Series PG - for compressed air and vacuum

The large flow valves and solenoid poppet valves for compressed air and vacuum.
Are manufactured for 3/2 and 2/2 versions only, either normally close and normally open.

Construction characteristics

	G 1/2"	G 3/4"	G 1"	G 1 1/2"
Body, operator and end cover	Aluminium			
Actuators rod	Steel			
Bottom plates	Aluminium			
Seals and poppets	NBR			
Springs	Stainless steel			
Pin guide	Stainless steel			
Pistons	Acetal resin			

Use and maintenance

These valves have a mean life of 10 to 15 million cycles under normal operating conditions.
Lubrication is not required for good operation but we recommend good filtration to avoid dirty deposit causing malfunction.
Please ensure that the valve is being used according with the manufacturers specification, such as air pressure and temperature.
The exhaust port of the distributor has to be protected in a dusty and dirty environment.
For these products, according to the construction technique and special application, is not required any maintenance with parts replacement.
When necessary it is sufficient to clean the internal parts.
When it is used the solenoid valves with internal pilot, either for air or vacuum, inlet flow rate must be equal or higher that the required consumption flow rate.
Otherwise is better choose the external pilot version.

AIR DISTRIBUTION

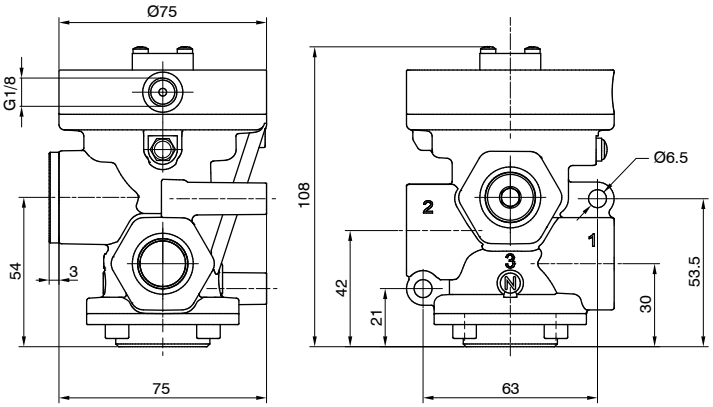
Pneumatic - Spring

Coding: PG2A(N)11E(F)00000

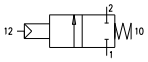
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	4800
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

(N)	WAYS NUMBER
	2 = 2 ways, 2 positions
	3 = 3 ways, 2 positions
(F)	FUNCTION
	A = Normally Open (only for 3 ways)
	C = Normally Closed

2/2



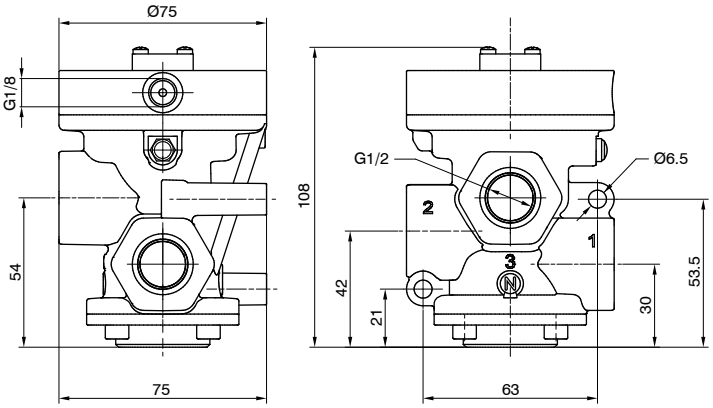
N.C.
Inlet port 1
Outlet port 2
Exhaust port 3 (closed)



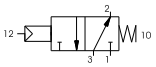
Weight 675 g

PG2A211E(F)00000

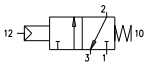
3/2



N.O.
Inlet port 3
Outlet port 2
Outlet port 1



N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



Weight 648,5 g

PG2A311E(F)00000

Solenoid-Spring

Coding: PG2A(N)01(V)(F)(T)

