



Keeping the World Flowing
for Future Generations

RNSV, RPSV range

3/2, 5/2 or 5/3 spool solenoid valves

Compact, robust and reliable solenoid operated valves delivering value for money in an efficient modern design.

Two types of connection interfaces are offered:

- RNSV range NAMUR interface: Mate to NAMUR mounting surface of actuators that comply with the VDI/VDE 3845 standard for installation and use. The 3/2 function is suitable for single-acting actuators, and the 5/2 or 5/3 function is for double-acting actuators. Rotork offers adapter plates to easily convert a 5/2 function solenoid valve to a 3/2 function solenoid valve.
- RPSV range thread port: All ports are threaded ports for pipe connections. Thread size 1/4" or 1/2" for direct connection to piping in the system or valve.

Features

- Ideal for in-line system service and repair
- Manual override
- Dual coil option
- Max cycle frequency 5 Hz
- Large flow rate



Specifications

Mode of operation	
Media	Filtered compress air (40 µm), nitrogen
Body material	Anodised Aluminium
Flange tube	Brass/Aluminium
End cover	Stainless steel
Springs	Stainless steel
Seal material	Nitrile (Low temperature)
Max media temperature	+70 °C
Enclosure protection	IP65

Port size	Cv	Kv	Operation pressure range ¹ (MPa)		P. max (MPa)
			AC voltages	DC voltages	
1/4"	1.4	1.2	0.15-0.8	0.15-0.8	1.2
1/2"	2.8	2.4	0.15-0.8	0.15-0.8	1.2

Note 1: Operation pressure range for Ex ia type is 0.25-0.8 MPa.

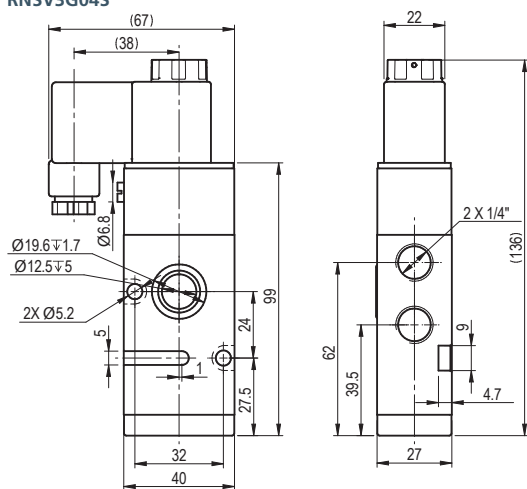
Non-explosionproof type

Electrical characteristics – Non-explosionproof	
Coil voltage DC (=)	12 V / 24 V
Coil voltage AC 50/60 Hz (-)	24 V / 110 V / 220 V
Voltage tolerance	+10% or -10%
Electrical connection options	DIN 43650 Form B connector (IP65 equivalent protection class)
Ambient temperature range	-25 to +70 °C
Coil insulation	Class F
Power rating	DC: 3 W / AC: 4.5 VA

