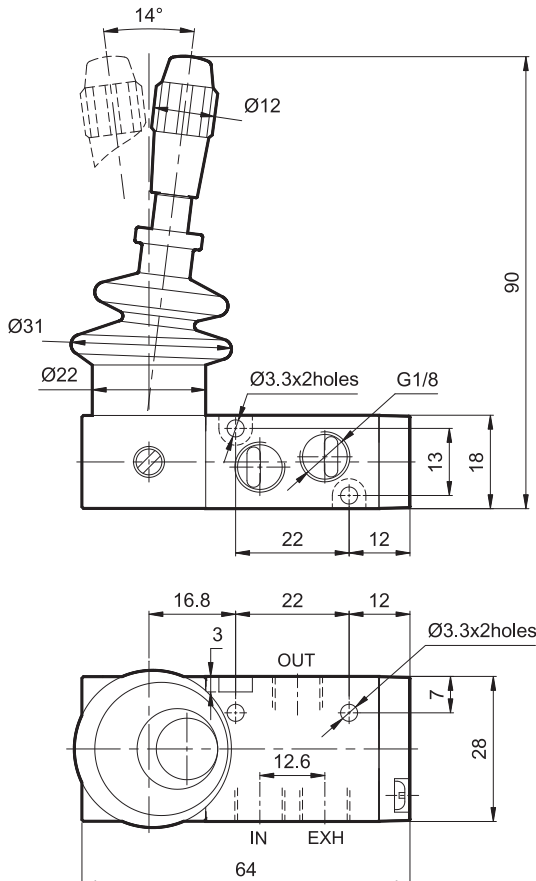


Technical Specifications

Model	DS2
Type	3/2, 5/2
Design	Spool type
Port size	Inlet, Outlet, Exhaust - G1/8
Medium	Compressed air - Dry, filtered, lubricated
Maximum working pressure	8 bar
Recommended oil for lubrication	ISO VG32 (Servo system 32)
Ambient temperature	-10° to +60° C
Medium temperature	+5° to +50° C
Flow @	450 lts/min
Materials of construction	Aluminium, Nitrile, Brass, Acetal

@ Inlet pressure 6 bar, and pressure drop 1 bar

3 / 2 Hand lever operated valve with spring return



1 - Inlet, 2 - Outlet, 3 - Exhaust

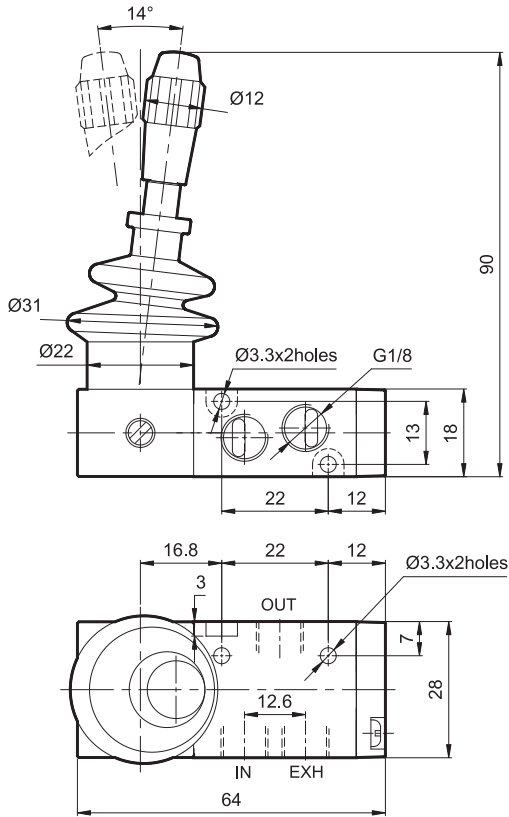
Ordering No	DS234HR60	DS244HR60
Type	Normally open	Normally closed
Symbol		

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 11

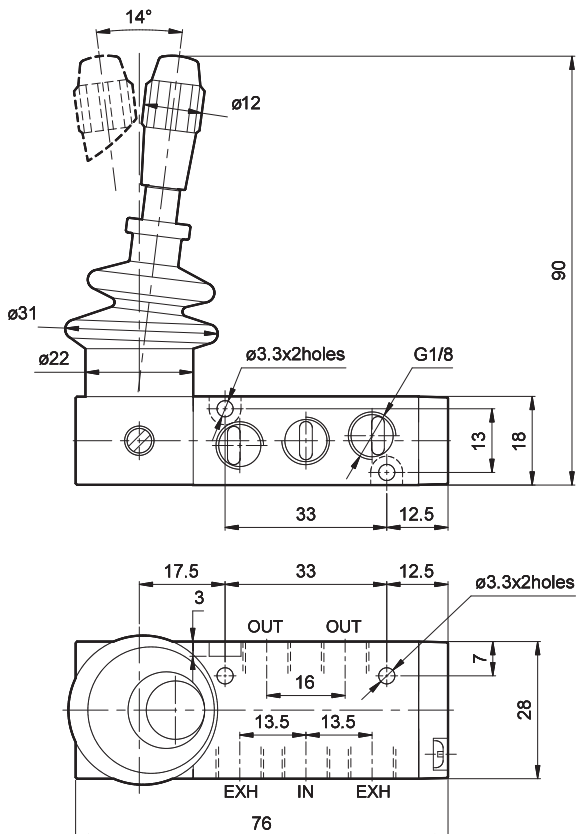
3 / 2 Hand lever operated valve with detent



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DS234HD60	DS244HD60
Type	Normally open	Normally closed
Symbol		

5 / 2 Hand lever operated valve with spring return



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

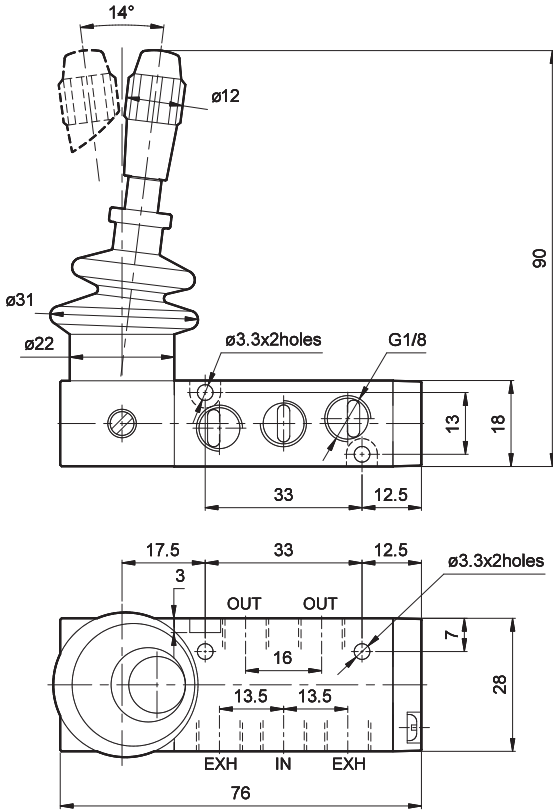
Ordering No	DS254HR60
Symbol	

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 11

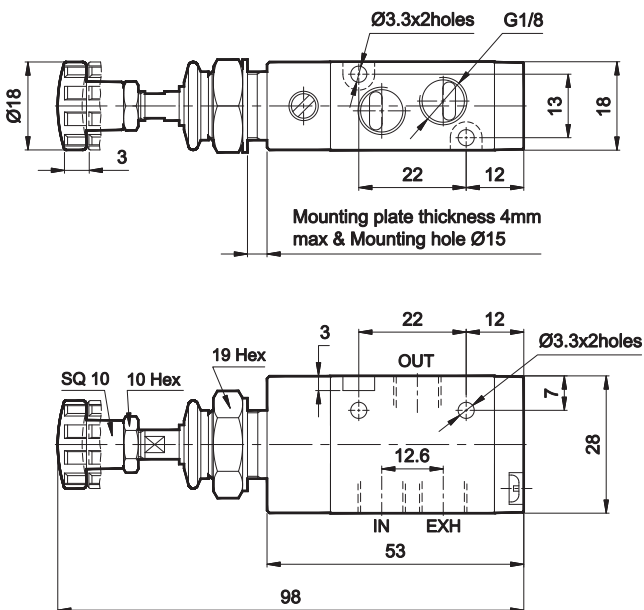
5 / 2 Hand lever operated valve with detent



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

Ordering No	DS254HD60
Symbol	

3 / 2 Push Pull operated valve with spring return



1 - Inlet, 2 - Outlet, 3 - Exhaust

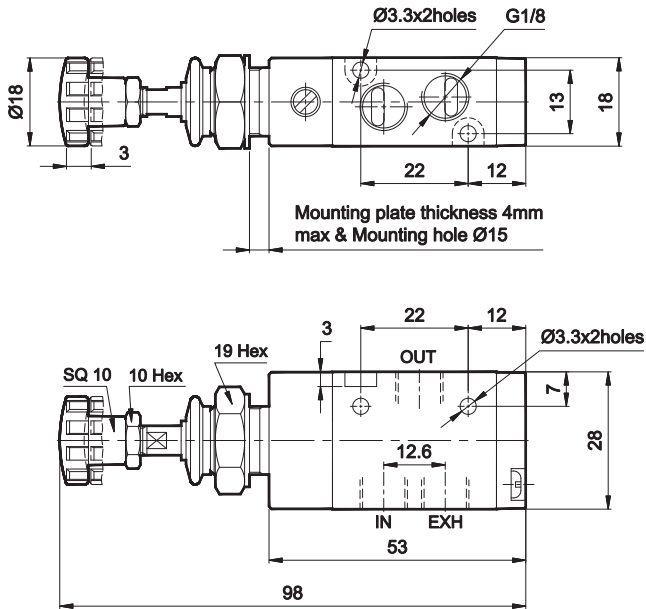
Ordering No	DS234PR60	DS244PR60
Type	Normally open	Normally closed
Symbol		

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 11

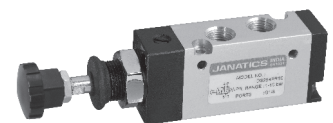
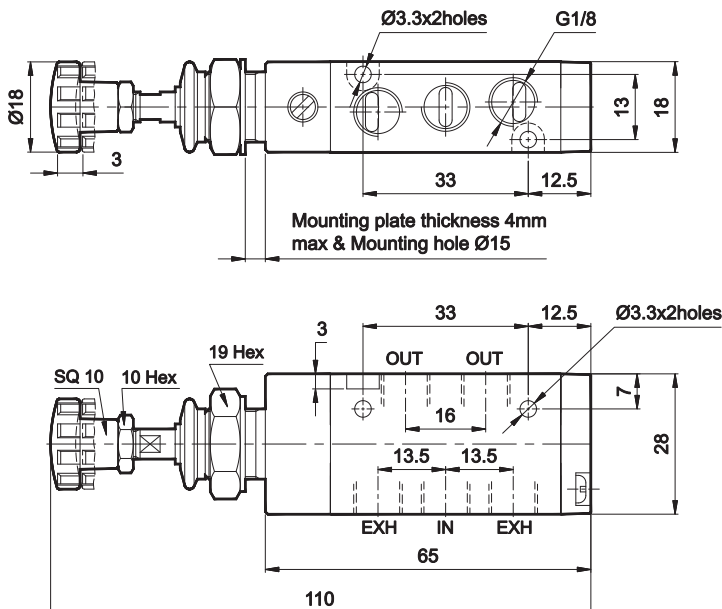
3 / 2 Push Pull operated valve with detent



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DS234PD60	DS244PD60
Type	Normally open	Normally closed
Symbol		

5 / 2 Push Pull operated valve with spring return



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

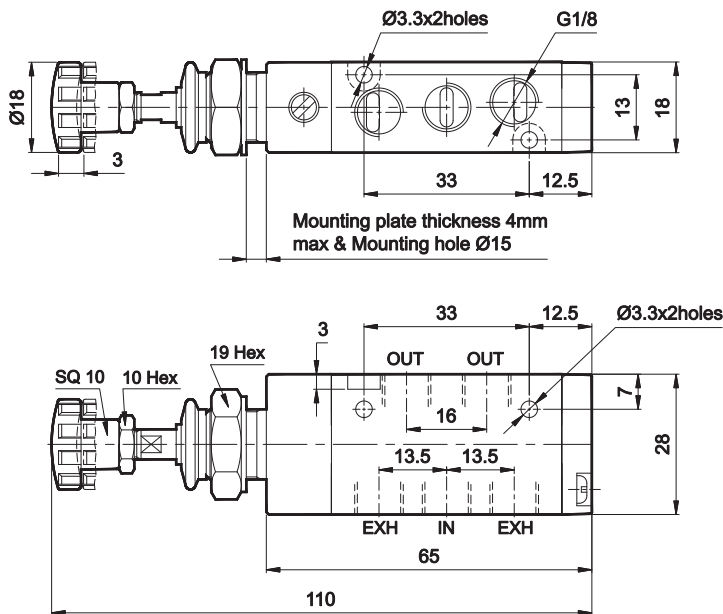
Ordering No	DS254PR60
Symbol	

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 11

5 / 2 Push Pull operated valve with detent



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

Ordering No	DS254PD60
Symbol	

How to order

While ordering valve, mention the ordering number given in the corresponding tables.

COMPACT VALVE - 1/4

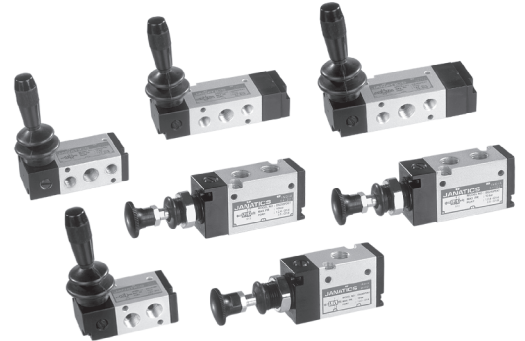
Series DS2

Cat No DS2 - 01 - 10 - B

MANUALLY OPERATED VALVE - G1/4

Features

- Compact size
- Suitable for panel mounting
- Mounting provision for individual unit

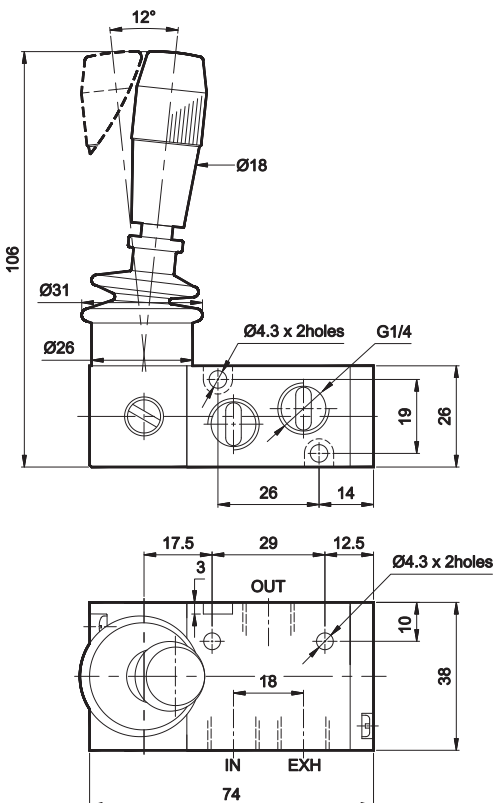


Technical Specifications

Model	DS2	
Type	3/2	5/2 & 5/3
Design	Spool type	
Port size	Inlet, Outlet, Exhaust - G1/4	Inlet, Outlet - G1/4, Exhaust - G1/8
Flow @	1200 lts/min	Inlet to Outlet - 1200 lts/min; Outlet to Exhaust - 700 lts/min
Medium	Compressed air - Dry, filtered, lubricated	
Maximum working pressure	10 bar	
Recommended oil for lubrication	ISO VG32 (Servo system 32)	
Ambient temperature	-10° to +60° C	
Medium temperature	+5° to +50° C	
Materials of construction	Aluminium, Nitrile, Brass, Acetal	

@ Inlet pressure 6 bar, and pressure drop 1 bar

3 / 2 Hand lever operated valve with spring return



1 - Inlet, 2 - Outlet, 3 - Exhaust

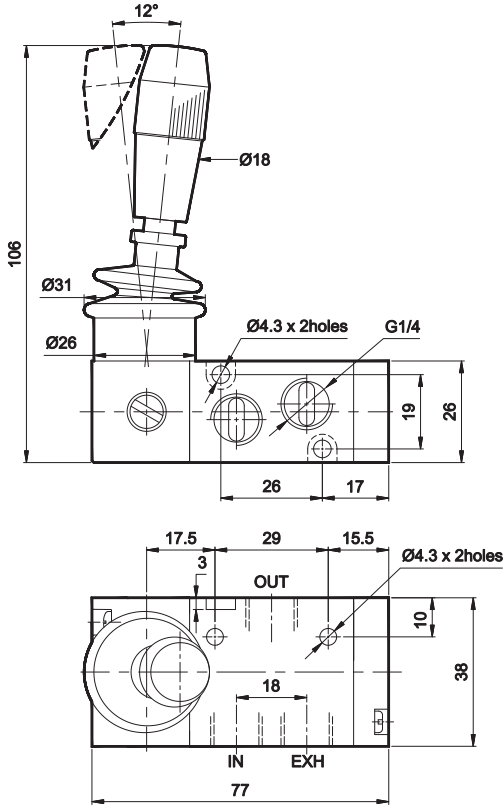
Ordering No	DS235HR61	DS245HR61
Type	Normally open	Normally closed
Symbol		

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 10 - B

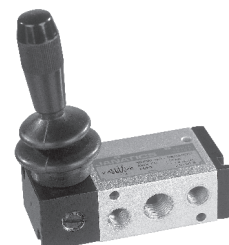
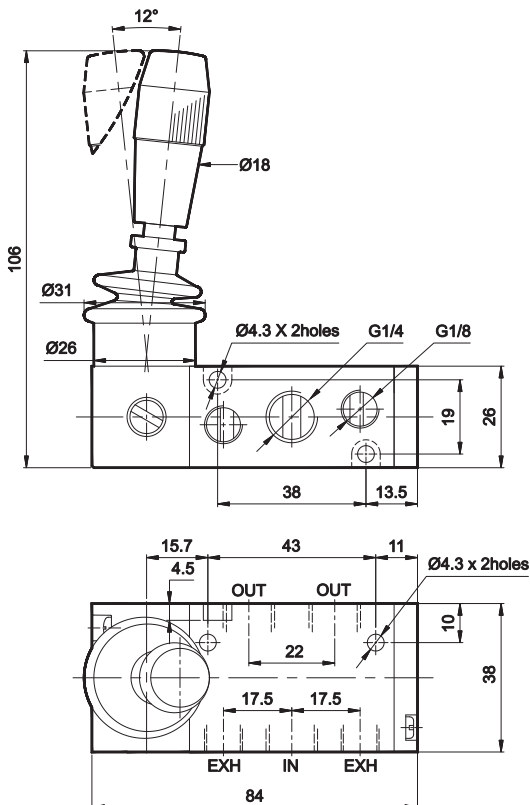
3 / 2 Hand lever operated valve with detent



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DS235HD61	DS245HD61
Type	Normally open	Normally closed
Symbol		

5 / 2 Hand lever operated valve with spring return



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

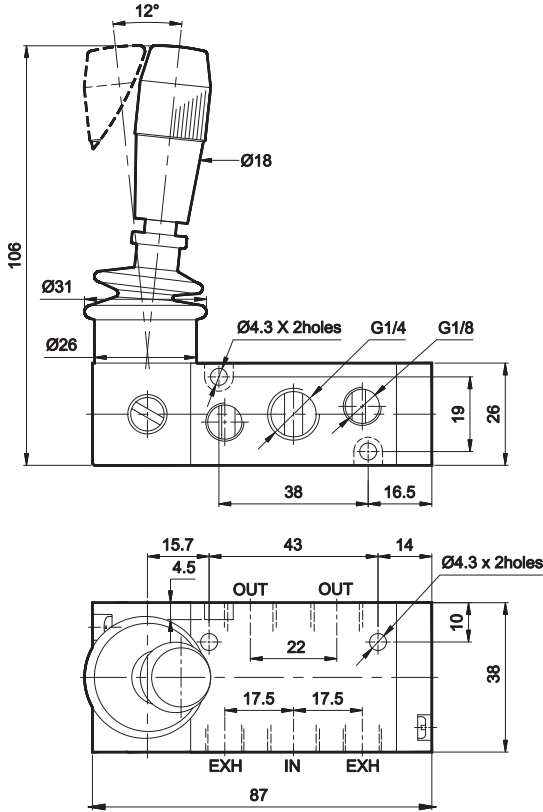
Ordering No	DS255HR61
Symbol	

COMPACT VALVE - 1/4

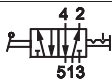
Series DS2

Cat No DS2 - 01 - 10 - B

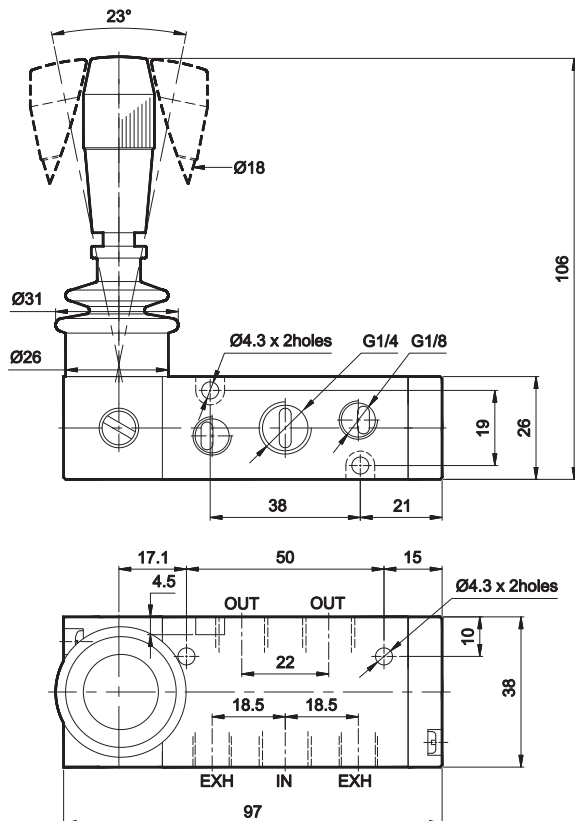
5 / 2 Hand lever operated valve with detent



