



Valves and solenoid valves poppet system Series PG

Valves and solenoid valves poppet system for vacuum applications with high flow rates.



They are manufactured in 3/2 and 2/2 versions, both normally closed and normally open. There is an additional seal on the piston which isolates connection 3 from the piloting, allowing the normally open and vacuum self-powered versions (not

available in the previous series for sizes G1/2" – G3/4" – G1") Body and operators are made of die-cast aluminium and processed with protective epoxy paint.

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 cover	Aluminium			
Actuators rod	Steel			
Bottom plates	Aluminium			
Seals and poppets	NBR			
Springs	Stainless steel			
Pin guide	Stainless steel			
Pistons	Acetal Resin			

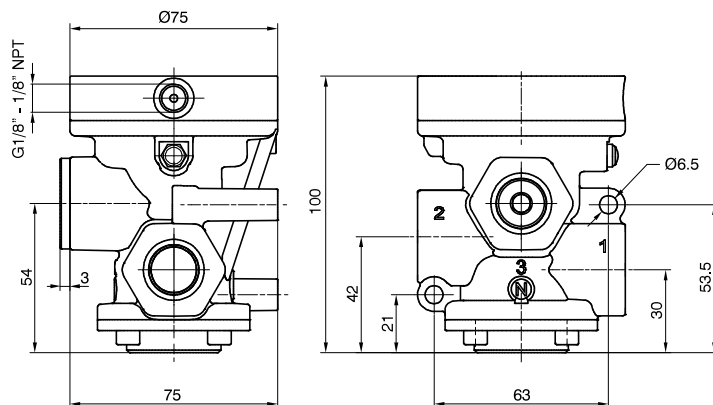
These valves have a mean life of 10 to 15 million cycles under normal operating conditions. Lubrication is not required for good operation but we recommend good filtration to avoid dirty deposit causing malfunction. Please ensure that the valve is being used according with the manufacturers specification, 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, inlet flow rate must be equal or higher that the required consumption flow rate. Otherwise is better choose the external pilot version.

Pneumatic - Spring

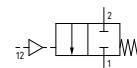
Operational characteristics	
Fluid	Vacuum
Minimum pilot pressure (bar)	2
Temperature °C	-5 ... +70
Orifice size (mm)	15
Working ports size	G1/2" - 1/2" NPT
Pilot ports size	G1/8" - 1/8" NPT
Max. vacuum (mmHg)	758,5

Ordering code	
PC2VN11E 00000	
C	CONNECTIONS
	G = Gas thread
	N = NPT thread
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



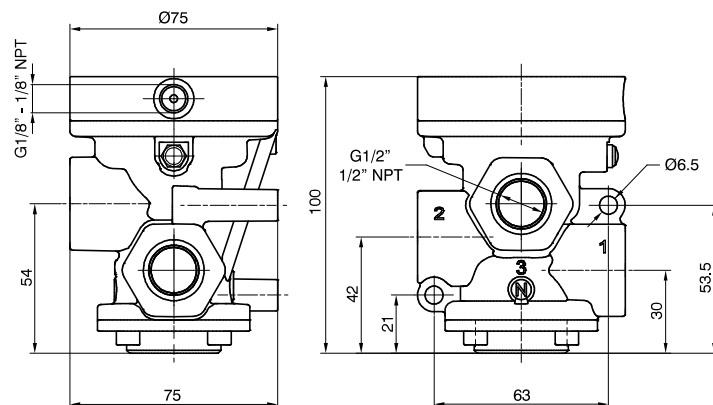
N.C.
Pump 1
Outlet port 2
Exhaust port 3 (closed)



