

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

COMPACT VALVE - G1/8

Features

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

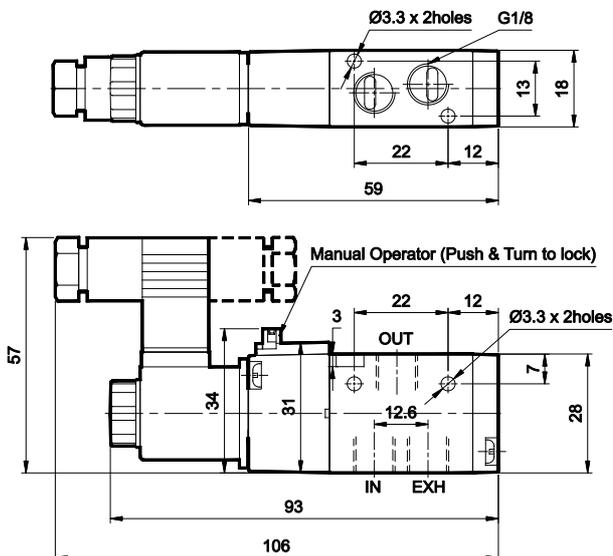


Technical Specifications

| | |
|------------------------------------|--|
| Model | DS2 |
| Type | 3/2, 5/2, 5/3 |
| Design | Spool type |
| Port Size | Inlet, Outlet, Exhaust - G1/8, External pilot - M5 |
| Medium | Compressed air - Dry, filtered, lubricated |
| Working Pressure range | 2 - 8 bar |
| External pilot pressure (ER model) | 2 - 4 bar |
| Recommended oil for lubrication | ISO VG32 (Servo system 32) |
| Ambient / Medium temperature | 5° - 60° C |
| Flow [®] | 450 lts/min |
| Materials of construction | Aluminium, Nitrile, Brass, Acetal, PBT, Zinc |
| 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 | | |

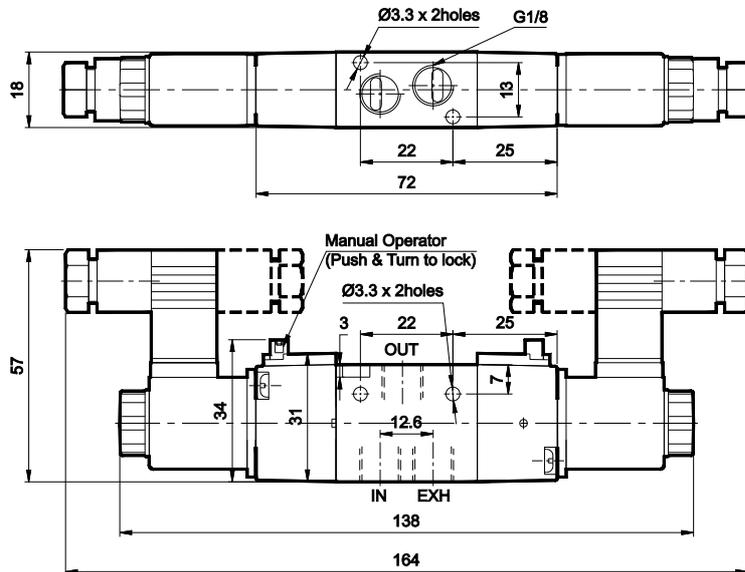
* For ordering No, voltage to be added. Refer page no. 2.3.9

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

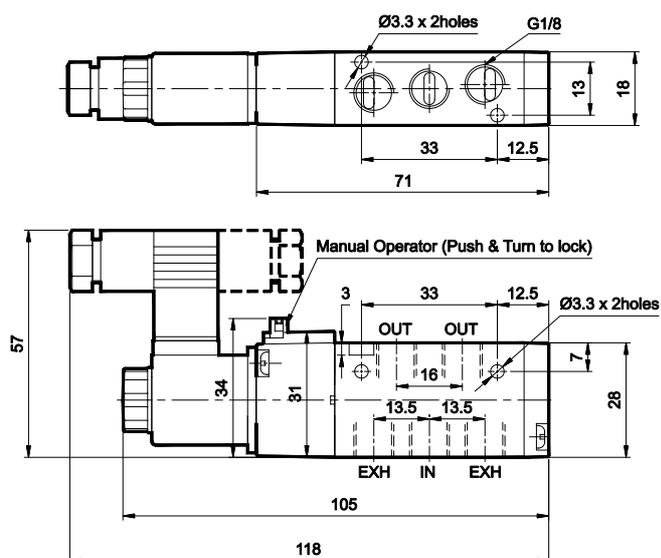
3 / 2 Double solenoid pilot operated valve