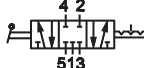


1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust

Ordering No	DS255HD61
Symbol	

5 / 3 Hand lever operated valve with detent



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

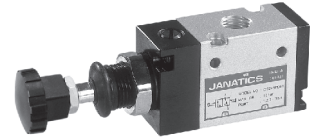
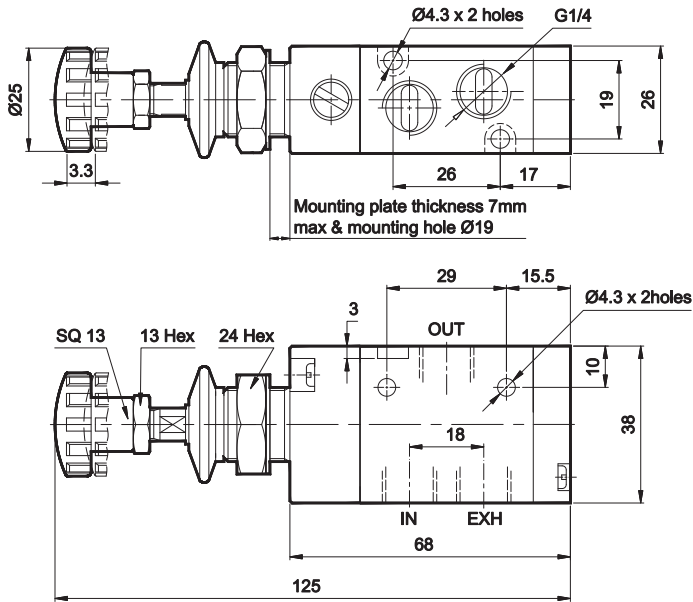
Ordering No	DS265HD61	DS275HD61	DS285HD61
Type	Blocked	Exhausted	Energised
Symbol			

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 10 - B

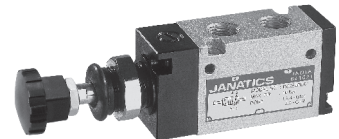
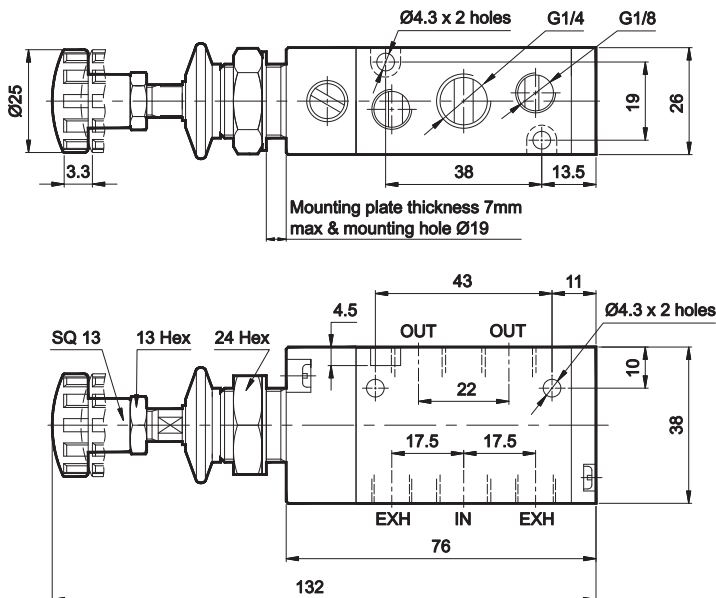
3 / 2 Push Pull operated valve with detent



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DS235PD61	DS245PD61
Type	Normally open	Normally closed
Symbol		

5 / 2 Push Pull operated valve with spring return



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

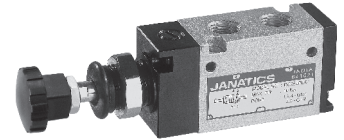
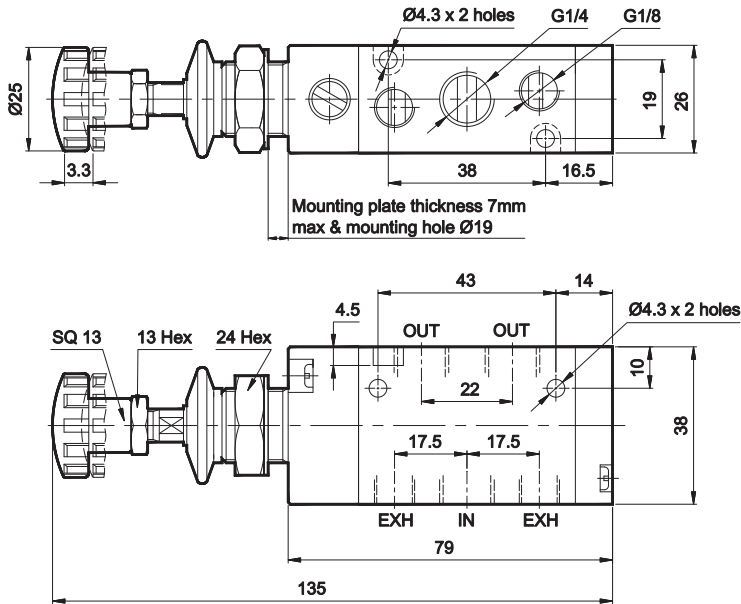
Ordering No	DS255PR61
Symbol	

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 10 - B

5 / 2 Push Pull operated valve with detent



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

Ordering No	DS255PD61
Symbol	4 2 5 1 3

How to order

While ordering valve, mention the ordering number given in the corresponding tables.

COMPACT VALVE - 1/2

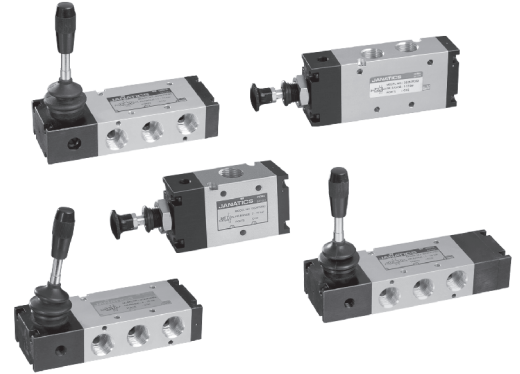
Series DS2

Cat No DS2 - 01 - 05 - B

MANUALLY OPERATED VALVE - G1/2

Features

- Compact size
- Suitable for panel mounting
- Mounting provision for individual unit

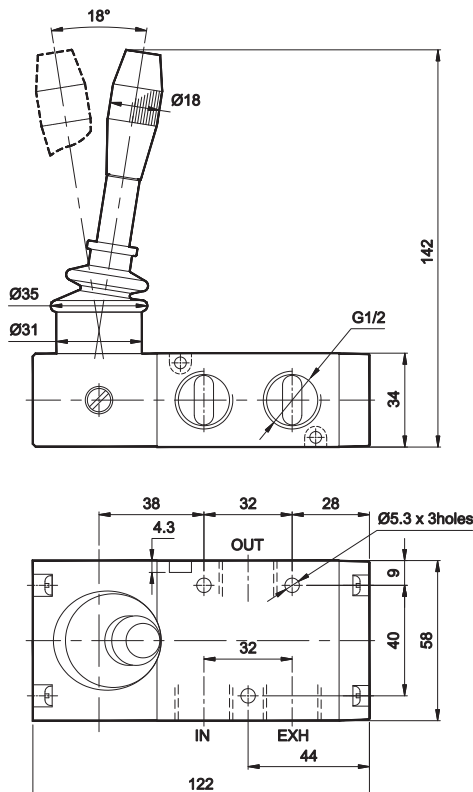


Technical Specifications

Model	DS2
Type	3/2, 5/2, 5/3
Design	Spool type
Port size	Inlet, Outlet, Exhaust - G1/2
Medium	Compressed air - Dry, filtered, lubricated
Maximum working pressure	10 bar
Recommended oil for lubrication	ISO VG32 (Servo system 32)
Ambient temperature	-10° to +60° C
Medium temperature	+5° to +50° C
Flow @	3500 lts/min
Materials of construction	Aluminium, Nitrile, Brass, Acetal

@ Inlet pressure 6 bar, and pressure drop 1 bar

3 / 2 Hand lever operated valve with spring return



1 - Inlet, 2 - Outlet, 3 - Exhaust

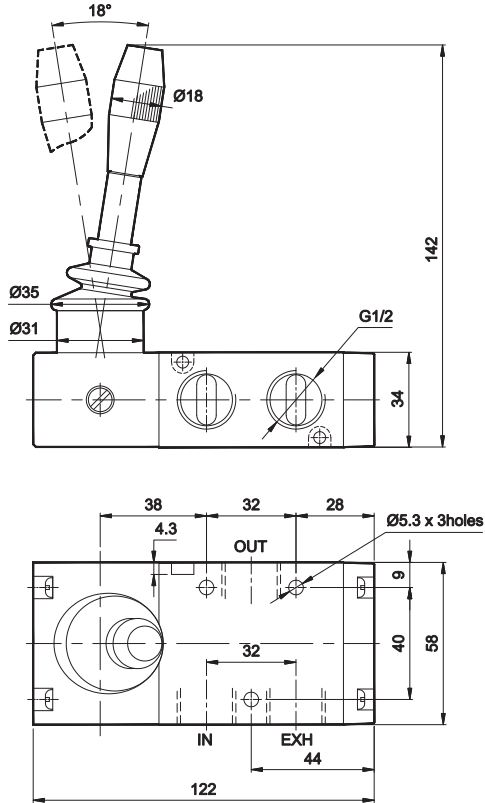
Ordering No	DS237HR63	DS247HR63
Type	Normally open	Normally closed
Symbol		

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 05 - B

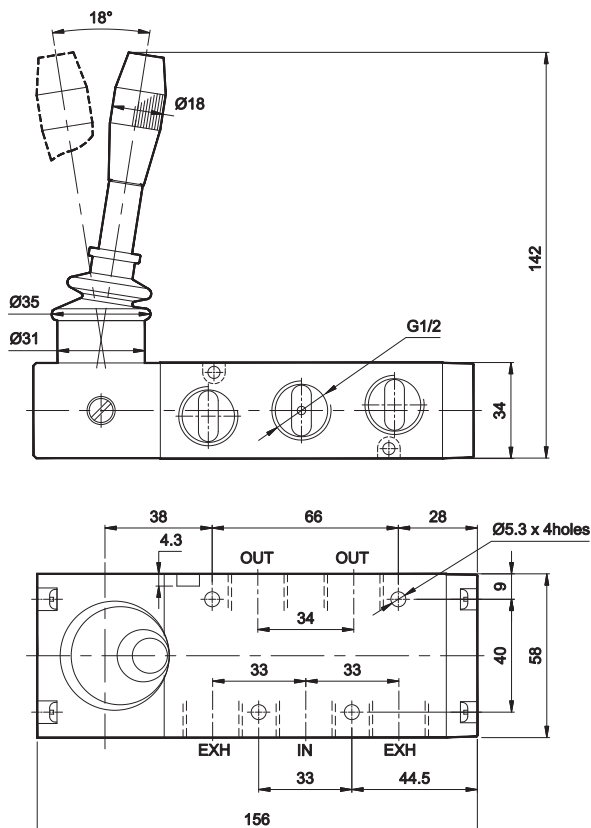
3 / 2 Hand lever operated valve with detent



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DS237HD63	DS247HD63
Type	Normally open	Normally closed
Symbol		

5 / 2 Hand lever operated valve with spring return



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

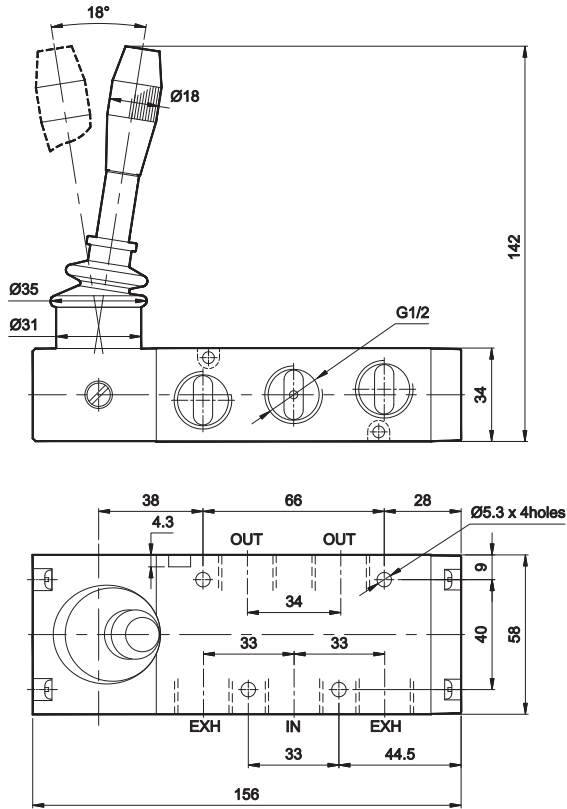
Ordering No	DS257HR63
Symbol	

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 05 - B

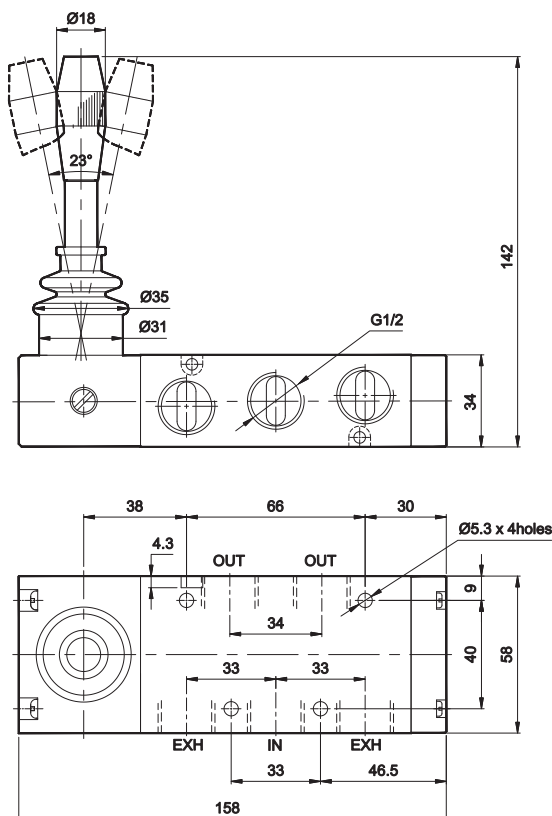
5 / 2 Hand lever operated valve with detent



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

Ordering No	DS257HD63
Symbol	

5 / 3 Hand lever operated valve with detent



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

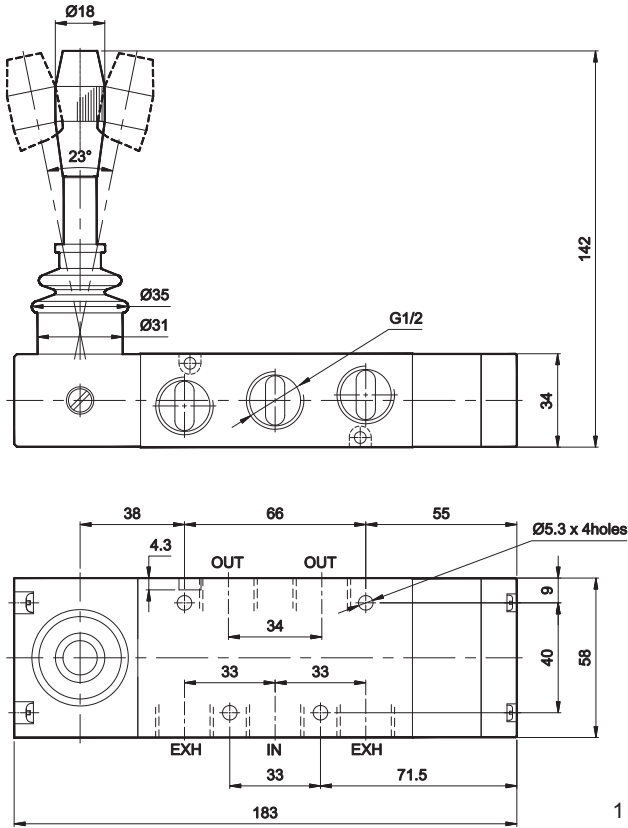
Ordering No	DS267HD63	DS277HD63	DS287HD63
Type	Blocked	Exhausted	Energised
Symbol			

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 05 - B

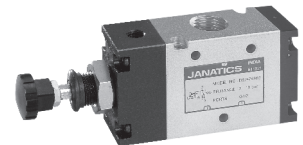
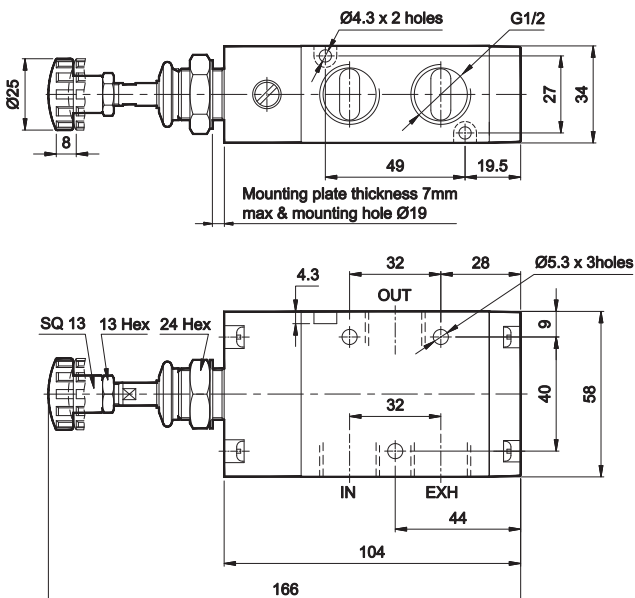
5 / 3 Hand lever operated valve with spring centered



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

Ordering No	DS267HC63	DS277HC63	DS287HC63
Type	Blocked	Exhausted	Energised
Symbol			

3 / 2 Push Pull operated valve with spring return



1 - Inlet, 2 - Outlet, 3 - Exhaust

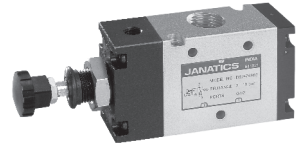
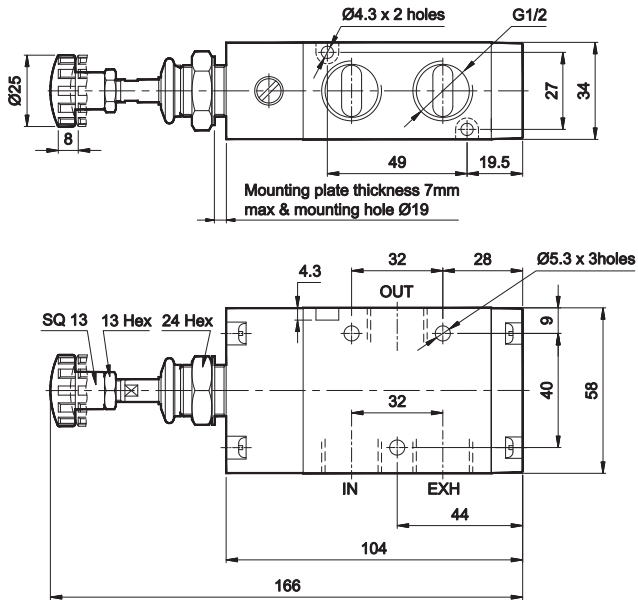
Ordering No	DS237PR63	DS247PR63
Type	Normally open	Normally closed
Symbol		

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 05 - B

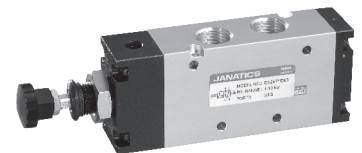
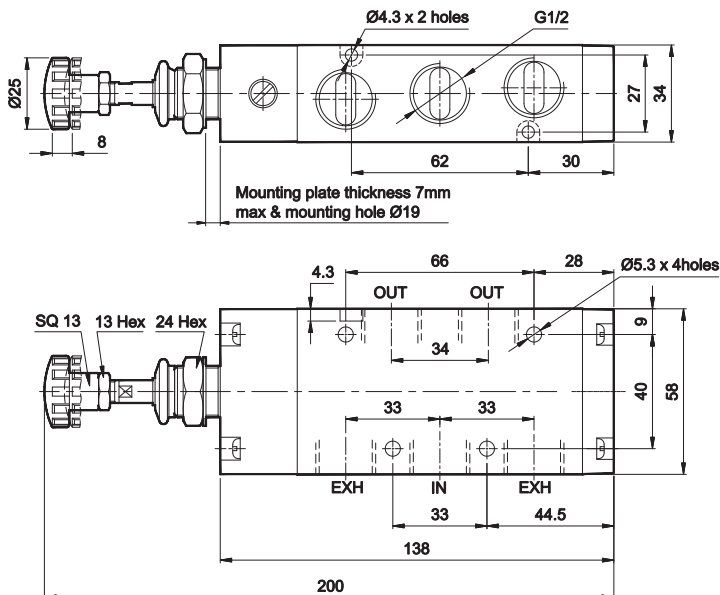
3 / 2 Push Pull operated valve with detent



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DS237PD63	DS247PD63
Type	Normally open	Normally closed
Symbol		

5 / 2 Push Pull operated valve with spring return



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

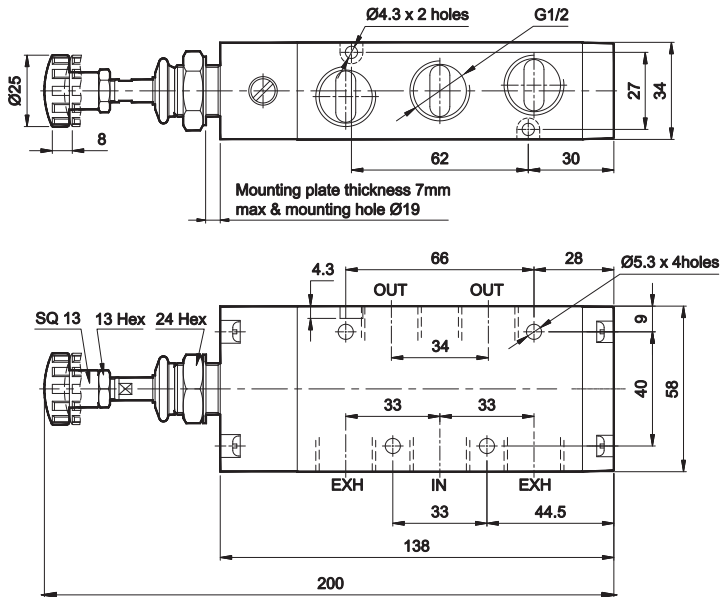
Ordering No	DS257PR63
Symbol	

COMPACT VALVE - 1/2

Series DS2

Cat No DS2 - 01 - 05 - B

5 / 2 Push Pull operated valve with detent



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

Ordering No	DS257PD63
Symbol	

How to order

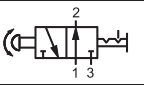
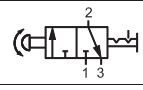
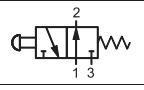
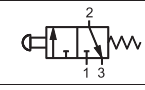
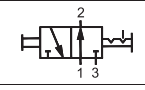
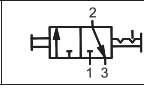
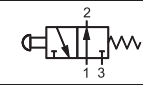
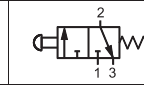
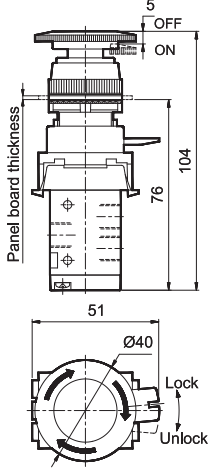
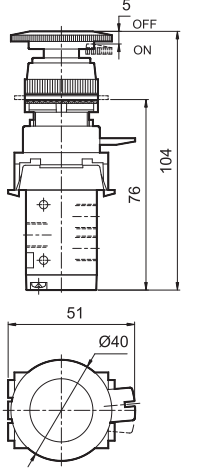
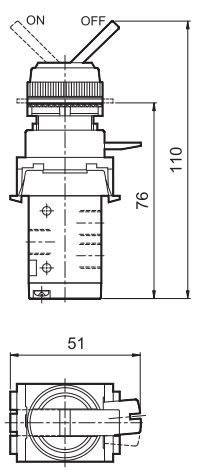
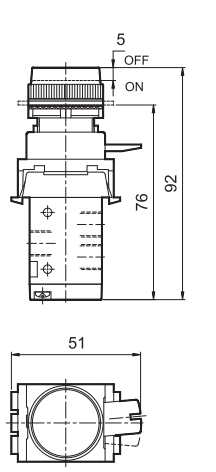
While ordering valve, mention the ordering number given in the corresponding tables.

