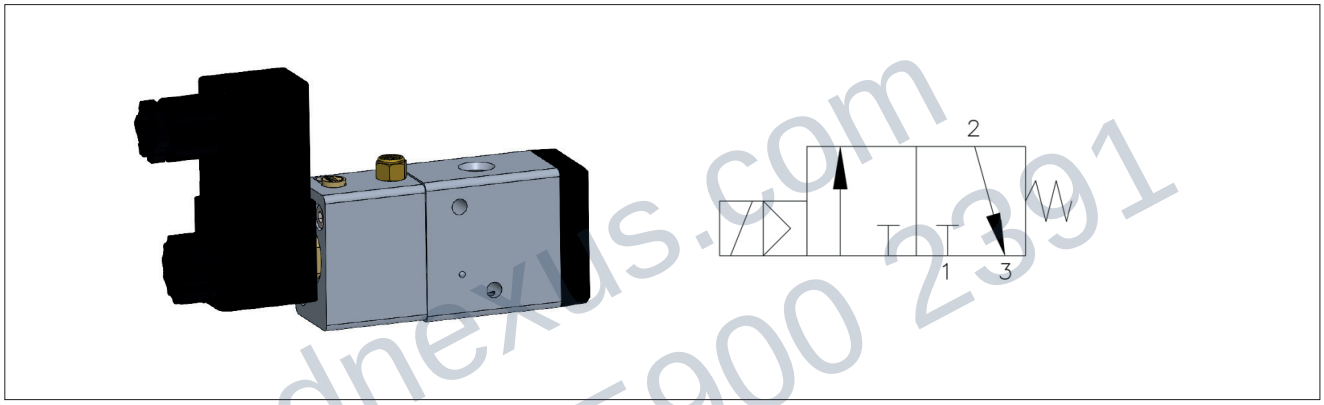
Neles Easyflow™ solenoid valves
Series DSQ and VSQ version 2

3/2 way spool type solenoid calve - single coil

Model No: DSQ113 / DSQ213



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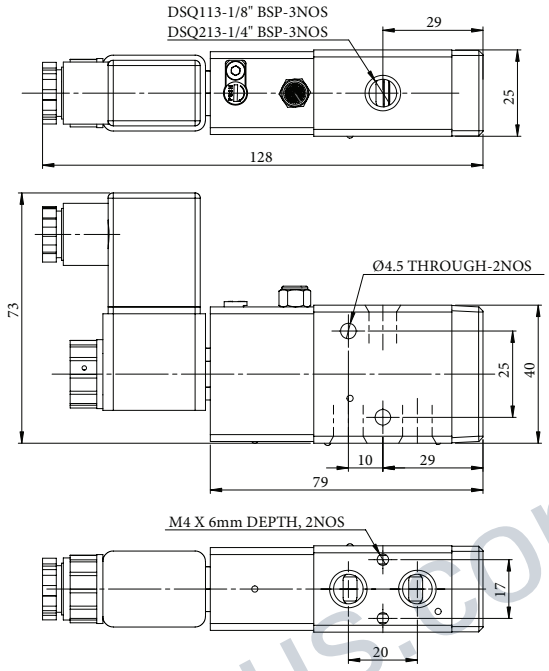
Features

- Mounts in any position
- Solenoid capable of turning 360°
- Solenoid continuous duty rated
- Noiseless performance
- Available in BSP & NPT port thread type
- IP Certified valves
- Exd certified coil
- Exia certified Coil

Technical specification

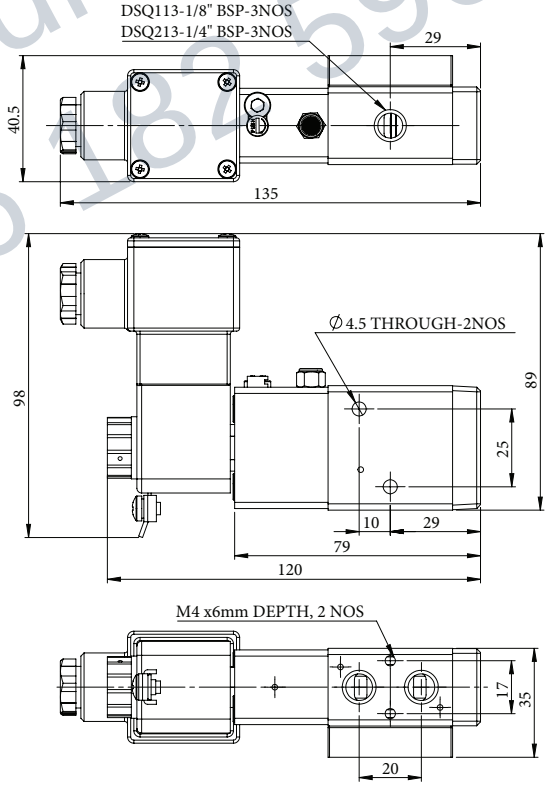
Model	DSQ113	DSQ213
Type	3/2-way spool design, single coil, spring return direction control valve	
Media	Compressed air, 25 µm, Filtered, lubricated or unlubricated	
Mounting	Through holes in housing, also suitable for mounting on manifold	
Orifice (mm)	3	4.5
Flow factor (kv) (L / min)	4	7
Port size	1/8”	1/4"
Operating pressure range (bar)	2-10	
Temperature range (°C)	-20 to 80	
Response time at 5 bar	On time 20 ms, Off time 22 ms	
Manual override type	Screw driver type	
Operating voltage	AC : 110, 220 (50Hz)	
DC : 12, 24, 48	NBR	
Duty cycle	Continuous	
Coil insulation class	F	
Valve body MOC	Aluminium	
Seals MOC	NBR	
Coil	Exproof(Exd) / Weatherproof(IP) / Exproof (Exia)	
Coil temperature range	-10 to 50 °C	
Valve body temperature range	-10 to 70 °C	

