



VALVES POPPET SYSTEM SERIES PG

HIGH FLOW RATES FOR COMPRESSED AIR AND VACUUM



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" - 1/2" NPT G 3/4" - 3/4" NPT G 1" - 1" NPT G 1 1/2" - 1 1/2" NPT Body, operator and end Aluminium cover 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.

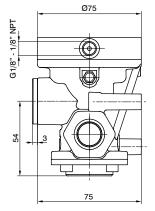


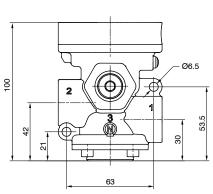
Coding: P@2A\11E\00000

Operational characteristics			CONNECTIONS
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	Θ	G = Gasthread
Max. working pressure (bar)	10		N = NPT thread
Minimum pilot pressure (bar)	2,5		WAYS NUMBER
Temperature °C	-5 +70	0	2 = 2 ways, 2 positions
Flow rate at 6 bar with Δp=1 (NI/min)	4800		3 = 3 ways, 2 positions
Orifice size (mm)	15		FUNCTION
Working ports size	G1/2" - 1/2" NPT	•	A = Normally Open (only for 3 ways)
Pilot ports size	G1/8" - 1/8" NPT		C = Normally Closed

2/2







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

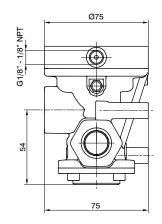
12 T

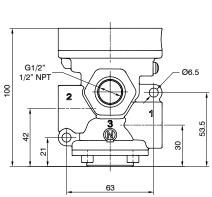
Weight 675 g

P@2A211E@00000

3/2







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

12 T 3 1

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

12 1 3 W

Weight 648,5 g

P**⊚**2A311E**©**00000

16

Ø6.5

22 mm SOLENOID COIL

Connection: DIN 43650 INDUSTRIAL "B" SHAPE

Ф

63

2

AIR DISTRIBUTION

Coding: P@2A\01\00001\000000000001

CONNECTIONS $\mathbf{G} = \mathsf{Gasthread}$

Solenoid-Spring

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

30 mm SOLENOID COIL

Connection: DIN 43650 "A" SHAPE

75

N = NPT thread WAYS NUMBER 0 2 = 2 ways, 2 positions 3 = 3 ways, 2 positions VERSION W $\mathbf{A} = \mathbf{Selffeeding}$ E = External feeding FUNCTION A = Normally Open (only for 3 ways) $\mathbf{C} = \text{Normally Closed}$

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

S50B0 = 24 VDC ø S60B0 = 24 V 50/60 Hz

 $\textbf{S70B0} = 110\,\text{V}\,50/60\,\text{Hz}$ **S80B0** = 230 V 50/60 Hz 10000 = Without solenoid coil VOLTAGE (30 MM SOLENOID COIL) **S40C0** = 12 VDC

S50C0 = 24 VDC $\textbf{S60C0} = 24\,\text{V}\,50/60\,\text{Hz}$ **S70C0** = 110 V 50/60 Hz

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

• 23 ₩ Ø75 aintiin A 53 G1/8" - 1/8" NPT HøF 53

9

42

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



External feeding - N.C. Outlet port 2 Exhaust port 3 (closed)

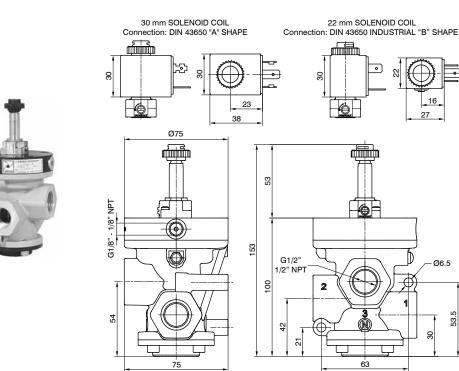


Weight 720,5 g

P@2A201**0@0**

3/2

2/2



Self feeding - N.O. Inlet port 3 Outlet port 2

Outlet port 1



Self feeding - N.C.

Inlet port 1 Outlet port 2 Exhaust port 3



External feeding - N.O.