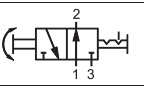
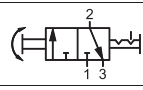
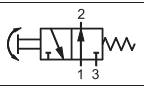
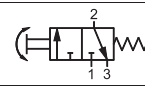
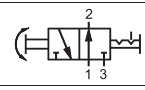
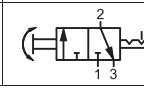
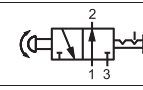
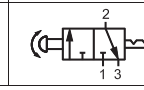
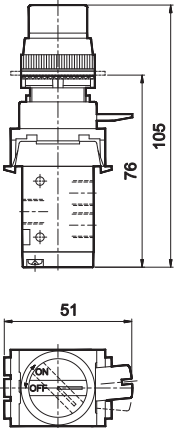
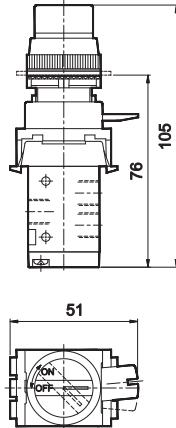
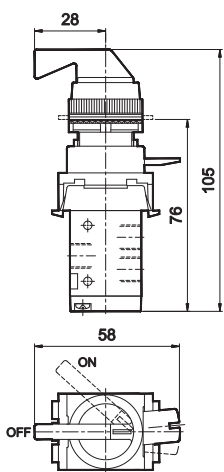
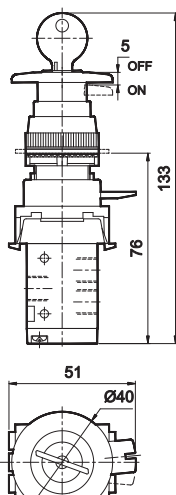
MANUALLY OPERATED VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 12

3 / 2 Panel mounting valve with Actuator

Mushroom head " Push turn "		Mushroom head " Push function "		Tip head		Flush head	
Colour	Ordering No	Colour	Ordering No	Colour	Ordering No	Colour	Ordering No
Red	NO - DS234P60-MT1A NC - DS244P60-MT1A	Red	DS234P60-MP1A DS244P60-MP1A	Black	DS234P60-TH3A DS244P60-TH3A	Red	DS234P60-FH1A DS244P60-FH1A
		Green	DS234P60-MP2A DS244P60-MP2A			Green	DS234P60-FH2A DS244P60-FH2A
		Black	DS234P60-MP3A DS244P60-MP3A				
NO	NC	NO	NC	NO	NC	NO	NC
							
							

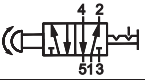
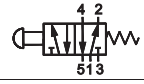
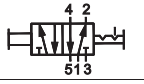
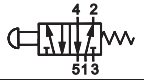
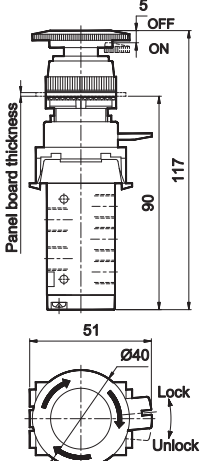
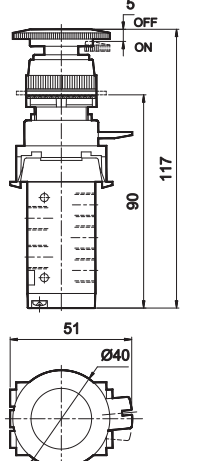
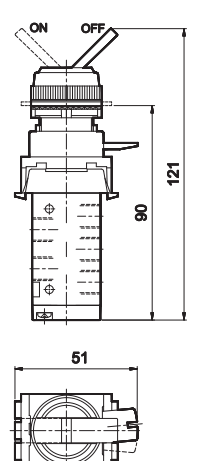
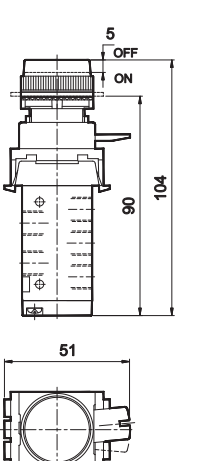
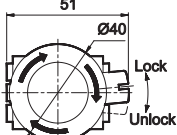
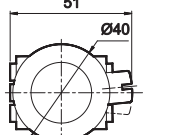
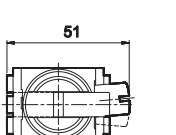
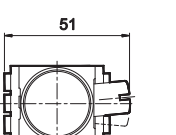
Symmetric head		Symmetric head " Spring return "		Lever head		Mushroom head with lock and key	
Colour	Ordering No	Colour	Ordering No	Colour	Ordering No	Colour	Ordering No
Black	NO - DS234P60-SH3A NC - DS244P60-SH3A	Black	NO - DS234P60-SR3A NC - DS244P60-SR3A	Black	DS234P60-LH3A DS244P60-LH3A	Red	DS234P60-ML1A DS244P60-ML1A
NO	NC	NO	NC	NO	NC	NO	NC
							
							

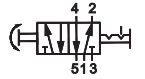
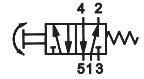
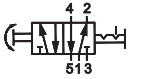
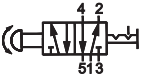
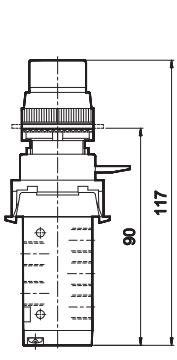
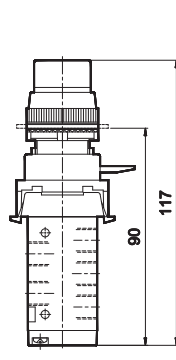
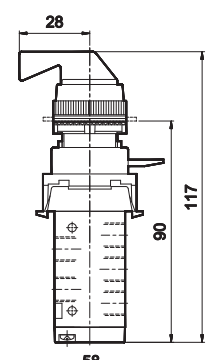
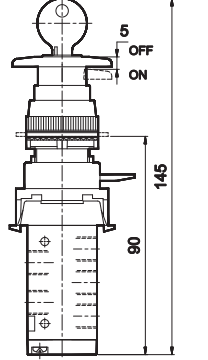
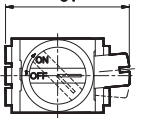
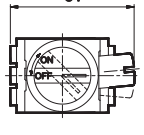
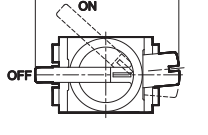
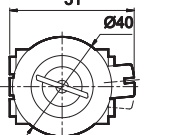
MANUALLY OPERATED VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 12

5 / 2 Panel mounting valve with Actuator

Mushroom head " Push turn "		Mushroom head " Push function "		Tip head		Flush head	
Colour	Ordering No	Colour	Ordering No	Colour	Ordering No	Colour	Ordering No
Red	DS254P60-MT1A	Red	DS254P60-MP1A	Black	DS254P60-TH3A	Red	DS254P60-FH1A
		Green	DS254P60-MP2A			Green	DS254P60-FH2A
		Black	DS254P60-MP3A				
							
							
							

Symmetric head		Symmetric head " Spring return "		Lever head		Mushroom head with lock and key	
Colour	Ordering No	Colour	Ordering No	Colour	Ordering No	Colour	Ordering No
Black	DS254P60-SH3A	Black	DS254P60-SR3A	Black	DS254P60-LH3A	Red	DS254P60-ML1A
							
							
							

How to order

While ordering Panel mounting valve with actuator, mention the ordering number given in the corresponding tables.

Subject to change

MANUALLY OPERATED VALVE - M5

Series DP2

Cat No DP2 - 01 - 01

PANEL MOUNTING VALVE - M5

Features

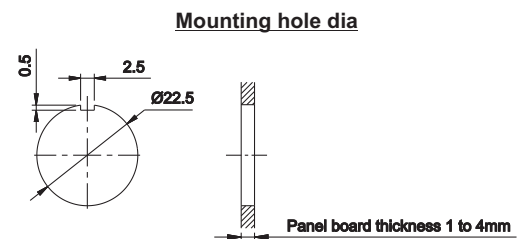
- Poppet seating arrangement
- Suitable for Panel mounting
- Mounting provision for individual unit
- Basic unit common for all the switches
- Wide range of switches available



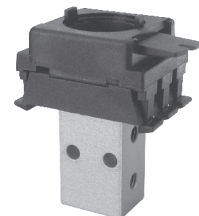
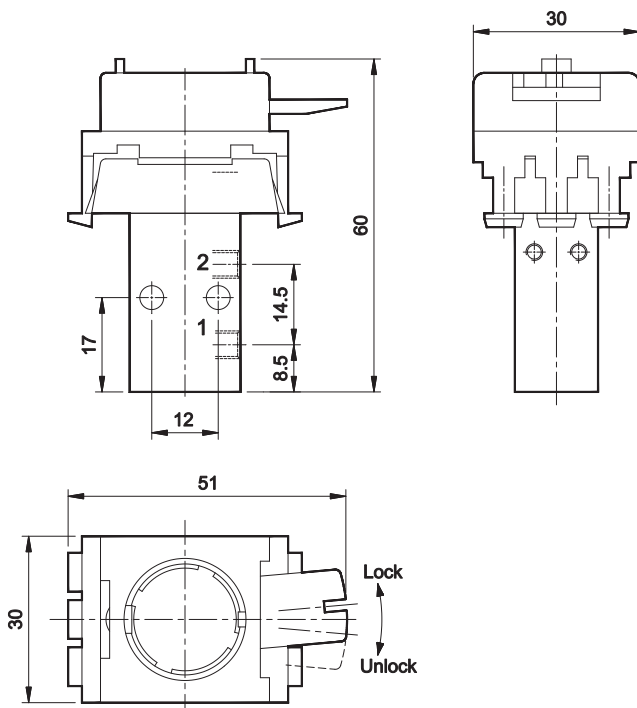
Technical Specifications

Model	DP2
Port size	M5
Ambient temperature	-10° to +60° C
Medium temperature	+5° to +50° C
Maximum working pressure	8 bar
Stroke	2.5 mm
Medium	Compressed air, Filtered, Lubricated
Flow @ (1 → 2)	130 lpm
Materials of construction	Housing : Aluminium, Seals : Nitrile

@ Inlet pressure 6 bar, and pressure drop 1 bar



3 / 2 Stem actuated panel mounting valve



1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DP242P70
Symbol	

MANUALLY OPERATED VALVE - M5

Series DP2

Cat No DP2 - 01 - 01

3 / 2 Stem actuated panel mounting valve with Actuator

Mushroom head " Push turn "		Mushroom head " Push function "		Tip head		Flush head	
Colour	Ordering No	Colour	Ordering No	Colour	Ordering No	Colour	Ordering No
Red	DP242P70-MT1A	Red	DP242P70-MP1A	Black	DP242P70-TH3A	Red	DP242P70-FH1A
						Green	DP242P70-FH2A

Symmetric head		Lever head		Mushroom head with lock and key	
Colour	Ordering No	Colour	Ordering No	Colour	Ordering No
Black	DP242P70-SH3A	Black	DP242P70-LH3A	Red	DP242P70-ML1A

How to order

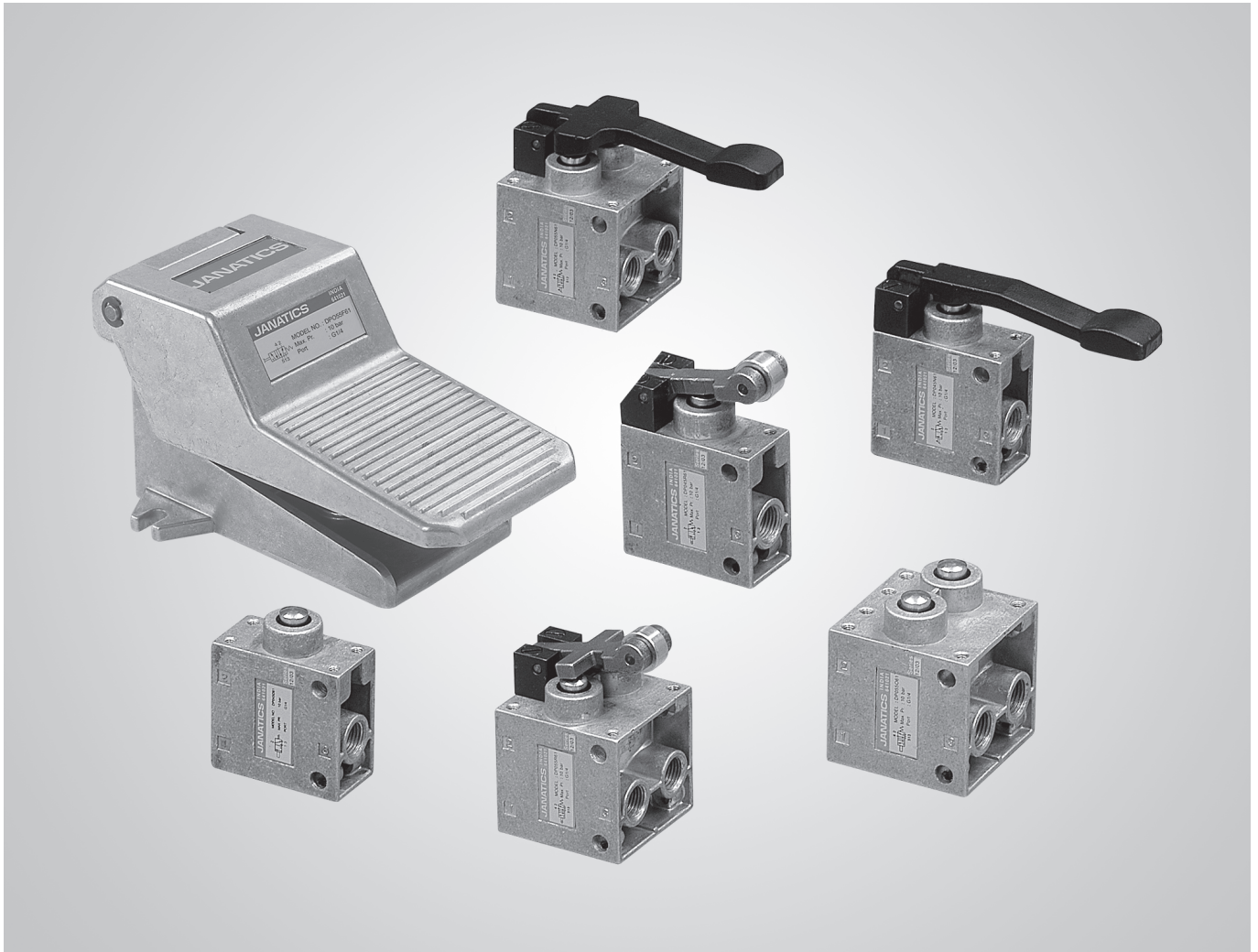
While ordering Manual & mechanical valves, mention the ordering number given in the corresponding tables.

Subject to change

Manual & Mechanical Valve

Series : DP

Sizes : G1/4



- 3/2 NO & NC, 5/2 versions
- Suitable for 10 bar air pressure
- Basic, Roller lever, Finger lever, Hand lever and Foot operated versions available

MANUAL & MECHANICAL VALVE

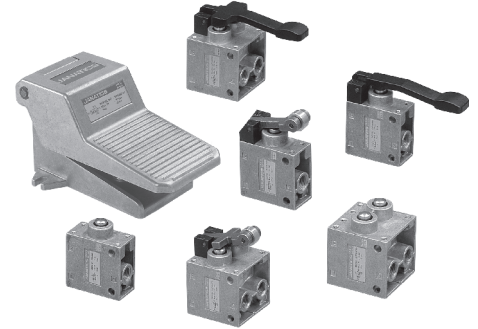
Series DP

Cat No DP - 01 - 02

MANUAL & MECHANICAL VALVES - G1/4

Features

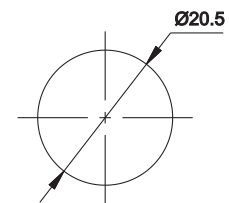
- ❑ 3/2 NO & NC, 5/2 versions
- ❑ Basic, Roller lever, Finger lever and Hand lever versions available
- ❑ Poppet seating arrangement
- ❑ No exhaust overlap



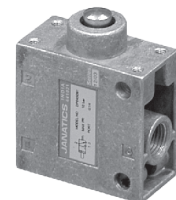
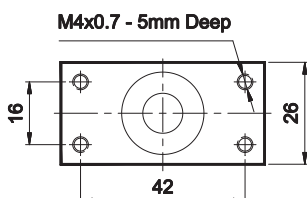
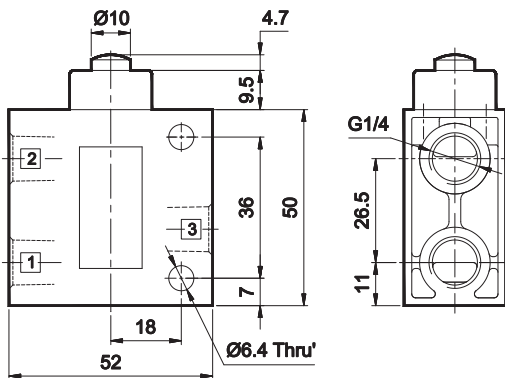
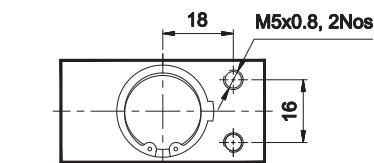
Technical Specifications

Model	3/2	5/2
Port size	G1/4	
Ambient temperature	-10° to +60° C	
Medium temperature	+5° to +50° C	
Maximum working pressure	10 bar	
Medium	Compressed air, Filtered, Lubricated	
Flow	(1 → 2) - 600 lpm	(1 → 2) (1 → 4) - 550 lpm
Materials of construction	Housing : Aluminium, Seals : Nitrile	

Panel cut hole dia



3 / 2 Stem actuated valve



1 - Inlet, 2 - Outlet, 3 - Exhaust

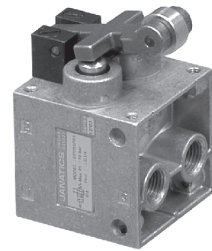
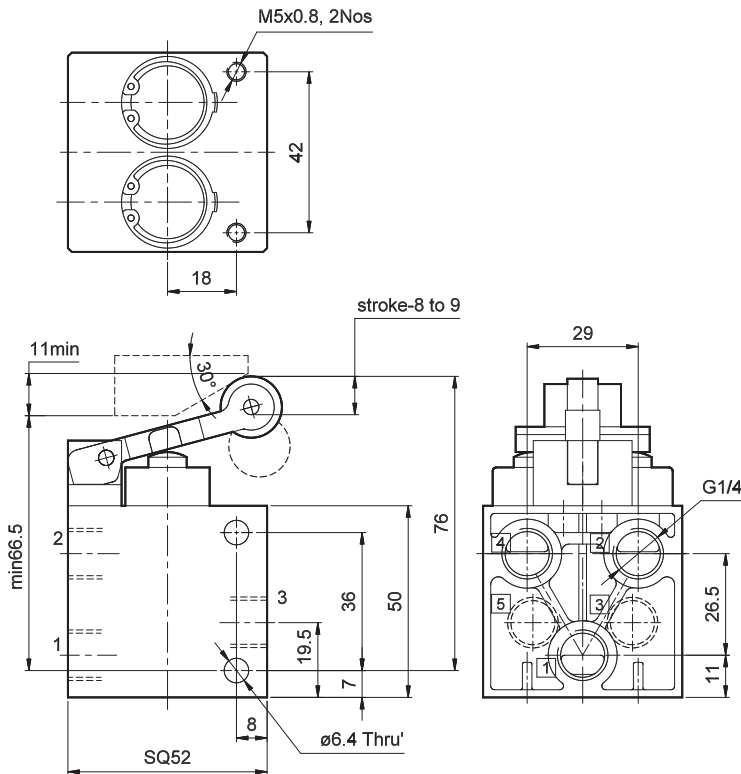
Ordering No	DP035O61	DP045O61
Symbol		

