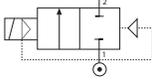




2/2 NC



1/4" → 1"



Page 8.3



30 mm

Series C



Page 15.4



30 mm

Series D



Page 15.5



36 mm

Series E



Page 15.6



Connectors



Page 15.8 - 15.10

GUIDED DIAPHRAGM SOLENOID VALVES WITH BRASS BODY

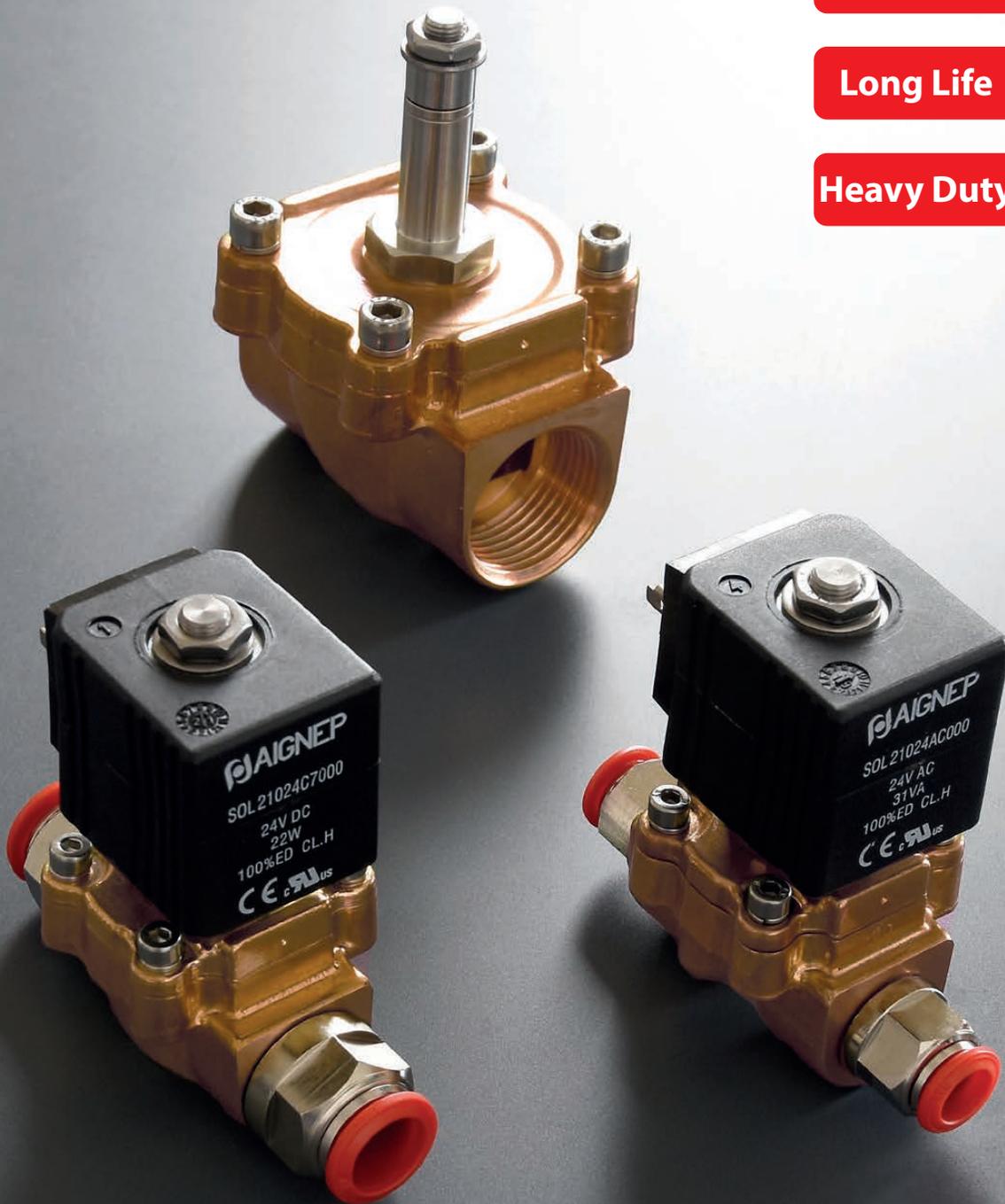
Ex
II 2 G/D Ex h

UL US
C CSA C22.2

$\Delta P = 2$ psi

Long Life

Heavy Duty



Series 03F

Series 03F

GUIDED DIAPHRAGM SOLENOID VALVES - $\Delta P = 2$ psi

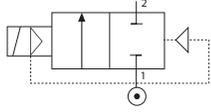
2/2 NC

1/4" → 1"

$\Delta P = 2$ psi

Long Life

Heavy Duty



Component Parts and Materials

- 1 Body: Brass CW617N
- 2 Seals: NBR - EPDM - FKM
- 3 Armature tube: Stainless steel
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel



General features - 03F

- Recommended horizontal mounting position
- Operator kit \varnothing 13 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



Maximum allowable pressure

363 psi (25 bar)