Inlet port 3 Outlet port 2 Outlet port 1

53.5



External feeding - N.C. Inlet port 1

Outlet port 2 Exhaust port 3



Weight 693,5 g

P@2A301@@@



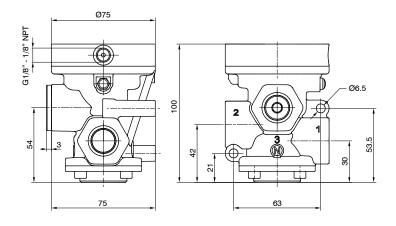
Coding: P@2V**\11**E**P**00000

Operational characteristics		
Fluid	Vacuum	⊕
Minimum pilot pressure (bar)	2	
Temperature °C	-5 +70	
Orifice size (mm)	15	
Working ports size	G1/2" - 1/2" NPT	
Pilot ports size	G1/8" - 1/8" NPT	
Max. vacuum (mmHg)	758,5	•

	CONNECTIONS	
G = Gas thread		
	N = NPT thread	
	WAYSNUMBER	
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)

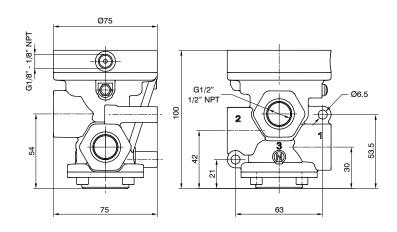
Weight 675,5 g

P@2V211E@00000

3/2







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

12 2 1 3 W

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

12 2 1 3 W

Weight 648,5 g

P**@**2V311E**₽**00000

AIR DISTRIBUTION

Coding: P@2V**0**01**000**

Solenoid-Spring

Operational characteristics		
Fluid	Vacuum	
Minimum pilot pressure (bar)	2 (external feeding version)	
Temperature °C	-5 +50	
Orifice size (mm)	15	
Working ports size	G1/2" - 1/2" NPT	
Pilot ports size	G1/8" - G1/8" NPT	
Max. vacuum (mmHg)	758,5	
Minimum operating vacuum (mmHg)	250 (selffeeding version)	

CONNECTIONS $\mathbf{G} = \mathsf{Gasthread}$ N = NPT thread WAYS NUMBER 0 2 = 2 ways, 2 positions 3 = 3 ways, 2 positions VERSION $\mathbf{A} = \mathbf{Selffeeding}$ E = External feeding

FUNCTION

A = Normally Open (only for 3 ways) C = Normally Closed VOLTAGE (22 MM SOLENOID COIL) **S40B0** = 12 VDC

S50B0 = 24 VDC S60B0 = 24 V 50/60 Hz

ø $\textbf{S70B0} = 110\,\text{V}\,50/60\,\text{Hz}$ **S80B0** = 230 V 50/60 Hz 10000 = Without solenoid coil VOLTAGE (30 MM SOLENOID COIL)

S40C0 = 12 VDC S50C0 = 24 VDC $\textbf{S60C0} = 24\,\text{V}\,50/60\,\text{Hz}$

S70C0 = 110 V 50/60 Hz **S80C0** = 230 V 50/60 Hz

10000 = Without solenoid coil

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



Outlet port 2 Exhaust port 3 (closed)

2/2

30 mm SOLENOID COIL 22 mm SOLENOID COIL Connection: DIN 43650 "A" SHAPE Connection: DIN 43650 INDUSTRIAL "B" SHAPE • 16 23 ₩ Ø75 aintiin A 53 G1/8" - 1/8" NPT Høf 53 Ø6.5 Ф 9 2

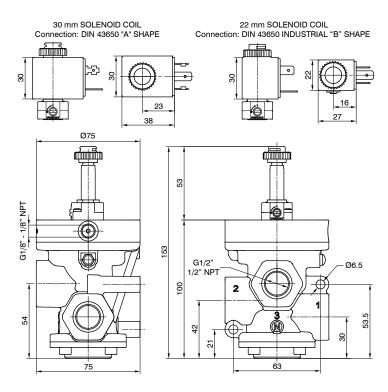
75

Weight 720,5 g

3/2

P@2V201**V@0**





63

Self feeding - N.O.

Pump 1 Outlet port 2 Exhaust port 3



Self feeding - N.C.

Pump 3 Outlet port 2 Outlet port 1



External feeding - N.O.

