

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		Alumi	nium	
Actuators rod		Ste	eel	
Bottom plates		Alumi	nium	
Seals and poppets		NB	BR	
Springs		Stainles	ss steel	
Pin guide		Stainles	ss 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.



Pneumatic - Spring

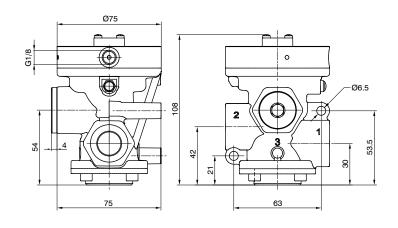
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Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2,5	
Temperature °C	-5 +70	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	6100	
Orifice size (mm)	20	
Working ports size	G3/4"	
Pilot porte size	G1/8"	

Coding: PG3A****11E****000000

0		WAYS NUMBER
		2 = 2 ways, 2 positions
-	3 = 3 ways, 2 positions	
		FUNCTION
1	9	A = Normally Open (only for 3 ways)
-	C = Normally Closed	
_		

2/2





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

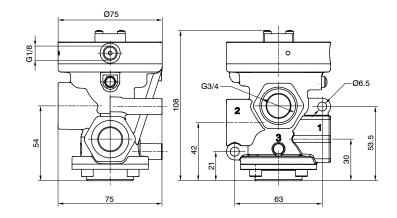
Weight 576,5 g

PG3A211E**G**00000

3/2







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

12 - M 10

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

12 - 2

Weight 522,5 g

PG3A311E**@**00000



Solenoid-Spring

Coding: PG3A\001\footnote{100}

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	11
Max working pressure (bar)	10][
Minimum piloting pressure (bar)	2,5][
Temperature °C	-5 +50	11
Flow rate at 6 bar with Δp=1 (NI/min)	6100	11
Orifice size (mm)	20][
Working ports size	G3/4"	11
Pilot ports size	G1/8"	11
Responce time according to ISO 12238, activation time (ms)	22 (internal pilot version)][
Responce time according to ISO 12238, deactivation time (ms)	81 (internal pilot version)]

0 2 = 2 ways, 2 positions 3 = 3 ways, 2 positions VERSION Ø A = Selffeeding $\mathbf{E} = \mathsf{External} \, \mathsf{feeding}$ **FUNCTION** $\mathbf{A} = \text{Normally Open (only for 3 ways)}$ $\mathbf{C} = \mathsf{Normally}\,\mathsf{Closed}$ VOLTAGE (22 MM SOLENOID COIL)

S40B0 = 12 VDC

WAYSNUMBER

2/2

22 mm SOLENOID COIL 30 mm SOLENOID COIL Connection: DIN 43650 "A" SHAPE Connection: DIN 43650 INDUSTRIAL "B" SHAPE • 16 23 HOH 38 Ø75

S50B0 = 24 VDC O **S60B0** = 24 V 50/60 Hz **S70B0** = 110 V 50/60 Hz **S80B0** = 230 V 50/60 Hz 10000 = Without solenoid coil VOLTAGE (30 MM SOLENOID COIL) **S40C0** = 12 VDC **S50C0** = 24 VDC **S60C0** = 24 V 50/60 Hz O S70C0 = 110 V 50/60 Hz **S80C0** = 230 V 50/60 Hz 10000 = Without solenoid coil



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Internal pilot - N.C.

Inlet port 1 Outlet port 2 Exhaust port 3 (closed)

-Ø6.5

53.5



External pilot - N.C.

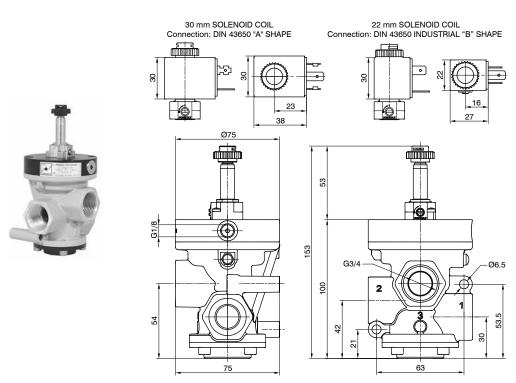
Outlet port 2 Exhaust port 3 (closed)



