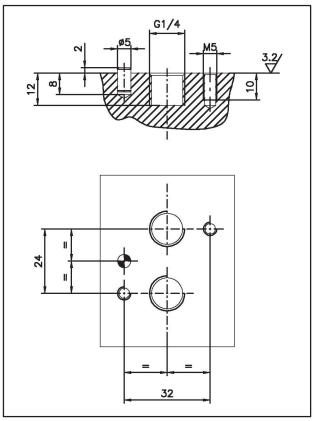
Series 514 High Performance

NAMUR valves are 5/2 and 4/2 valves and electrovalves, piloted electrically or pneumatically, utilised primarily to operate rotary actuators and wherever there is a NAMUR standard installation plan.
The product is classified for use in potentially explosive atmospheres (Directive 2014/34/EU).
NAMUR valves have been developed using the latest, technical design solutions which guarantee flexibility and an increased flow rate capacity exceeding that of traditional, spool valves.
Innovative materials guarantee high performances also in critical environment conditions.
Available NPT and BSPT connections.
The solenoid valves are available with protection classes for zones 2-22, 1-21 solenoids Ex ec, Ex mb, Ex ia, international approvals IECEx, FM and CSA.

Note:
"Although accurately described, the 4/2 valve actually functions as a 3/2 normally closed valve and should be used as such."

"NAMUR" interface dimensions:
according to standard (VDI/VDE 3847 July 2003)



Construction characteristics

Body	Aluminium
Spacers	Technopolymer
Seals	Nitrile rubber
Springs	Stainless Steel
Operators	Technopolymer
Spools	Steel
Screws	Zinc coated Steel / Stainless steel

Order codes

[ ] 51 [4] . [52.00.39] . [B04] [ ]

Model
: Standard valve
X : ATEX valve (-20°C ... +40°C) - only with solenoid coils "B##","C##" e "X##" (-30°C ... +50°C) - only with solenoid coils "MHC","MH#"

Connections
4 : G1/4" - supplied with plate
6 : 1/4" NPT - supplied with plate

Function and version
42.00.16: 4 ways - Pneumatic-Differential
42.00.18: 4 ways - Pneumatic-Pneumatic
42.00.19: 4 ways - Pneumatic-Spring
42.00.35: 4 ways - Solenoid-Solenoid
42.00.36: 4 ways - Solenoid-Differential
42.00.39: 4 ways - Solenoid-Spring
52.00.16: 5 ways - Pneumatic-Differential
52.00.18: 5 ways - Pneumatic-Pneumatic
52.00.19: 5 ways - Pneumatic-Spring
52.00.35: 5 ways - Solenoid-Solenoid
52.00.36: 5 ways - Solenoid-Differential
52.00.39: 5 ways - Solenoid-Spring
92.00.16: Universal kit - Pneumatic-Differential
92.00.18: Universal kit - Pneumatic-Pneumatic
92.00.19: Universal kit - Pneumatic-Spring
92.00.35: Universal kit - Solenoid-Solenoid
92.00.36: Universal kit - Solenoid-Differential
92.00.39: Universal kit - Solenoid-Spring