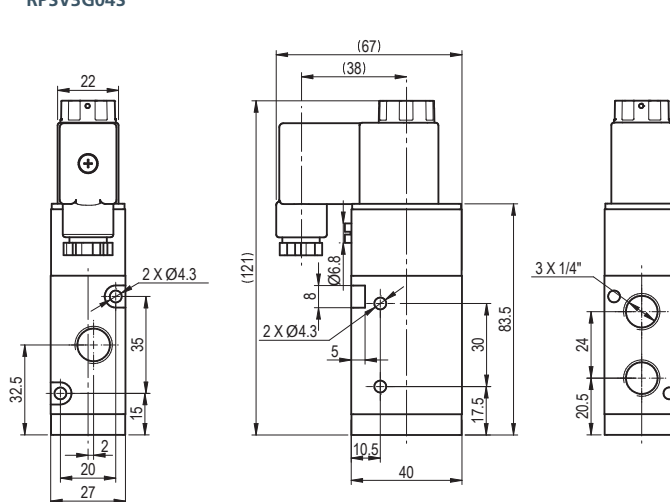


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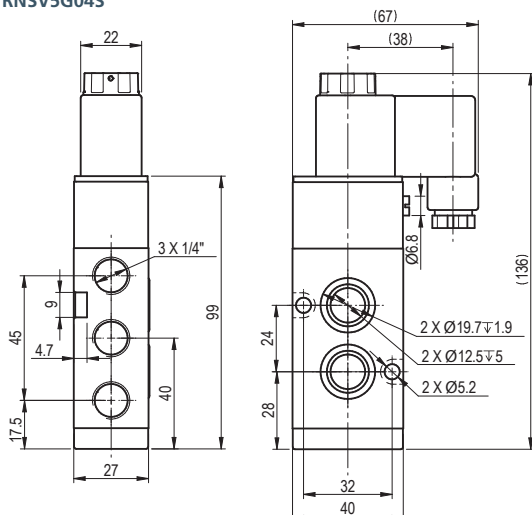
RNSV3G04S



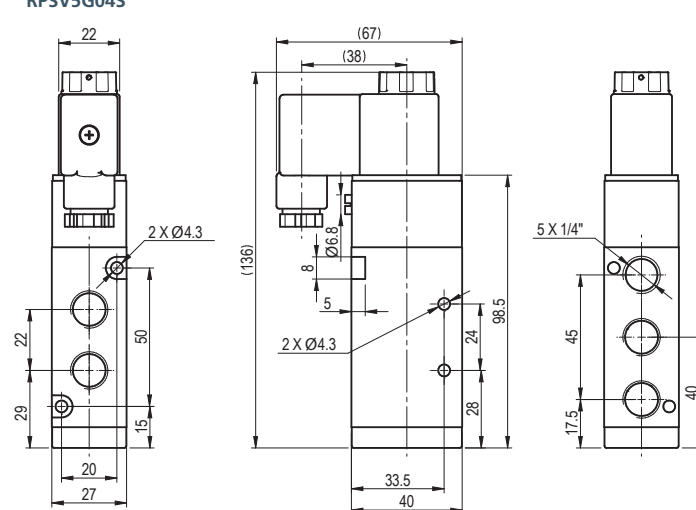
RPSV3G04S



RNSV5G04S



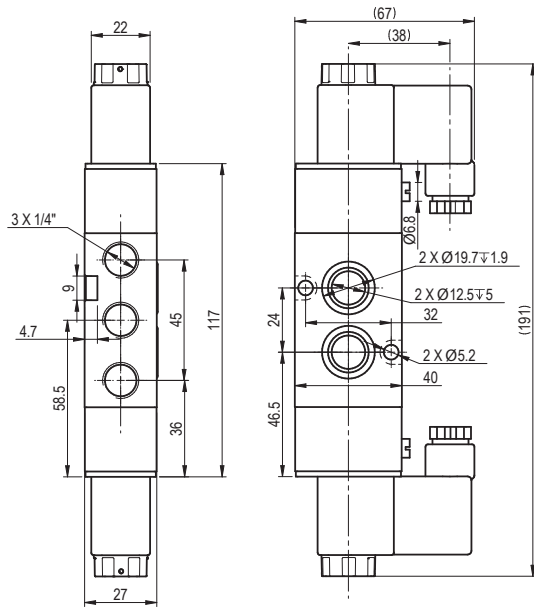
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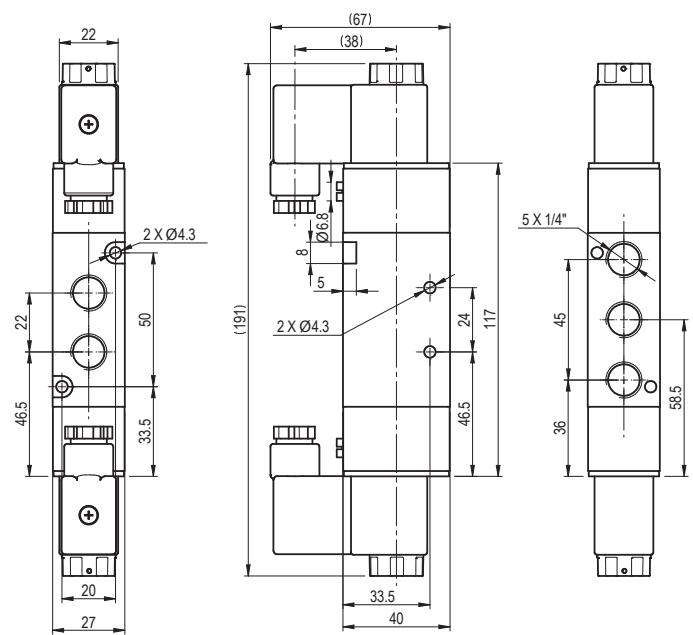
To request more drawings, please contact Rotork sales.