MANUAL & MECHANICAL VALVE

Series DP

Cat No DP - 01 - 02

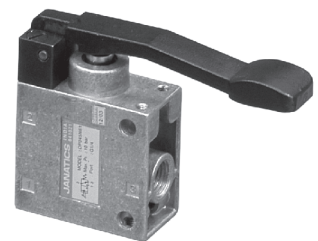
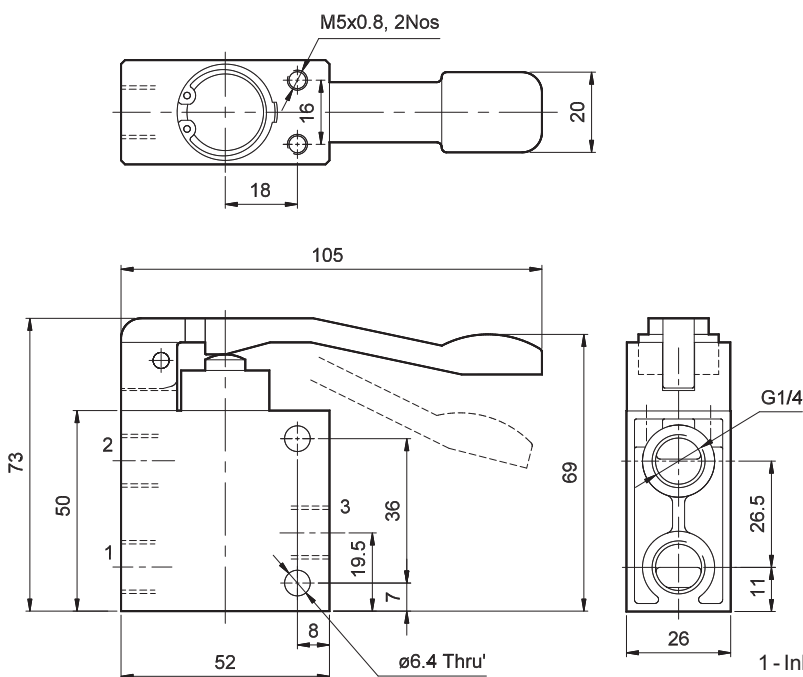
5 / 2 Poppet valve with Roller lever



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

Ordering No	DP055R61
Symbol	

3 / 2 Poppet valve with Finger lever



1 - Inlet, 2 - Outlet, 3 - Exhaust

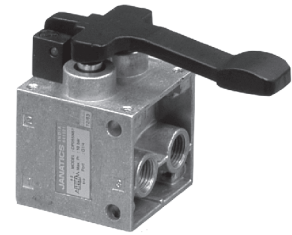
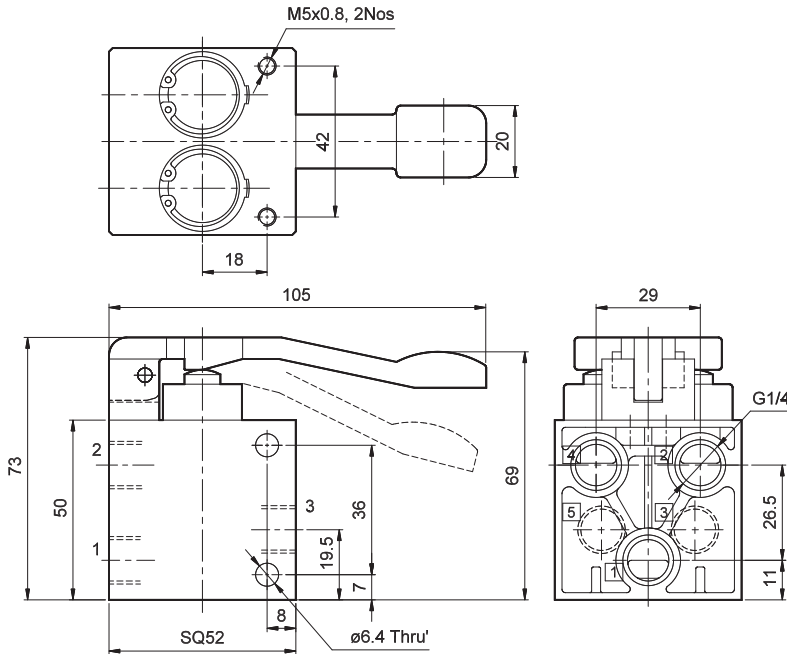
Ordering No	DP035N61	DP045N61
Symbol		

MANUAL & MECHANICAL VALVE

Series DP

Cat No DP - 01 - 02

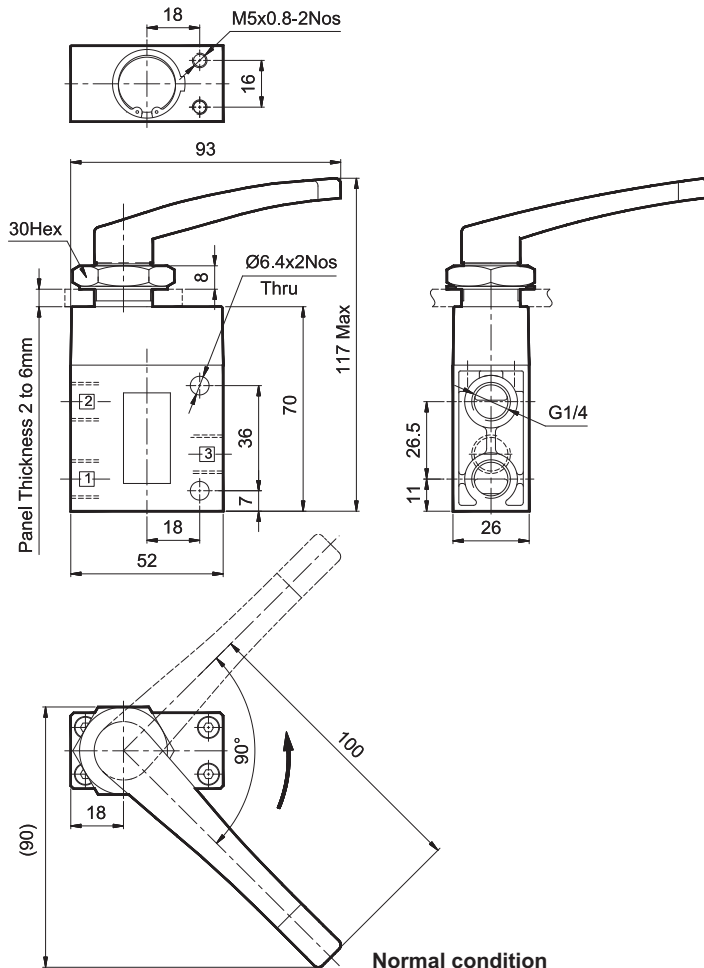
5 / 2 Poppet valve with Finger lever



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

Ordering No	DP055N61
Symbol	

3 / 2 Poppet valve with Hand lever



1 - Inlet, 2 - Outlet, 3 - Exhaust

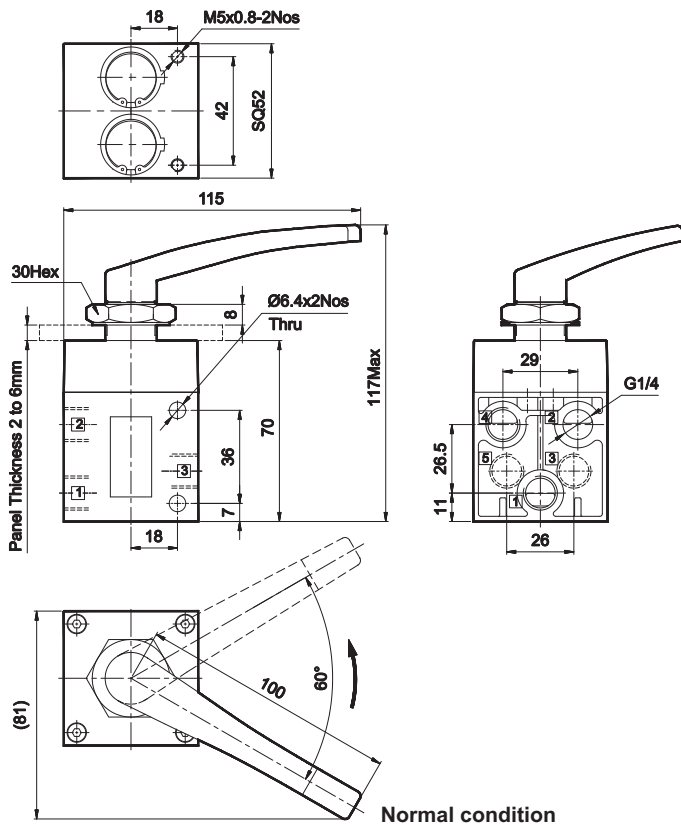
Ordering No	DP035H61	DP045H61
Type	Normally open	Normally closed
Symbol		

MANUAL & MECHANICAL VALVE

Series DP

Cat No DP - 01 - 02

5 / 2 Poppet valve with Hand lever



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

Ordering No	DP055H61
Symbol	4 2 5 3

How to order

While ordering valves, mention the ordering number given in the corresponding tables.

MANUAL & MECHANICAL VALVE

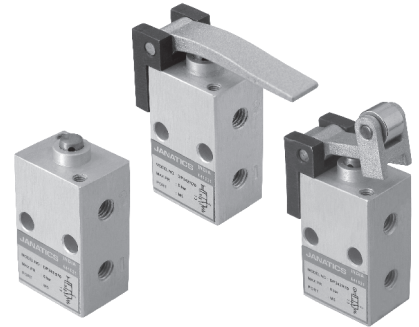
Series DP2

Cat No DP2 - 01 - 02

MANUAL & MECHANICAL VALVES - M5

Features

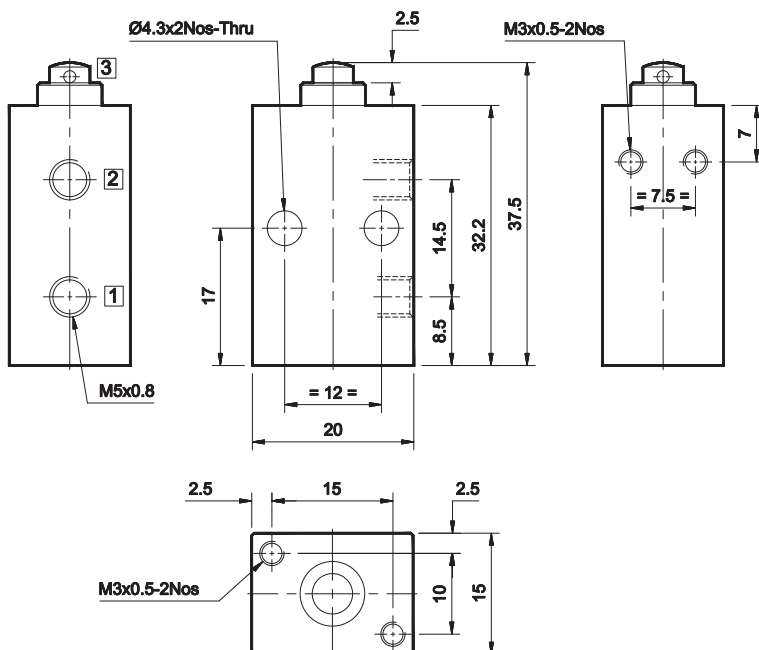
- 3/2 Normally Closed version
- Basic, Roller lever and Finger lever versions available
- Poppet seating arrangement
- No exhaust overlap



Technical Specifications

Model	3/2 (Normally Closed)
Port size	M5
Ambient temperature	-10° to +60° C
Medium temperature	+5° to +50° C
Maximum working pressure	8 bar
Stroke	2.5 mm
Medium	Compressed air, Filtered, Lubricated
Flow	(1 → 2) - 130 lpm
Materials of construction	Housing : Aluminium, Seals : Nitrile

3 / 2 Stem actuated valve (Normally closed)



1 - Inlet, 2 - Outlet, 3 - Exhaust

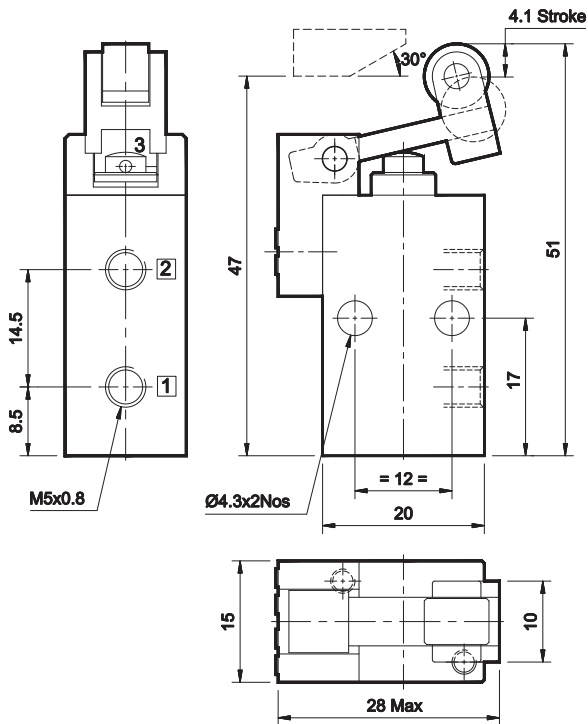
Model	DP242070
Symbol	

MANUAL & MECHANICAL VALVE

Series DP2

Cat No DP2 - 01 - 02

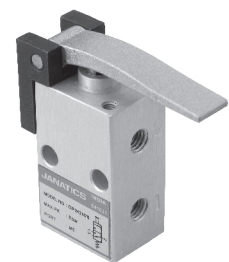
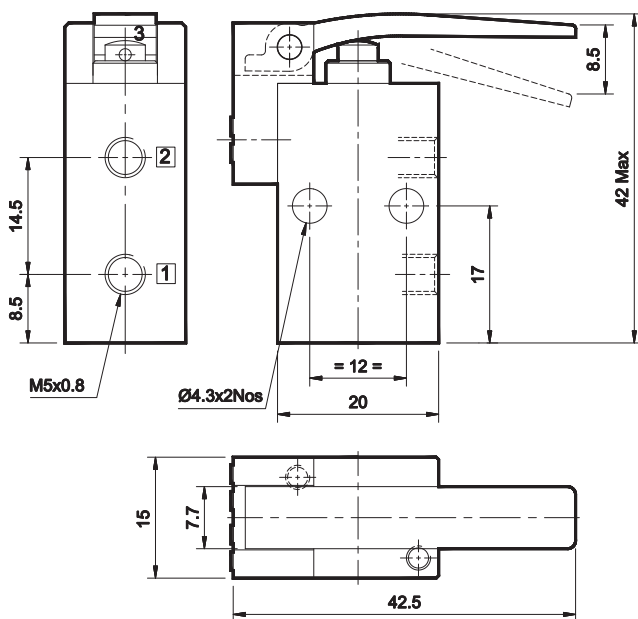
3 / 2 Poppet valve with Roller lever (Normally closed)



1 - Inlet, 2 - Outlet, 3 - Exhaust

Model	DP242R70
Symbol	

3 / 2 Poppet valve with Finger lever (Normally closed)



1 - Inlet, 2 - Outlet, 3 - Exhaust

Model	DP242N70
Symbol	

How to order

While ordering valves, mention the model number given in the corresponding tables.

Subject to change

FOOT OPERATED VALVE Series DP

Cat No DP - 01 - 03 - B

FOOT OPERATED VALVE - G1/4

Features

- Valve
 - Poppet type
 - High reliability
 - High response
 - Compact size
 - Long life
- Foot pedal
 - Pressure die cast pedal
 - Convenient to operate without physical strain
 - Spring return type
 - Lock provided



Application

These valves are used as directional control valves to operate pneumatic cylinders (single or double acting).

Function

A 5/2 foot operated valve with lock connected to a pneumatic cylinder (double acting type), when pressed once and released, makes the cylinder piston to move in the forward direction and continuously keeps in that direction. When it is again pressed the lock is released and the pedal returns back due to a spring, and thus the cylinder retracts back to its home position.

Similarly a 3/2 foot operated valve with lock, can be used to operate a single acting cylinder.

Technical Specifications

Model	3 / 2	5 / 2
Port size	G1/4	
Medium	Compressed air, filtered (lubricated / non-lubricated)	
Flow @ (1 → 2) (1 → 4)	600 lts / min	550 lts / min
Operating pressure range	0 - 10 bar	
Ambient temperature	-10° to +60° C	
Medium temperature	+5° to +50° C	
Materials of construction	Aluminium, Steel, Brass, Acetal, Nitrile	

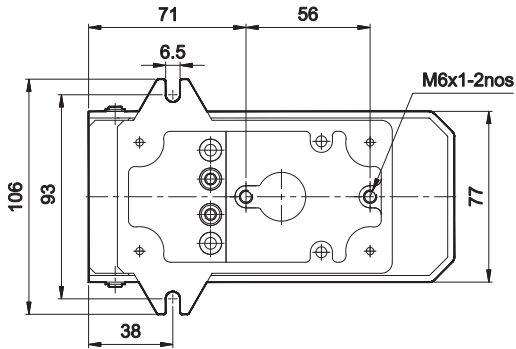
@ Inlet pressure 6 bar, and pressure drop 1 bar

FOOT OPERATED VALVE

Series DP

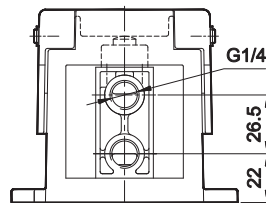
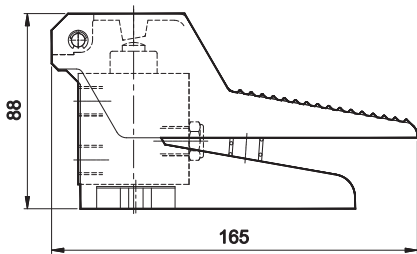
Cat No DP - 01 - 03 - B

3 / 2 Foot operated valve

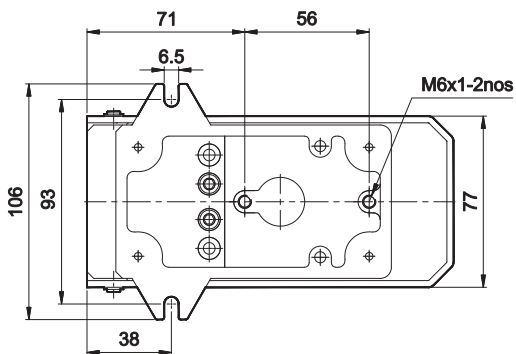


1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DP035F61	DP045F61
Symbol		

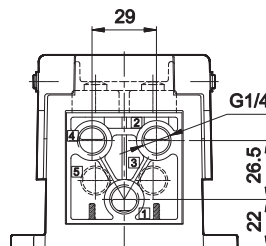
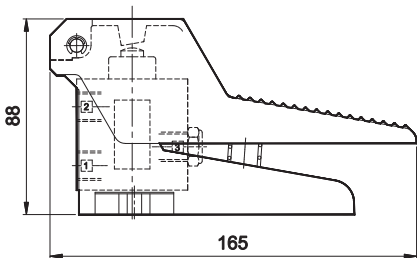


5 / 2 Foot operated valve



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

Ordering No	DP055F61
Symbol	

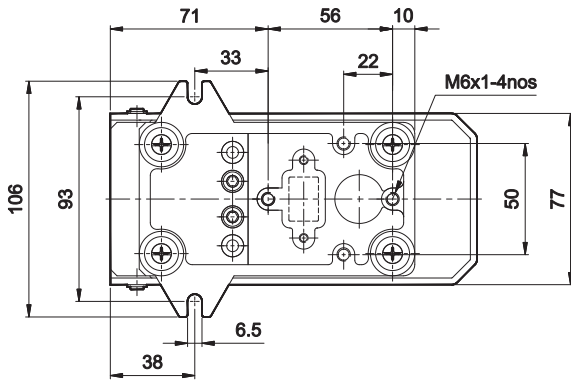


FOOT OPERATED VALVE

Series DP

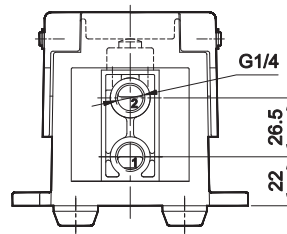
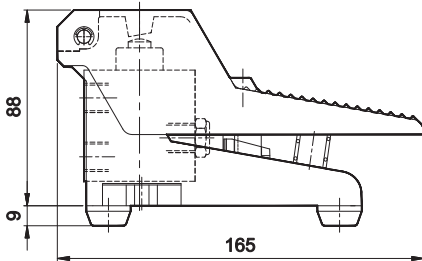
Cat No DP - 01 - 03 - B

3 / 2 Foot operated valve with lock

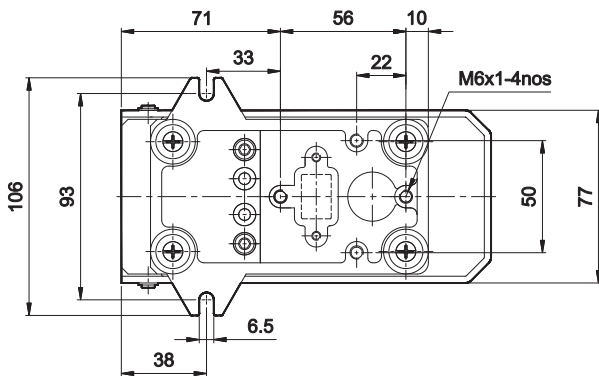


1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No	DP035L61	DP045L61
Type	Normally open	Normally closed
Symbol		

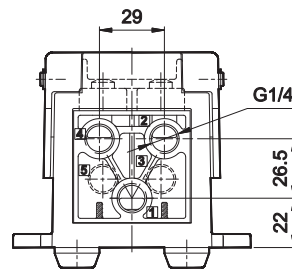
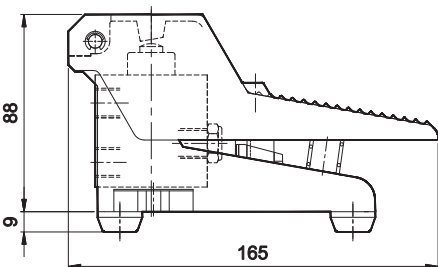


5 / 2 Foot operated valve with lock



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

Ordering No	DP055L61
Symbol	



How to order

While ordering Foot operated valve with lock, mention the ordering number given in the corresponding tables.