Pump 3 Outlet port 2 Outlet port 1



External feeding - N.C. Pump 1

Outlet port 2 Exhaust port 3



Weight 693,5 g

P@2V301**000**

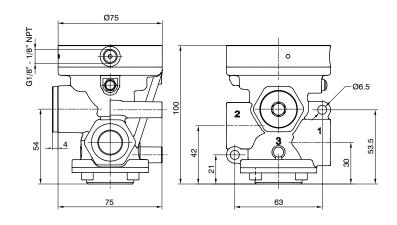


Coding: P●3A**●**11E**●**00000

Operational characteristics			CONNECTIONS
Fluid	Fluid Filtered air. No lubrication needed, if applied it shall be continuous		G = Gasthread
Max. working pressure (bar)	10		N = NPT thread
Minimum pilot pressure (bar)	2,5		WAYS NUMBER
Temperature °C	-5 +70	0	2 = 2 ways, 2 positions
Flow rate at 6 bar with Δp=1 (NI/min)	6100		3 = 3 ways, 2 positions
Orifice size (mm)	20		FUNCTION
Working ports size	G3/4" - 3/4" NPT	•	A = Normally Open (only for 3 ways)
Pilot ports size	G1/8" - 1/8" NPT		C = Normally Closed

2/2



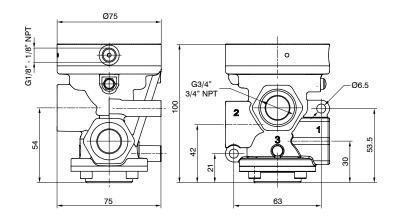


N.C. Inlet port 1 Outlet port 2 Exhaust port 3 (closed)

Weight 576,5 g

P@3A211E@00000





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

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

Weight 522,5 g

P**⊚**3A311E**ଢ**00000

Solenoid-Spring

Operational characteristics Filtered air. No lubrication needed, if applied it shall be continuous Fluid Max. working pressure (bar) Minimum pilot pressure (bar) 2,5 Temperature °C -5 ... +50 Flow rate at 6 bar with $\Delta p=1$ (NI/min) 6100 Orifice size (mm) 20 G3/4" - 3/4" NPT Working ports size Pilot ports size G1/8" - 1/8" NPT Responce time according to ISO 12238, activation time (ms) 22 (selffeeding version) Responce time according to ISO 12238, deactivation time (ms) 81 (selffeeding version)

30 mm SOLENOID COIL

Connection: DIN 43650 "A" SHAPE

CONNECTIONS $\mathbf{G} = \mathsf{Gasthread}$ N = NPT thread WAYS NUMBER

0

3 = 3 ways, 2 positions VERSION V $\mathbf{A} = \mathbf{Selffeeding}$ E = External feeding FUNCTION

2 = 2 ways, 2 positions

Coding: P@3A\001\00000

• A = Normally Open (only for 3 ways) C = Normally Closed VOLTAGE (22 MM SOLENOID COIL) **S40B0** = 12 VDC

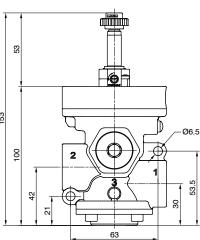
S50B0 = 24 VDC S60B0 = 24 V 50/60 Hz

Ū **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 $\textbf{S60C0} = 24\,\text{V}\,50/60\,\text{Hz}$ **S70C0** = 110 V 50/60 Hz

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

23 +38 Ø75 က္က G1/8" - 1/8" NPT 53 8 2 7 42



22 mm SOLENOID COIL

Connection: DIN 43650 INDUSTRIAL "B" SHAPE

•

16

16

Ø6.5

53.5

27

Self feeding - N.C.

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



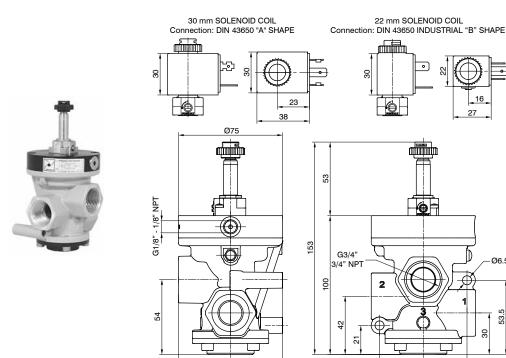
External feeding - N.C. Outlet port 2 Exhaust port 3 (closed)

Weight 621,5 g

P@3A201**0@**0

3/2

2/2



Self feeding - N.O. Inlet port 3 Outlet port 2 Outlet port 1



Self feeding - N.C.

Inlet port 1 Outlet port 2 Exhaust port 3



External feeding - N.O.

Inlet port 3 Outlet port 2 Outlet port 1



External feeding - N.C.