Non-explosionproof type *cont.*

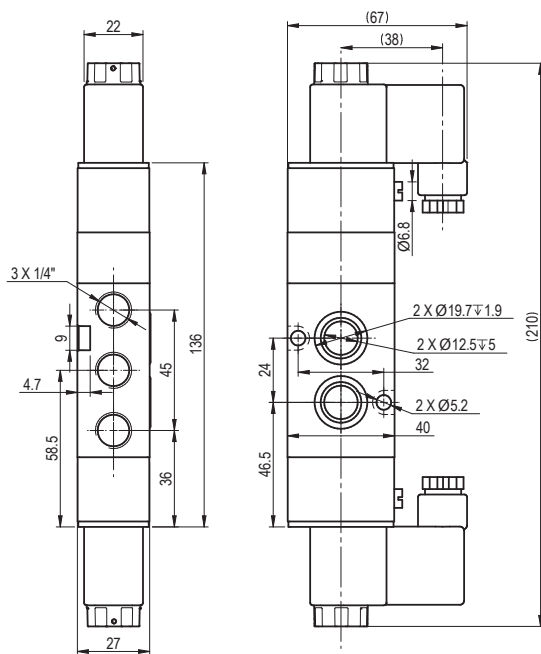
RNSV5G04D



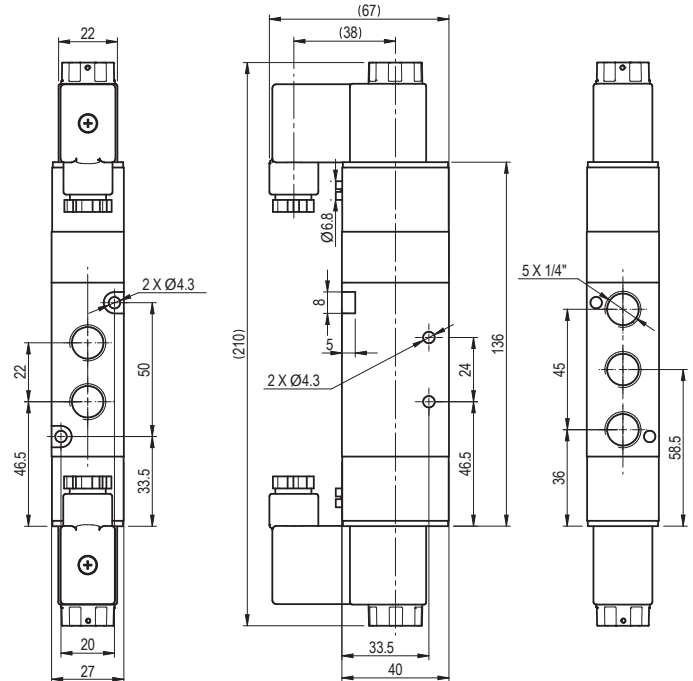
RPSV5G04D



**RNSV5G04DPH
RNSV5G04DPR**



**RPSV5G04DPH
RPSV5G04DPR**



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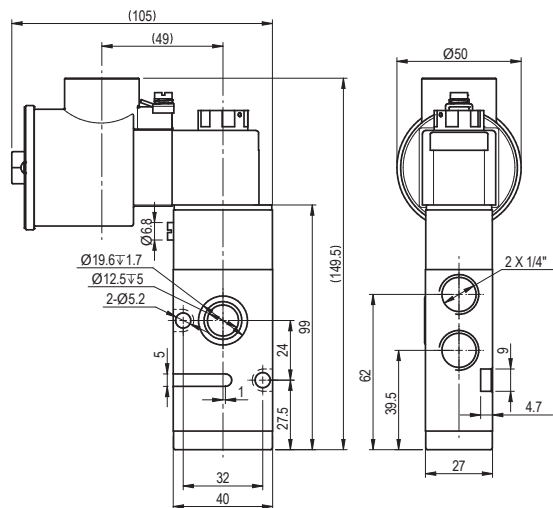
Explosionproof type Ex db mb