Compatibility and materials table

Page 0.13 - 0.14



Room temperature with coil class H

+14°F +176°F
-10°C +80°C



Applications

- Water, Neutral liquids, Oils
- Car washes, Washing systems
- Industrial processes, Tank draining
- Air and Inert gases
- Vacuum, Packaging
- Oxygen, Steam, Medical, Sterilizers



Ordering codes

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils
03F	03	1	10	N	0	N	C A
	03 = 1/4"	1 = 2/2 NC	10 = 25/64 (10)	N = NBR	0 = Standard	N = NPTF	C = C series - SOL20 A = 12V DC
	04 = 3/8"		14 = 35/64 (14)	E = EPDM			D = D series - SOL20 B = 24V DC
	05 = 1/2"		18 = 45/64 (18)	V = FKM			E = E series - SOL21 1 = 24V AC
	07 = 3/4"		25 = 1 (25)				2 = 110V AC
	09 = 1"						3 = 220V AC

Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.

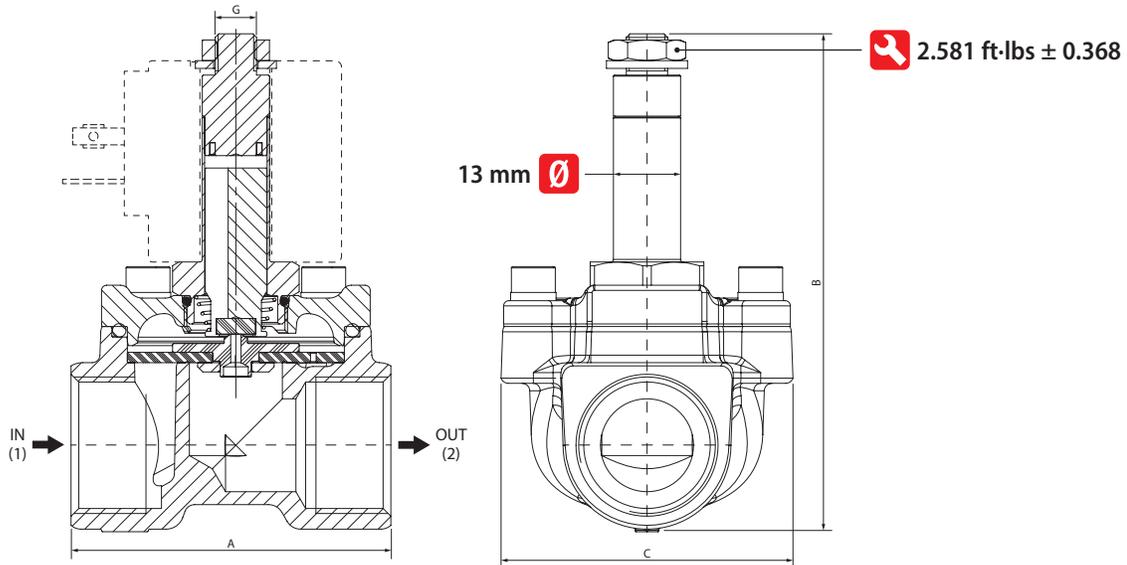
Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)		
						gpm (m ³ /h)	psi (bar)	
							Min	Max DC
03F 03 1 10 _0 N	N = NBR +14°F +194°F (-10°C +90°C)	1/4"	25/64 (10)	25	1.84 (1.58)	2 (0.15)	-	261 (18)
87 (6)							290 (20)	
03F 04 1 12 _0 N		3/8"	35/64 (14)	25	2.73 (2.34)	2 (0.15)	-	261 (18)
87 (6)							290 (20)	
03F 05 1 12 _0 N		1/2"	35/64 (14)	25	2.75 (2.36)	2 (0.15)	-	261 (18)
87 (6)	290 (20)							
03F 07 1 18 _0 N	3/4"	45/64 (18)	25	4.75 (4.08)	2 (0.15)	-	261 (18)	
87 (6)						290 (20)		
03F 09 1 25 _0 N	1"	1 (25)	25	7.72 (6.63)	2 (0.15)	-	232 (16)	
58 (4)						290 (20)		
							174 (12)	363 (25)

Power		Coils	
DC	AC	Size	Series
W	VA	mm	C - Page 15.4 D - Page 15.5 E - Page 15.6
-	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
-	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
-	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
-	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21

① Select seal material

With steam: EPDM - P max = 36 psi (2.5 bar)

Coil not included



Size	A inch (mm)	B inch (mm)	C inch (mm)	G
1/4"	1.732 (44)	3.307 (84)	1.574 (40)	M8 x 1
3/8"	2.047 (52)	3.582 (91)	1.830 (46.5)	M8 x 1
1/2"	2.047 (52)	3.582 (91)	1.830 (46.5)	M8 x 1
3/4"	2.440 (62)	3.799 (96.5)	2.224 (56.5)	M8 x 1
1"	2.854 (72.5)	4.133 (105)	2.598 (66)	M8 x 1