Inlet port 1 Outlet port 2 Exhaust port 3



Weight 567,5 g

P@3A301@@@



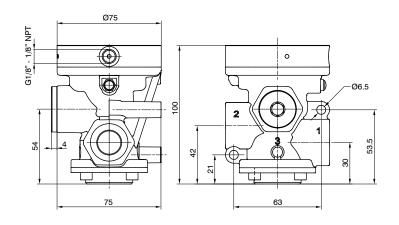
Coding:	P G 3V	MIIF	00000

Operational characteristics		
Fluid	Vacuum	
Minimum pilot pressure (bar)	2	
Temperature °C	-5 +70	
Orifice size (mm)	20	
Working ports size	G3/4" - 3/4" NPT	
Pilot ports size	G1/8" - 1/8" NPT	
Max. vacuum (mmHg)	758,5	

		CONNECTIONS
11	Θ	G = Gasthread
11		N = NPT thread
1[WAYSNUMBER
11	2 = 2 ways, 2 positions	
3 = 3 ways, 2 position		3 = 3 ways, 2 positions
		FUNCTION
IJ	A = Normally Open (only for 3 ways)	
		C = Normally Closed

2/2





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

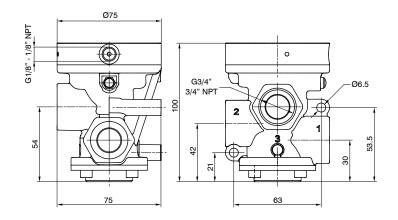
Weight 576,5 g

P**G**3V211E**G**00000

3/2







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

12 T T 3

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

12 2 1 3 W

Weight 522,5 g

P**⊚**3V311E**●**00000

22 mm SOLENOID COIL

Connection: DIN 43650 INDUSTRIAL "B" SHAPE

AIR DISTRIBUTION

Solenoid-Spring

Coding: P@3V\001\000

Operational characteristics		
Fluid	Vacuum	
Minimum pilot pressure (bar)	2 (external feeding version)	
Temperature °C -5 +50		
Orifice size (mm)	20	
Working ports size	G3/4" - 3/4" NPT	
Pilot ports size	G1/8" - 1/8" NPT	
Max. vacuum (mmHg) 758,5		
Minimum operating vacuum (mmHg) 250 (self feeding version)		

30 mm SOLENOID COIL

Connection: DIN 43650 "A" SHAPE

CONNECTIONS $\mathbf{G} = \mathsf{Gasthread}$ N = NPT thread WAYS NUMBER 0 2 = 2 ways, 2 positions 3 = 3 ways, 2 positions VERSION $\mathbf{A} = \mathbf{Selffeeding}$ E = External feeding FUNCTION

2/2

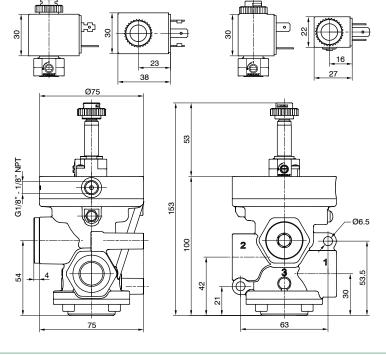
A = Normally Open (only for 3 ways) C = Normally Closed VOLTAGE (22 MM SOLENOID COIL) **S40B0** = 12 VDC **S50B0** = 24 VDC ø S60B0 = 24 V 50/60 Hz $\textbf{S70B0} = 110\,\text{V}\,50/60\,\text{Hz}$ **S80B0** = 230 V 50/60 Hz 10000 = Without solenoid coil VOLTAGE (30 MM SOLENOID COIL) **S40C0** = 12 VDC S50C0 = 24 VDC $\textbf{S60C0} = 24\,\text{V}\,50/60\,\text{Hz}$ **S70C0** = 110 V 50/60 Hz

S80C0 = 230 V 50/60 Hz

10000 = Without solenoid coil



P@3V201**0@**0



Self feeding - N.C.

Pump 3 Outlet port 2 Exhaust port 1 (closed)



External feeding - N.C.

Outlet port 2 Exhaust port 3 (closed)

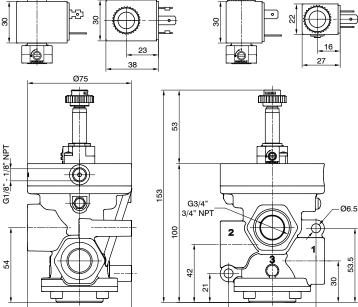


3/2

Weight 621,5 g



30 mm SOLENOID COIL 22 mm SOLENOID COIL Connection: DIN 43650 INDUSTRIAL "B" SHAPE Connection: DIN 43650 "A" SHAPE 30 16 23 27 38 Ø75



Self feeding - N.O.

Pump 1 Outlet port 2 Exhaust port 3



Self feeding - N.C.