Dimensional drawings with symbol



DSQ213

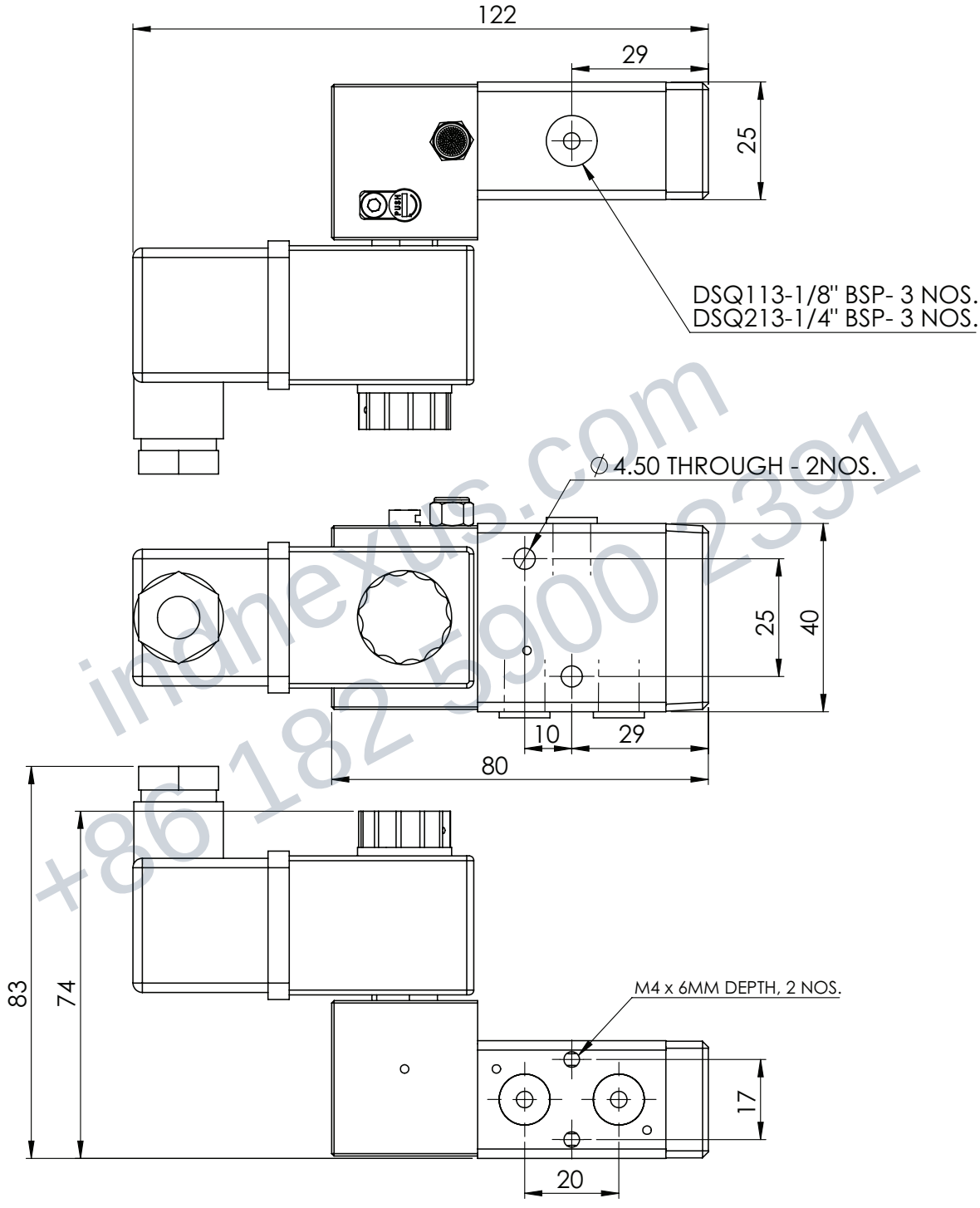
Dimension drawings with Exd coils



DSQ213_113

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Dimension drawings with Exia Nass Magnet Coils