Voltages	Valve marking with ATEX solenoid coil	Protection method of the ATEX solenoid coil
B00: Ø10 stem without solenoid coil to be used with the following solenoid coils	Ex : CE UKCA Ex II 2G Ex h IIC T5 Gb X CE UKCA Ex II 2D Ex h IIIC T96°C Db X	/
B04: 12 VDC - for all models **B05**: 24 VDC - for all models **B09**: 24 VDC (2W) - only for standard model **B56**: 24 VAC (50-60 Hz) - for all models **B57**: 110 VAC (50-60 Hz) - for all models **B58**: 230 VAC (50-60 Hz) - for all models **C04**: 12 VDC - for all models **C05**: 24 VDC - for all models **C09**: 24 VDC (2W) - only for standard model **C56**: 24 VAC (50-60 Hz) - for all models **C57**: 110 VAC (50-60 Hz) - for all models **C58**: 230 VAC (50-60 Hz) - for all models	Ex : CE UKCA Ex II 3G Ex h IIC T4 Gc X CE UKCA Ex II 3D Ex h IIIC T120°C Dc X IP65	Ex ec Ex tc
F00: Ø9 stem without solenoid coil to be used with the following solenoid coils	Ex : CE UKCA Ex II 2G Ex h IIC T5 Gb X CE UKCA Ex II 2D Ex h IIIC T96°C Db X	/
X05: 24 VDC - only for ATEX model **X56**: 24 VAC (50-60 Hz) - only for ATEX model **X57**: 110 VAC (50-60 Hz) - only for ATEX model **X58**: 230 VAC (50-60 Hz) - only for ATEX model	Ex : CE UKCA Ex II 2G Ex h IIC T4 Gb X CE UKCA Ex II 2D Ex h IIIC T135°C Db X IP65	Ex mb
MHC: 32 VDC T6 - only for ATEX model complete with connector	Ex : CE UKCA Ex II 2G Ex h IIB/IIC T4 Gb X CE UKCA Ex II 2D Ex h IIIC T130°C Db X IP65	Ex ia
MH4: 32 VDC T4 - only for ATEX model **MH6**: 32 VDC T6 - only for ATEX model	Ex : CE UKCA Ex II 2G Ex h IIB/IIC T4 Gb X	Ex ia
Voltages	**Valve marking with FM solenoid coil**	
L04: 12 VDC - only for FM APPROVED model **L05**: 24 VDC - only for FM APPROVED model **L39**: 120 VAC - only for FM APPROVED model **L41**: 240 VAC - only for FM APPROVED model	FM C US APPROVED	
FM APPROVED valve (-20°C ... +50°C) - only with solenoid coils "L##"		

Temperature options
: Standard valve (-10°C ... +50°C)
LT : Low temperature (-30°C ... +50°C)

Example : 514.52.00.39.B04 : Standard valve, G1/4" connections supplied with plate, solenoid-spring 5 ways, 12 VDC solenoid coil

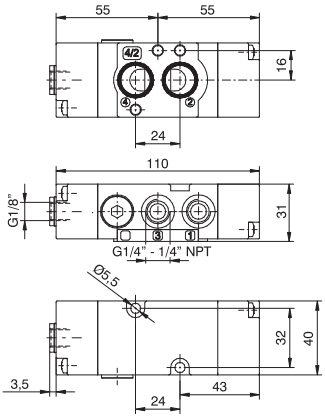
Pneumatic - Differential

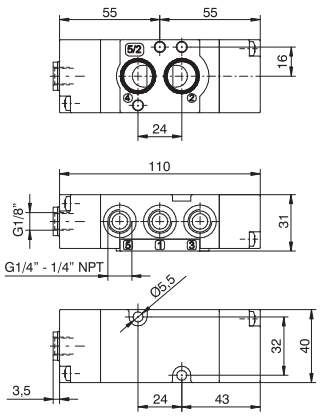
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with Δp=1 (Nl/min)	1100
Orifice size (mm)	8
Working ports size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66

Coding: Ⓜ51Ⓒ.Ⓣ.00.16Ⓞ

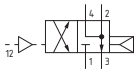
Ⓜ	MODEL
	= Standard valve
	X = ATEX valve
Ⓒ	CONNECTIONS
	4 = G1/4"
	6 = 1/4" NPT
Ⓣ	TYPE
	42 = 4 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓞ	TEMPERATURE OPTION
	SEE ORDER CODES PAGE

