

PILOT OPERATED SOLENOID VALVE CEME 2/2 TYPE 83-20

FEATURES

The solenoid valve 83-20 is a pilot operated solenoid valve 2/2 dedicated to the shut off of clean and non-aggressive fluids. With a 11 mm port, It is specially designed for the drain air compressors. Normally closed functioning. Standard construction with brass body, stainless steel internal parts and FPM seal. Italian manufacturing ISO-certified quality 9001-2000.

LIMITS OF USE

Electric protection	IP 65
Max allowed fluid pressure : PS	20 bar
ΔP minimum :	0,1 bar
Max allowed fluid temperature : TS	-10°C / +150 °C
Room temperature : *	-10°C / +80°C

* In direct current, over 40°C, the maximum differential pressure can be reduced.

DIMENSIONS (mm) AND CONNECTIONS

DN	A	B	C	D	Weight (kg)
G 1/4"	55	91	60	78	0,56
G 3/8"	55	91	60	78	0,53
G 1/2"	55	91	60	78	0,50

HYDRAULIC CHARACTERISTICS

DN	Port (mm)	Kv (m³/h)	Max diff. pressure (bar) A.C.	Max Diff. pressure (bar) D.C.
G 1/4"	11	1,40	20	20
G 3/8"	11	1,50	20	20
G 1/2"	11	1,60	20	20

ELECTRIC CHARACTERISTICS

Coil B12 classified H. Service 100%. Connecting by connector T30 according to DIN 43650A.

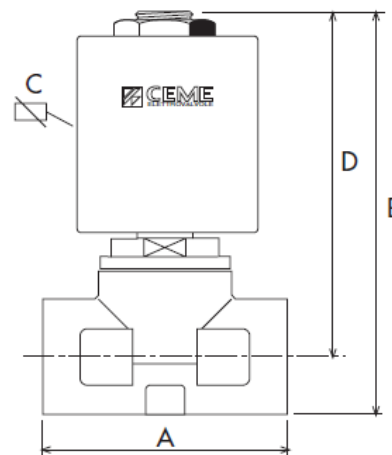
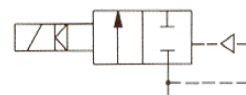
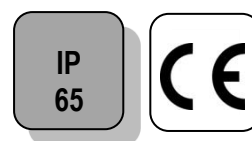
Current	Available voltages (V)						Frequency		Power consumption		Time of operation
									Holding	Rush	
AC Coil	12	24	48	110	230	400	50 Hz	60 Hz	22 VA	41 VA	20-60 ms
DC Coil	12	24	48				na		21 W		20-60 ms

Information given as an indication only, and subject to possible modifications



SECTORIEL S.A.
45 rue du Ruisseau
38290 SAINT QUENTIN-FALLAVIER – FRANCE
Tél : +33 4 74 94 90 70 - Fax : +33 4 74 94 13 95
www.sectoriel.com / Email : sectoriel@sectoriel.fr

Pages	1/3
Ref.	FT8300
Rev.	08
Date	05/2023



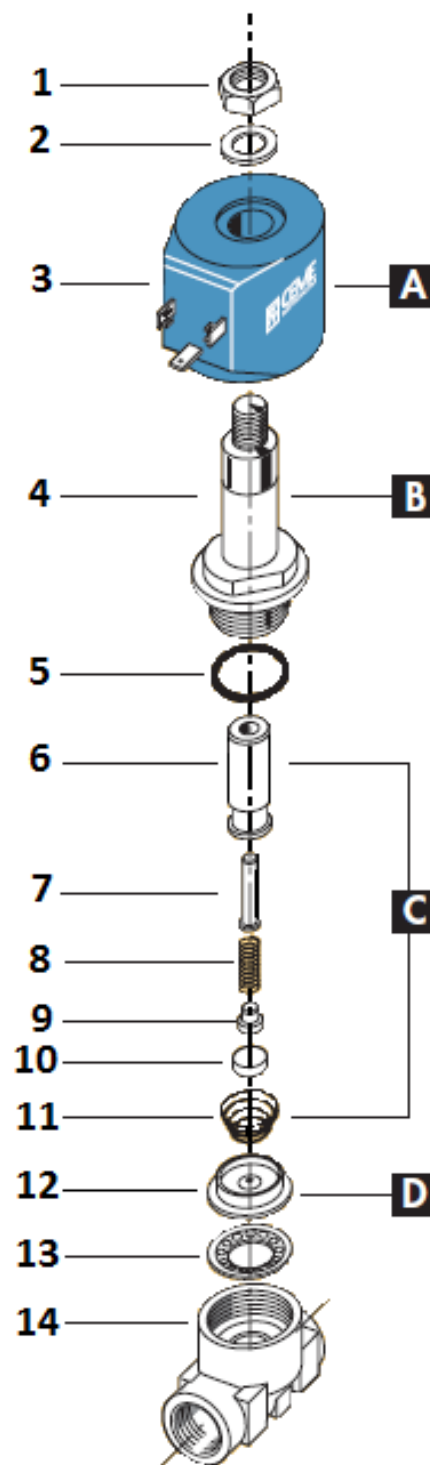
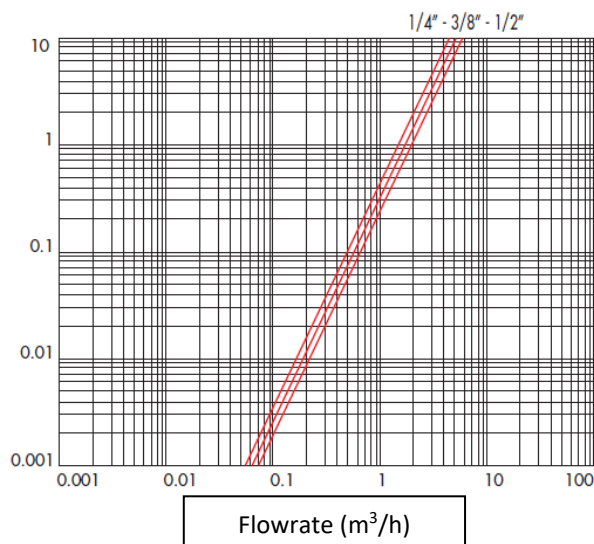
PILOT OPERATED SOLENOID VALVE CEME 2/2 TYPE 83-20

