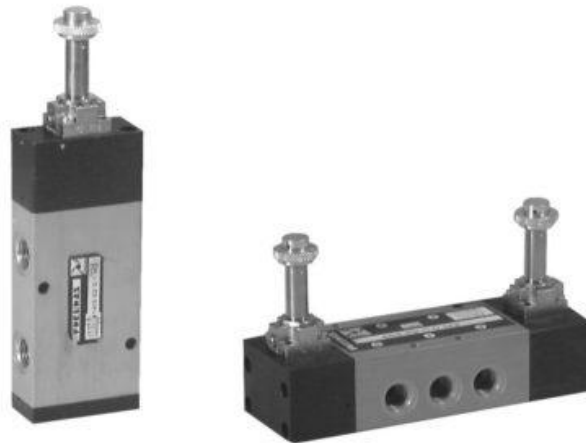




PNEUMAX

412-411 Series Valves



800.909.4988
info@rankinusa.com

RANKIN
COMPONENTS THAT AUTOMATE



3/2 Solenoid - Spring

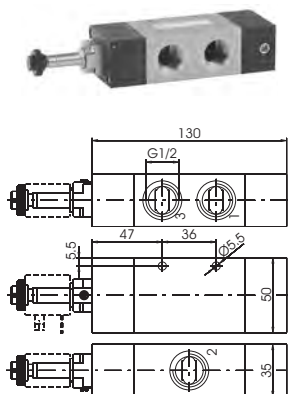
Ordering code

Solenoid - Spring

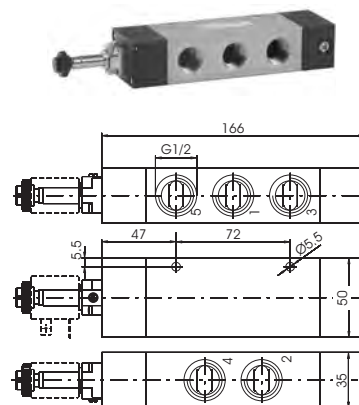
5/2

412/2T.0.1.V

T	TYPE
32=3 ways	
52=5 ways	
V	VARIANT
C.M2=3 ways Normally Closed	
A.M2=3 ways Normally Open	
M2=5 ways	



Weight gr. 578
Minimum working pressure 2,5 bar



Weight gr. 700
Minimum working pressure 2,5 bar

Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 ÷ +50	3600 NI/min	mm 15	G 1/2"

3/2 Solenoid - Differential external

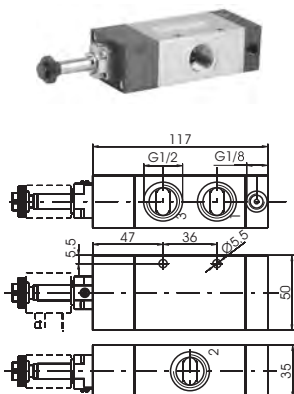
Ordering code

Solenoid - Differential external

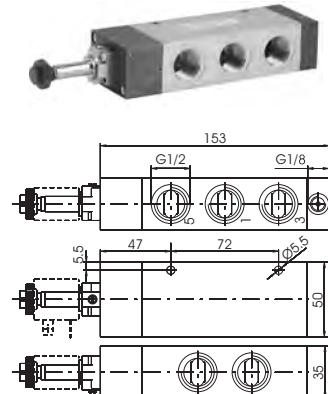
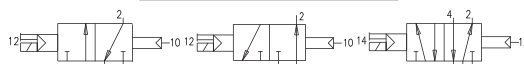
5/2

412/2T.0.12.V

T	TYPE
32=3 ways	
52=5 ways	
V	VARIANT
C.M2=3 ways Normally Closed	
A.M2=3 ways Normally Open	
M2=5 ways	



Weight gr. 522
Minimum working pressure 2,5 bar



Weight gr. 644
Minimum working pressure 2,5 bar

Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 ÷ +50	3600 NI/min	mm 15	G 1/2"

3/2 Pneumatic - Differential self aligned

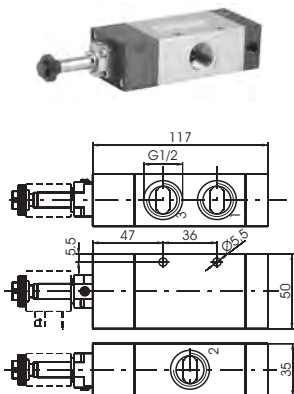
Ordering code

Pneumatic - Differential self aligned

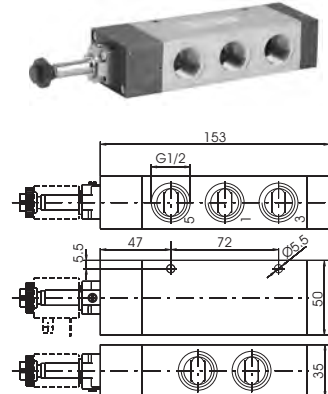
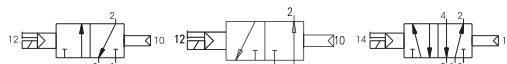
5/2