Minimum pilot pressure 2,5 bar
Maximum fitting torque 9 N/m

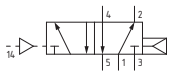




Ⓜ51Ⓒ.42.00.16Ⓞ Weight 240 g



Ⓜ51Ⓒ.52.00.16Ⓞ Weight 235 g



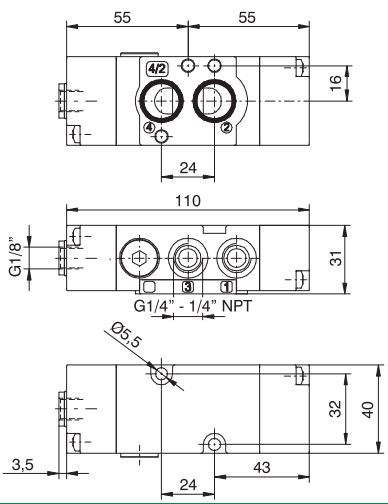
Pneumatic-Pneumatic

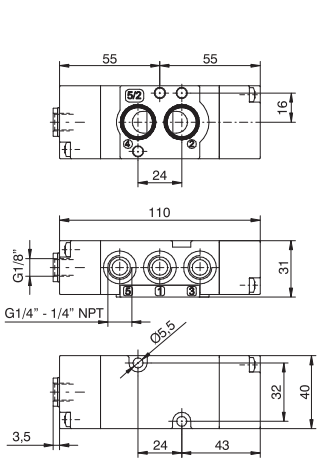
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with Δp=1 (Nl/min)	1100
Orifice size (mm)	8
Working ports size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66

Coding: Ⓜ51Ⓒ.Ⓣ.00.18Ⓞ

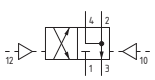
Ⓜ	MODEL
	= Standard valve
	X = ATEX valve
Ⓒ	CONNECTIONS
	4 = G1/4"
	6 = 1/4" NPT
Ⓣ	TYPE
	42 = 4 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓞ	TEMPERATURE OPTION
	SEE ORDER CODES PAGE

Minimum pilot pressure 2,5 bar
Maximum fitting torque 9 N/m

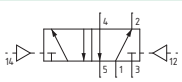




Ⓜ51Ⓒ.42.00.18Ⓞ Weight 240 g

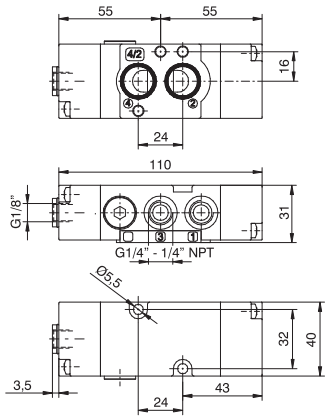


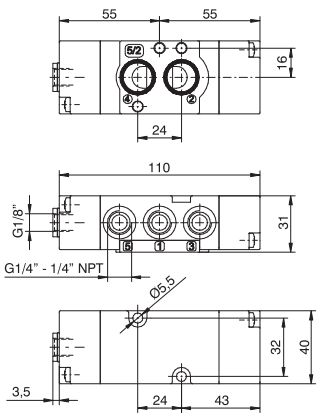
Ⓜ51Ⓒ.52.00.18Ⓞ Weight 235 g



Pneumatic - Spring

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with Δp=1 (Nl/min)	1100
Orifice size (mm)	8
Working ports size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66



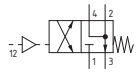


Coding: Ⓜ51Ⓒ.Ⓣ.00.19Ⓞ

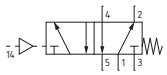
Ⓜ	MODEL
	= Standard valve
	X = ATEX valve
Ⓒ	CONNECTIONS
	4 = G1/4"
	6 = 1/4" NPT
Ⓣ	TYPE
	42 = 4 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓞ	TEMPERATURE OPTION
	SEE ORDER CODES PAGE