Pump 3 Outlet port 2 Outlet port 1



External feeding - N.O.

Pump 3 Outlet port 2 Outlet port 1



External feeding - N.C.

Pump 1 Outlet port 2 Exhaust port 3

Weight 567,5 g

P@3V301**0@**

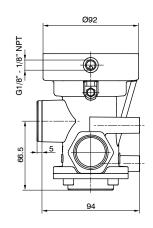


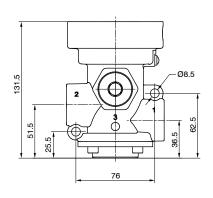
Coding: P@1A****11E****00000

Operational characteristics			CONNECTIONS
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	□	G = Gas thread
Max. working pressure (bar)	10		N = NPT thread
Minimum pilot pressure (bar)	2,5		WAYSNUMBER
Temperature °C	-5 +70	□ Ø	2 = 2 ways, 2 positions
Flow rate at 6 bar with Δp=1 (NI/min)	12500		3 = 3 ways, 2 positions
Orifice size (mm)	25		FUNCTION
Working ports size	G1" - 1"NPT		A = Normally Open (only for 3 ways)
Pilot ports size	G1/8" - 1/8" NPT		C = Normally Closed

2/2







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

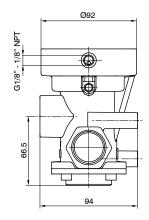
12 V

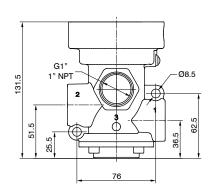
Weight 1231,5 g

P@1A211E@00000

3/2







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

12 T 3 1 1

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

-12 - 1 3 W

Weight 1139,5 g

P**@**1A311E**⊕**00000

Solenoid-Spring

Operational characteristics Fluid Filtered air. No lubrication needed, if applied it shall be continuous Max. working pressure (bar) Minimum pilot pressure (bar) 2,5 Temperature °C -5 ... +50 Flow rate at 6 bar with $\Delta p=1$ (NI/min) 12500 Orifice size (mm) 25 G1" - 1" NPT Working ports size Pilot ports size G1/8" - 1/8" NPT Responce time according to ISO 12238, activation time (ms)

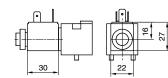
30

Responce time according to ISO 12238, deactivation time (ms) 2/2

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

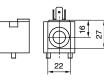
30

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



27 (selffeeding version)

88 (selffeeding version)



E = External feeding FUNCTION • A = Normally Open (only for 3 ways) C = Normally Closed VOLTAGE (22 MM SOLENOID COIL) **S40B0** = 12 VDC **S50B0** = 24 VDC S60B0 = 24 V 50/60 Hz $\textbf{S70B0} = 110\,\text{V}\,50/60\,\text{Hz}$ **S80B0** = 230 V 50/60 Hz 10000 = Without solenoid coil VOLTAGE (30 MM SOLENOID COIL) **S40C0** = 12 VDC S50C0 = 24 VDC $\textbf{S60C0} = 24\,\text{V}\,50/60\,\text{Hz}$ **S70C0** = 110 V 50/60 Hz **S80C0** = 230 V 50/60 Hz 10000 = Without solenoid coil

AIR DISTRIBUTION

Coding: P@1A@01**000**

CONNECTIONS $\mathbf{G} = \mathsf{Gasthread}$

N = NPT thread

WAYS NUMBER

 $\mathbf{A} = \mathbf{Selffeeding}$

VERSION

2 = 2 ways, 2 positions

3 = 3 ways, 2 positions

0

V



Ø92 30 G1/8" - 1/8" NPT 66.5 94

Ø8.5 131.5 62.5 51.5 25.5 76

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



External feeding - N.C. Outlet port 2 Exhaust port 3 (closed)

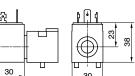


Weight 1290 g

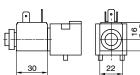
P@1A201**Ø@**

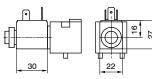
3/2

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



30





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

> Self feeding - N.O. Inlet port 3 Outlet port 2 Outlet port 1









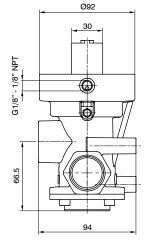
External feeding - N.O. Inlet port 3 Outlet port 2 Outlet port 1