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 | |

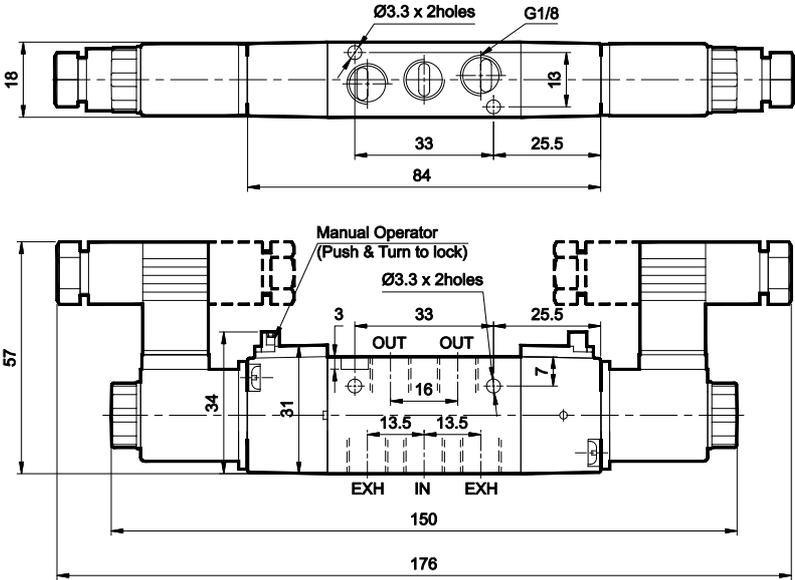
* For ordering No, voltage to be added. Refer page no. 2.3.9

COMPACT VALVE - 1/8

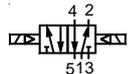
Series DS2

Cat No DS2 - 01 - 07

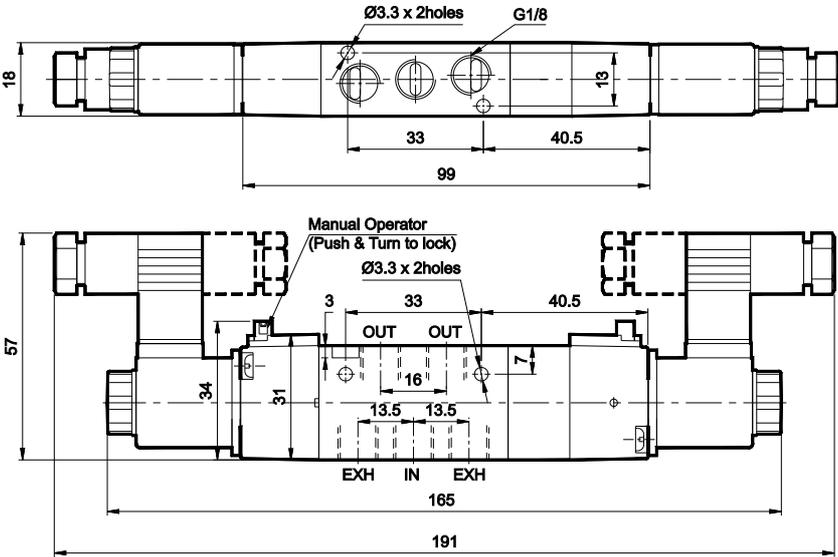
5 / 2 Double solenoid pilot operated valve



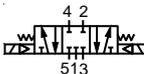
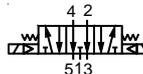
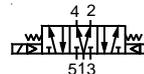
1 - Inlet, 2,4 - Outlet, 3,5 - Exhaust

| | |
|--------------|---|
| 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 |  |  |  |

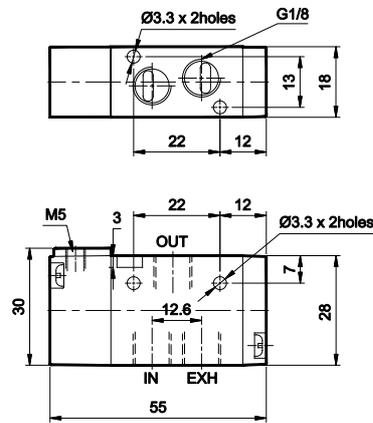
* For ordering No, voltage to be added. Refer page no. 2.3.9