Subject to change

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 16 - A

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

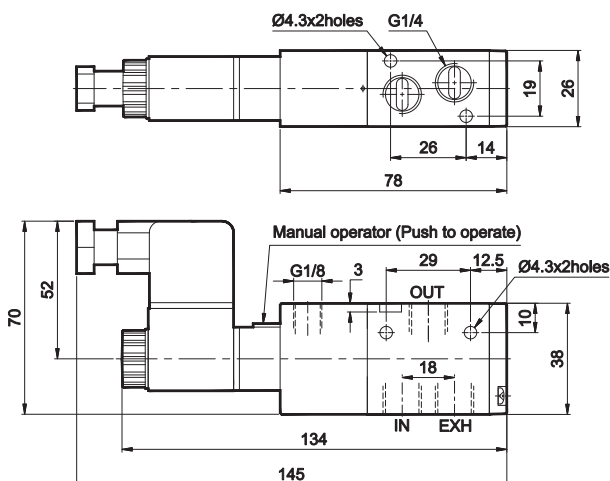
To prevent malfunctioning of the valve while operating the manual override (or) while operating the solenoid coil, ensure to have a minimum air supply of 800 lpm to the valve through a tube of minimum Ø8 outer diameter (with minimum Ø5.5 internal diameter)

Technical Specifications

Model	DS2	
Type	3/2	5/2
Design	Spool type	
Port Size	Inlet (1), Outlet (2), Exhaust (3) - G1/4 , Pilot (14, 12) - G1/8	Inlet (1), Outlet (2,4) - G1/4 , Exhaust (3,5), Pilot (14, 12) - G1/8
Flow @	1000 lts/min	Inlet to Outlet - 1000 lts/min; Outlet to Exhaust - 700 lts/min
Medium	Compressed air, filtered, lubricated	
Maximum working pressure	10 bar	
External pilot pressure range	2 to 10 bar	
Recommended oil for lubrication	ISO VG32 (Servo system 32)	
Ambient temperature	-10° to +60° C	
Medium temperature	+5° to +50° C	
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 external solenoid pilot operated valve with spring return



* For ordering no., voltage to be added.



1 - Inlet, 2 - Outlet, 3 - Exhaust, 10,12 - Pilot

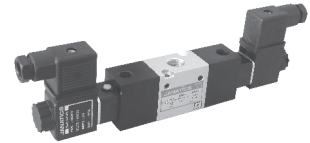
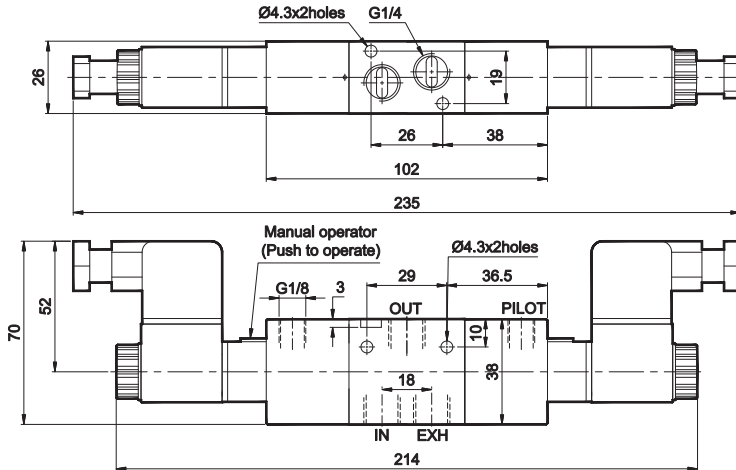
Ordering No*	DS235TR61	DS245TR61
Type	Normally open	Normally closed
Symbol		

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 16 - A

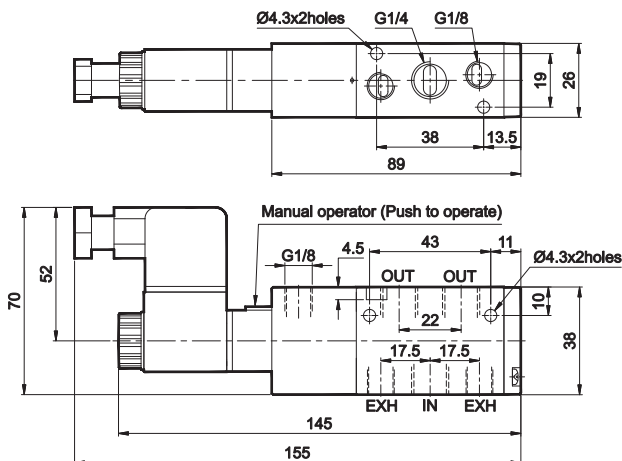
3 / 2 Double external solenoid pilot operated valve



1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust, 10,12 - Pilot

Ordering No*	DS235TT61	DS245TT61
Type	Normally open	Normally closed
Symbol		

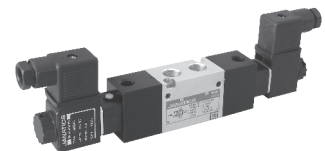
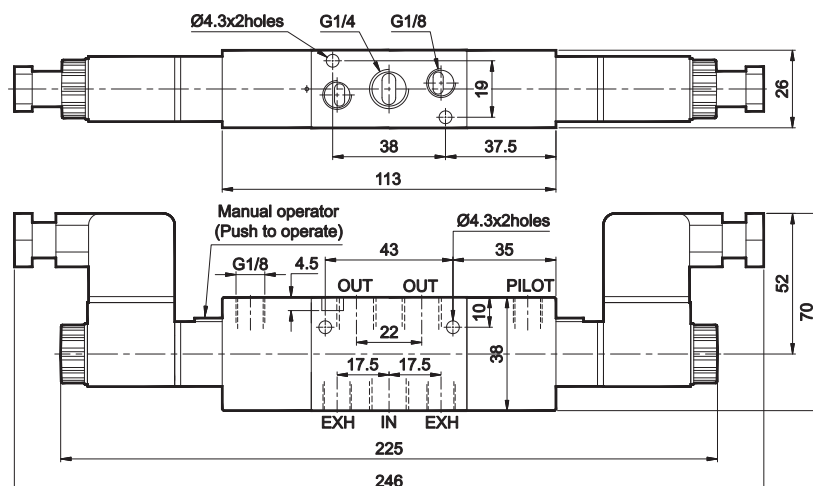
5 / 2 Single external solenoid pilot operated valve with spring return



1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust, 14 - Pilot

Ordering No*	DS255TR61
Symbol	

5 / 2 Double external solenoid pilot operated valve



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

Ordering No*	DS255TT61
Symbol	

* For ordering no., voltage to be added.

COMPACT VALVE - 1/4

Series DS2

Cat No DS2 - 01 - 16 - A

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



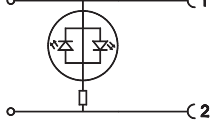
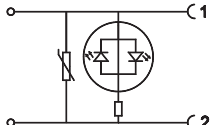
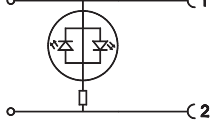
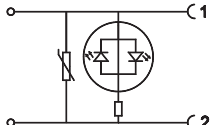

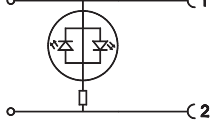
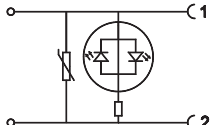
A 220V AC	Q 110V DC
B 110V AC	S 48V DC
D 48V AC	W 24V DC
G 24V AC	R 12V DC

Example

- a. The ordering no. for 3/2 NC Single external solenoid pilot valve, 24V D.C coil with PG cable is **DS245TR61-W**
- b. The ordering no. for 3/2 NC Single external solenoid pilot valve, 24V D.C coil with Moulded cable is **DS245TR61-W1**

2. Solenoid valve + “Connectors with LED”

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

 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Voltage</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">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> </tbody> </table>	Voltage		A	220V AC	G	24V AC	W	24V DC	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Housing Colour & Indication</th> </tr> </thead> <tbody> <tr> <td style="width: 10%; text-align: center;">T0</td> <td>  Transparent housing with Bipolar LED indicator confirming supply voltage </td> </tr> <tr> <td style="text-align: center;">T1</td> <td>  Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load </td> </tr> </tbody> </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	R <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">LED colour</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">R</td> <td>Red</td> </tr> </tbody> </table>	LED colour		R	Red	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Connection type</th> </tr> </thead> <tbody> <tr> <td style="width: 10%; text-align: center;">0</td> <td>PG Cable entry</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Moulded cable (with 2metre length)</td> </tr> </tbody> </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																										
T1	 Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load																										
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 external solenoid pilot valve, 24V DC, connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable: **DS245TR61-WT1R1**

Coil spare ordering no.

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

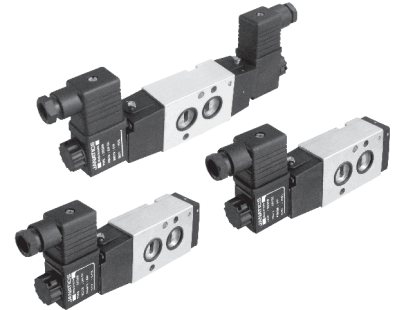
COMPACT VALVE (NAMUR Standard) Series DS3

Cat No DS3 - 01 - 01 - A

COMPACT VALVE - G1/4

Features

- Suitable for 'NAMUR' standard fitments
- Compact size
- Manual override
- Wide range of coil voltages



Technical Specifications

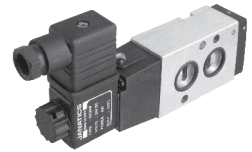
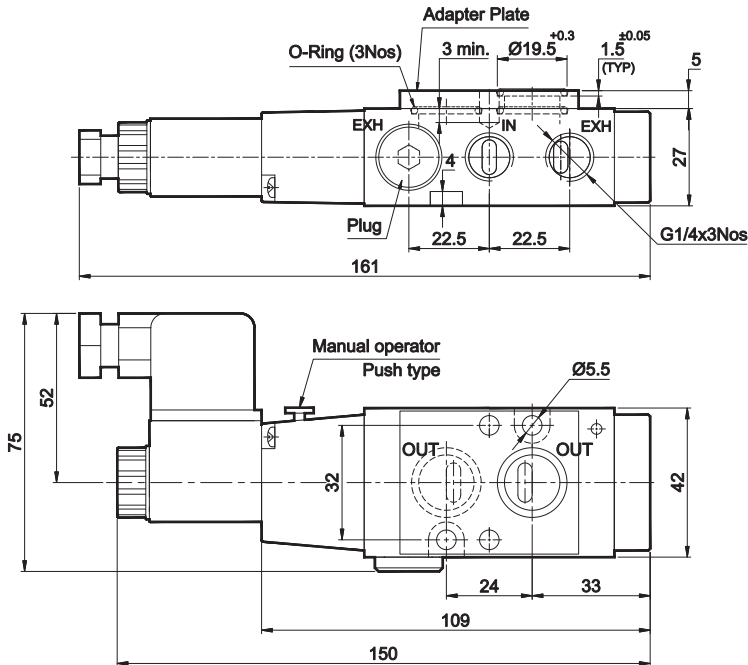
Model	DS3	
Type	3/2 Single Solenoid, 5/2 Single Solenoid & Double solenoid	
Design	Spool type with NAMUR hole pattern	
Port size	Inlet, Exhaust - G1/4	Outlet - NAMUR hole pattern
Medium	Compressed air, Filtered, Lubricated	
Working pressure range	2 - 10 bar	
Ambient temperature	-10° to +60° C	
Medium temperature	+5° to +50° C	
Flow @	1400 lts/min	
Mounting type	2 holes in Housing to NAMUR standard with Combination head screw (M5x30) - 2nos., O Ring (Ø16xØ2) - 2nos.	
Materials of construction	Aluminium, Nitrile, Brass, Steel, Acetal, PBT, Zinc	
Product weight	Single Solenoid - 350gms, Double Solenoid - 440gms	
Electrical		
	Standard	Flame proof
Coil width	22 mm	22 mm
Voltage (V) ± 10%	AC (50 Hz) - 24, 48, 110, 220	AC - 220 V
	DC - 12, 24, 48, 110	DC - 24
Power consumption	AC - 6 VA, DC - 5 W	AC - 3 VA, DC - 3 W
Duty cycle	Continuous	Continuous
Class of insulation	Class F	Class H
Type of coil protection	IP65	IP66
Cable entry	PG9 (Suitable for Ø6 - Ø8 OD cable (2wire/3wire))	1.2 meter cable length

@ Inlet pressure 6 bar, and pressure drop 1 bar

COMPACT VALVE (NAMUR Standard) Series DS3

Cat No DS3 - 01 - 01 - A

3 / 2 Normally opened single solenoid pilot operated valve with spring return

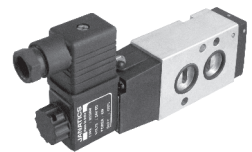
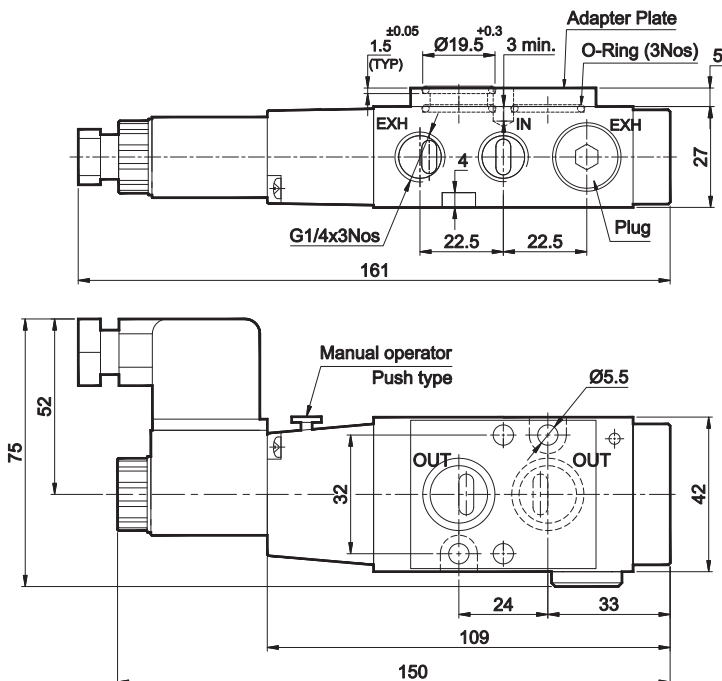


1 - Inlet, 2 - Outlet, 3 - Exhaust

Ordering No*	DS335SR61
Type	Normally open
Symbol	

* For ordering No, voltage to be added

3 / 2 Normally closed single solenoid pilot operated valve with spring return



1 - Inlet, 2 - Outlet, 3 - Exhaust

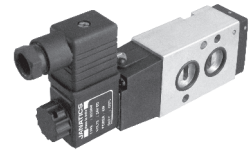
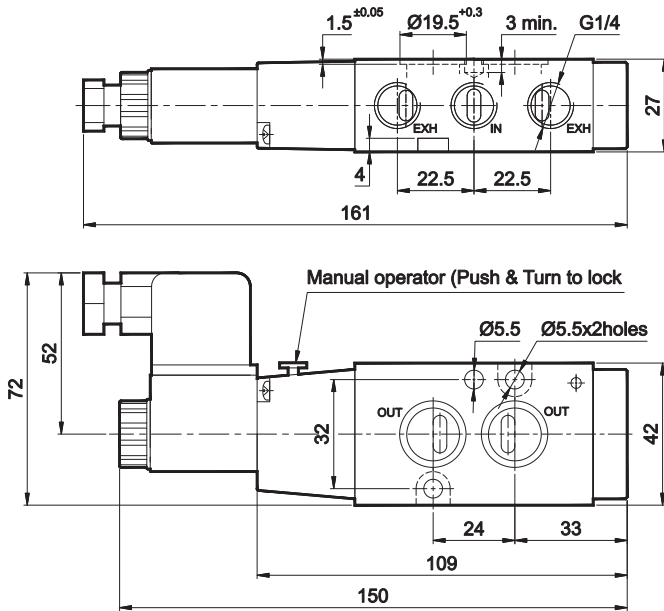
Ordering No*	DS345SR61
Type	Normally closed
Symbol	

* For ordering No, voltage to be added


COMPACT VALVE (NAMUR Standard) Series DS3

Cat No DS3 - 01 - 01 - A

5 / 2 Single Solenoid pilot operated valve with spring return

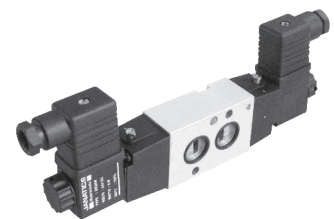
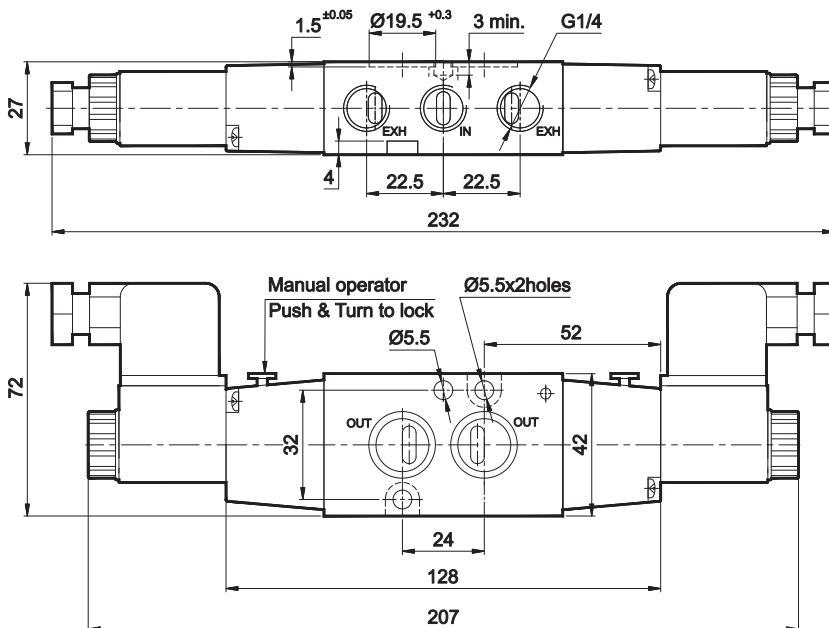


1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust

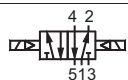
Ordering No*	DS355SR61
Symbol	

* For ordering No, voltage to be added

5 / 2 Double solenoid pilot operated valve



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

Ordering No*	DS355SS61
Symbol	

* For ordering No, voltage to be added

COMPACT VALVE (NAMUR Standard) Series DS3

Cat No DS3 - 01 - 01 - A

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



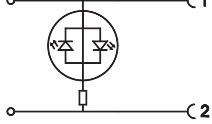
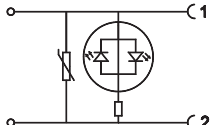
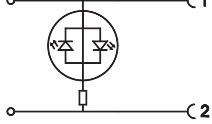
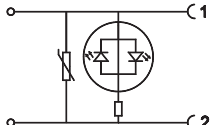

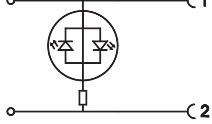
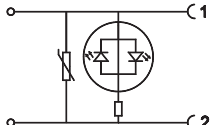
A 220V AC	Q 110V DC
B 110V AC	S 48V DC
D 48V AC	W 24V DC
G 24V AC	R 12V DC

Example

- a. The ordering no. for 3/2 NO Single solenoid valve, 24V D.C coil with PG cable is **DS335SR61-W**
- b. The ordering no. for 3/2 NO Single solenoid valve, 24V D.C coil with Moulded cable is **DS335SR61-W1**
- c. The ordering no. for 3/2 NO Single solenoid valve, 24V D.C with flame proof coil **DS335SR61-WF**

2. Solenoid valve + “Connectors with LED”

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

 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th colspan="2">Voltage</th></tr> </thead> <tbody> <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> </tbody> </table>	Voltage		A	220V AC	G	24V AC	W	24V DC	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th colspan="2">Housing Colour & Indication</th></tr> </thead> <tbody> <tr> <td style="text-align: center; vertical-align: middle;">T0</td> <td style="text-align: center;">  Transparent housing with Bipolar LED indicator confirming supply voltage </td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">T1</td> <td style="text-align: center;">  Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load </td> </tr> </tbody> </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	R <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th colspan="2">LED colour</th></tr> </thead> <tbody> <tr><td>R</td><td>Red</td></tr> </tbody> </table>	LED colour		R	Red	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th colspan="2">Connection type</th></tr> </thead> <tbody> <tr><td>0</td><td>PG Cable entry</td></tr> <tr><td>1</td><td>Moulded cable (with 2metre length)</td></tr> </tbody> </table>	Connection type		0	PG Cable entry	1	Moulded cable (with 2metre length)
Voltage																											
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G	24V AC																										
W	24V DC																										
Housing Colour & Indication																											
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T1	 Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load																										
LED colour																											
R	Red																										
Connection type																											
0	PG Cable entry																										
1	Moulded cable (with 2metre length)																										

Example

The Ordering no for 3/2 NO Single solenoid valve (1/4"), 24V DC, connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable: **DS335SR61-WT1R1**

Coil spare ordering no.