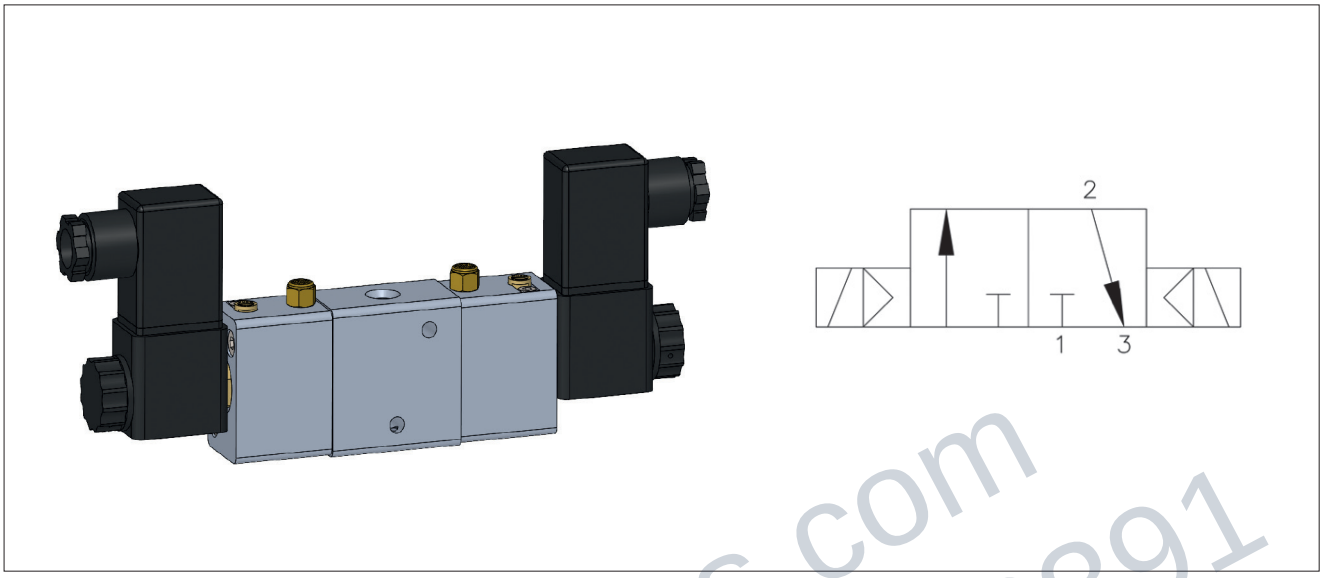


DSQ 113/213 Series With Exia Nass Magnet Coil

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3/2 spool type solenoid valve - double coil

Model No: DSQ114 / DSQ214



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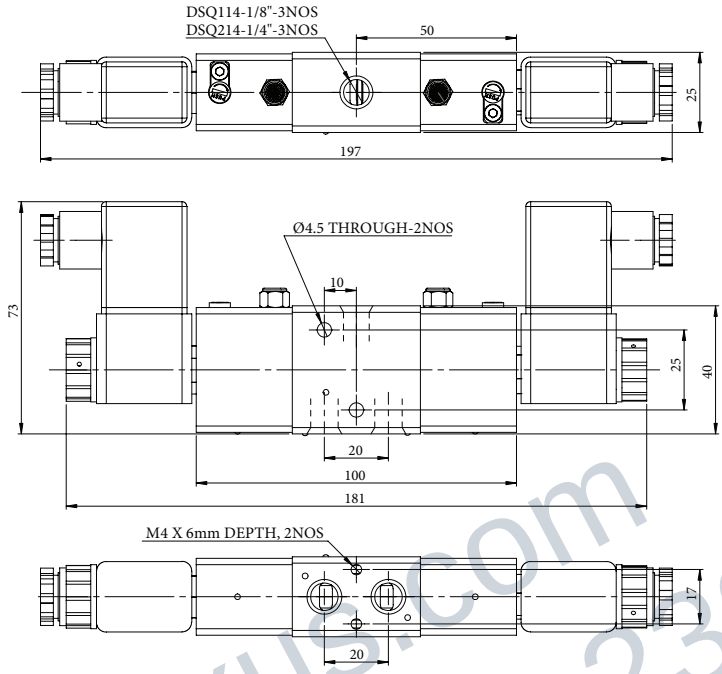
Features

- Mounts in any position
- Solenoid capable of turning 360°
- Solenoid continuous duty rated
- Noiseless performance
- Available in BSP & NPT port thread type
- IP certified valves
- Exd certified coils
- Exia certified Coil

Technical specification

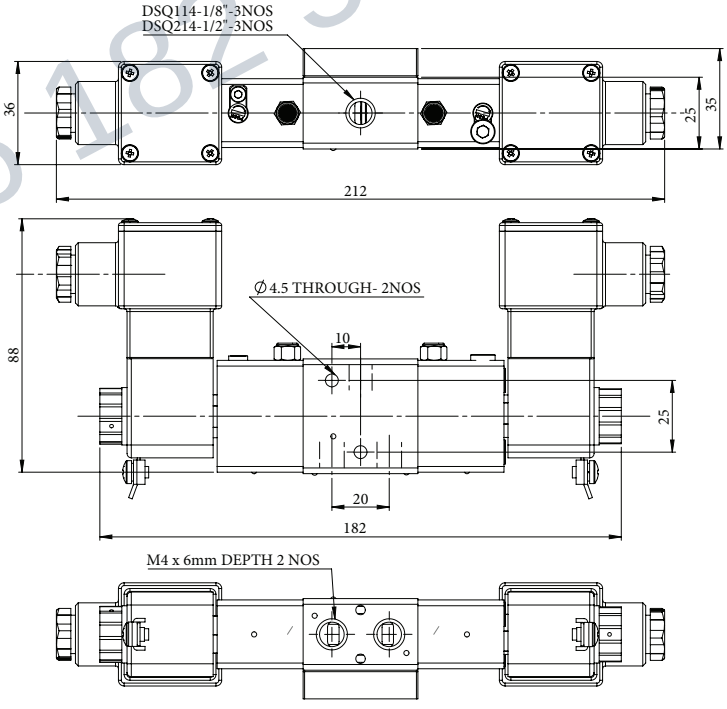
Model	DSQ114	DSQ214
Type	3/2 way spool design, Double coil, direction control valve	
Media	Compressed air, 25 µm, Filtered, lubricated or unlubricated	
Mounting	Through holes in housing, also suitable for mounting on manifold	
Orifice (mm)	3	4.5
Flow factor (kv) (L / min)	4	7
Port size	1/8”	1/4"
Operating pressure range (bar)	2-10	
Temperature range (°C)	-20 to 80	
Response time at 5 bar	On time 20 ms, Off time 22 ms	
Manual override type	Screw driver type	
Operating voltage	AC : 110, 220 (50Hz)	
DC : 12, 24, 48	NBR	
Duty cycle	Continuous	
Coil insulation class	F	
Valve body MOC	Aluminium	
Seals MOC	NBR	
Coil	Exproof(Exd) / Weatherproof(IP) / Exproof (Exia)	
Coil temperature range	-10 to 50 °C	
Valve body temperature range	-10 to 70 °C	