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

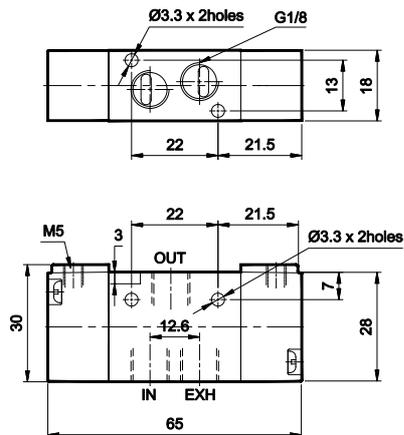
3 / 2 Single External pilot operated valve with spring return



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

| Ordering No | DS234ER60 | DS244ER60 |
|-------------|---------------|-----------------|
| Type | Normally open | Normally closed |
| Symbol | | |

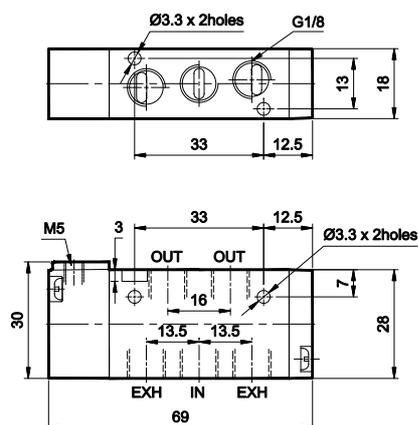
3 / 2 Double External pilot operated valve



1 - Inlet, 2 - Outlet, 3 - Exhaust 14,12 - 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

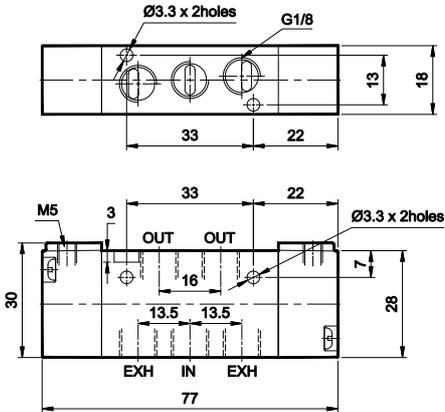
| Ordering No | DS254ER60 |
|-------------|-----------|
| Symbol | |

COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

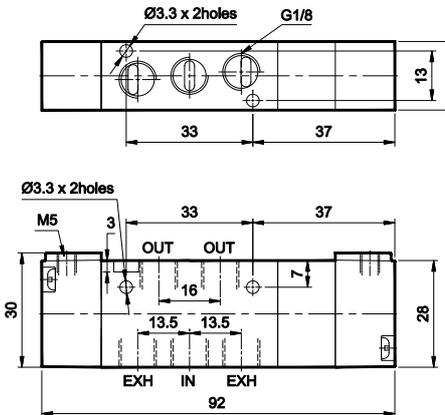
5 / 2 Double External pilot operated valve



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 | | | |

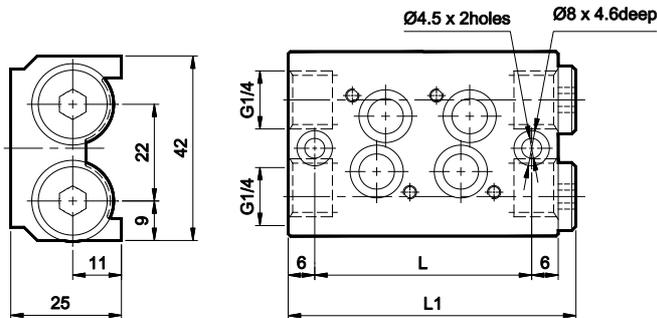
COMPACT VALVE - 1/8

Series DS2

Cat No DS2 - 01 - 07

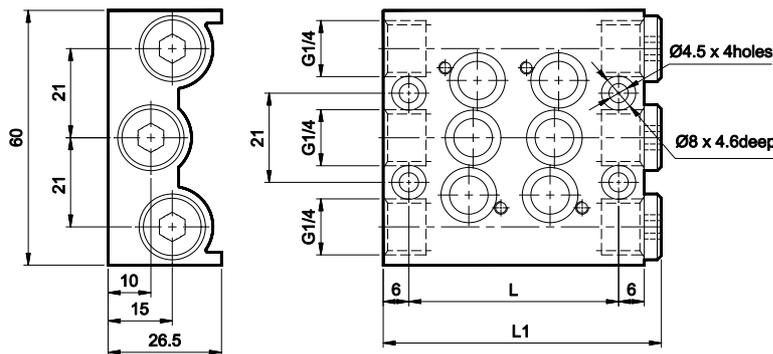
MANIFOLDS FOR COMPACT VALVE

Manifold - Type M051 (for 3/2 valves)