Electrical characteristics – Explosionproof Ex db mb			
Voltage tolerance		+10% or -10%	
Ambient temperature range		-25 to +50 °C	
Rated voltage	Power	Explosionproof type	Electrical connection
6, 12, 24, 48 VDC	3.8 W	Ex db mb IIC T4 Gb	M20×1.5 ½-14 NPT
6, 12, 24, 48 VDC	3 W	Ex db mb IIC T5 Gb	
12, 24, 48, 100, 110, 115, 120, 220, 230, 240 VAC	3.2 VA		

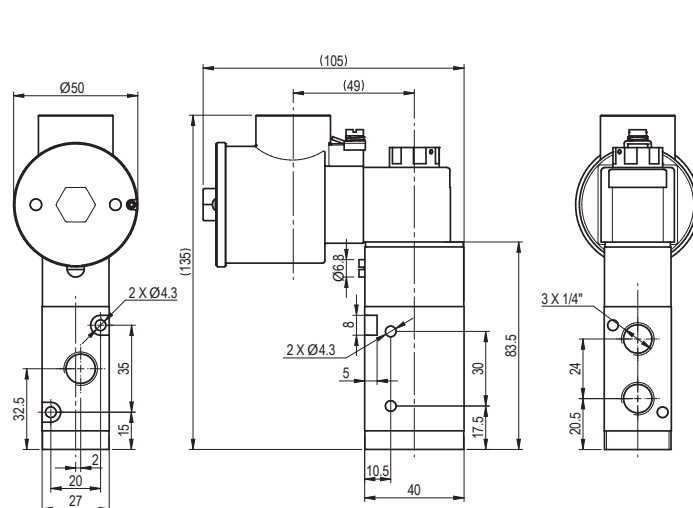


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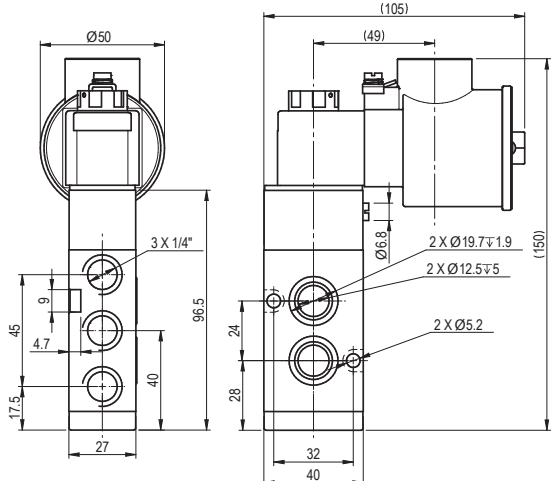
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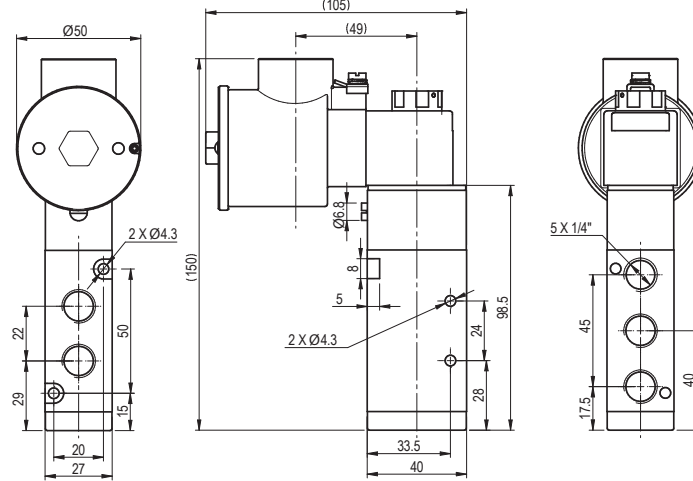
RPSV3G04S