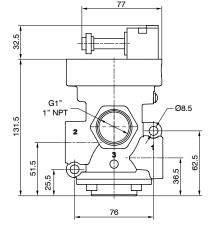


External feeding - N.C. Inlet port 1 Outlet port 2 Exhaust port 3









Weight 1198 g

P@1A301@@@



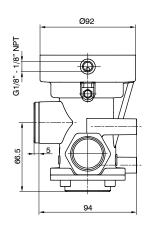
Coding: P@1V****11E**(**00000

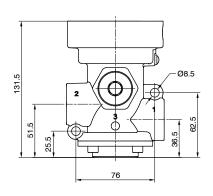
Operational characteristics		
Fluid	Vacuum	
Minimum pilot pressure (bar)	2	
Temperature °C	-5 +70	
Orifice size (mm)	25	
Working ports size	G1" - 1" NPT	
Pilot ports size	G1/8" - 1/8" NPT	
Max. vacuum (mmHg)	758,5	

П		CONNECTIONS
1	Θ	G = Gasthread
1		N = NPT thread
		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)

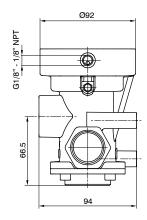
12 D

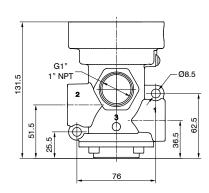
Weight 1231,5 g

P@1V211E@00000

3/2







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

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

12 2 1 3 W

Weight 1139,5 g

P**⊚**1V311E**⊕**00000

AIR DISTRIBUTION

Solenoid-Spring

Minimum operating vacuum (mmHg)

Max. vacuum (mmHg)

Fluid

2/2

Vacuum Minimum pilot pressure (bar) 2 (external feeding version) Temperature °C -5 ... +50 Orifice size (mm) Working ports size G1" - 1" NPT G1/8" - 1/8" NPT Pilot ports size

30

Coding: P@1V001000

	CONNECTIONS
•	G = Gasthread
	N = NPT thread
	WAYS NUMBER
0	2 = 2 ways, 2 positions
	3 = 3 ways, 2 positions
	VERSION
V	A = Selffeeding
	E = External feeding
	FUNCTION
A	A - Normally Open (eply for 2 years)

A = Normally Open (only for 3 ways) $\mathbf{C} = \text{Normally Closed}$ VOLTAGE (22 MM SOLENOID COIL)

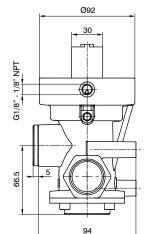
S40B0 = 12 VDC **S50B0** = 24 VDC

S60B0 = 24 V 50/60 Hz $\textbf{S70B0} = 110\,\text{V}\,50/60\,\text{Hz}$ **S80B0** = 230 V 50/60 Hz 10000 = Without solenoid coil

VOLTAGE (30 MM SOLENOID COIL) **S40C0** = 12 VDC S50C0 = 24 VDC

 $\textbf{S60C0} = 24\,\text{V}\,50/60\,\text{Hz}$ **S70C0** = 110 V 50/60 Hz **S80C0** = 230 V 50/60 Hz

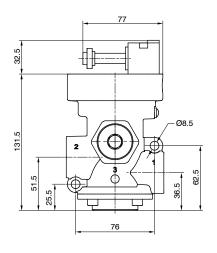
10000 = Without solenoid coil



30

30 mm SOLENOID COIL

Connection: DIN 43650 "A" SHAPE



758.5 250 (self feeding version)

22 mm SOLENOID COIL

Connection: DIN 43650 INDUSTRIAL "B" SHAPE

Self feeding - N.C.

Pump 3 Outlet port 2 Exhaust port 1 (closed)



External feeding - N.C. Outlet port 2 Exhaust port 3 (closed)

Weight 1290 g

P@1V201**000**

3/2

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

Ø92

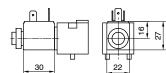
30

30

30

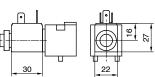
G1/8" - 1/8" NPT

66.5



76

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



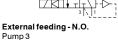


Self feeding - N.O. Pump 1









Pump 3 Outlet port 2 Outlet port 1

Exhaust port 3

Ø8.5

62.5



External feeding - N.C. Pump 1 Outlet port 2







Weight 1198 g

131.5

51.5 25.5

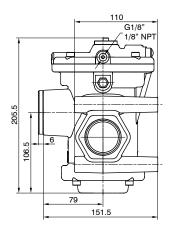


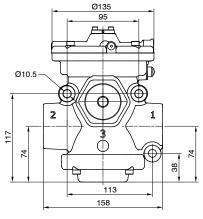
	Cod	ing: P ⊚ 6A ℚ 11E ଢ 00000
		CONNECTIONS
nuous	Θ	G = Gas thread
		N = NPT thread
		WAYSNUMBER
	0	2 = 2 ways, 2 positions
		3 = 3 ways, 2 positions