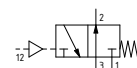
Weight 675,5 g

PC2V211E00000

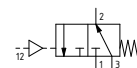
3/2



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



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



Weight 648,5 g

PC2V311E00000

Solenoid-Spring

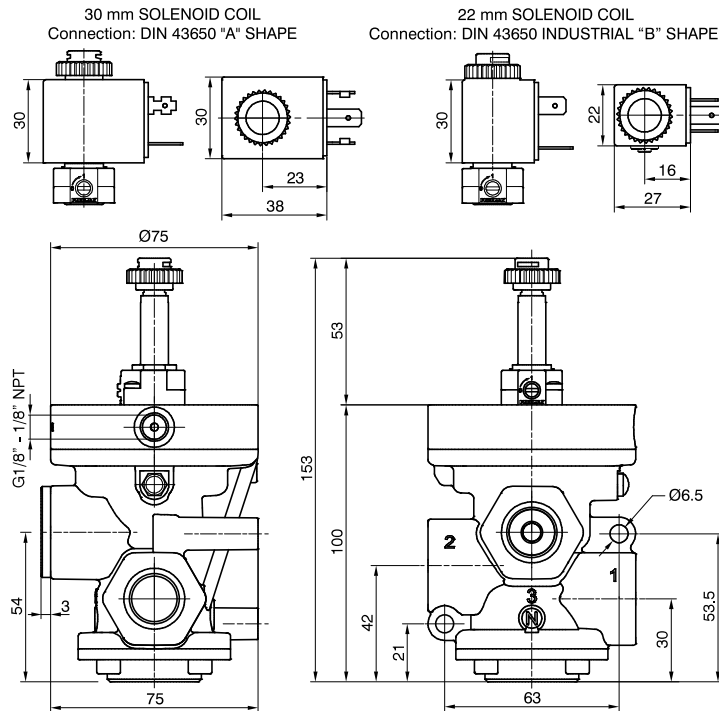
Operational characteristics	
Fluid	Vacuum
Minimum pilot pressure (bar)	2 (external feeding version)
Temperature °C	-5 ... +50
Orifice size (mm)	15
Working ports size	G1/2" - 1/2" NPT
Pilot ports size	G1/8" - G1/8" NPT
Max. vacuum (mmHg)	758,5
Minimum operating vacuum (mmHg)	250 (self feeding version)

2/2



Weight 720,5 g

PC2V201

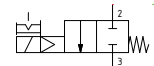


Ordering code

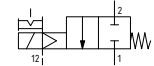
PC2V(N)01(V)F(T)

C	CONNECTIONS
	G = Gas thread N = NPT thread
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
	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

Self feeding - N.C.

Pump 3
Outlet port 2
Outlet port 1 (closed)


External feeding - N.C.

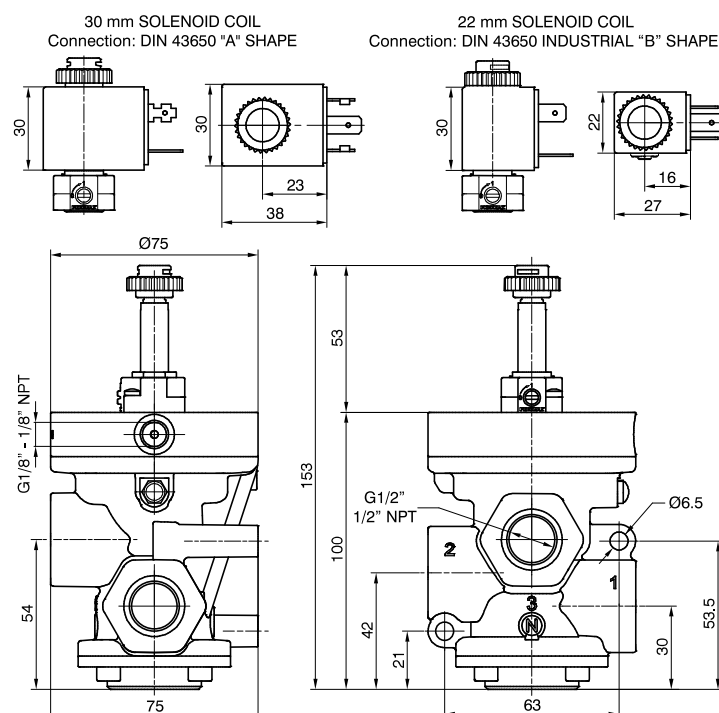
Pump 1
Outlet port 2
Exhaust port 3 (closed)


3/2

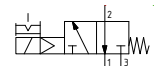


Weight 693,5 g

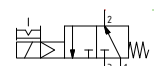
PC2V301



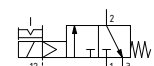
Self feeding - N.O.