RNSV5G04S



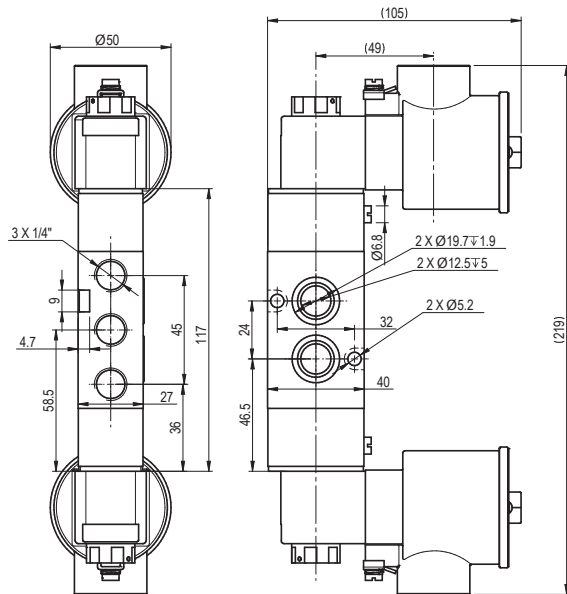
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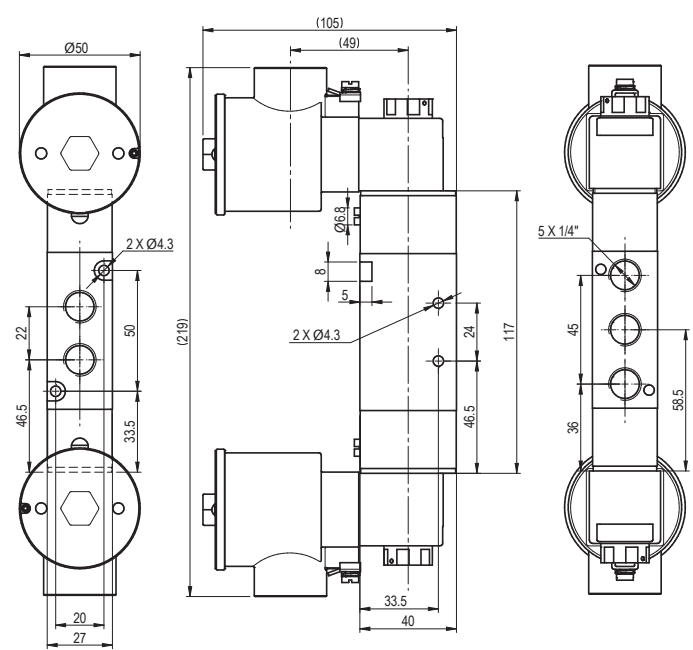
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Explosionproof type Ex db mb cont.