Dimensional drawings with symbol



DSQ114 and DSQ214

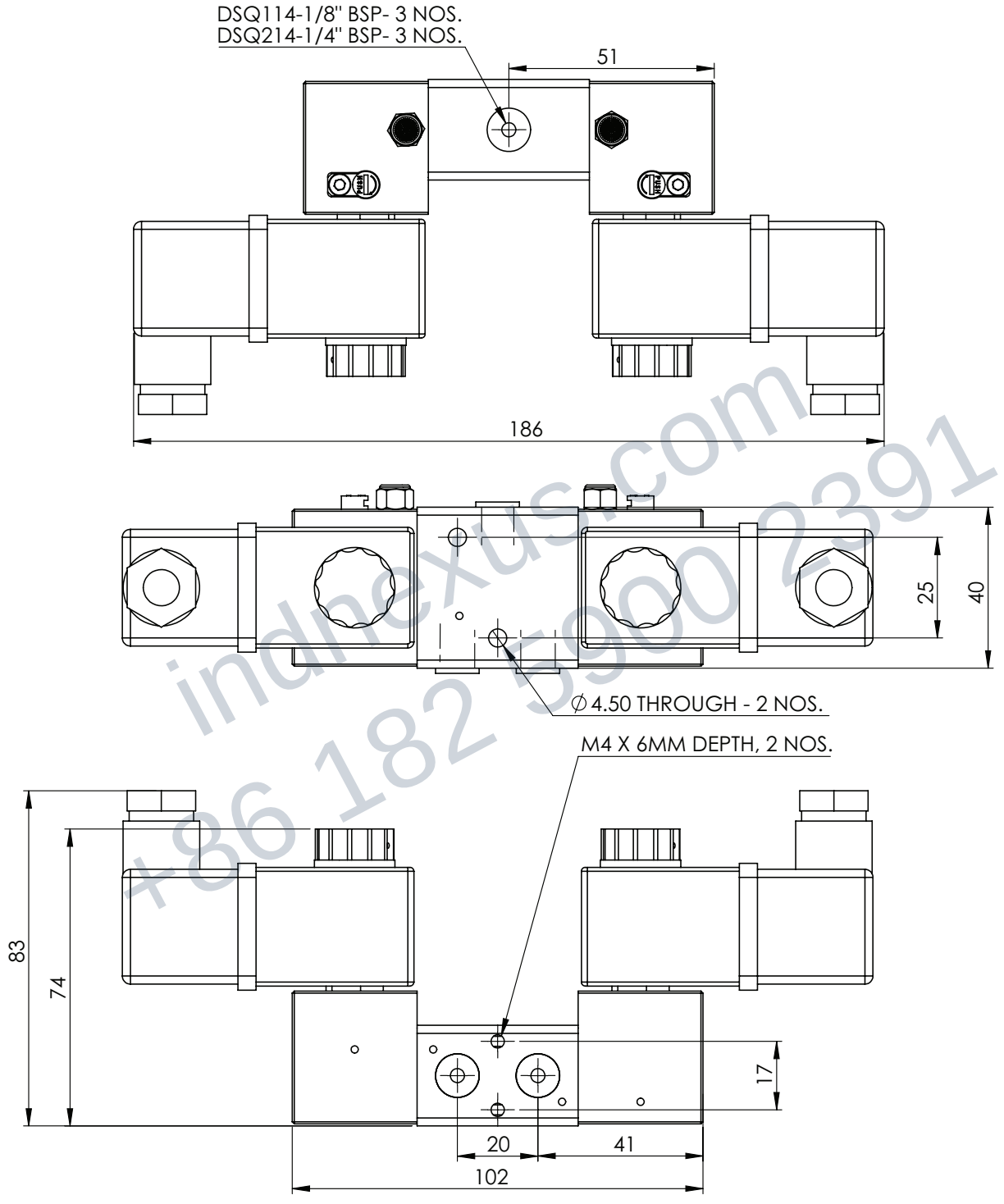
Dimension drawings with Exd Coils



DSQ114 and DSQ214

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Dimension drawings with Exia Nass Magnet Coils