Pump 1
Outlet port 2
Exhaust port 3


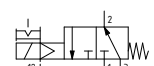
Self feeding - N.C.

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


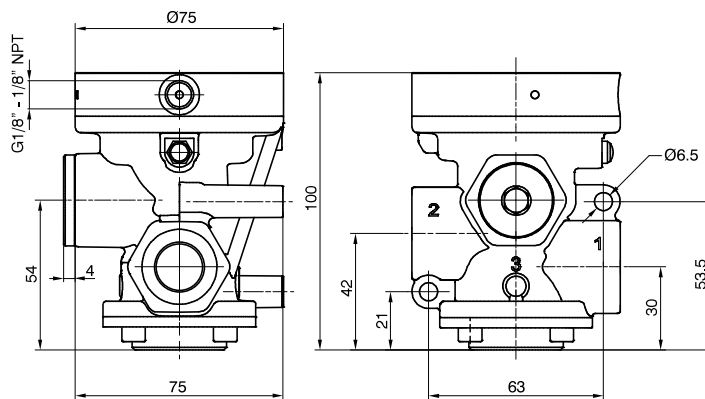


Pneumatic - Spring

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

Ordering code	
PC3V ^N 11E ^F 00000	
C	CONNECTIONS
	G = Gas thread N = NPT thread
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

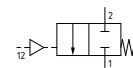
2/2



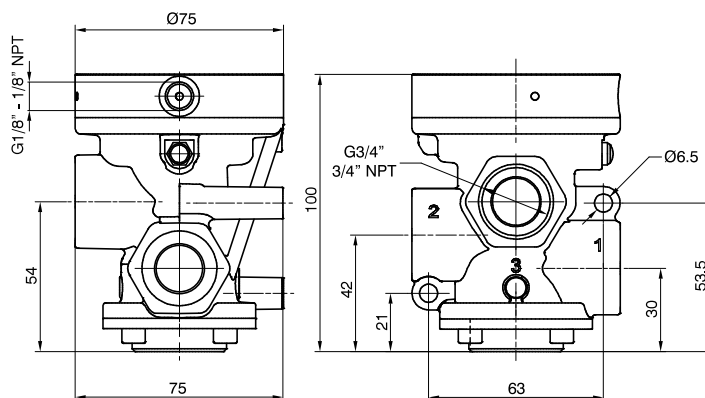
Weight 576,5 g

PC3V211E00000

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



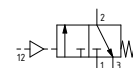
3/2



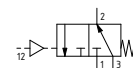
Weight 522,5 g

PC3V311E00000

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



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



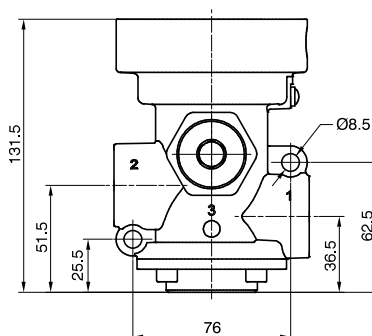
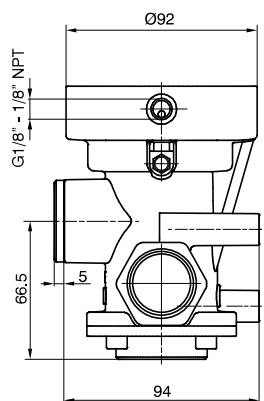


Pneumatic - Spring

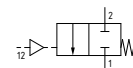
Operational characteristics	
Fluid	Vacuum
Minimum pilot pressure (bar)	2
Temperature °C	-5 ... +70
Orifice size (mm)	25
Working ports size	G1" - 1" NPT
Pilot ports size	G1/8" - 1/8" NPT
Max. vacuum (mmHg)	758,5

Ordering code	
PC1V N 11E F 00000	
C	CONNECTIONS
	G = Gas thread N = NPT thread
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