Operational characteristics			CONNECTIONS
Fluid Filtered air. No lubrication needed, if applied it shall be continuous		- ⊝	G = Gasthread
Max. working pressure (bar)	10		N = NPT thread
Minimum pilot pressure (bar)	3		WAYSNUMBER
Temperature °C	-5 +70	Ø	2 = 2 ways, 2 positions
Flow rate at 6 bar with Δp=1 (NI/min)	33500		3 = 3 ways, 2 positions
Orifice size (mm)	38		FUNCTION
Working ports size	G1 1/2" - 1 1/2" NPT	9	A = Normally Open (only for 3 ways)
Pilot ports size	G1/8" - 1/8" NPT		C = Normally Closed

2/2







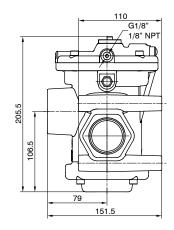
N.C. Inlet port 1
Outlet port 2
Exhaust port 3 (closed)

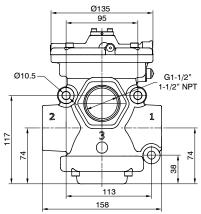
Weight 3417 g

P@6A211E@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 3168 g

P@6A311E@00000



Solenoid-Spring

Operational characteristics Fluid Filtered air. No lubrication needed, if applied it shall be continuous Max. working pressure (bar) 10 Minimum pilot pressure (bar) Temperature °C -5 ... +50 Flow rate at 6 bar with $\Delta p=1$ (NI/min) 33500 Orifice size (mm) 38 G1 1/2" - 1 1/2" NPT Working ports size Pilot ports size G1/8" - 1/8" NPT Responce time according to ISO 12238, activation time (ms) 182 (selffeeding version) Responce time according to ISO 12238, deactivation time (ms) 78 (self feeding version)

Coding: P**©**6A**0**01**00**0

CONNECTIONS

G = Gas thread

N = NPT thread

WAYS NUMBER

2 = 2 ways, 2 positions

3 = 3 ways, 2 positions

VERSION

A = Self feeding

E = External feeding

FUNCTION

A = Normally Open (only for 3 ways)

C = Normally Closed

C = Normally Closed

VOLTAGE (22 MM SOLENOID COIL)

S40B0 = 12 VDC

S40B0 = 12 VDC S50B0 = 24 VDC S60B0 = 24 V50/60 Hz

\$70B0 = 110 V 50/60 Hz \$80B0 = 230 V 50/60 Hz 10000 = Without solenoid coil VOLTAGE (30 MM SOLENOID COIL)

| VOLTAGE (30 MM SOLENOID COIL) | S40C0 = 12 VDC | S50C0 = 24 VDC

\$60C0 = 24 V 50/60 Hz \$70C0 = 110 V 50/60 Hz

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

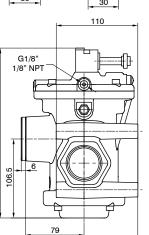
2/2



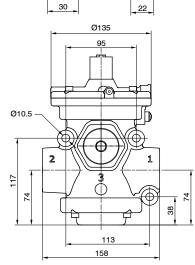
30 8

30 mm SOLENOID COIL

Connection: DIN 43650 "A" SHAPE



229



22 mm SOLENOID COIL

Connection: DIN 43650 INDUSTRIAL "B" SHAPE

Self feeding - N.C.

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



External feeding - N.C. Inlet port 1

Outlet port 2 Exhaust port 3 (closed)



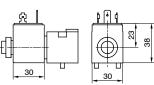
Weight 3491,5 g

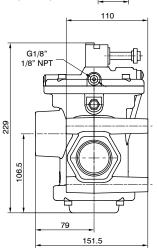
P@6A201**0@**

3/2

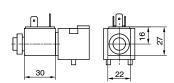
30 mm SOLENOID COIL Connection: DIN 43650 "A" SHAPE

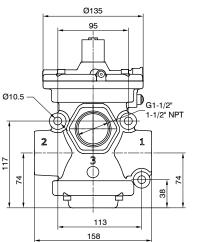
151.5





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





Self feeding - N.O. Inlet port 3 Outlet port 2 Outlet port 1



Self feeding - N.C.

Inlet port 1
Outlet port 2
Exhaust port 3



External feeding - N.O.