Weight 621,5 g

PG3A201**Ø@**

3/2



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 567,5 g

PG3A301**@@@**



Pneumatic - Spring

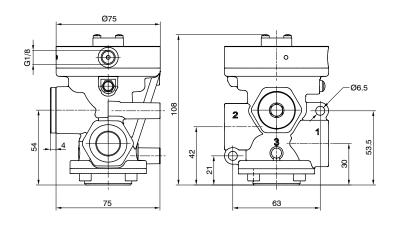
Coding: PG3\	/№ 11E (= 000000

Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2	
Temperature °C	-5 +70	
Orifice size (mm)	20	
Working ports size	G3/4"	
Pilot ports size	G1/8"	
Max. vacuum (mmHg)	758,5	

	WAYS NUMBER	
0	2 = 2 ways, 2 positions	
	3 = 3 ways, 2 positions	
	FUNCTION	
•	A = Normally Open (only for 3 ways)	
	C = Normally Closed	
	•	

2/2





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

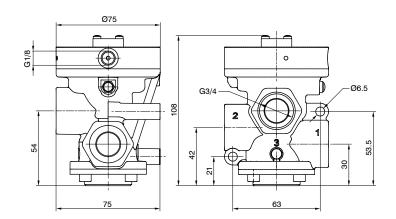
Weight 576,5 g

PG3V211E**6**00000

3/2







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



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

12 - 12

Weight 522,5 g

PG3V311E**@**00000

22 mm SOLENOID COIL

Connection: DIN 43650 INDUSTRIAL "B" SHAPE

•

63

16

-Ø6.5

53.5





Solenoid-Spring

Coding: PG3V001VD0

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2 (external pilot version)
Temperature °C	-5 +50
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"
Max. vacuum (mmHg)	758,5
Minimum operating vacuum (mmHg)	250 (internal pilot version)

30 mm SOLENOID COIL

Connection: DIN 43650 "A" SHAPE

WAYSNUMBER 2 = 2 ways, 2 positions 3 = 3 ways, 2 positions VERSION Ø A = Selffeeding $\mathbf{E} = \mathbf{E} \mathbf{x} \mathbf{t} \mathbf{e} \mathbf{r} \mathbf{n} \mathbf{a} \mathbf{l}$ **FUNCTION** $\mathbf{A} = \text{Normally Open (only for 3 ways)}$ $\mathbf{C} = \mathsf{Normally}\,\mathsf{Closed}$

VOLTAGE (22 MM SOLENOID COIL) **S40B0** = 12 VDC **S50B0** = 24 VDC

O **S60B0** = 24 V 50/60 Hz **S70B0** = 110 V 50/60 Hz **S80B0** = 230 V 50/60 Hz

10000 = Without solenoid coil VOLTAGE (30 MM SOLENOID COIL) **S40C0** = 12 VDC **S50C0** = 24 VDC

S60C0 = 24 V 50/60 Hz O S70C0 = 110 V 50/60 Hz

S80C0 = 230 V 50/60 Hz 10000 = Without solenoid coil



23 HOH 38 Ø75 က္က • 53 100 2 4 42

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

Exhaust port 1 (closed)



External pilot - N.C.

Outlet port 2 Exhaust port 3 (closed)

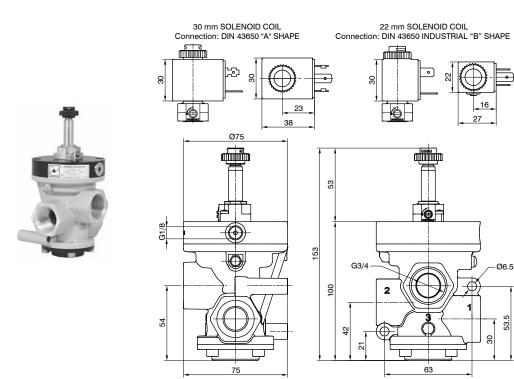


Weight 621,5 g

PG3V201**V90**

3/2

2/2



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

53.5

Weight 567,5 g

PG3V301**000**