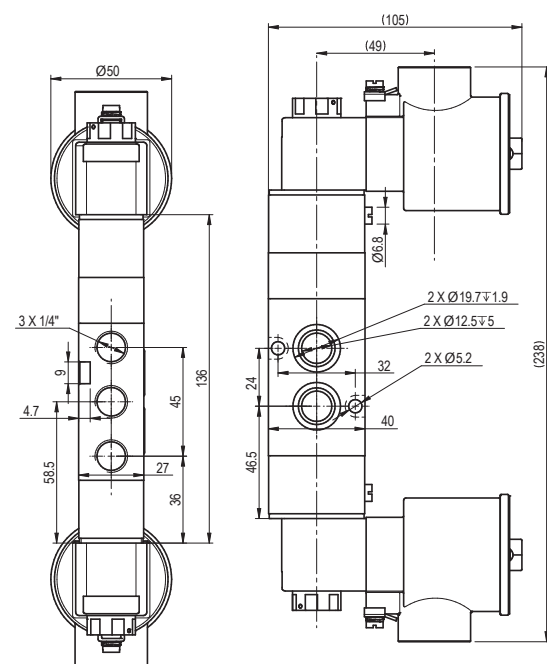
RNSV5G04D



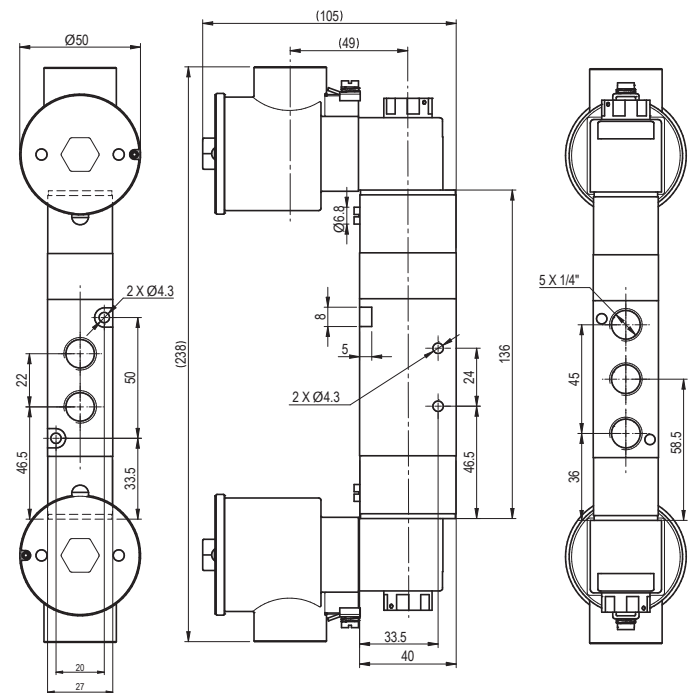
RPSV5G04D



RNSV5G04DPH
RNSV5G04DPR



RPSV5G04DPH
RPSV5G04DPR



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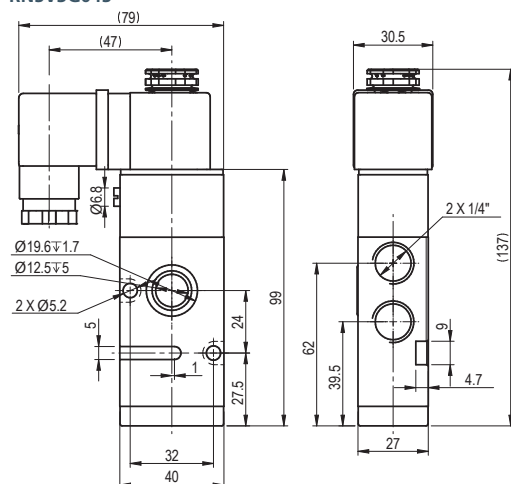
Explosionproof type Ex ia

Electrical characteristics – Explosionproof Ex ia			
Coil voltage DC		24 V	
Explosionproof type		Ex ia IIC T6 Gb	Ex ia IIB T6 Gb
Max input voltage, U_i (V)		28	32
Max input current, I_i (mA)		115	195
Max internal equivalent parameters	Ci (μF)	0	0
	Li (mH)	0	0
Min switch-on current (mA)		37	
Nominal resistance (Ω)		275	
T6 coil resistance (Ω)		345	
Ambient temperature		-25 to +50 °C	