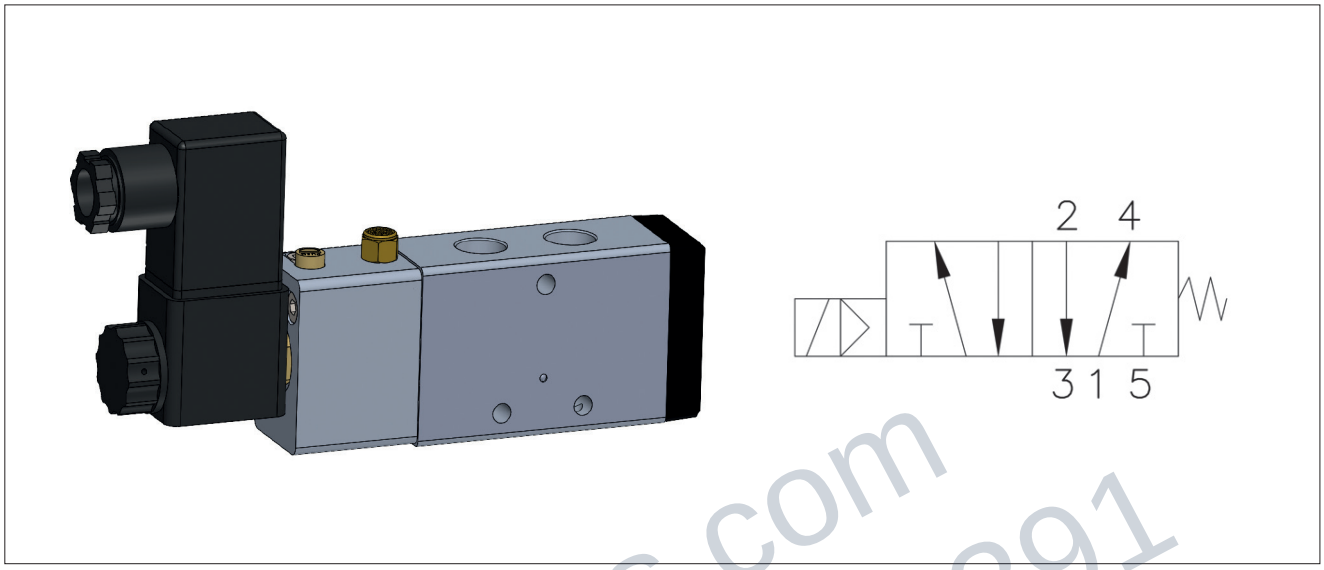


DSQ 114/214 Series With Exia Nass Magnet Coil

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5/2 spool type solenoid valve - single coil

Model No: VSQ113 / VSQ213



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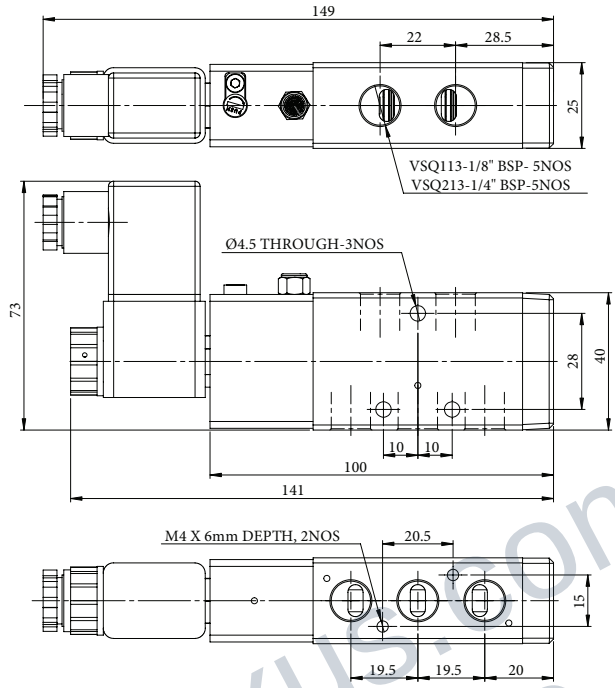
Features

- Mounts in any position
- Solenoid capable of turning 360°
- Solenoid continuous duty rated
- Noiseless performance
- Available in BSP & NPT port thread type
- IP certified valves
- Exd certified coils
- Exia certified Coil

Technical specification

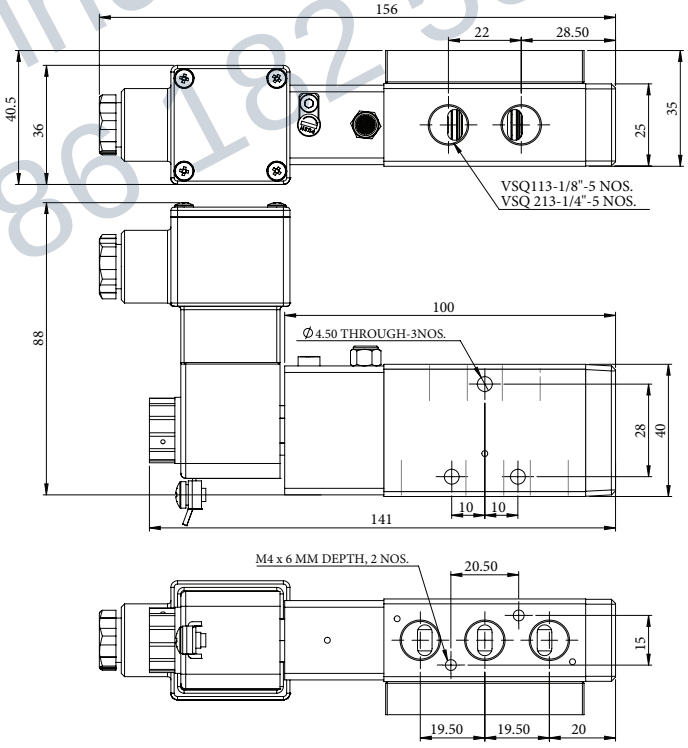
Model	VSQ113	VSQ213
Type	5/2-way spool design, single coil, spring return direction control valve	
Media	Compressed air, 25 µm, Filtered, lubricated or unlubricated	
Mounting	Through holes in housing, also suitable for mounting on manifold	
Orifice (mm)	3	4.5
Flow Factor (kv) (L / min)	4	7
Port size	1/8”	1/4"
Operating pressure range (bar)	2-10	
Temperature range (°C)	-20 to 80	
Response time at 5 bar	On time 20 ms, Off time 22 ms	
Manual override type	Screw driver type	
Operating voltage	AC : 110, 220 (50Hz)	
DC : 12, 24, 48	NBR	
Duty cycle	Continuous	
Coil insulation class	F	
Valve body MOC	Aluminium	
Seals MOC	NBR	
Coil	Exproof(Exd) / Weatherproof(IP) / Exproof (Exia)	
Coil temperature range	-10 to 50 °C	
Valve body temperature range	-10 to 70 °C	