Minimum pilot pressure 2,5 bar
Maximum fitting torque 9 N/m

Ⓜ51Ⓒ.42.00.19Ⓞ Weight 240 g

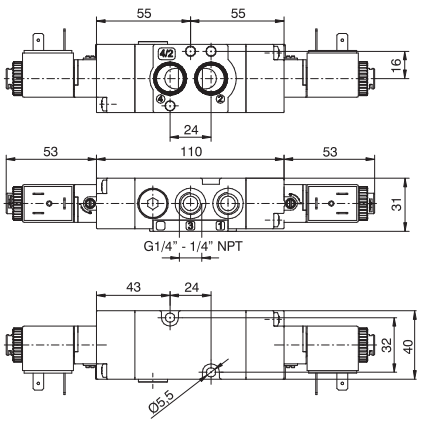


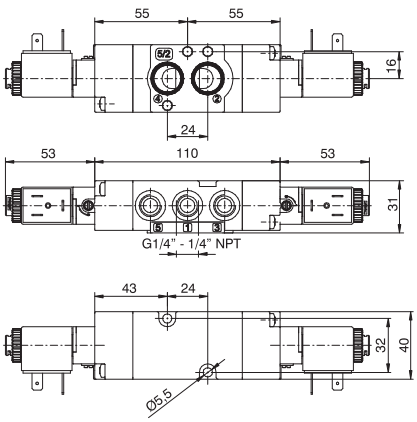
Ⓜ51Ⓒ.52.00.19Ⓞ Weight 235 g



Solenoid-Solenoid

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with Δp=1 (Nl/min)	1100
Orifice size (mm)	8
Working ports size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66



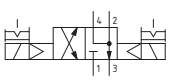


Coding: Ⓜ51Ⓒ.Ⓣ.00.35.ⓋⓄ

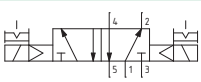
Ⓜ	MODEL
	= Standard valve
	X = ATEX valve
Ⓒ	CONNECTIONS
	4 = G1/4"
	6 = 1/4" NPT
Ⓣ	TYPE
	42 = 4 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓥ	VOLTAGE
	SEE ORDER CODES PAGE
Ⓞ	TEMPERATURE OPTION
	SEE ORDER CODES PAGE

Minimum pilot pressure 2,5 bar
Maximum fitting torque 9 N/m

Ⓜ51Ⓒ.42.00.35.ⓋⓄ Weight 410 g

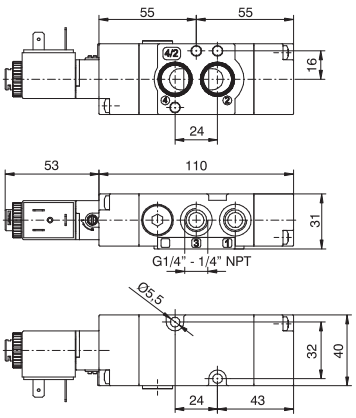


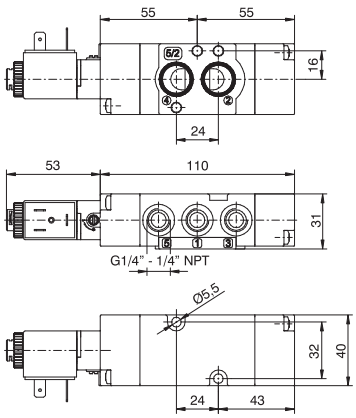
Ⓜ51Ⓒ.52.00.35.ⓋⓄ Weight 405 g



Solenoid-Differential

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with Δp=1 (Nl/min)	1100
Orifice size (mm)	8
Working ports size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66



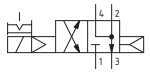


Coding: Ⓜ51Ⓒ.Ⓣ.00.36.ⓋⓄ

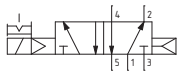
Ⓜ	MODEL
	= Standard valve
	X = ATEX valve
Ⓒ	CONNECTIONS
	4 = G1/4"
	6 = 1/4" NPT
Ⓣ	TYPE
	42 = 4 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓥ	VOLTAGE
	SEE ORDER CODES PAGE
Ⓞ	TEMPERATURE OPTION
	SEE ORDER CODES PAGE