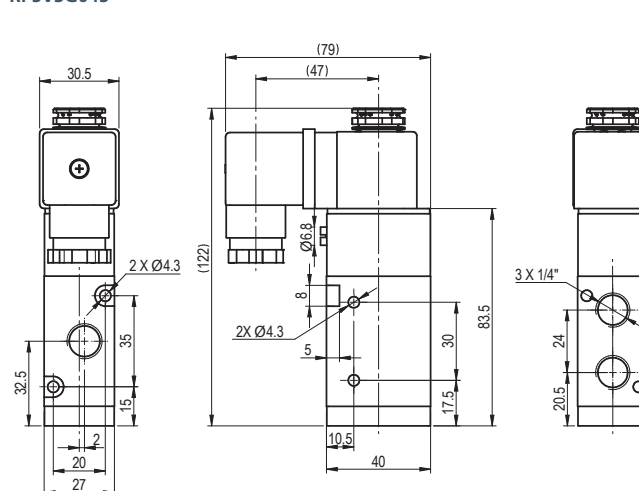


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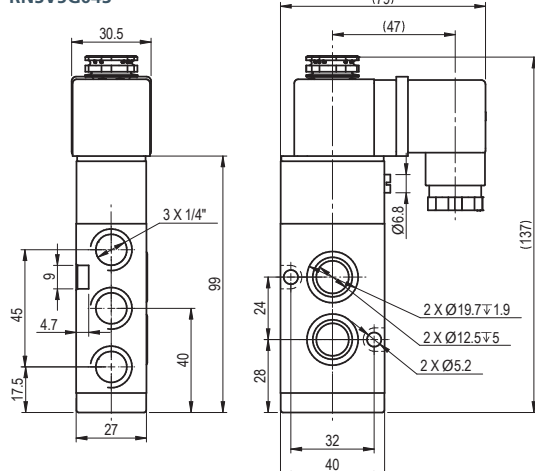
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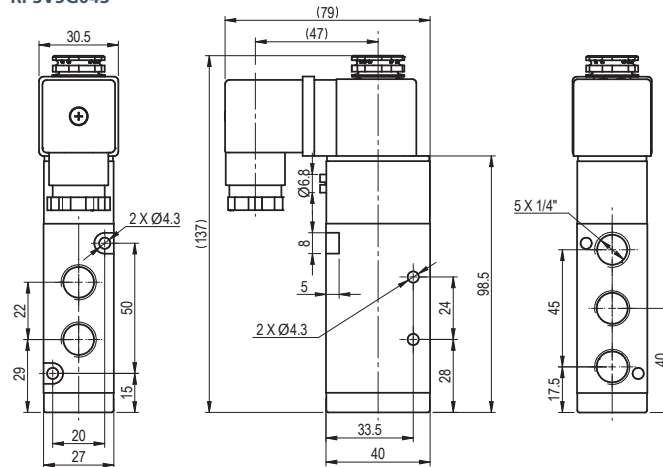
RPSV3G04S



RNSV5G04S



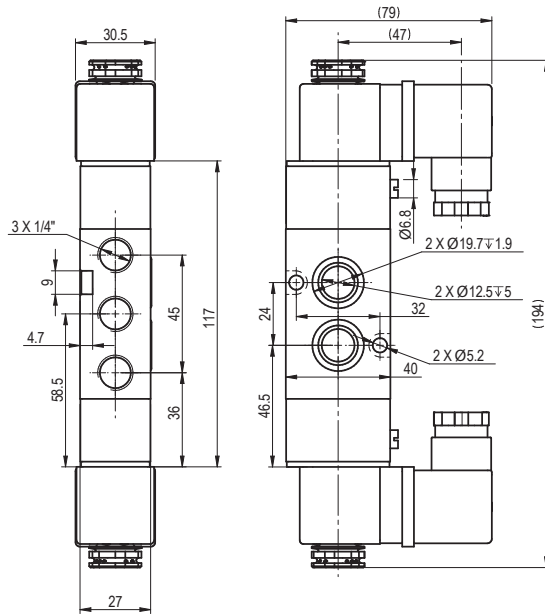
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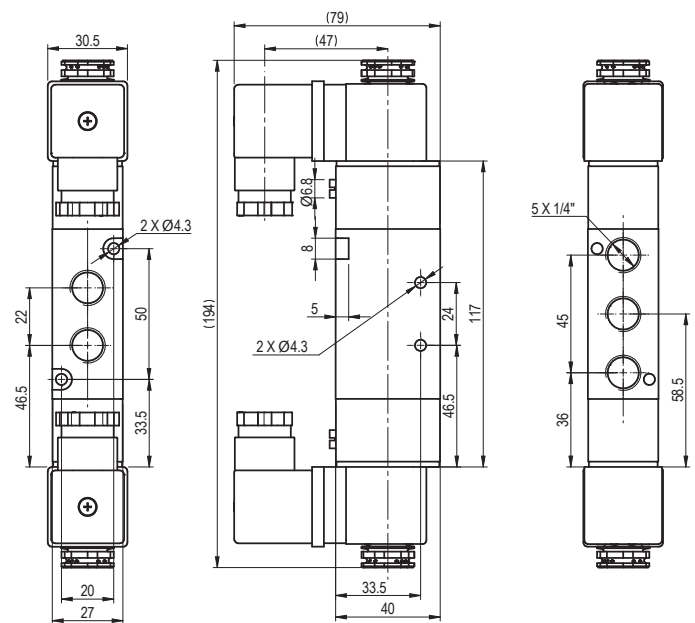
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Explosionproof type Ex ia *cont.*