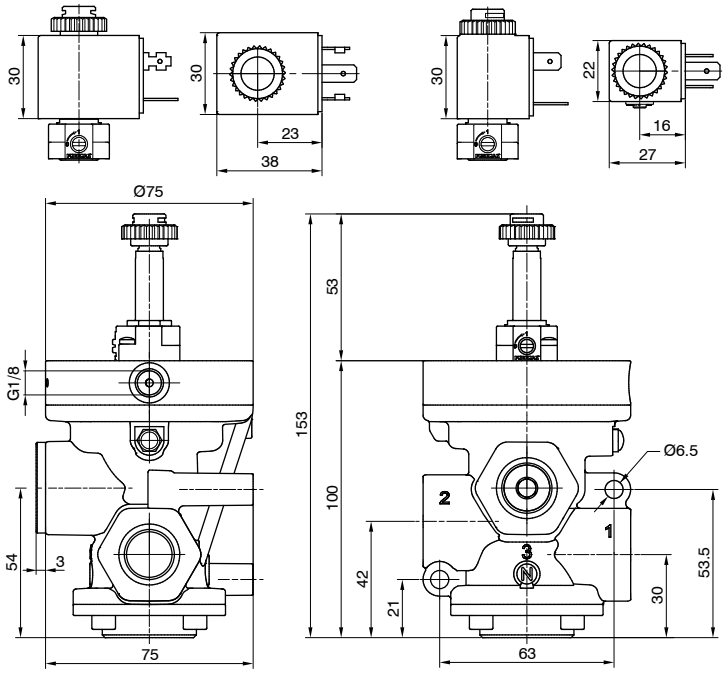
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (Nl/min)	4800
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"
Responce time according to ISO 12238, activation time (ms)	21 (internal pilot version)
Responce time according to ISO 12238, deactivation time (ms)	83 (internal pilot version)

(N)	WAYS NUMBER
	2 = 2 ways, 2 positions
	3 = 3 ways, 2 positions
(V)	VERSION
	A = Self feeding
	E = External feeding
(F)	FUNCTION
	A = Normally Open (only for 3 ways)
	C = Normally Closed
(T)	VOLTAGE (22 MM SOLENOID COIL)
	S40B0 = 12 VDC
	S50B0 = 24 VDC
	S60B0 = 24 V 50/60 Hz
	S70B0 = 110 V 50/60 Hz
	S80B0 = 230 V 50/60 Hz
	10000 = Without solenoid coil
(T)	VOLTAGE (30 MM SOLENOID COIL)
	S40C0 = 12 VDC
	S50C0 = 24 VDC
	S60C0 = 24 V 50/60 Hz
	S70C0 = 110 V 50/60 Hz
	S80C0 = 230 V 50/60 Hz
	10000 = Without solenoid coil

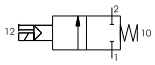
2/2

30 mm SOLENOID COIL
Connection: DIN 43650 "A" SHAPE

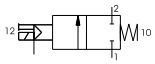
22 mm SOLENOID COIL
Connection: DIN 43650 INDUSTRIAL "B" SHAPE



Internal pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3 (closed)



External pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3 (closed)



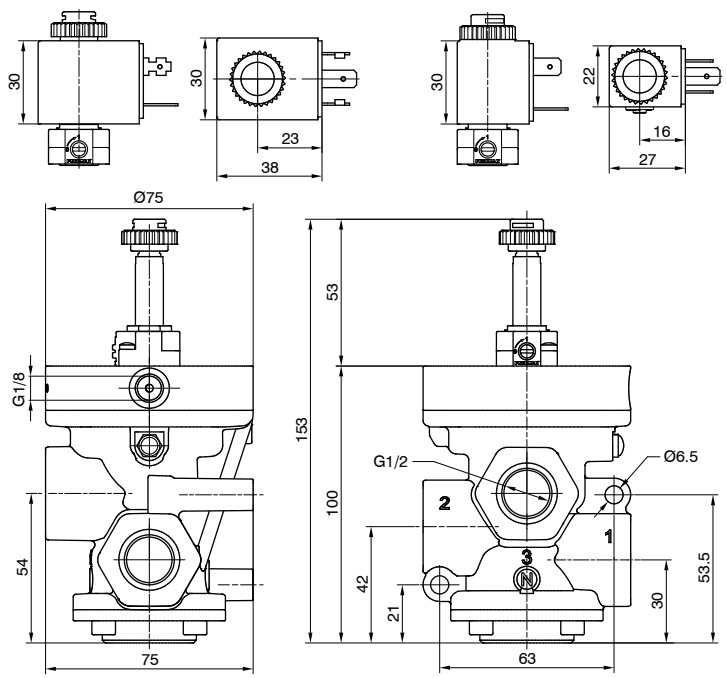
Weight 720,5 g

PG2A201(V)(F)(T)

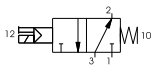
3/2

30 mm SOLENOID COIL
Connection: DIN 43650 "A" SHAPE

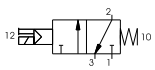
22 mm SOLENOID COIL
Connection: DIN 43650 INDUSTRIAL "B" SHAPE