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

Flame proof coil spare ordering no.

Coil	Ordering no.	
	AC	DC
Voltage		
220	SC3056	- NA -
24	- NA -	SC3057

COMPACT VALVE - 1/4

Series DS5

Cat No DS5 - 01 - 01 - B

COMPACT VALVE - G1/4

Features

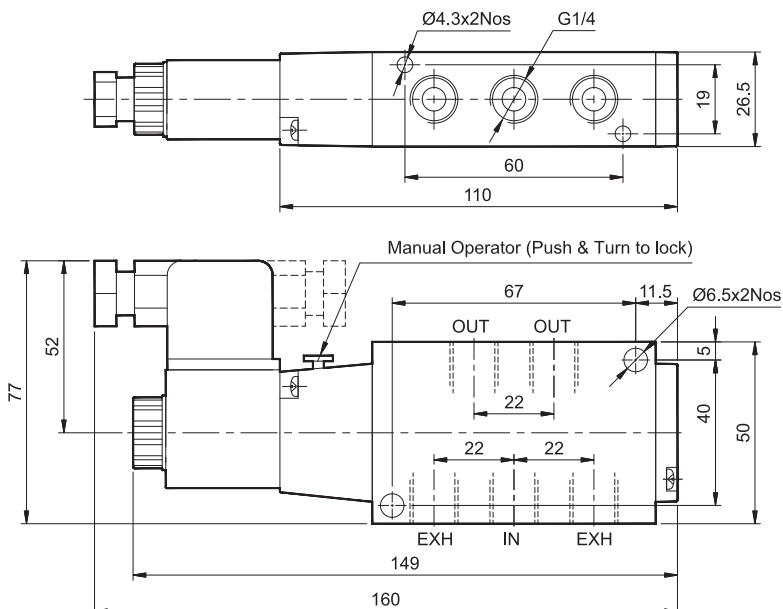
- Mounting provision for individual unit
- Compact size
- Manual override
- Wide range of coil voltages
- Suitable for manifold mounting (M004...series)

Technical Specifications

Model	DS5
Type	5/2
Design	Spool type
Port Size	Inlet, Outlet, Exhaust - G1/4
Medium	Compressed air filtered, lubricated
Minimum working pressure	2 bar
Maximum working pressure	10 bar
Recommended oil for lubrication	ISO VG32 (Servo system 32)
Ambient temperature	-10° to +60° C
Medium temperature	+5° to +50° C
Nominal Flow @	1000 lts/min
Materials of construction	Aluminium, Nitrile, Brass, Acetal, PBT, Zinc, Steel
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
Cable entry (PG9)	Suitable for Ø6 to Ø8 OD Cable (2wire / 3wire)

@ Inlet pressure 6 bar, and pressure drop 1 bar

5/2 Single solenoid pilot operated valve with spring return



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

Ordering No*	DS555SR61
Symbol	

* For ordering no., voltage to be added.

COMPACT VALVE - 1/4

Series DS5

Cat No DS5 - 01 - 01 - B

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 DC
B 110V AC	S 48V DC
D 48V AC	W 24V DC
G 24V AC	R 12V DC

Example

- a. The ordering no. for 5/2 Single solenoid valve, 24V D.C coil with PG cable is **DS555SR61-W**
- b. The ordering no. for 5/2 Single solenoid valve, 24V D.C coil with Moulded cable is **DS555SR61-W1**

2. Solenoid valve + “Connectors with LED”

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

 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th colspan="2">Voltage</th></tr> </thead> <tbody> <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> </tbody> </table>	Voltage		A	220V AC	G	24V AC	W	24V DC	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th colspan="2">Housing Colour & Indication</th></tr> </thead> <tbody> <tr> <td style="text-align: center; vertical-align: middle;">T0</td> <td style="text-align: center;"> Transparent housing with Bipolar LED indicator confirming supply voltage </td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">T1</td> <td style="text-align: center;"> Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load </td> </tr> </tbody> </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	R <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th colspan="2">LED colour</th></tr> </thead> <tbody> <tr><td>R</td><td>Red</td></tr> </tbody> </table>	LED colour		R	Red	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th colspan="2">Connection type</th></tr> </thead> <tbody> <tr><td>0</td><td>PG Cable entry</td></tr> <tr><td>1</td><td>Moulded cable (with 2metre length)</td></tr> </tbody> </table>	Connection type		0	PG Cable entry	1	Moulded cable (with 2metre length)
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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 5/2 Single solenoid valve (1/4"), 24V DC, connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable: **DS555SR61-WT1R1**

Coil spare ordering no.

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

COMPACT VALVE - 1/4

Series DS5

Cat No DS5 - 01 - 02 - B

COMPACT VALVE - G1/4

Features

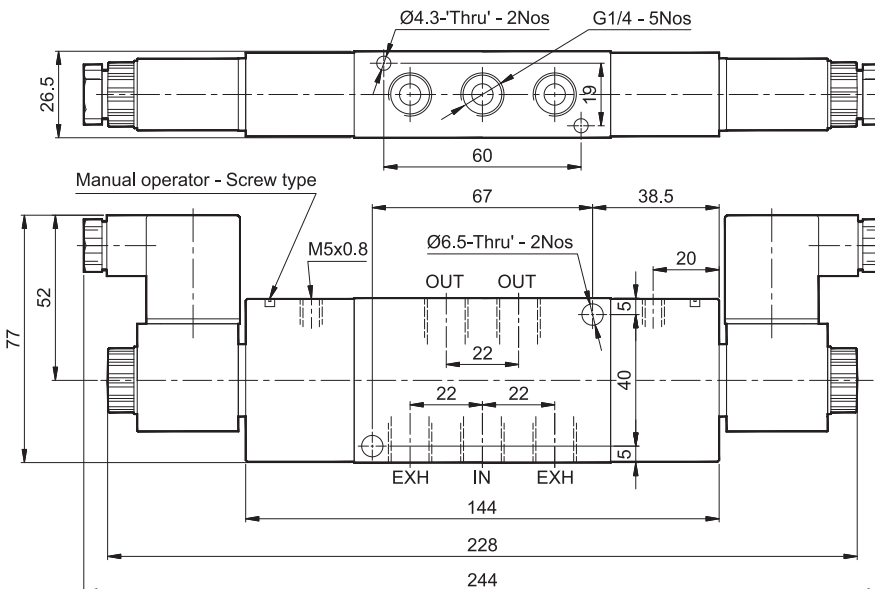
- Mounting provision for individual unit
- Compact size
- Manual override
- Wide range of coil voltages
- Suitable for manifold mounting (M004...series)

Technical Specifications

Model	DS5
Type	5/2
Design	Spool type
Port Size	Inlet, Outlet, Exhaust - G1/4 Pilot (14, 12) - M5
Medium	Compressed air filtered, lubricated
Working Pressure range	2 to 10 bar
External Pilot Pressure range	2 to 10 bar
Recommended oil for lubrication	ISO VG32 (Servo system 32)
Ambient temperature	-10° to +60° C
Medium temperature	+5° to +50° C
Nominal Flow @	1100 lts/min
Materials of construction	Aluminium, Nitrile, Brass, Acetal, PBT, Zinc, Steel
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
Cable entry (PG9)	Suitable for Ø6 to Ø8 OD Cable (2wire / 3wire)

@ Inlet pressure 6 bar, and pressure drop 1 bar

5/2 Double external solenoid pilot valve



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

Ordering No*	DS555TT61
Symbol	

* For ordering no., voltage to be added.

COMPACT VALVE - 1/4

Series DS5

Cat No DS5 - 01 - 02 - B

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


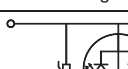
A	220V AC	Q	110V DC
B	110V AC	S	48V DC
D	48V AC	W	24V DC
G	24V AC	R	12V DC

Example

- The ordering no. for 5/2 Double external solenoid pilot valve, 24V D.C coil with PG cable is **DS555TT61-W**
- The ordering no. for 5/2 Double external solenoid pilot valve, 24V D.C coil with Moulded cable is **DS555TT61-W1**

2. Solenoid valve + “Connectors with LED”

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

Voltage		Housing Colour & Indication		LED colour		Connection type	
A	220V AC	 Transparent housing with Bipolar LED indicator confirming supply voltage	R	Red	0	PG Cable entry	
G	24V AC				1	Moulded cable (with 2metre length)	
W	24V DC						
		 Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load					

Example

The Ordering no for 5/2 Double external solenoid pilot valve (1/4"), 24V DC, connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable: **DS555TT61-WT1R1**

Coil spare ordering no.

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

ISO SUB BASE VALVE

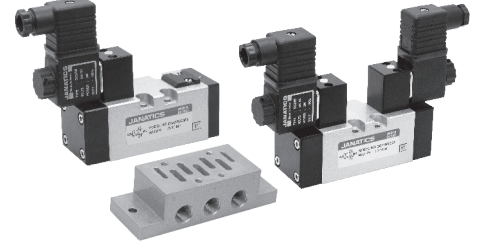
Series DS4

Cat No DS4 - 01 - 02 - A

ISO SUB BASE VALVE - SIZE 1

Features

- Mounting interface suitable for ISO 5599-1
- Manual override
- Wide range of coil voltages
- Optional - High temperature 150° C max. (Viton seals)



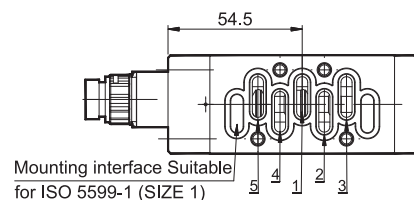
Technical Specifications

Model	DS4 - SR & SS
Type	5/2
Design	Spool type
Mounting interface	Suitable for ISO 5599-1; ISO size 1
Pneumatic connection on sub base	G1/4
Medium	Compressed air filtered, lubricated
Minimum working pressure	2 bar
Maximum working pressure	10 bar
Recommended oil for lubrication	ISO VG32 (Servo system 32)
Ambient temperature	Standard: -10° to +60° C; High temperature: +5° to +150° C max. **
Medium temperature	+5° to +60° C
Flow @	1200 lts/min
Noise level	85 dB(A)
Materials of construction	Aluminium, Nitrile, Brass, Acetal, PBT, Zinc, Steel, Viton
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
Cable entry (PG9)	Suitable for Ø6 to Ø8 OD Cable (2wire / 3wire)

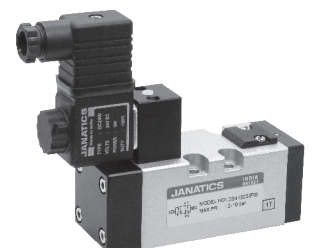
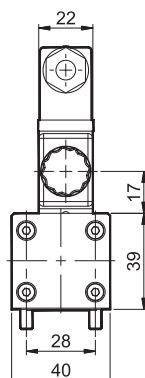
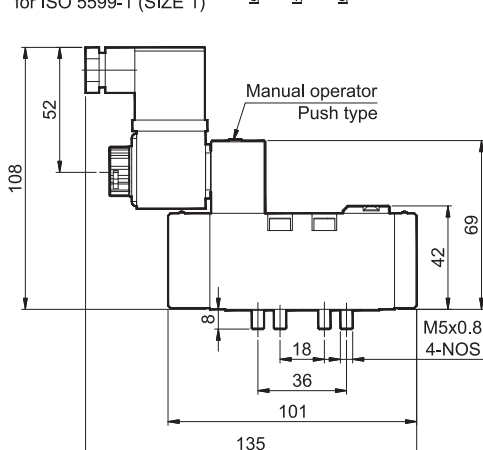
@ Inlet pressure 6 bar, and pressure drop 1 bar

** Refer ordering no.

5 / 2 Single solenoid with spring return valve



Mounting interface Suitable for ISO 5599-1 (SIZE 1)



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

Ordering No*	DS41502SR8 & DS41502SR8H
Symbol	 4 2 5 1 3

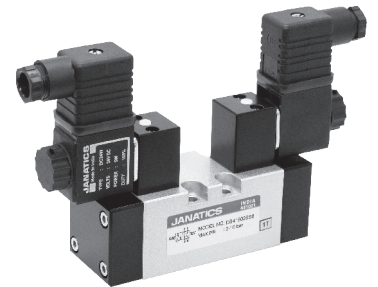
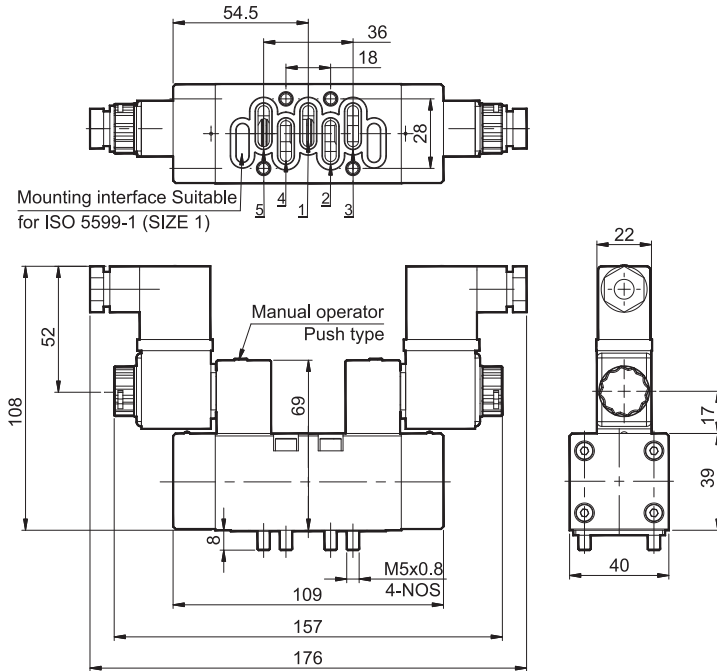
* For ordering no, voltage to be added

ISO SUB BASE VALVE

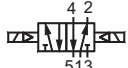
Series DS4

Cat No DS4 - 01 - 02 - A

5 / 2 Double solenoid pilot operated valve

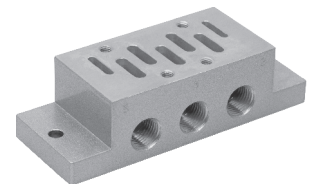
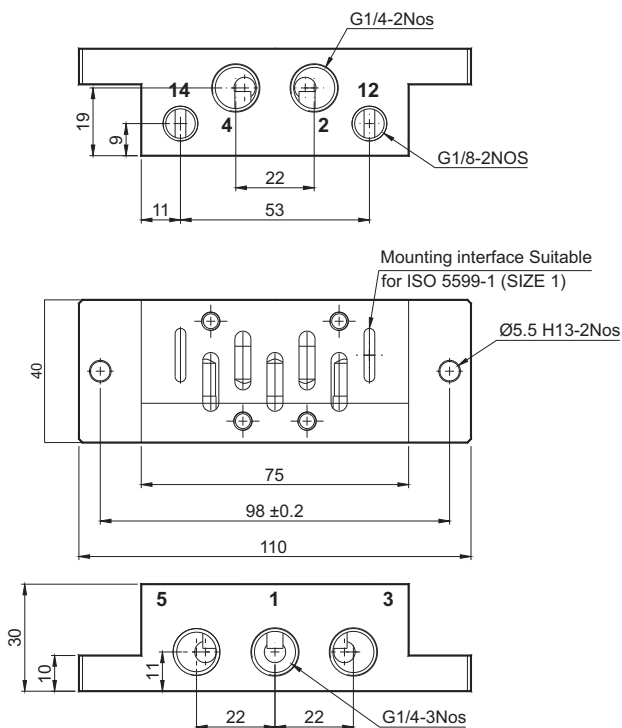


1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust

Ordering No*	DS41502SS8 & DS41502SS8H
Symbol	

* For ordering no, voltage to be added

ISO Sub Base - Size 1



Ordering No	M01161
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ISO SUB BASE VALVE

Series DS4

Cat No DS4 - 01 - 02 - A

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

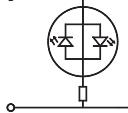
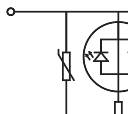
A	220V AC	Q	110V DC
B	110V AC	S	48V DC
D	48V AC	W	24V DC
G	24V AC	R	12V DC

Example

- The ordering no. for ISO size 1 - 5/2 24V D.C Double solenoid pilot operated valve with PG cable is **DS41502SS8-W**
- The ordering no. for ISO size 1 - 5/2 24V D.C Double solenoid pilot operated valve with Moulded cable is **DS41502SS8-W1**

2. Solenoid valve + “Connectors with LED”

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

Voltage		Housing Colour & Indication		LED colour		Connection type	
A	220V AC	T0		R	Red	0	PG Cable entry
G	24V AC					Transparent housing with Bipolar LED indicator confirming supply voltage	
W	24V DC	T1					
				Transparent housing with Bipolar LED indicator confirming supply voltage plus varistor to give over voltage protection to the source and load			

Example

- The Ordering no for ISO size 1 - 5/2 24V D.C Double solenoid pilot operated valve, connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable, - **DS41502SS8-WT1R1**
- The Ordering no for ISO size 1 - 5/2 24V D.C Double solenoid pilot operated valve, connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable, suitable for high temperature - **DS41502SS8H-WT1R1**

Coil spare ordering no.

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

Subject to change

COMPACT VALVE

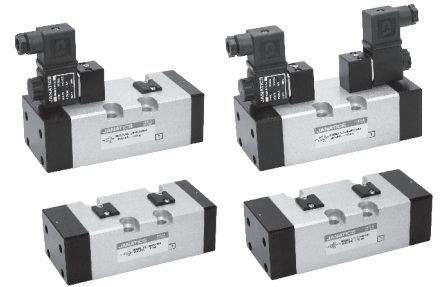
Series DS4

Cat No DS4 - 01 - 03 - A

COMPACT VALVE - ISO SIZE 3

Features

- Mounting interface suitable for ISO 5599-1
- Manual operator - Push type
- Wide range of coil voltages

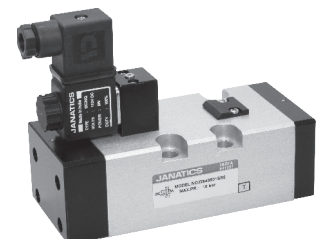
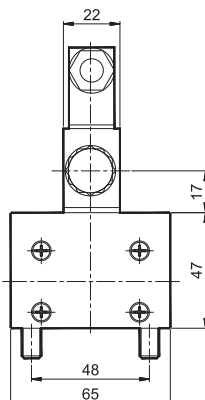
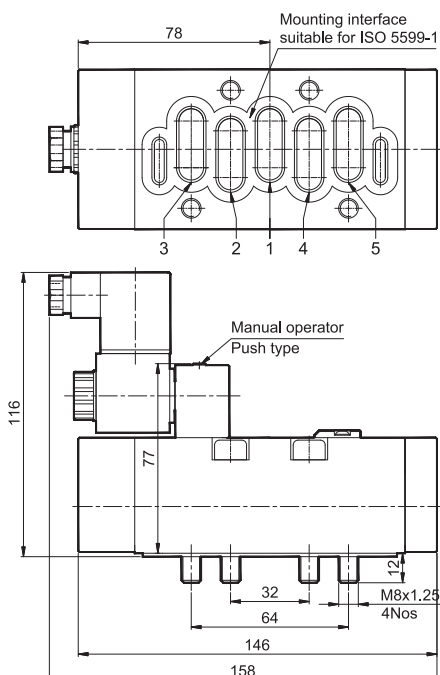


Technical Specifications

Model	DS4
Type	5/2 - SR, SS, ER & EE
Design	Spool type
Mounting interface	Suitable for ISO 5599-1 Size 3
Pneumatic connection on sub base	G1/2
Medium	Compressed air, filtered, lubricated
Minimum working pressure	2 bar
Maximum working pressure	10 bar
Recommended oil for lubrication	ISO VG32 (Servo system 32)
Ambient temperature	-10° to +60° C
Medium temperature	+5° to +50° C
Flow [®]	4500 lts/min
Materials of construction	Aluminium, Brass, Acetal, PBT, Zinc, Nitrile, Steel
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
Cable entry (PG9)	Suitable for Ø6 to Ø8 OD Cable (2wire / 3wire)

[®] Inlet pressure 6 bar, and pressure drop 1 bar

5 / 2 Single Solenoid pilot operated valve with spring return



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

Ordering No*	DS43501SR8
Symbol	4 2 5 13

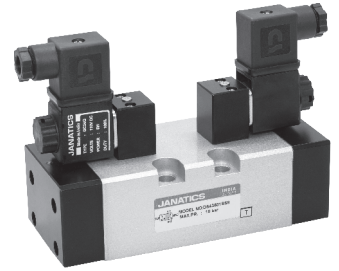
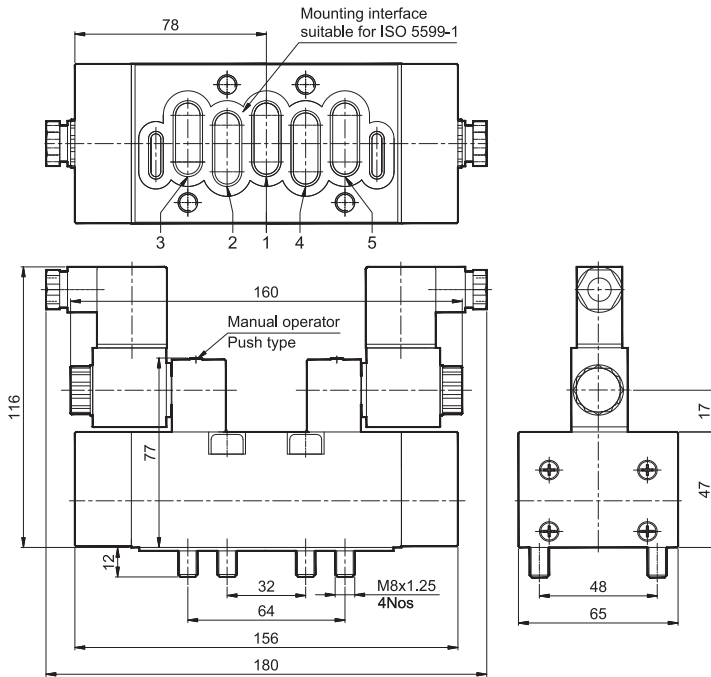
* For ordering no, voltage to be added