Dimensional drawings with symbol



VSQ213

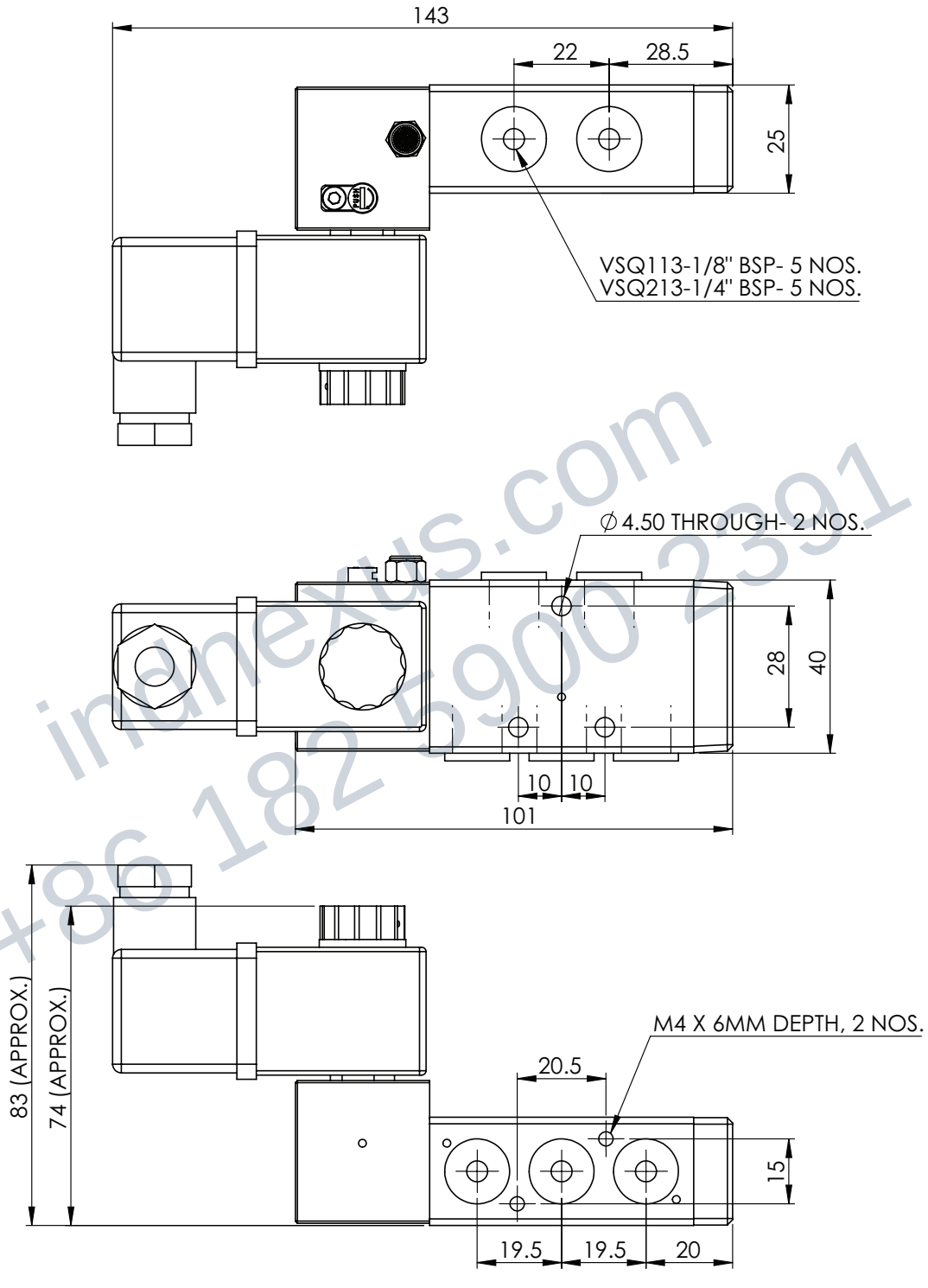
Dimension drawings with Exd coils



VSQ213

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Dimension drawings with Exia Nass Magnet Coils

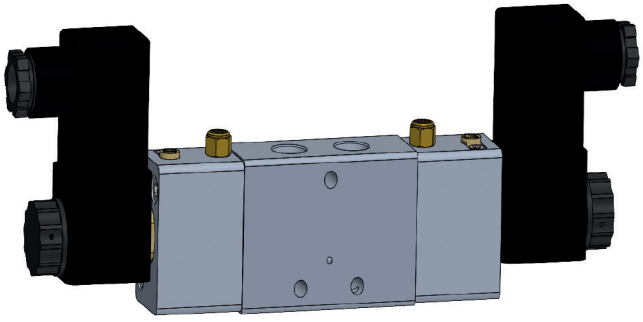


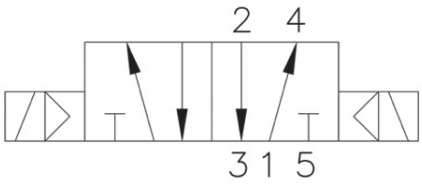
VSQ 113/213 SERIES

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5/2 spool type solenoid valve - double coil