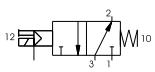
Internal pilot - N.O.
Inlet port 3
Outlet port 2
Outlet port 1



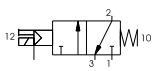
Internal pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



External pilot - N.O.
Inlet port 3
Outlet port 2
Outlet port 1



External pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



Weight 693,5 g

PG2A301(V)(F)(T)

AIR DISTRIBUTION

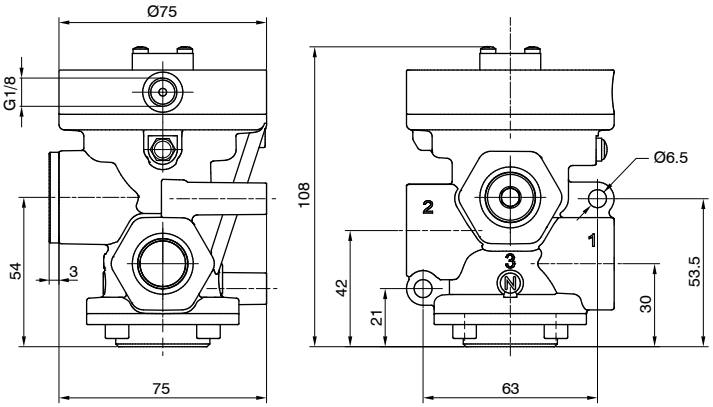
Pneumatic - Spring

Coding: PG2V(N)11E(F)00000

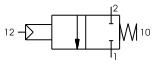
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +70
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"
Max. vacuum (mmHg)	758,5

(N)	WAYS NUMBER
	2 = 2 ways, 2 positions
	3 = 3 ways, 2 positions
(F)	FUNCTION
	A = Normally Open (only for 3 ways)
	C = Normally Closed

2/2



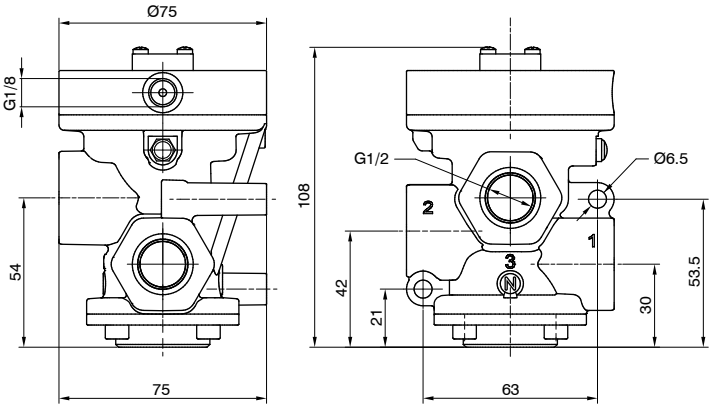
N.C.
Pump 1
Outlet port 2
Exhaust port 3 (closed)



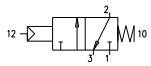
Weight 675,5 g

PG2V211E(F)00000

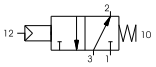
3/2



N.O.
Pump 3
Outlet port 2
Outlet port 1



N.C.
Pump 1
Outlet port 2
Exhaust port 3



Weight 648,5 g

PG2V311E(F)00000

AIR DISTRIBUTION

Solenoid-Spring

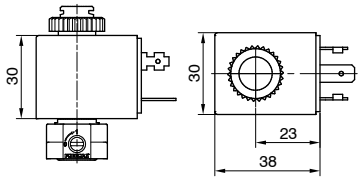
Coding: PG2V(N)01(V)(F)(T)

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2 (external pilot version)
Temperature °C	-5 ... +50
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"
Max. vacuum (mmHg)	758,5
Minimum operating vacuum (mmHg)	250 (internal pilot version)

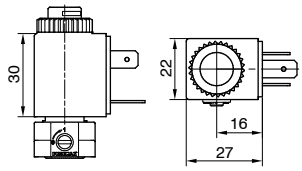
(N)	WAYS NUMBER
	2 = 2 ways, 2 positions
	3 = 3 ways, 2 positions
(V)	VERSION
	A = Self feeding
	E = External feeding
(F)	FUNCTION
	A = Normally Open (only for 3 ways)
	C = Normally Closed
(T)	VOLTAGE (22 MM SOLENOID COIL)
	S40B0 = 12 VDC
	S50B0 = 24 VDC
	S60B0 = 24 V 50/60 Hz
	S70B0 = 110 V 50/60 Hz
	S80B0 = 230 V 50/60 Hz
	10000 = Without solenoid coil
(T)	VOLTAGE (30 MM SOLENOID COIL)
	S40C0 = 12 VDC
	S50C0 = 24 VDC
	S60C0 = 24 V 50/60 Hz
	S70C0 = 110 V 50/60 Hz
	S80C0 = 230 V 50/60 Hz
	10000 = Without solenoid coil