Inlet port 3 Outlet port 2 Outlet port 1



External feeding - N.C. Inlet port 1

Inlet port 1 Outlet port 2 Exhaust port 3



Weight 3242,5 g

P**@**6A301**00**



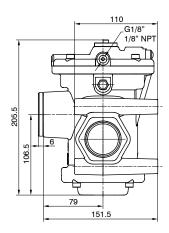
onal characteristics	
Vacuum	□ ⊙
2	
-5 +70	
38	
G1 1/2" - 1 1/2" NPT	
G1/8" - 1/8" NPT	
758,5	
	Vacuum 2 -5+70 38 G1 1/2"-1 1/2" NPT G1/8"-1/8" NPT

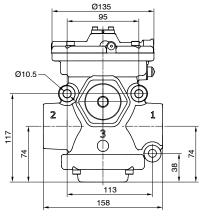
Coding: P@6V**\11**E**P**00000

		CONNECTIONS
1	Θ	G = Gasthread
1		N = NPT thread
		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)

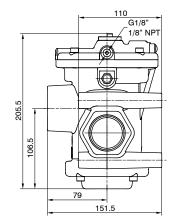
12 V

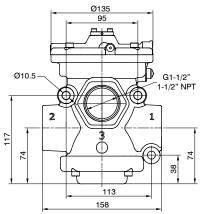
Weight 3417 g

P@6V211E@00000

3/2







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

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

12 2 1 3 W

Weight 3168 g

P@6V311E@00000

AIR DISTRIBUTION

Solenoid-Spring

Minimum operating vacuum (mmHg)

Max. vacuum (mmHg)

Vacuum Minimum pilot pressure (bar) 2 (external feeding version) Temperature °C -5 ... +50 Orifice size (mm) 38 Working ports size G1 1/2" - 1 1/2" NPT G1/8" - 1/8" NPT Pilot ports size

Coding: P@6V**0**01**000**

	CONNECTIONS
•	G = Gasthread
	N = NPT thread
	WAYSNUMBER
0	2 = 2 ways, 2 positions
	3 = 3 ways, 2 positions
	VERSION
V	A = Selffeeding
	E = External feeding

A = Normally Open (only for 3 ways) C = Normally Closed

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

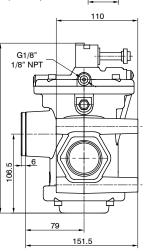
FUNCTION **S50B0** = 24 VDC S60B0 = 24 V 50/60 Hz $\textbf{S70B0} = 110\,\text{V}\,50/60\,\text{Hz}$ **S80B0** = 230 V 50/60 Hz 10000 = Without solenoid coil VOLTAGE (30 MM SOLENOID COIL) **S40C0** = 12 VDC S50C0 = 24 VDC $\textbf{S60C0} = 24\,\text{V}\,50/60\,\text{Hz}$ **S70C0** = 110 V 50/60 Hz **S80C0** = 230 V 50/60 Hz 10000 = Without solenoid coil

2/2

Fluid



30 30 G1/8" 1/8" NPT 229



30 mm SOLENOID COIL

Connection: DIN 43650 "A" SHAPE

758.5

250 (self feeding version)

30

22 mm SOLENOID COIL

Connection: DIN 43650 INDUSTRIAL "B" SHAPE

Self feeding - N.C.

Pump 3 Outlet port 2 Exhaust port 1 (closed)



External feeding - N.C.

Outlet port 2 Exhaust port 3 (closed)



Weight 3491,5 g

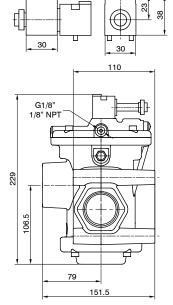
P**6**6V201**V3**

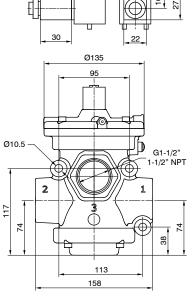
3/2

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

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







Self feeding - N.O. Pump 1 Outlet port 2 Exhaust port 3



Self feeding - N.C.

Pump 3 Outlet port 2 Outlet port 1



External feeding - N.O.

Pump 3 Outlet port 2 Outlet port 1



External feeding - N.C. Pump 1

Outlet port 2 Exhaust port 3



Weight 3242,5 g

P@6V301**@@@**



PNEUMAX S.p.A.

Via Cascina Barbellina, 10 24050 Lurano (BG) - Italy P. +39 035 41 92 777 info@pneumaxspa.com