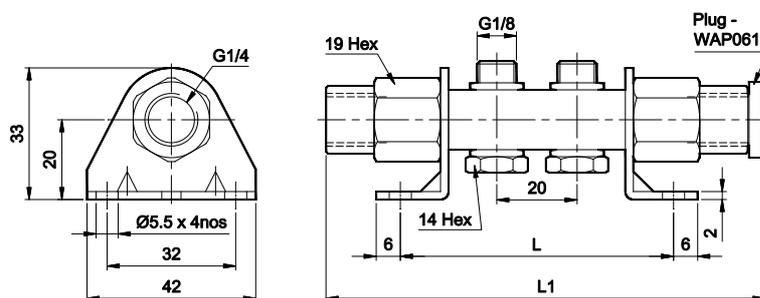
| For mounting | L | L1 | Ordering no |
|--------------|-----|-----|-------------|
| 2 valves | 49 | 65 | M0510102 |
| 4 valves | 87 | 103 | M0510104 |
| 6 valves | 125 | 141 | M0510106 |
| 8 valves | 163 | 179 | M0510108 |

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 |

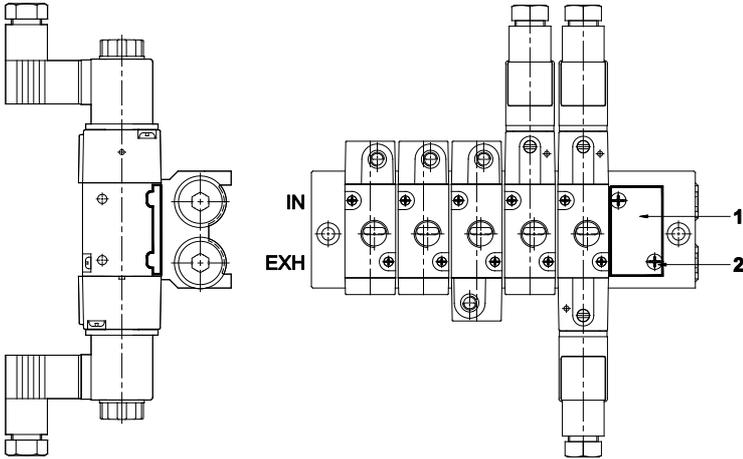
Note : While mounting compact valves in M004 type manifold, use only AS0160 silencers

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Cat No DS2 - 01 - 07

ACCESSORIES FOR COMPACT VALVE

Cover plate assembly for Manifold Type M051

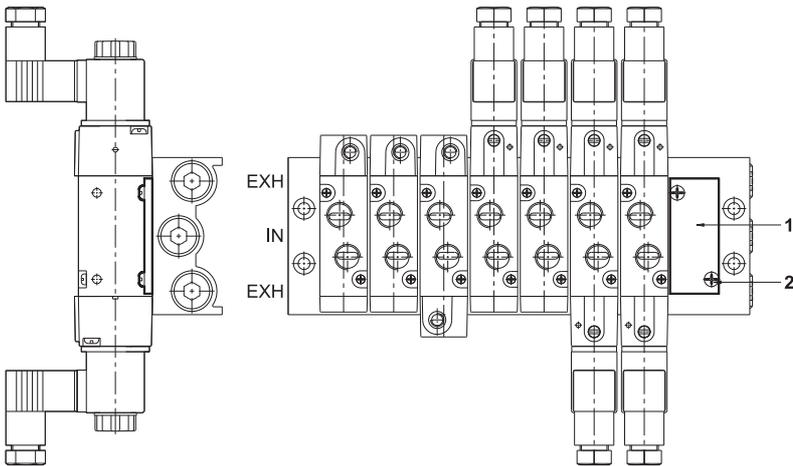


| SL NO | Item | Qty | Ordering No |
|-------|--------------|-----|-------------|
| 1 | Cover plate | 1 | A4C07 |
| 2 | Screw - M3x8 | 2 | |

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:

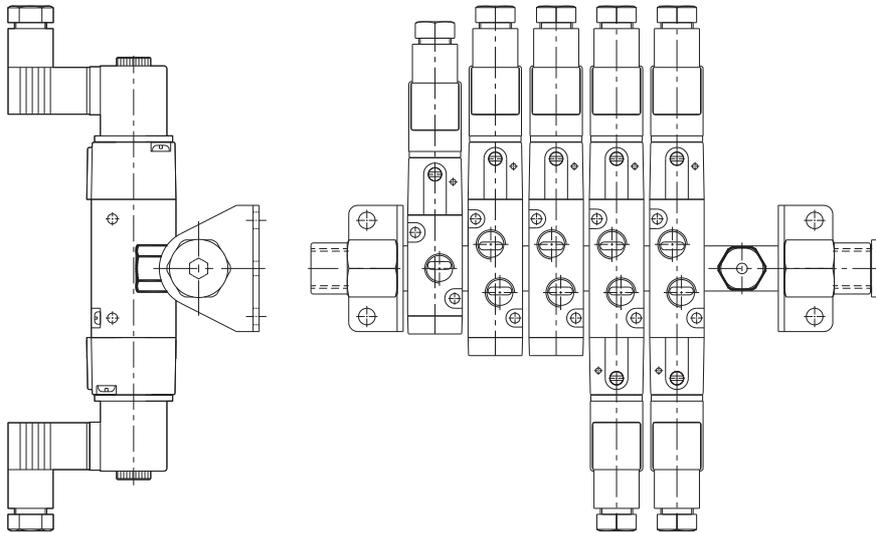
The cover plate assembly can be used to plug the unutilised position in a manifold. For eg., if it is required to mount only 7 valves on manifold no. M0030108, the eighth position can be plugged and made dummy using a cover plate assembly. (refer picture above)

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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)

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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

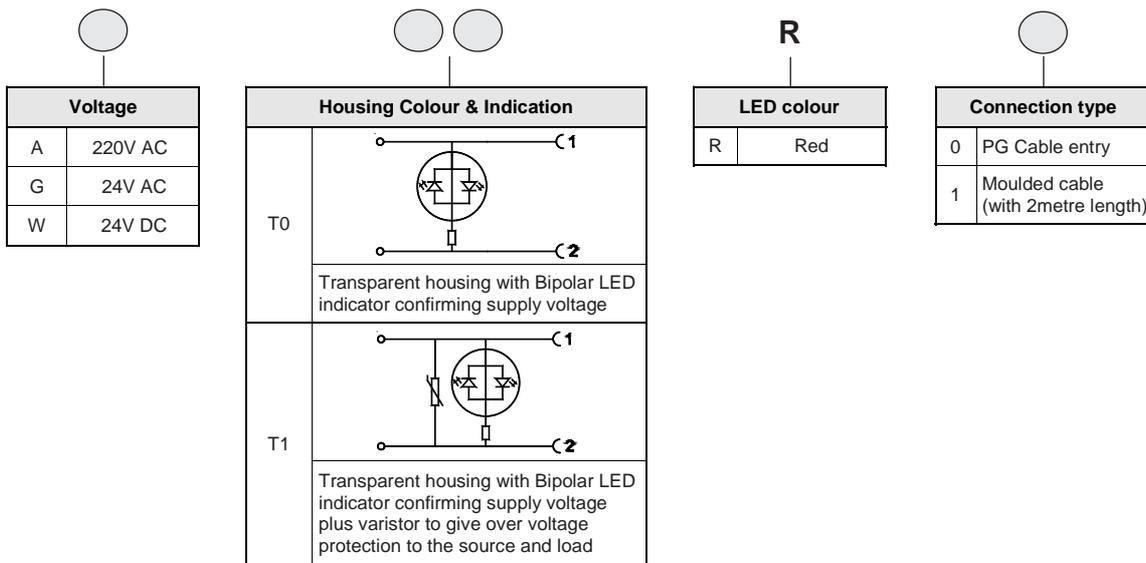
| | | | |
|---|---------|---|---------|
| A | 220V AC | Q | 110V DC |
| B | 110V AC | S | 48V DC |
| D | 48V AC | W | 24V DC |
| G | 24V AC | R | 12V DC |

Example

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



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 |
| 220 | AC34A | - NA - |
| 110 | AC34B | DC36Q |
| 48 | AC34D | DC36S |
| 24 | AC34G | DC36W |
| 12 | - NA - | DC36R |