412/2T.0.12/1.V

T	TYPE
32=3 ways	
52=5 ways	
V	VARIANT
C.M2=3 ways Normally Closed	
A.M2=3 ways Normally Open	
M2=5 ways	




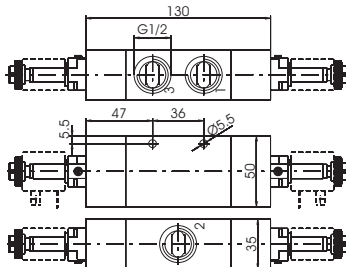

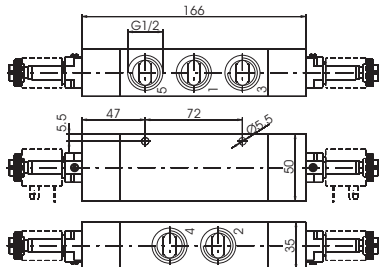


Weight gr. 526
Minimum working pressure 2,5 bar


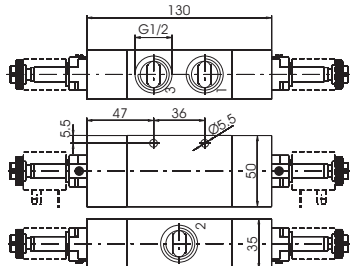



Weight gr. 648
Minimum working pressure 2,5 bar

Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 ÷ +50	3600 NI/min	mm 15	G 1/2"

3/2		Solenoid - Solenoid	Ordering code		Solenoid - Solenoid		5/2	
<div></div> <div></div>			412/2 T 0.0.M2		<div></div> <div></div>			
			TYPE					
			32=3 ways					
			52=5 ways					
Weight gr. 612 Minimum working pressure 2 bar								
Operational characteristics								
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size			
Filtered air, with or without lubrication	10 bar	-5 ÷ +50	3600 NI/min	mm 15	G 1/2"			

Solenoid - Solenoid		5/3			
Ordering code					
412/2.53.T.0.0.M2					
FUNCTION					
31=Closed centres					
32=Open centres					
33=Pressured centres					
					
Weight gr. 794 Minimum working pressure 3 bar					
Operational characteristics					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 ÷ +50	3300 NI/min	mm 15	G 1/2"

Solenoid - Spring

3/2
5/2

Ordering code

411.T.0.1.S

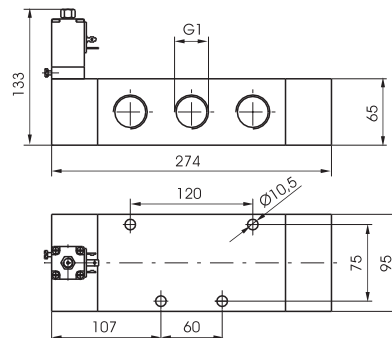
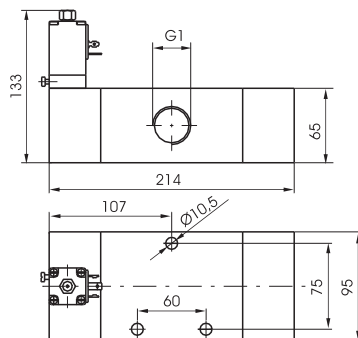
TYPE

32=3 ways

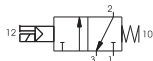
52=5 ways

SOLENOID CODE

S=See Solenoid valves "S" type, Series 300



Weight gr. 3400
Minimum piloting pressure 2,5 bar



Weight gr. 4300
Minimum piloting pressure 2,5 bar

Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
Filtered and lubricated air	10 bar	-5 ÷ +50	6500 NI/min	mm 20	G 1"

Solenoid - Differential

3/2
5/2

Ordering code

411.T.0.12.S

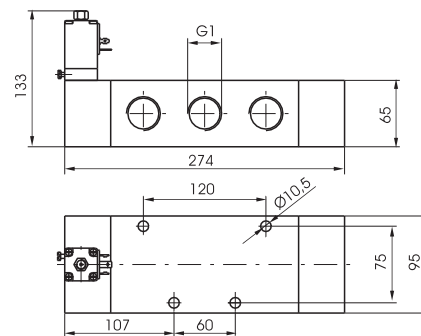
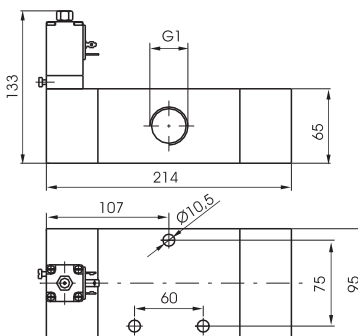
TYPE

32=3 ways

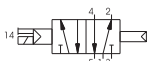
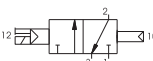
52=5 ways