CONSTRUCTION

N°	Item	Material
1	Lock nut	Zincated steel
2	Washer	Zincated steel
3	Coil	PBT+30%
4	Tube guide	Stainless steel AISI 430
5	O-ring	NBR
6	Plunger	Stainless steel AISI 303
7	Shockabsorber	Stainless steel AISI 303
8	Spring	Steel
9	Support	Stainless steel
10	Seal	FPM
11	Spring	Steel
12	Diaphragm	FPM
13	Support	Stainless steel
14	Body	Brass EN CW 617 N

PRESSURE LOSS DIAGRAM (BAR)

Abacus for some water. For the compressed air, Use the values of Kv indicated in § "hydraulic characteristics".



Information given as an indication only, and subject to possible modifications

	SECTORIEL S.A. 45 rue du Ruisseau 38290 SAINT QUENTIN-FALLAVIER – FRANCE Tél : +33 4 74 94 90 70 - Fax : +33 4 74 94 13 95 www.sectoriel.com / Email : sectoriel@sectoriel.fr		Pages	2/3
			Ref.	FT8300
			Rev.	08
			Date	05/2023

PILOT OPERATED SOLENOID VALVE CEME 2/2 TYPE 83-20

MOUNTING

Installation in every position except horizontal pipe with

Coil towards the bottom.

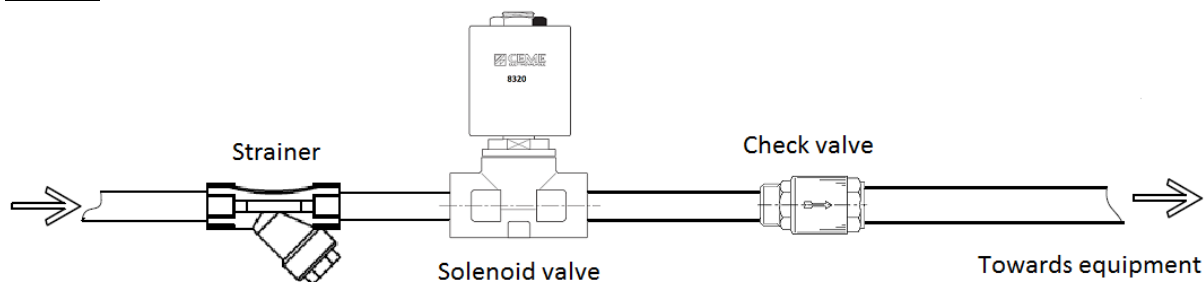
Respect the sense of flow indicated by the arrow marked on the body.

For an use on liquids, the installation of a strainer for upstream protection is recommended.

Check-valve :

A solenoid valve cannot be used as a check-valve. A de-energized normally closed solenoid valve can be crossed by a downstream counterflow. If a both side tightness is required, please add a check-valve downstream of the solenoid valve.

Example



Scaling :

A solenoid valve used on hard water and kept energized during long period can face scaling problem that can block the operation. For this kind of application, please consult.



Conform also to the assembly instructions supplied with the solenoid valve.

OPTIONS

NBR or EPDM seat

Coil with molded cable IP 67

Electronic timer switch TU

Kit of upgradet waterproofness

NPT connecting

SPARE PARTS

B12 Coil type							Connector
Voltage	230V 50Hz	24V 50Hz	48V 50Hz	110V 50Hz	12V cc	24V cc	T30
Code	980410	980411	980413	980414	980415	980416	980696

Information given as an indication only, and subject to possible modifications

	SECTORIEL S.A. 45 rue du Ruisseau 38290 SAINT QUENTIN-FALLAVIER – FRANCE Tél : +33 4 74 94 90 70 - Fax : +33 4 74 94 13 95 www.sectoriel.com / Email : sectoriel@sectoriel.fr	Pages	3/3
		Ref.	FT8300
		Rev.	08
		Date	05/2023