Model No: VSQ114 / VSQ214





Features

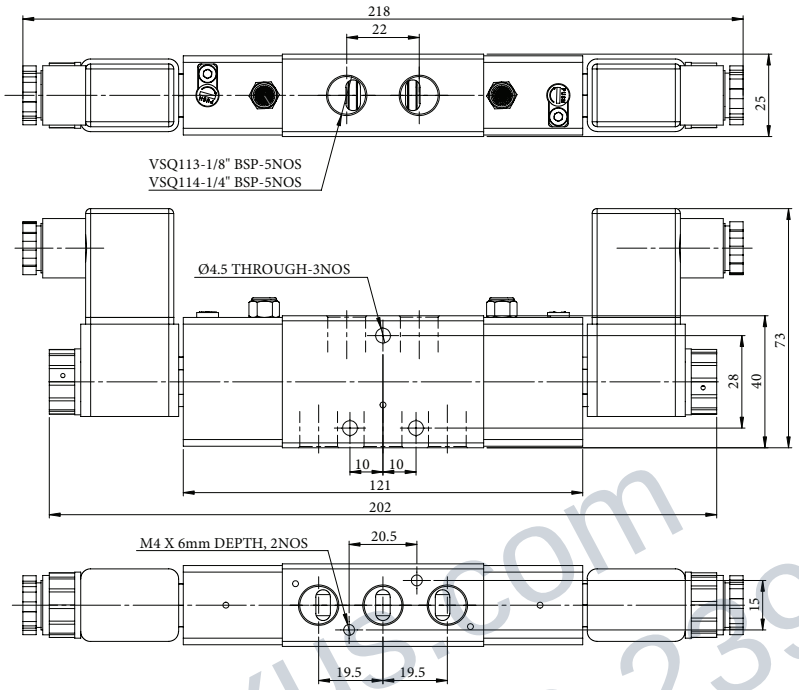
- Mounts in any position
- Solenoid capable of turning 360°
- Solenoid continuous duty rated
- Noiseless performance
- Available in BSP & NPT port thread type
- IP certified valves
- Exd certified coils
- Exia certified Coil

Technical specification

Model	VSQ114	VSQ214
Type	5/2 way spool design, Double coil, direction control valve	
Media	Compressed air, 25 µm, Filtered, lubricated or unlubricated	
Mounting	Through holes in housing, also suitable for mounting on manifold	
Orifice (mm)	3	4.5
Flow factor (kv) (L / min)	4	7
Port size	1/8”	1/4"
Operating pressure range (bar)	2-10	
Temperature range (°C)	-20 to 80	
Response time at 5 bar	On time 20 ms, Off time 22 ms	
Manual override type	Screw driver type	
Operating voltage	AC : 110, 220 (50Hz)	
DC : 12, 24, 48	NBR	
Duty cycle	Continuous	
Coil insulation class	F	
Valve body MOC	Aluminium	
Seals MOC	NBR	
Coil	Exproof(Exd) / Weatherproof(IP) / Exproof (Exia)	
Coil temperature range	-10 to 50 °C	
Valve body temperature range	-10 to 70 °C	

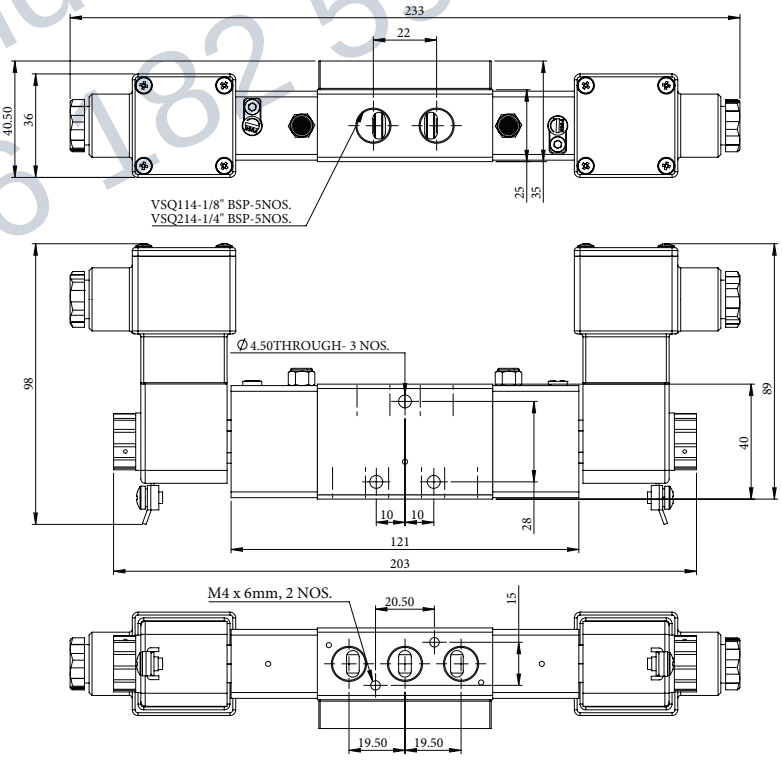
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Dimensional drawings with symbol