Minimum pilot pressure 2,5 bar
Maximum fitting torque 9 N/m

Ⓜ51Ⓒ.42.00.36.ⓋⓄ Weight 330 g

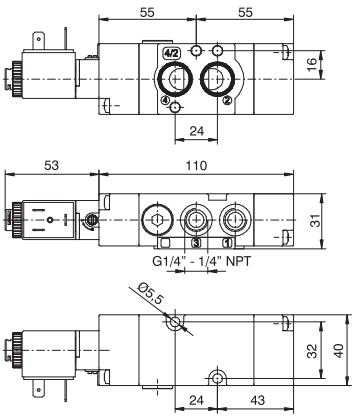


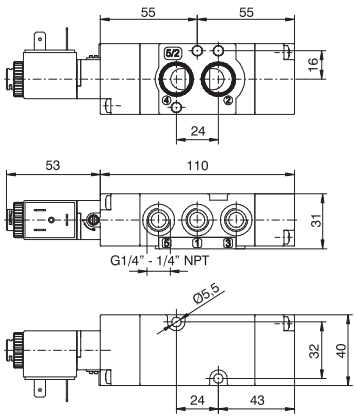
Ⓜ51Ⓒ.52.00.36.ⓋⓄ Weight 325 g



Solenoid-Spring

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with Δp=1 (Nl/min)	1100
Orifice size (mm)	8
Working ports size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66



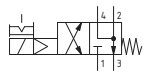


Coding: Ⓜ51Ⓒ.Ⓣ.00.39.ⓋⓄ

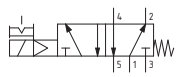
Ⓜ	MODEL
	= Standard valve
	X = ATEX valve
Ⓒ	CONNECTIONS
	4 = G1/4"
	6 = 1/4" NPT
Ⓣ	TYPE
	42 = 4 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓥ	VOLTAGE
	SEE ORDER CODES PAGE
Ⓞ	TEMPERATURE OPTION
	SEE ORDER CODES PAGE

Minimum pilot pressure 2,5 bar
Maximum fitting torque 9 N/m

Ⓜ51Ⓒ.42.00.39.ⓋⓄ Weight 330 g

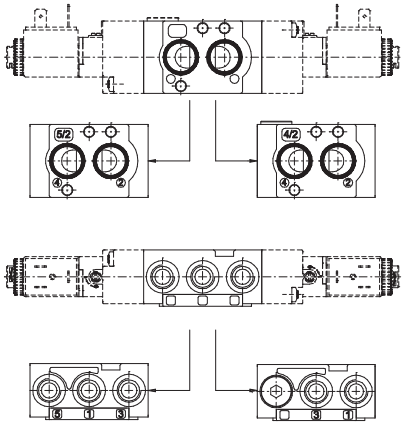


Ⓜ51Ⓒ.52.00.39.ⓋⓄ Weight 325 g



Universal kit

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with Δp=1 (Nl/min)	1100
Orifice size (mm)	8
Working ports size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66



Coding: Ⓜ51Ⓒ.92.00.Ⓥ.ⓉⓄ

Ⓜ	MODEL
	= Standard valve
	X = ATEX valve
Ⓒ	CONNECTIONS
	4 = G1/4"
	6 = 1/4" NPT
Ⓥ	VERSION
	16 = Pneumatic-Differential
	18 = Pneumatic - Pneumatic
	19 = Pneumatic - Spring
	35 = Solenoid - Solenoid
	36 = Solenoid - Differential
	39 = Solenoid - Spring
Ⓣ	VOLTAGE
	SEE ORDER CODES PAGE
Ⓞ	TEMPERATURE OPTION
	SEE ORDER CODES PAGE

Minimum pilot pressure 2,5 bar
Maximum fitting torque 9 N/m
To change a 5/2 valve into a 4/2: Simply replace the bottom plate with the one included in the universal kit (cod. 514.92...) and by plugging port 5

Ⓜ51Ⓒ.92.00.Ⓥ.ⓉⓄ Weight 405 g