SOLENOID CODE

S=See Solenoid valves "S" type, Series 300



Weight gr. 3400
Minimum piloting pressure 2,5 bar



Weight gr. 4300
Minimum piloting pressure 2,5 bar



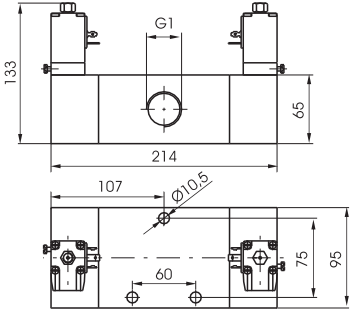
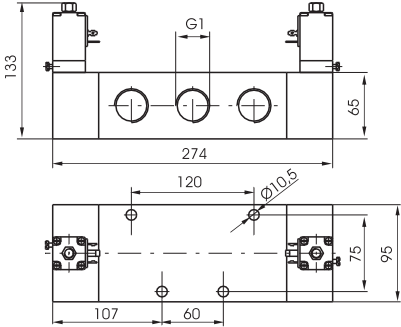


Operational characteristics


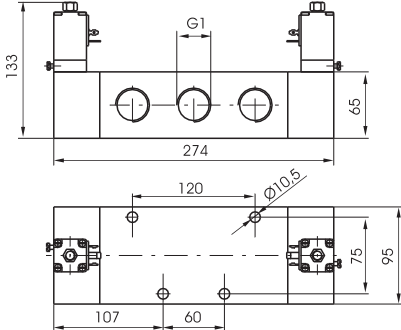
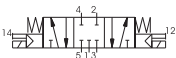
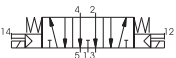
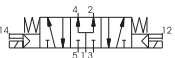
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
Filtered and lubricated air	10 bar	-5 ÷ +50	6500 NI/min	mm 20	G 1"



3/2
5/2

2

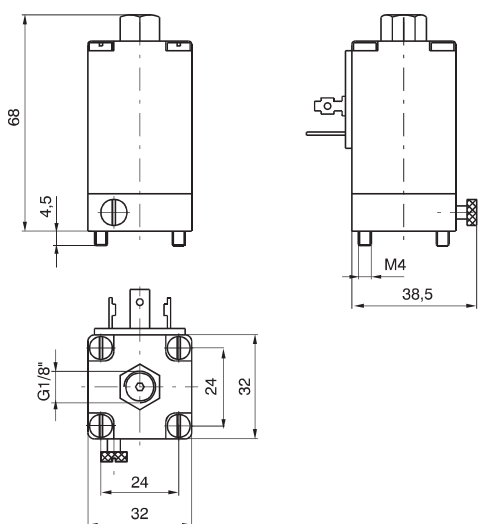
Solenoid - Solenoid					
Ordering code					
411.1.0.0.S					
TYPE					
32=3 ways					
52=5 ways					
SOLENOID CODE					
S=See Solenoid valves "S" type, Series 300					
 					
 					
 					
Weight gr. 3700 Minimum piloting pressure 2 bar					
Weight gr. 4600 Minimum piloting pressure 2 bar					
Operational characteristics					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
Filtered and lubricated air	10 bar	-5 ÷ +50	6500 NI/min	mm 20	G 1"

Solenoid - Solenoid					
Ordering code					
411.53.F.0.0.S					
FUNCTION					
F31=Closed centres					
32=Open centres					
33=Pressured centres					
SOLENOID CODE					
S=See Solenoid valves "S" type, Series 300					
					
					
  					
Weight gr. 4700 Minimum piloting pressure 3 bar					
Operational characteristics					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
Filtered and lubricated air	10 bar	-5 ÷ +50	6500 NI/min	mm 20	G 1"

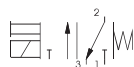
Solenoid valve S and S/1



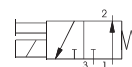
Weight 220 gr.



Normally Closed
(N.C.) - **S**



Normally Open
(N.O.) - **S/1**



Ordering code		Available voltages Coil	
S 2	S 2/1	6 D.C.	Direct current
S 4	S 4/1	12 D.C.	
S 5	S 5/1	24 D.C.	
S 6	S 6/1	48 D.C.	
S 16	S 16/1	12/50	Alternating current 50 Hz
S 17	S 17/1	24/50	
S 19	S 19/1	32/50	
S 20	S 20/1	42/50	
S 21	S 21/1	48/50	
S 22	S 22/1	110/50	
S 23	S 23/1	115/50	
S 24	S 24/1	230/50	
S 36	S 36/1	12/60	Alternating current 60 Hz
S 37	S 37/1	24/60	
S 38	S 38/1	48/60	
S 39	S 39/1	110/60	
S 40	S 40/1	115/60	
S 41	S 41/1	230/60	
S 56	S 56/1	24/50-60	Alternating current 50/60 Hz
S 57	S 57/1	110/50-60	
S 58	S 58/1	230/50-60	