COMPACT VALVE

Series DS4

Cat No DS4 - 01 - 03 - A

5 / 2 Double Solenoid pilot operated valve

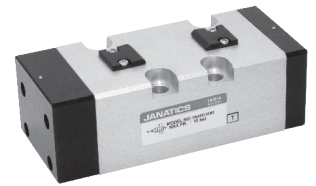
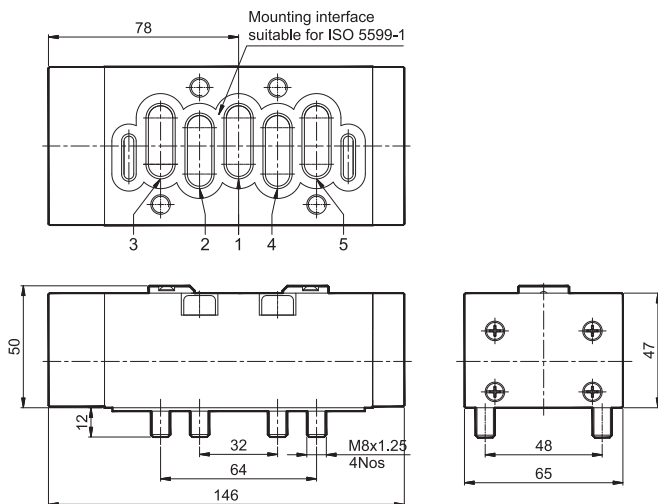


1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust

Ordering No*	DS43501SS8
Symbol	

* For ordering no, voltage to be added

5 / 2 Single External pilot operated with spring return valve



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

Ordering No*	DS43501ER8
Symbol	

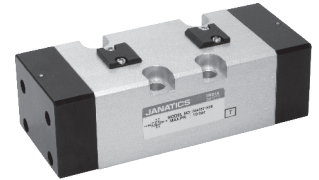
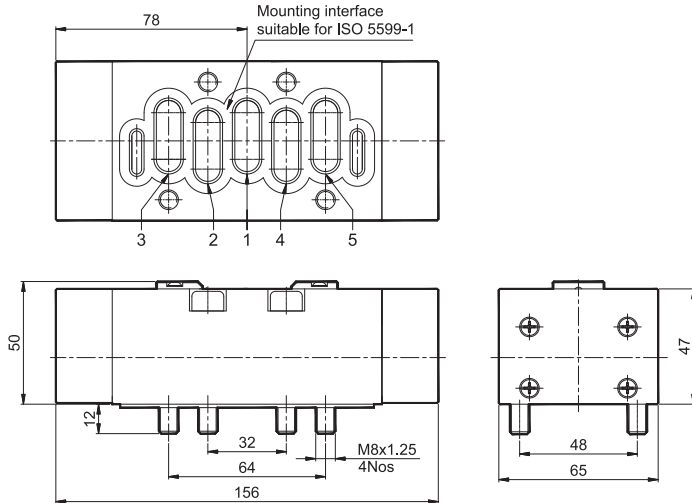
* For ordering no, voltage to be added

COMPACT VALVE

Series DS4

Cat No DS4 - 01 - 03 - A

5 / 2 Double External pilot operated valve



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

Ordering No*	DS43501EE8
Symbol	

* For ordering no, voltage to be added

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 DC
B	110V AC	S	48V DC
D	48V AC	W	24V DC
G	24V AC	R	12V DC

Example

- The ordering no. for ISO size 3 - 5/2 24V DC Single solenoid spring return valve with PG cable is **DS43501SR8-W**
- The ordering no. for ISO size 3 - 5/2 24V DC Single solenoid spring return valve with Moulded cable is **DS43501SR8-W1**

2. Solenoid valve + “Connectors with LED”

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

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

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

Example: The Ordering no for ISO size 3 - 5/2, 24V DC Single solenoid spring return valve, connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable: **DS43501SR8-WT1R1**

Subject to change

ISO SUB BASE VALVE

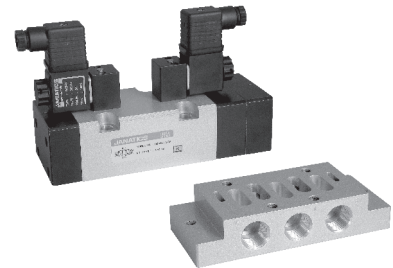
Series DS4

Cat No DS4 - 01 - 01

ISO SUB BASE VALVE - SIZE 3

Features

- Mounting interface suitable for ISO 5599-1
- Manual override
- Wide range of coil voltages

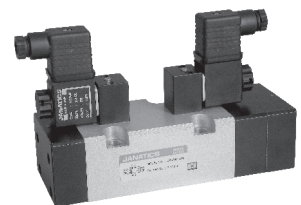
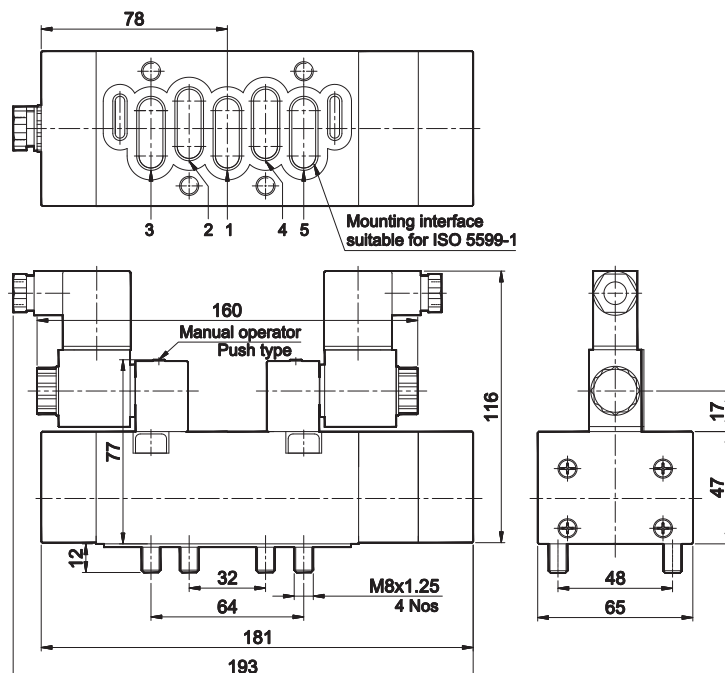


Technical Specifications

Model	DS4
Type	5/3
Design	Spool type
Mounting interface	Suitable for ISO 5599 - 1 size 3
Pneumatic connection on sub base	G1/2
Medium	Compressed air filtered, lubricated
Minimum working pressure	2 bar
Maximum working pressure	10 bar
Recommended oil for lubrication	ISO VG32 (Servo system 32)
Ambient temperature	-10° to +60° C
Medium temperature	+5° to +50° C
Flow @	4500 lts/min
Materials of construction	Aluminium, Nitrile, Brass, Acetal, PBT, Zinc, Steel
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
Cable entry (PG9)	Suitable for Ø6 to Ø8 OD Cable (2wire / 3wire)

@ Inlet pressure 6 bar, and pressure drop 1 bar

5 / 3 Solenoid spring centered valve (Blocked)



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

Ordering No*	DS43601 SC8
Symbol	

* For ordering no., voltage to be added.

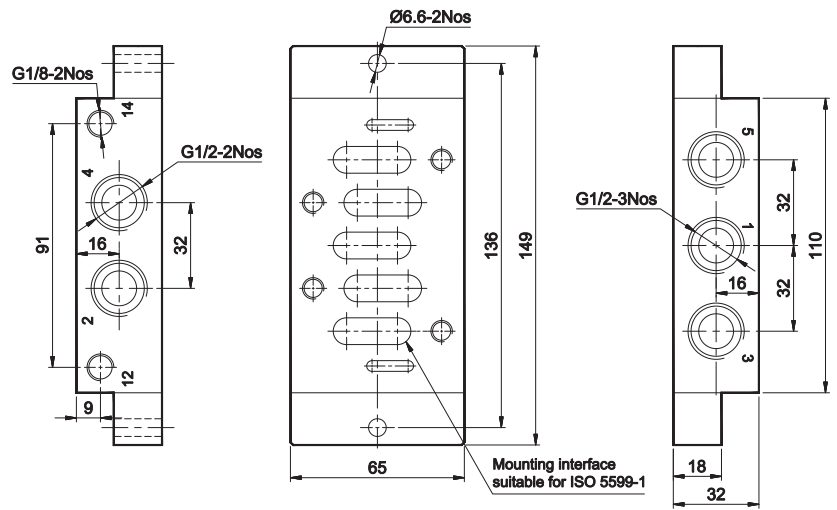
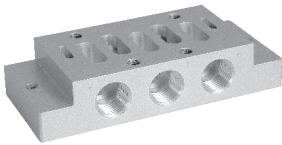
ISO SUB BASE VALVE

Series DS4

Cat No DS4 - 01 - 01

ISO SUB BASE - SIZE 3

Ordering No
M01363



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 DC
B	110V AC	S	48V DC
D	48V AC	W	24V DC
G	24V AC	R	12V DC

Example

- The ordering no. for ISO size 3 - 5/3 24V D.C Solenoid spring centered valve with PG cable is **DS43601SC8-W**
- The ordering no. for ISO size 3 - 5/3 24V D.C Solenoid spring centered valve with Moulded cable is **DS43601SC8-W1**

2. Solenoid valve + “Connectors with LED”

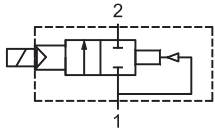
While ordering Solenoid operated valves with LED connectors, given below in the corresponding tables.

Voltage		Housing Colour & Indication		LED colour	Connection type		
A	220V AC		Transparent housing with Bipolar LED indicator confirming supply voltage	R	0	PG Cable entry	
G	24V AC					1	Moulded cable (with 2metre length)
W	24V DC						

Example

The Ordering no for ISO size 3 - 5/3 24V D.C Solenoid spring centered valve (Blocked), connectors with LED of Transparent colour housing with Bipolar LED and varistor, Red colour LED with moulded cable: **DS43601SC8-WT1R1**

Subject to change



SOLENOID VALVE

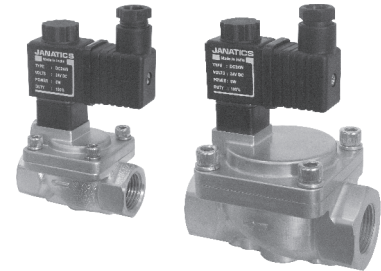
Series DMN

Cat No DMN - 01 - 01 - A

2/2 Normally Closed, pilot operated solenoid valve

Features

- Diaphragm operated poppet seat type
- Wide range of coil voltages
- Continues duty cycle
- Manual operator (push type)
- Good flow characteristics
- Compact in size



Technical Specifications

Ordering No.	DMN227A61	DMN227A62	DMN227A63	DMN229A64	DMN229A65	
Port Size	G1/4	G3/8	G1/2	G3/4	G1	
Type	2/2					
Design	Diaphragm type					
Medium	Air, Water, Inert Gas - Compressed air, filtered, lubricated					
Operating pressure	0.5 to 10 bar					
Ambient temperature	-10° to +60° C					
Medium temperature	+5° to +50° C					
Actuation type	Electrical					
Type of pilot control	Piloted					
Type of mounting	In-line installation					
Mounting position	Any					
Nominal size	mm	13	13	13	25	25
Standard nominal flow rate	lts/min	1600	3600	4000	10800	11800
Maximum tightening torque	N.m	14	24	30	40	52
Weight	kg	0.565	0.540	0.515	1.34	1.265
Materials of construction	Housing, Top cover: Brass, Diaphragm: Nitrile Other components: Stainless steel, Poly acetal, Steel, Polyamide, Brass					
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					

Note: For water application

1. It is recommended to keep the solenoid valve in vertical position.
2. Do not remove the mesh provided in inlet port side.
3. Use of filter in the inlet side is highly recommended.
4. Use of soft water or water softener in the inlet side is highly recommended.

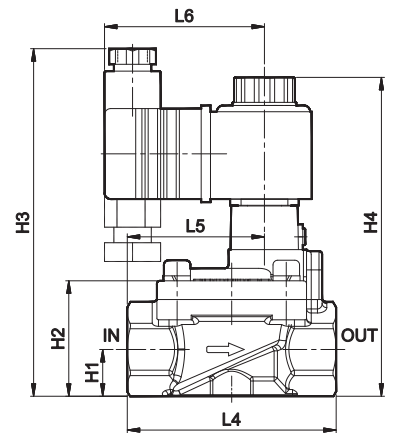
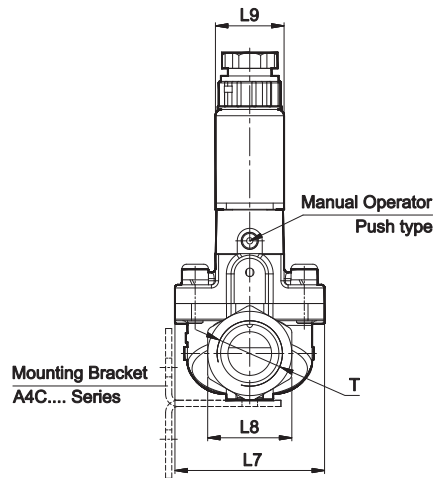
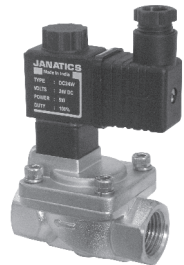
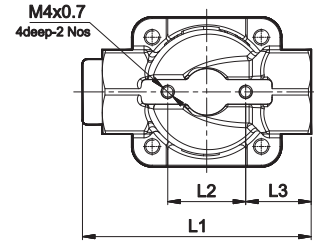
SOLENOID VALVE

Series DMN

Cat No DMN - 01 - 01 - A

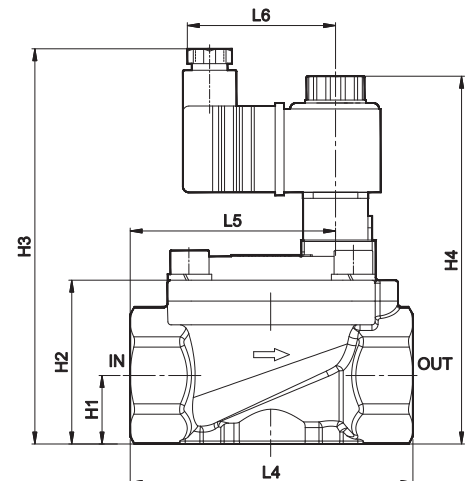
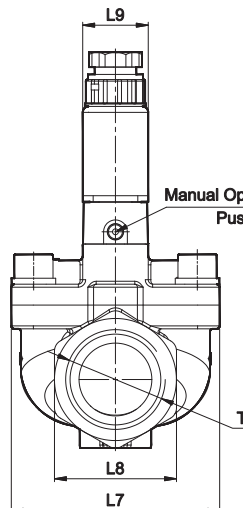
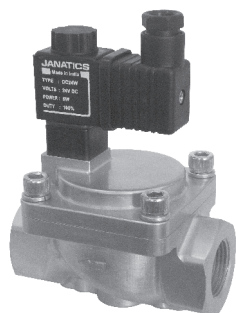
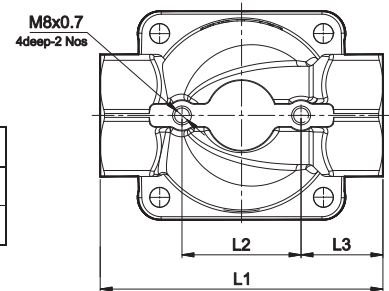
2/2 Normally Closed, pilot operated solenoid valve - G1/4, G3/8, G1/2

Model No	T	L1	L2	L3	L4	L5	L6	L7	L8	L9	H1	H2	H3	H4
DMN227A61	G1/4	74	25	21	67	44	51	SQ48	27 A/F	22	15	37	112	102.5
DMN227A62	G3/8	74	25	21	67	44	51	SQ48	27 A/F	22	15	37	112	102.5
DMN227A63	G1/2	74	25	21	67	44	51	SQ48	27 A/F	22	15	37	112	102.5



2/2 Normally Closed, pilot operated solenoid valve - G3/4, G1

Model No	T	L1	L2	L3	L4	L5	L6	L7	L8	L9	H1	H2	H3	H4
DMN229A64	G3/4	95	40	27.5	95	69	51	SQ70	41 A/F	22	23	55	133.5	124
DMN229A65	G1	95	40	27.5	95	69	51	SQ70	41 A/F	22	23	55	133.5	124

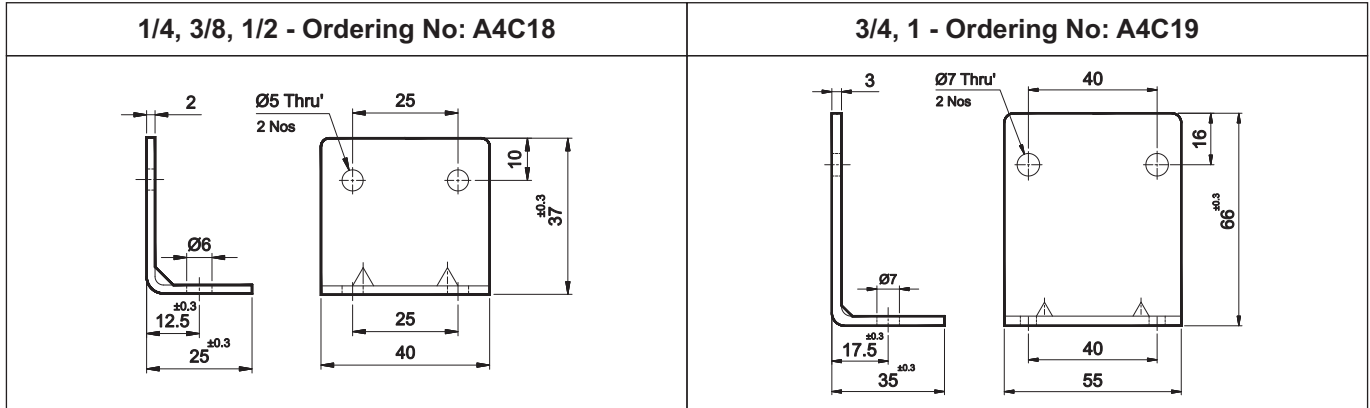


SOLENOID VALVE

Series DMN

Cat No DMN - 01 - 01 - A

Mounting bracket



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 DC
B	110V AC	S	48V DC
D	48V AC	W	24V DC
G	24V AC	R	12V DC

Example

- The ordering no. for 2/2 NC, pilot operated solenoid valve with 24V D.C coil is **DMN227A63-W**
- The ordering no. for 2/2 NC, pilot operated solenoid valve with 24V D.C coil with Moulded cable is **DMN227A63-W1**

2. Solenoid valve + “Connectors with LED”

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

Voltage		Housing Colour & Indication		LED colour	Connection type	
A	220V AC		Transparent housing with Bipolar LED indicator confirming supply voltage	R	Red	
G	24V AC				0 PG Cable entry	
W	24V DC				1 Moulded cable (with 2metre length)	

Example

The ordering no. for 2/2 NC, pilot operated solenoid valve, 24V D.C, connectors with LED of Transparent colour housing with Bipolar LED and varistor with moulded cable : **DMN227A63-WT1R1**

Subject to change

ROTARY SLIDE VALVE

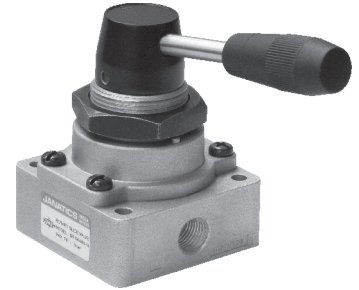
Series DR

Cat No DR - 01 - 01 - B

ROTARY SLIDE VALVE - G1/4

Features

- ❑ Easy handle movement and precise control of the direction
- ❑ Compact and lightweight design
- ❑ Handle position available in two types (Ref. Fig.1 & Fig.2)
- ❑ Both body mounting and Panel mounting is possible
- ❑ Good flow characteristics



Technical Specifications

Model	DR19	DR11
Port size	G1/4	
Medium	Compressed air filtered, lubricated	
Maximum working pressure bar	10	
Recommended oil for lubrication	ISO VG32 (Servo system 32)	
Operating Angle	45° (Refer Fig.1&2)	
Ambient temperature C	-10° to +60°	
Medium temperature C	+5° to +50°	
Flow @ (1→2, 1→4) lts/min	1100	1000
Materials of construction	Aluminium, Steel, Stainless Steel, Nitrile Rubber, Brass	
Weight Kg	0.3	

@ - Inlet pressure 6 bar, and pressure drop 1 bar

Ordering no.	DR195S61-N & DR195S61-T	DR115S61-N & DR115S61-T
Type	4/3 - Hand Lever Operated (Mid-Position Blocked)	4/3 - Hand Lever Operated (Mid-Position Exhausted)
Symbol		