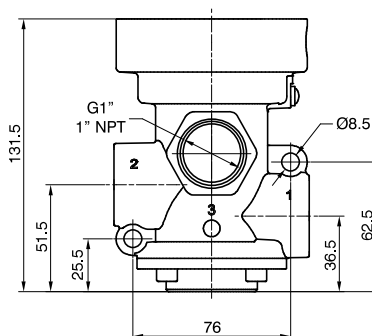
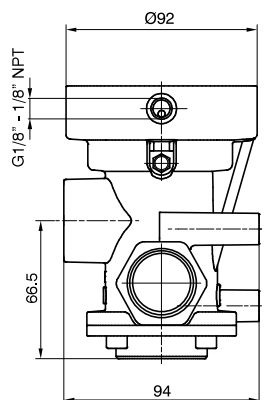
N.C.
Pump 1
Outlet port 2
Exhaust port 3 (closed)



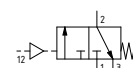
Weight 1231,5 g

PC1V211E00000

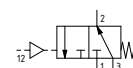
3/2



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



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



Weight 1139,5 g

PC1V311E00000

Solenoid-Spring

Operational characteristics	
Fluid	Vacuum
Minimum pilot pressure (bar)	2 (external feeding version)
Temperature °C	-5 ... +50
Orifice size (mm)	25
Working ports size	G1" - 1" NPT
Pilot ports size	G1/8" - 1/8" NPT
Max. vacuum (mmHg)	758,5
Minimum operating vacuum (mmHg)	250 (self feeding version)

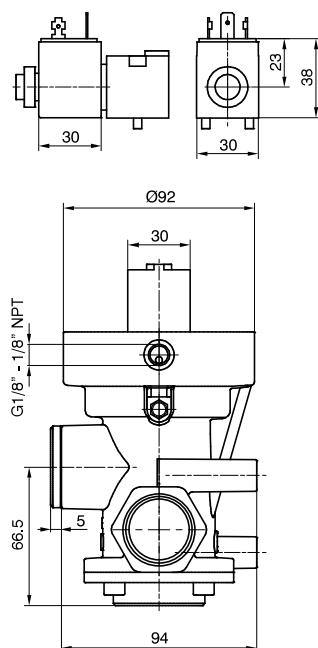
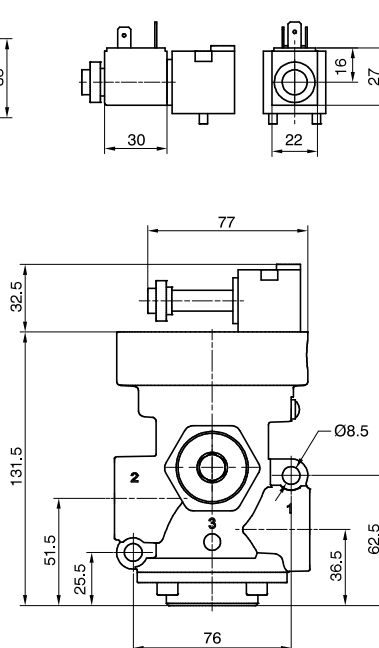
2/2



Weight 1290 g

PC1V201VFT

3/2

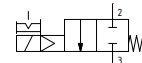
30 mm SOLENOID COIL
Connection: DIN 43650 "A" SHAPE