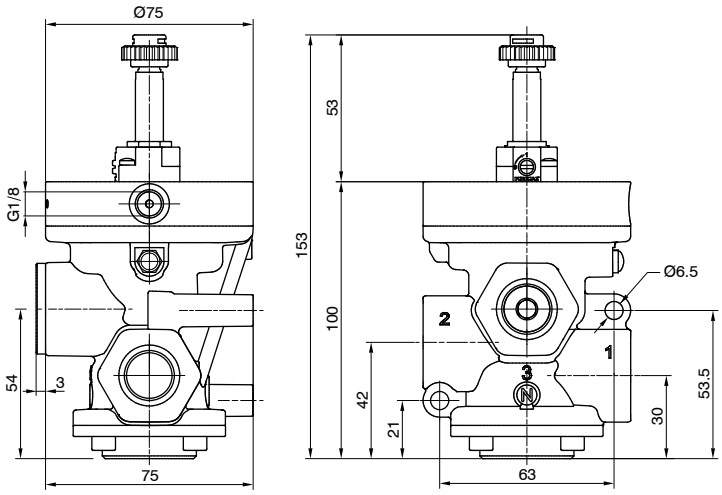
2/2

30 mm SOLENOID COIL
Connection: DIN 43650 "A" SHAPE



22 mm SOLENOID COIL
Connection: DIN 43650 INDUSTRIAL "B" SHAPE

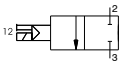




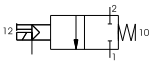
Weight 720,5 g

PG2V201(V)(F)(T)

Internal pilot - N.C.
Pump 3
Outlet port 2
Exhaust port 1 (closed)

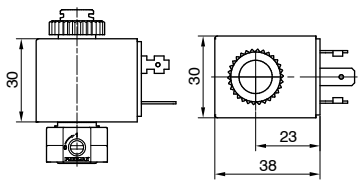


External pilot - N.C.
Pump 1
Outlet port 2
Exhaust port 3 (closed)

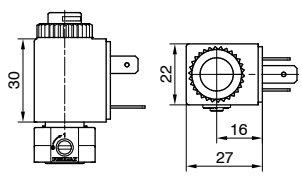


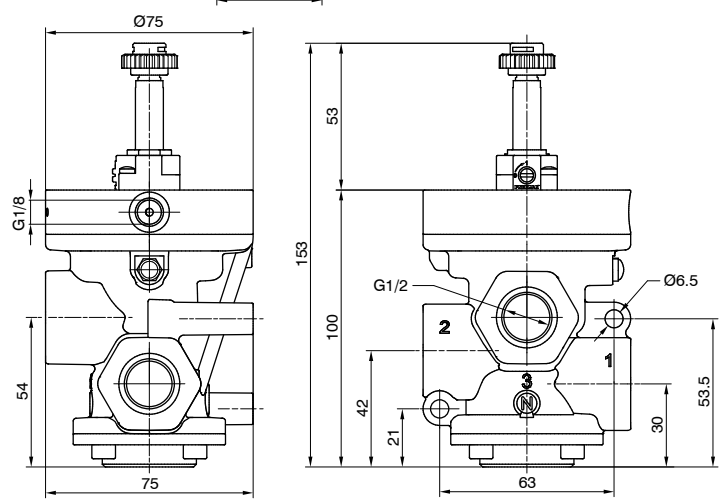
3/2

30 mm SOLENOID COIL
Connection: DIN 43650 "A" SHAPE



22 mm SOLENOID COIL
Connection: DIN 43650 INDUSTRIAL "B" SHAPE

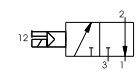




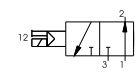
Weight 693,5 g

PG2V301(V)(F)(T)

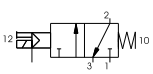
Internal pilot - N.O.
Pump 1
Outlet port 2
Exhaust port 3



Internal pilot - N.C.
Pump 3
Outlet port 2
Outlet port 1



External pilot - N.O.
Pump 3
Outlet port 2
Outlet port 1



External pilot - N.C.
Pump 1
Outlet port 2
Exhaust port 3