VSQ214

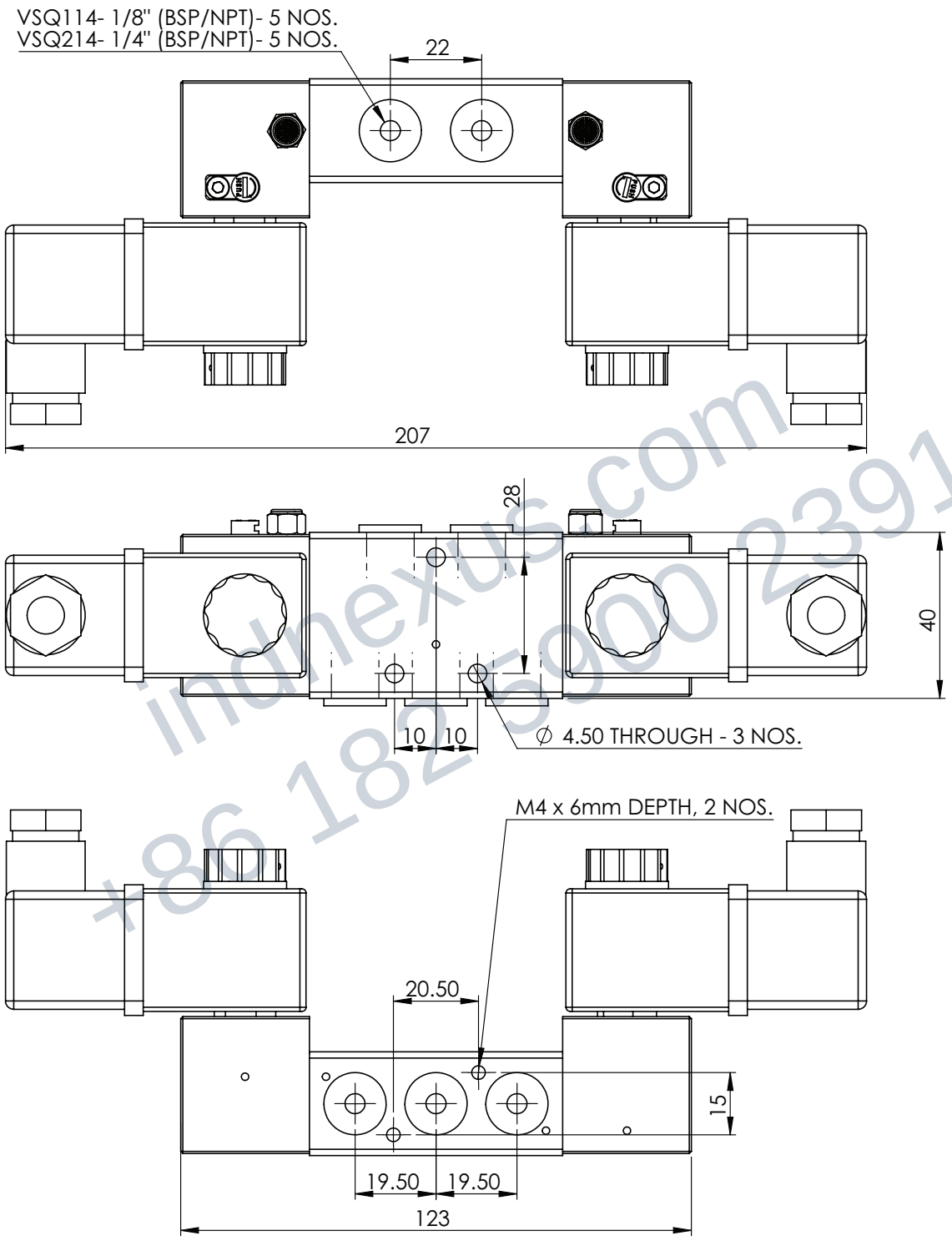
Dimension drawings with Exd coils



VSQ 214

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Dimension drawings with Exia Nass Magnet Coils



VSQ 114/214 SERIES

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Type code

Valve type	Code	Port size	Code	Operator	Code	Port thread type	Code	Coil voltage
3/2 way	DSQ	1/8"	1	Single coil solenoid valve	13	BSP	G	12, 24, 48 VDC 220 VAC-50 Hz 110 VAC-50Hz
		1/4"	2	Double coil solenoid valve	14	NPT	R	
5/2 way	VSQ	1/8"	1	Single coil solenoid valve	13	BSP	G	12, 24, 48 VDC 220 VAC-50 Hz 110 VAC-50Hz
		1/4"	2	Double coil solenoid valve	14	NPT	R	

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HOW TO ORDER NEED TO BE UPDATED ACCORDING TO NEW S389
How to order

1.	2.	3.	4.	5.	6.	7.	8.	9.
DSQ	2	13	G	0	0	01D0	P1	NN

1.	Valve type
DSQ	3/2 way
VSQ	5/2 way

2.	Port size
1	1/8”
2	1/4”

3.	Operator
13	Single coil
14	Double coil

4.	Port connection
G	BSP
R	NPT

5.	Body and spool material
0	Aluminium
1	SS316

6.	Seals
0	NBR
1	VITON

7.	Coil voltage
01D0	12VDC
02D0	24VDC
03D0	48VDC
04D0	110VDC
05D0	220VDC
01A0	24VAC
02A0	48VAC
03A0	110VAC
04A0	220VAC
11AL	110VAC-LED
12AL	220VAC-LED
13AL	24VAC-LED
11DL	24VDC-LED

8.	Protection
P1	IP66/67
P2	IP65 Only applicable with sign 9 EXI

9.	Certification
NN	NILL
EN	Exd certification for coils - only applicable with sign 7. (12, 24, 48VDC), (24, 48, 110, 220, 230VAC) – only sing 8. IP 66 applicable, only applicable with 6. sign NBR
EXI	Exia CERTIFICATION FOR COIL (WITH 24 VDC)- Only applicable with sign 8 P2 , Only applicable with 6 sign NBR and not Applicable with Sign 3 5/3 Way valves 15-55-75

ORDERING EXAMPLE:

1. DSQ-2-13-G-0-0-01D0-P1-NN.This is a 3/2 position single coil solenoid valve with port size of 1/4” BSP Connection with Aluminium body having NBR seal and coil voltage of 12VDC,IP Certified valve
2. VSQ-2-13-G-0-0-01D0-P1-NN.This is a 5/2 position single coil solenoid valve with port size of 1/4” BSP Connection with Aluminium body having NBR seal and coil voltage of 12VDC,IP Certified valve

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Dombivli East, Maharashtra 421204
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