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


Ordering code

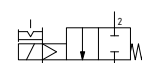
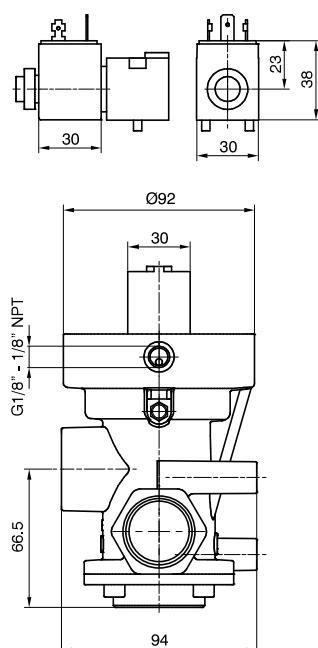
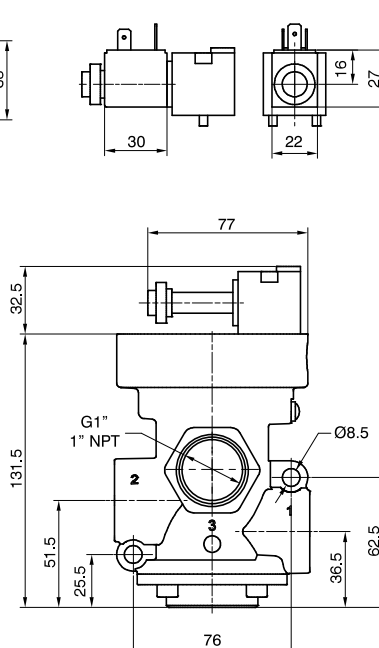
PC1V(N)01(V)FT

C	CONNECTIONS
	G = Gas thread N = NPT thread
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

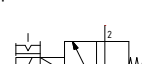
Self feeding - N.C.

Pump 3
Outlet port 2
Outlet port 1 (closed)


External feeding - N.C.

Pump 1
Outlet port 2
Exhaust port 3 (closed)

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

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


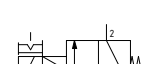
Self feeding - N.O.

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 1198 g

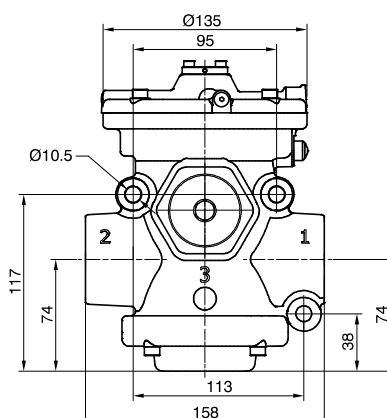
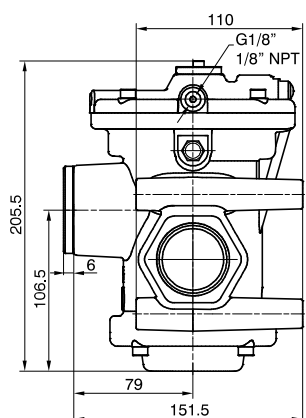
PC1V301VFT

Pneumatic - Spring

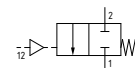
Operational characteristics	
Fluid	Vacuum
Minimum pilot pressure (bar)	2
Temperature °C	-5 ... +70
Orifice size (mm)	38
Working ports size	G1 1/2" - 1 1/2" NPT
Pilot ports size	G1/8" - 1/8" NPT
Max. vacuum (mmHg)	758,5

Ordering code	
PC6VN11E00000	
C	CONNECTIONS
	G = Gas thread
	N = NPT thread
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



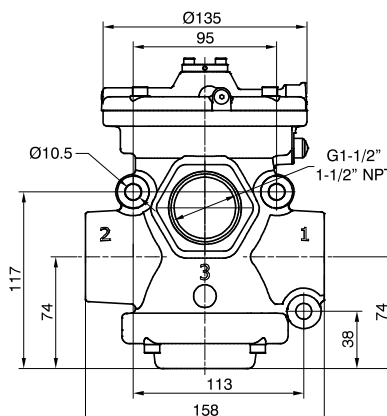
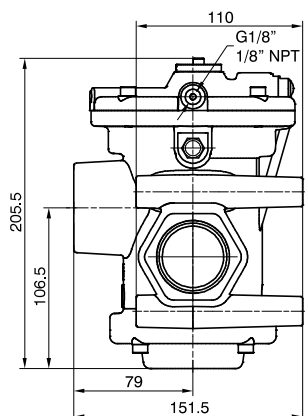
N.C.
Pump 1
Outlet port 2
Exhaust port 3 (closed)



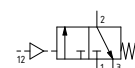
Weight 3417 g

PC6V211E00000

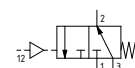
3/2



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



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



Weight 3168 g

PC6V311E00000

Solenoid-Spring

Operational characteristics	
Fluid	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
Pilot ports size	G1/8" - 1/8" NPT
Max. vacuum (mmHg)	758,5
Minimum operating vacuum (mmHg)	250 (self feeding version)