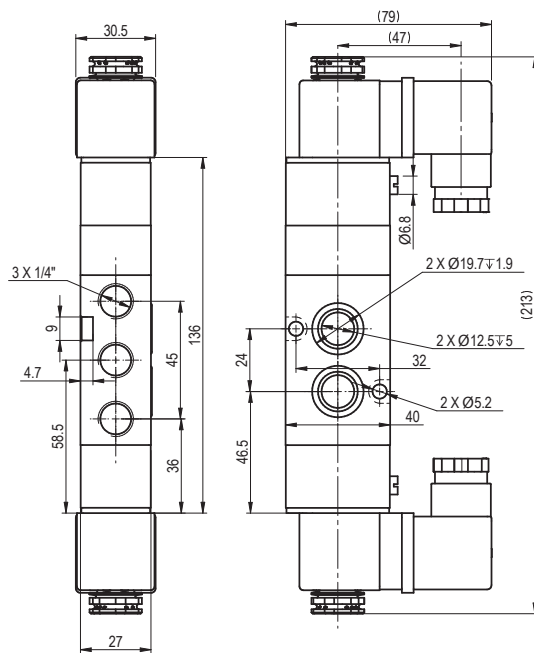
RNSV5G04D



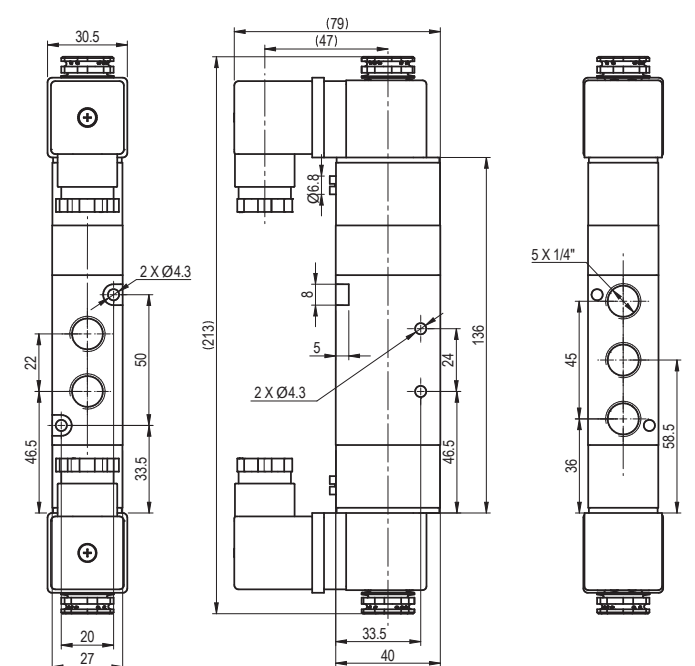
RPSV5G04D



**RNSV5G04DPH
RNSV5G04DPR**



**RPSV5G04DPH
RPSV5G04DPR**



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RNSV, RPSV range

3/2, 5/2 or 5/3 spool solenoid valves

Ordering code example

RNSV 3 G 04 S PP - 024DM M T4

Range

RNSV = NAMUR interface
RPSV = Pipe thread port

Valve configuration

3 = 3/2
5 = 5/2 or 5/3

Port type

G = BSPP
N = NPT

Port size

04 = ¼"
08 = ½"

Operator

S = Single coil
D = Dual coil

5/3 option

PH = Pressure hold
PR = Pressure release

Change over plate

CP = Conversion plate (5/2 to 3/2)
PP = Padded plate

Voltage (AC 50/60 Hz)

220AS = 220 VAC Non-explosionproof
110AS = 110 VAC Non-explosionproof
024AS = 24 VAC Non-explosionproof
024DS = 24 VDC Non-explosionproof
012DS = 12 VDC Non-explosionproof
220AM = 220 VAC Ex db mb
110AM = 110 VAC Ex db mb
024DM = 24 VDC Ex db mb
024DI = 24 VDC Ex ia

Electrical connection

P = PG9 for non-explosionproof and Ex db mb coil
F = Flying lead for non-explosionproof coil
M = M20 × 1.5 for Ex ia and Ex db mb coil
N = ½-14 NPT Ex db mb coil

T4 coil option

T4 = T4 class coil (for Ex db mb coil)

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