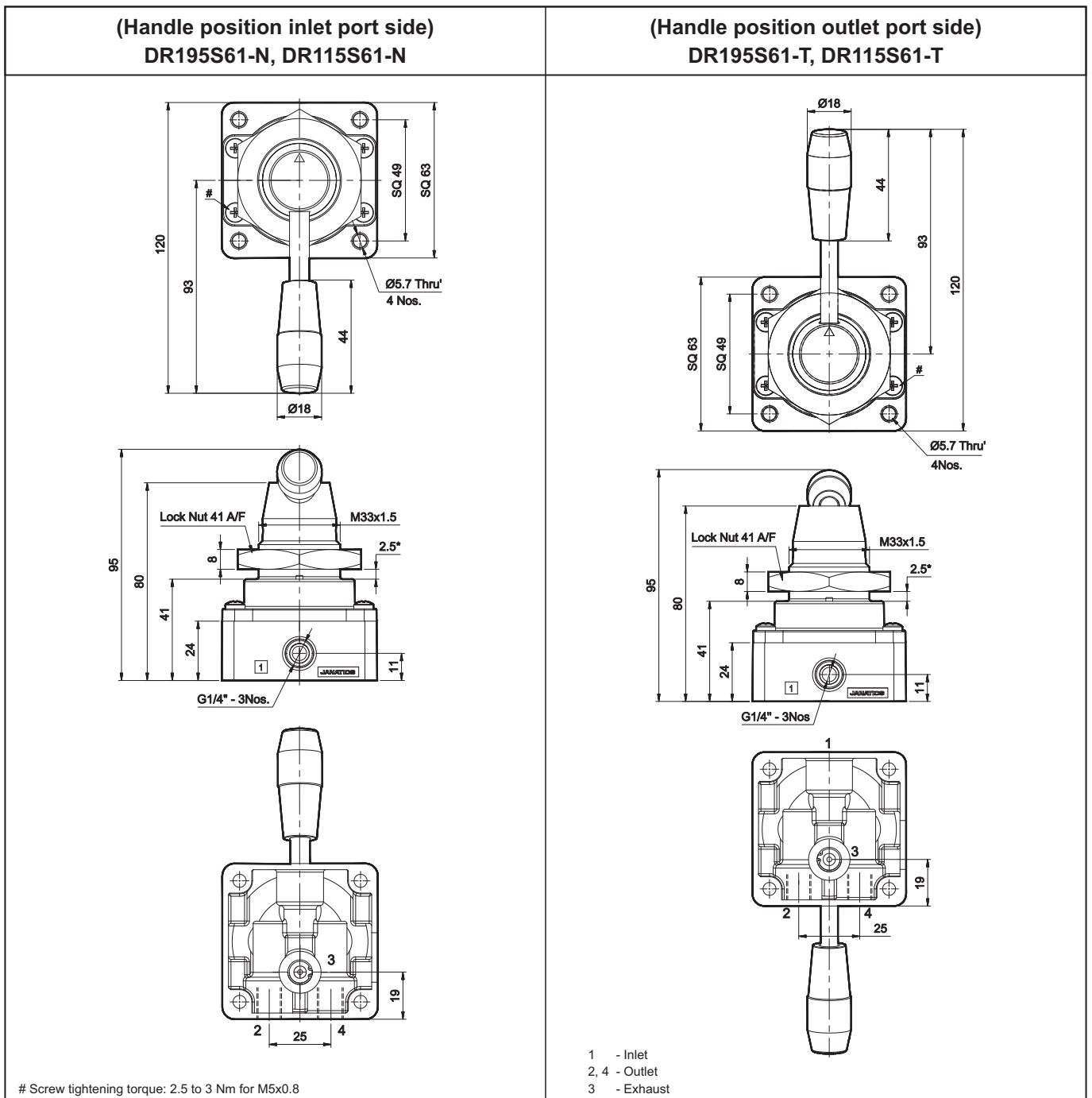
N - Handle position Inlet port side, T - Handle position Outlet port side

Handle operation angle and air flow direction	Panel cut dimension
<p>(Handle position inlet port side) DR195S61-N, DR115S61-N</p> <p>1 - Inlet 2, 4 - Outlet</p> <p>FIG. 1</p>	<p>(Handle position outlet port side) DR195S61-T, DR115S61-T</p> <p>1 - Inlet 2, 4 - Outlet</p> <p>FIG. 2</p>
	<p>Panel thickness = 3 to 4mm</p>

ROTARY SLIDE VALVE

Series DR

Cat No DR - 01 - 01 - B



Caution

Operation method : The valve must be switched to each position instantly and securely. Stopping the handle midway between the extreme positions may cause malfunction

Switch only by hand : Switching the valve by using hammer or other tools or driving it mechanically through the cylinder could cause damage

Ordering Example

The ordering no for 4/3 Rotary slide valve - 1/4" (Handle position inlet port side) - **DR195S61-N**

Subject to change

ROTARY SLIDE VALVE

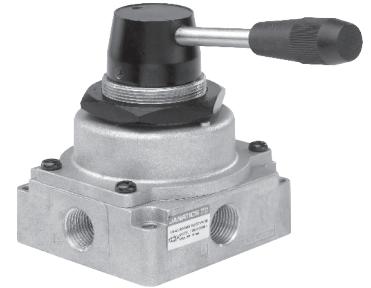
Series DR

Cat No DR - 01 - 02 - B

ROTARY SLIDE VALVE - G1/2

Features

- ❑ Easy handle movement and precise control of the direction
- ❑ Compact and lightweight design
- ❑ Handle position available in two types (Ref. Fig.1 & Fig.2)
- ❑ Both body mounting and Panel mounting is possible
- ❑ Good flow characteristics



Technical Specifications

Model	DR19	DR11
Port size	G1/2	
Medium	Compressed air filtered, lubricated	
Maximum working pressure	bar 10	
Recommended oil for lubrication	ISO VG32 (Servo system 32)	
Operating Angle	45° (Refer Fig.1&2)	
Ambient temperature	C	-10° to +60°
Medium temperature	C	+5° to +50°
Flow @ (1→2, 1→4)	lts/min 4000	
Materials of construction	Aluminium, Steel, Stainless Steel, Nitrile Rubber, Brass	
Weight	Kg 0.9	

@ - Inlet pressure 6 bar, and pressure drop 1 bar

Ordering no.	DR197S63-N & DR197S63-T	DR117S63-N & DR117S63-T
Type	4/3 - Hand Lever Operated (Mid-Position Blocked)	4/3 - Hand Lever Operated (Mid-Position Exhausted)
Symbol		

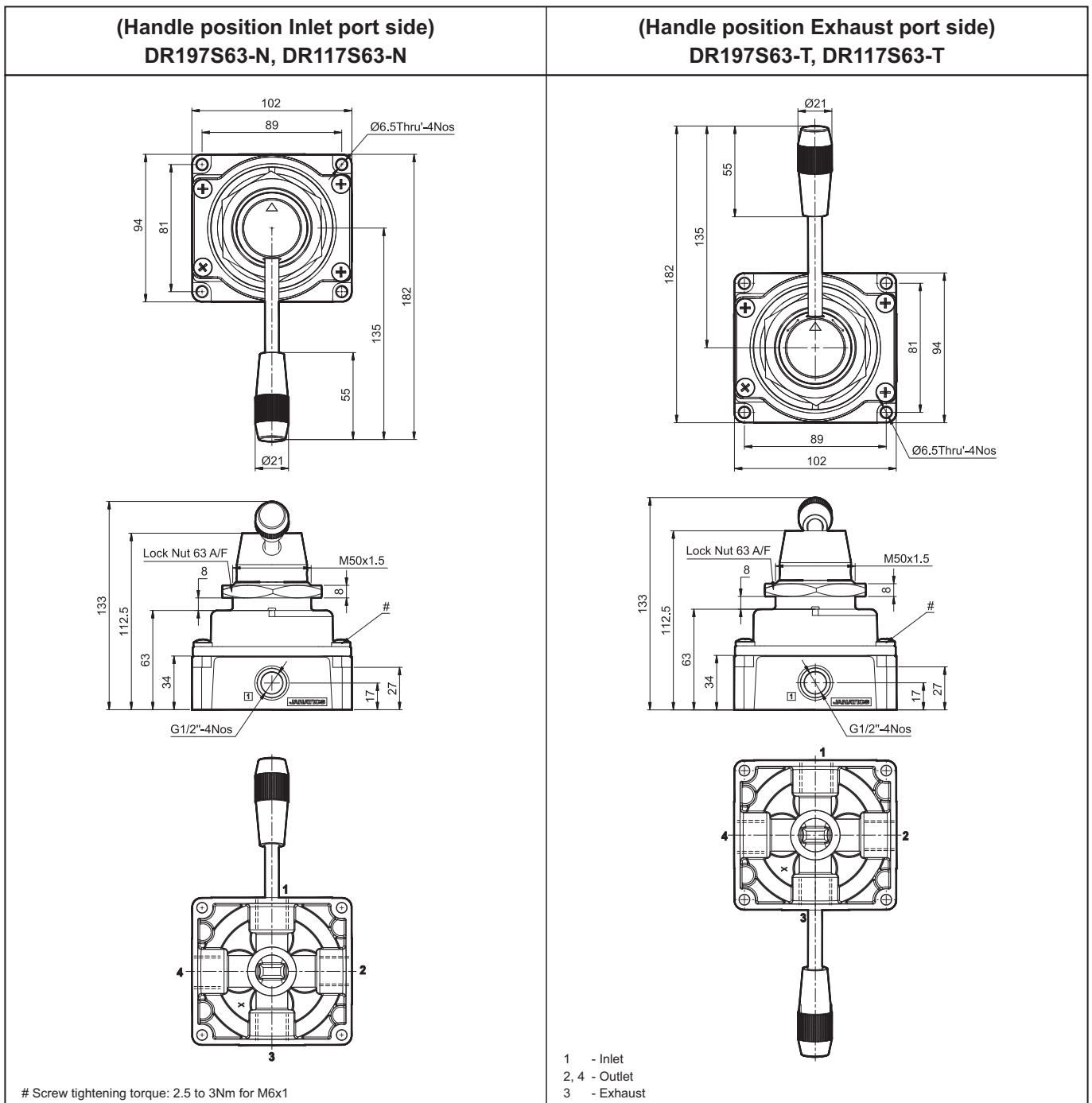
N - Handle position Inlet port side, T - Handle position Outlet port side

Handle operation angle and air flow direction		Panel cut dimension
<p>(Handle position Inlet port side) DR197S63-N, DR117S63-N</p> <p>1 - Inlet 2, 4 - Outlet 3 - Exhaust</p> <p>FIG. 1</p>	<p>(Handle position Exhaust port side) DR197S63-T, DR117S63-T</p> <p>1 - Inlet 2, 4 - Outlet 3 - Exhaust</p> <p>FIG. 2</p>	<p>Panel thickness = 7 to 8mm</p>

ROTARY SLIDE VALVE

Series DR

Cat No DR - 01 - 02 - B



Caution

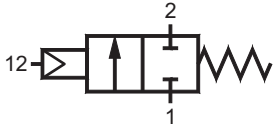
Operation method : The valve must be switched to each position instantly and securely. Stopping the handle midway between the extreme positions may cause malfunction

Switch only by hand : Switching the valve by using hammer or other tools or driving it mechanically through the cylinder could cause damage

Ordering Example

The ordering no for 4/3 Rotary slide valve - 1/2" (Handle position at inlet port side) - **DR197S63-N**

Subject to change



ANGLE SEAT VALVE

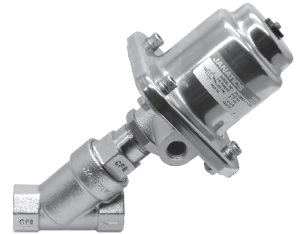
Series DY2

Cat No DY2 - 01 - 01 - C

ANGLE SEAT VALVE - G1/2, G3/4

Features

- ❑ Low pressure loss due to Angle seat structure
- ❑ Pilot air port position rotatable by 360°
- ❑ High flow
- ❑ Body material different versions - Brass, SS304 and SS316
- ❑ Visual indicator for actuating position



Function

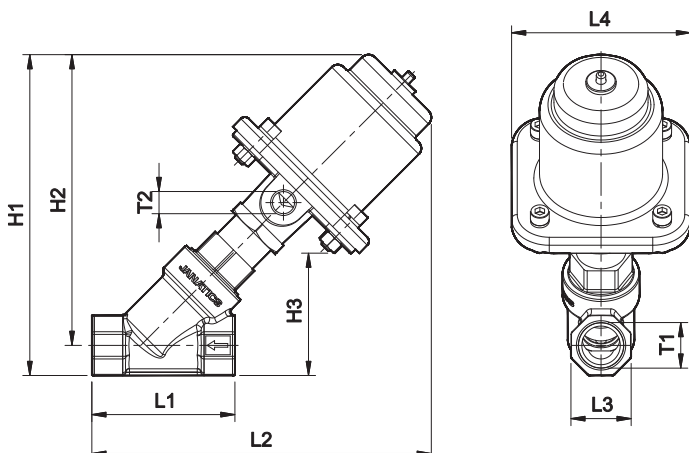
The Angle seat valve is a 2/2-way pneumatically actuated ON / OFF valve.

Technical Specifications

Model	DY2	
Type	2/2 Normally Closed	
Design	Poppet type	
Port size	Inlet, Outlet - G1/2, External pilot - G1/4	Inlet, Outlet - G3/4, External pilot - G1/4
Medium	Air, Water, Hot Water, Steam, Inert Gases (For any other Medium contact Head office)	
Orifice (NW)	16	
Working Pressure range	0 to 10 bar	0 to 16 bar
External pilot pressure	3 to 7 bar	
Recommended oil for lubrication	ISO VG32 (Servo system 32)	
Ambient temperature	NBR: -10° to +60° C FKM: -10° to +180° C	
Medium temperature	NBR: +5° to +50° C FKM: +5° to +150° C	
Flow @ (Air)	8000 lts/min	
Materials of construction	Housing	Brass, SS304, SS316
	Seals	Medium side: PTFE & Silicone External pilot side: NBR / FKM
	Other parts	Brass, Aluminium, SS304, PA6, PA66, Spring steel

@ - Inlet pressure 6 bar, and pressure drop 1 bar

2 / 2 Normally Closed - Angle Seat Valve



T1	T2	L1	L2	L3	L4	H1	H2	H3
G1/2	G1/4	76	185	32	95	175	160	65
G3/4				OCT				

ANGLE SEAT VALVE

Series DY2

Cat No DY2 - 01 - 01 - C

Application (Up to 60°C): Water, Air

How to order

DY2	1	1	2	3	2	63							
Seals		Body Material			Function	NW	Operating pressure	Port size					
1	- PTFE + NBR	O. No	Housing	Connector	Top cover	2	- 2/2 NC	3	- 16 NW	2	- 0 to 10 bar	63	G1/2
		1	SS304	SS304	SS304					3	- 0 to 16 bar	64	G3/4
		8	Brass	Brass	SS304								

Application: Steam, Hot Water, Oil, Inert Gases

How to order

DY2	2	1	2	3	2	63							
Seals		Body Material			Function	NW	Operating pressure	Port size					
2	- PTFE + FKM	O. No	Housing	Connector	Top cover	2	- 2/2 NC	3	- 16 NW	2	- 0 to 10 bar	63	G1/2
		1	SS304	SS304	SS304					3	- 0 to 16 bar	64	G3/4
		8	Brass	Brass	SS304								

Ordering example:

The ordering no. for G1/2, 2/2 NC with PTFE+NBR seals with Housing (SS304) + Connector (SS304) + Top cover (SS304) with 0 to 10 bar working pressure: **DY22123263**

Application: Food Industries

How to order

DY2	3	4	2	3	2	63							
Seals		Body Material			Function	NW	Operating pressure	Port size					
3	- PTFE + NBR	O. No	Housing	Connector	Top cover	2	- 2/2 NC	3	- 16 NW	2	- 0 to 10 bar	63	G1/2
4	- PTFE + FKM	4	SS316	SS316	SS304					3	- 0 to 16 bar	64	G3/4

Warning:

Before selecting the product, check whether it is compatible with the materials of each model by referring to the fluid listed in this catalogue. If there is something you do not know, please contact Janatics.

Safety Instructions

Compressed Air Safety



Following Safety instructions should be strictly followed. Failure to do so may result in accidents, equipment malfunctioning, serious personal injury and / or loss of life.

Compressed air is a source of considerable energy. When handling products dealing with compressed air, the following precautions must be taken to prevent accidents.

1. Human hands or any parts of a human body should not block compressed air. Compressed air should not be allowed to impinge on any portion of the human body.
2. Before connecting any pneumatic equipment to the compressed air supply, all mounted fittings, piping assemblies and electrical connections should be checked for security. All plastic plugs in the equipment used for protection during shipping should be removed.
3. No piping alterations, removal of fittings, repairing of equipment etc. should be attempted with air supplies connected. Air and electrical supplies must be disconnected before beginning any adjustment, maintenance or dismantling of equipment.
4. The maximum allowable operating pressures, temperature, flows etc. must be strictly observed. Failure to do so might result in catastrophic failure of equipment, and result in serious personal injury and / or death. Refer to individual catalogs for this information, and any other operating or application limitations.

Compressed Air Safety for Pneumatic Equipment :

Warning



1. Compatibility of pneumatic equipment

Ensuring the compatibility of the procured FRL equipment is the responsibility of the person who designs the Pneumatic system and / or System specifications. This should be based on specifications or after analysis and / or tests to meet specific requirements.

2. Repair & Maintenance

Assembly, handling, or repair of pneumatic systems should be performed by only trained and experienced operators.

3. Safety First

Do not service machinery / equipment or attempt to remove any component until safety is confirmed.

- Inspection and maintenance of machinery / equipment should only be performed after confirmation that both compressed air and electrical supply have been positively disconnected and all residual compressed air in the system has been completely exhausted to the atmosphere.

4. Contact Janatics if equipment is to be used in any of the following conditions :

1. Equipment is to be used in conditions beyond the given specifications, or if equipment is to be used outdoors.
2. Equipment is to be used in conjunction with atomic energy, railroad, air navigation, automobiles or related vehicles, medical equipment or safety equipment.
3. In applications that adversely effect humans, animals, or property requiring special safety analysis.

Product Selection

Warning



Standard Filters, Regulators, Lubricators and Filter- Regulator Combination units should be used in accordance with the specifications mentioned in the catalogs / specification sheets. While installing and using this equipment, please also follow the respective specification & instruction manual available for each product.



Wherever this symbol is shown, it indicates **Caution!** and / or **Warning!**

It indicates that operator error can lead to damage and malfunctioning of the pneumatic equipment and can lead to serious personal injury or loss of life.

1. Air Filter and Lubricator

Standard Filters and Lubricators incorporate polycarbonate bowls and / or observation windows. Do not use filters & lubricators in an environment that will expose the above components to synthetic fluids, organic solvents, corrosive chemicals, cutting lubricants, thread sealant or similar materials.

Make sure that the condensate is periodically drained when using manual drain valves on Filters.

2. Regulator

- a. Safety devices shall be placed to prevent secondary (output) pressure from rising past the set pressure. This will ensure that damage to the components on the secondary side will be minimized in the event of a malfunction.
- b. In a standard regulator, when the supply pressure is removed or disconnected, either of the following may happen :
 1. The residual pressure will remain on the secondary side of the regulator.
 2. The pressure on the secondary side of the regulator will exhaust.

The designer should add components to the circuit to compensate for any of the above conditions.

- c. Regulator operation may be affected when used in Balanced or Secondary sealed circuits. Please consult Janatics regarding these applications.

3. Lubricators

Ensure proper function of the Lubricator. Minimum airflow rate should be ensured for effective lubrication.

4. Automatic Drains - Normally Open

Ensure minimum working pressure for proper functioning of the Auto drain. The Filter unit must be periodically checked for condensate that would not be drained in case of any drain malfunction.

Compressed Air Safety - Valves

1. Check security of fittings, pipes, valve installation and electrical connections before use.
2. All electrical connections are to be completed by a person qualified to undertake electrical work.
3. Ensure that all air supplies and electrical connections are isolated before dismantling valves from sub plates, or removing fittings, cables or solenoids from valves
4. During prolonged or frequent energisation, valve solenoids can become hot. Ensure that this will not affect surrounding material and components, and that adequate ventilation is provided.
5. The spool and sleeve assemblies of metal seal valves incorporate sharp edges. Protective gloves should be worn for dismantling and maintenance operations.
6. When selecting valves for applications, the design method of actuation and fundamental operating principles of differing valve models and ranges must be considered.
7. Machinery designated as Annex 4 by the EC Directive of Machinery, Which includes pneumatically controlled power presses, have special requirements for control valves and preclude the use of other than specialized equipment.

Warranty

Janatics products are warranted to be free of defects in design, material or workmanship under proper use, installation, application & maintenance in accordance with Janatics written specifications and Safety Instructions for a period of 12 months from the date of shipment from the factory. Janatics warrants that all the Products are suitable for their intended purposes only. Janatics obligation under this warranty is limited to repair or replacement of the product at the discretion of Janatics and provided such product is returned to Janatics freight prepaid and upon examination by Janatics such is found to be defective.

This is the only authorised Janatics Warranty and is in Lieu of all other expressed or implied warranties or representation including any implied warranties of merchantability or fitness or any other obligations on the part of Janatics

In no event will Janatics be liable for business interruptions, loss of profits, personal injury, cost of delay or for any other special indirect, incidental or consequential losses, cost or damages.

Not covered under Janatics warranty :

- Normal wear or deterioration of components and product
- Product(s) not used or installed as designed or intended
- Product is not installed or maintained as described and directed in the product installation and operations manual
- Product contains non-original OEM parts, or was previously repaired or serviced by an unauthorised distributor or repair facility

General: Due to continuous product improvement, all specifications are subject to change.

Instructions for Product Disposal & End of Life treatment

Ordinary industrial waste (recyclable and non-recyclable) is generated by industrial or commercial activities, but is similar to household waste by its nature and composition. It is not toxic or hazardous and thus requires no special treatment. These non-hazardous wastes can be either recycled & reused or treated & disposed, safeguarding the environment, in compliance with the statutory and regulatory requirements for quality, environment and Occupational Health & Safety (OHS).

Internally every Janatics personal is well informed on disposal categorization of components through the Bill of materials.

Disposal method :

The main parts of the Janatics product are metals & can be recycled to preserve natural resources and energy.

1. Dismantle the product and detach each component separately and dispose according to the legislation of the country
2. Generally all metals such as Steel, Aluminum, Copper and its Alloys, and Precious metals can be recycled again as raw materials according to local regulations.
3. Also some plastics like PET, HDPE, PVC, PA, PoM, & packing materials like PU foam & PE film can be recycled with the aid of local regulations.
4. Other plastics like PP and LDPE are difficult to recycle which requires special processes to avoid adverse environmental impact.
5. Rubber parts can be disposed by land fill or incineration following international and national regulations
6. Electrical & Electronic components like Printed circuit boards and reed switches need selective treatment and IEC 62635 guidelines can be referred.
7. To aid recycling and disposal approach deposition either by own or through the authorized agency to sustain the environment.
8. Remove all organic coatings, paint, and lacquered scrap by thermal decoating treatment prior to melting so as to avoid gaseous emissions and decomposition.
9. Follow national & international regulations for End of Life treatment of all components and consumables.