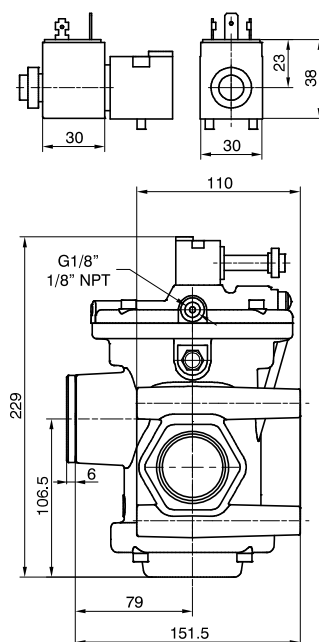
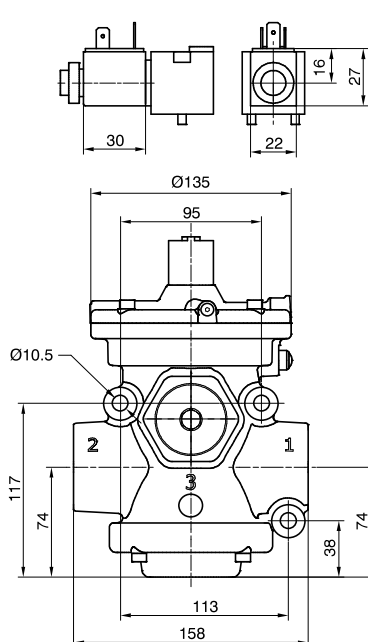
2/2



Weight 3491,5 g

PC6V201

3/2

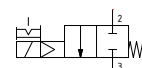
30 mm SOLENOID COIL
Connection: DIN 43650 "A" SHAPE

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


Ordering code

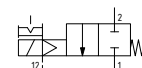
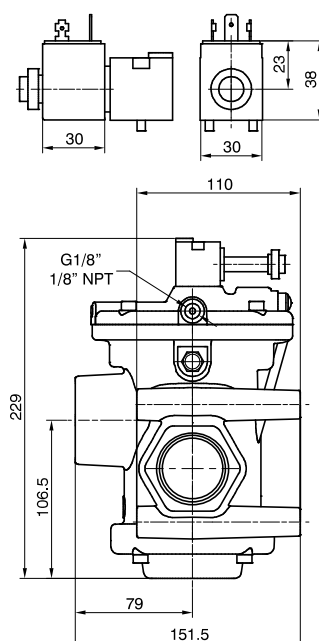
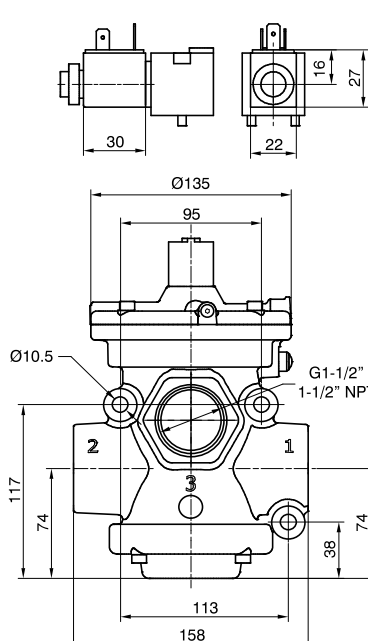
PC6V(N)01(V)F(T)

C	CONNECTIONS
	G = Gas thread N = NPT thread
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
	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

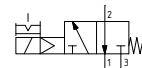
Self feeding - N.C.

Pump 3
Outlet port 2
Outlet port 1 (closed)


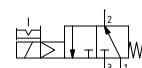
External feeding - N.C.

Pump 1
Outlet port 2
Exhaust port 3 (closed)

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

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


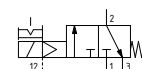
Self feeding - N.O.

Pump 1
Outlet port 2
Exhaust port 3


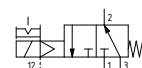
Self feeding - N.C.

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

PC6V301