
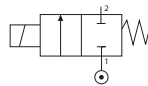



**2/2 NC**


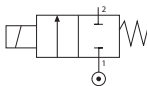



**1/8" - 1/4"**

Page 5.3




**2/2 NC**


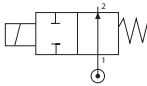



**3/8" - 1/2"**

Page 5.7




**2/2 NO**


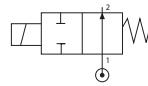



**1/8" - 1/4"**

Page 5.9




**2/2 NO**


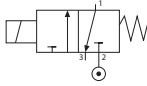



**3/8" - 1/2"**

Page 5.11




**3/2 NC**


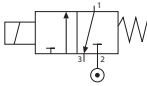



**1/8" - 1/4"**

Page 5.13




**3/2 NC**


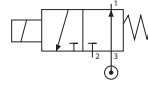



**3/8" - 1/2"**

Page 5.15




**3/2 NO**


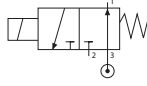



**1/8" - 1/4"**

Page 5.17




**3/2 NO**

**3/8" - 1/2"**

Page 5.19



**30 mm**



**Series C**

Page 15.4



**30 mm**



**Series D**

Page 15.5



**36 mm**



**Series E**

Page 15.6




**Connectors**

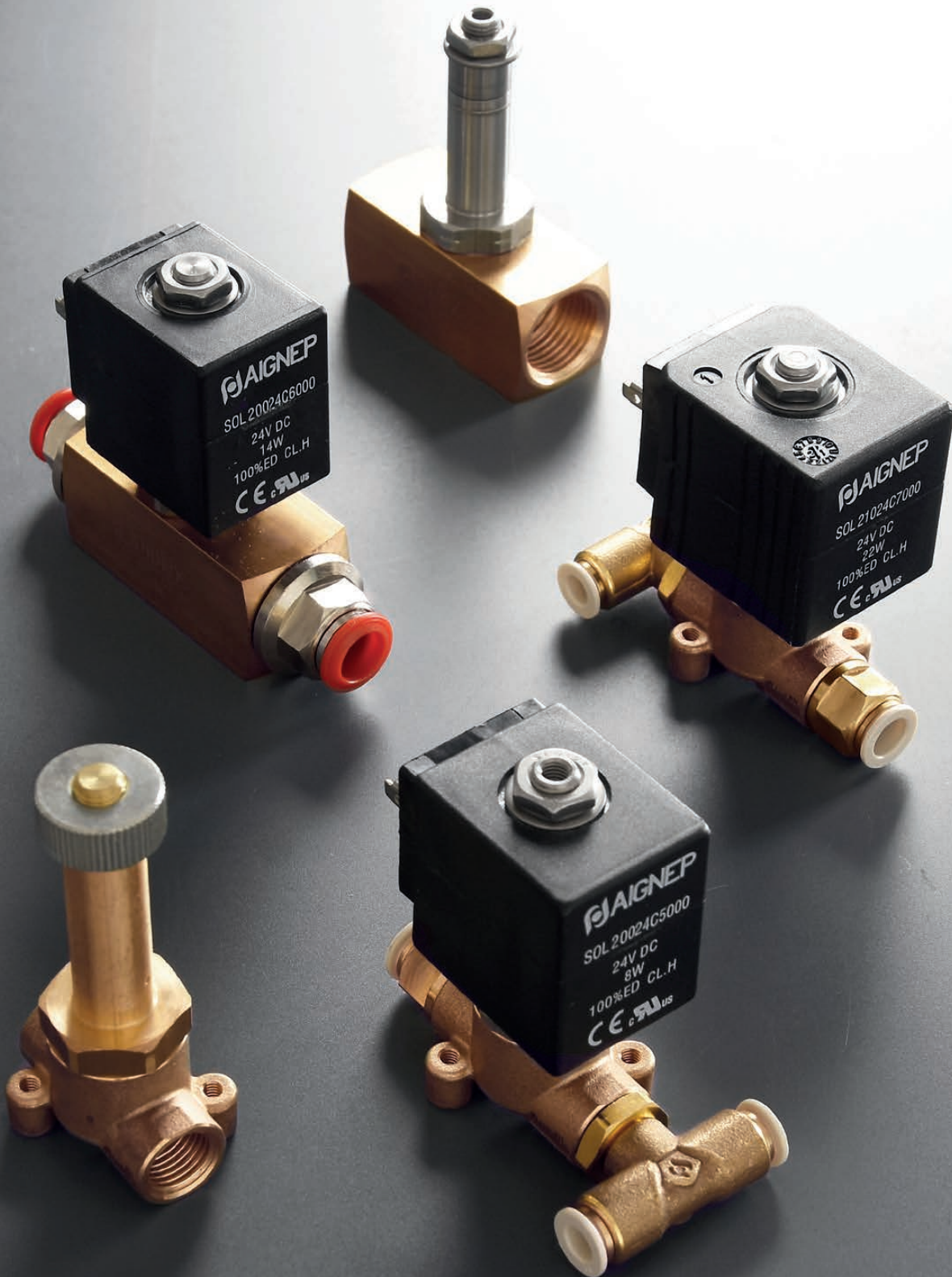
Page 15.8 - 15.10



**DIRECT ACTING SOLENOID VALVES WITH BRASS BODY**

**Ex**  
II 2 G/D Ex h

**C** **UL** **US**  
CSA C22.2



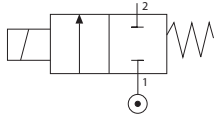
**Series 02F**

# Series 02F

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

2/2 NC

1/8" - 1/4"



### Component Parts and Materials

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



### General features - 02F

- Universal mounting position
- Operator kit Ø 13 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



### Maximum allowable pressure

1450 psi (100 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, Air, Inert gases, Vacuum
- Food industry, Misting
- Car washes, Washing systems, Pressure washers
- Industrial processes, Automation, Refrigeration
- Machine tools, Laser cutting, Compressors
- Oxygen, Steam, Medical, Sterilizers
- Chemical and Petrochemical industry, Hi-Tech



### Ordering codes

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils
<b>0 2 F</b>	<b>0 3</b>	<b>1</b>	<b>0 1</b>	<b>N</b>	<b>0</b>	<b>N</b>	<b>C</b> <b>A</b>
	02 = 1/8" 03 = 1/4"	1 = 2/2 NC	01 = 1/32 (1) 15 = 1/16 (1.5) 02 = 5/64 (2) 25 = 3/32 (2.5) 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5) 64 = 1/4 (6.4)	N = NBR F = NBR E = EPDM V = FKM P = PTFE R = RUBY C = CR	0 = Standard 3 = Stainless Steel seat (on request)	N = NPTF	C = C series - SOL20 D = D series - SOL20 E = E series - SOL21 A = 12V DC B = 24V DC 1 = 24V AC 2 = 110V AC 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)					
						inch (mm)	cSt	gpm (m³/h)	psi (bar)		
									Min	Max DC	Max AC
<b>02F 02 1 01 _ 0 N</b>	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)  <b>F = NBR</b> ❄️ -40°F +194°F (-40°C +90°C)  <b>V = FKM</b> +14°F +284°F (-10°C +140°C)  <b>E = EPDM</b> +14°F +284°F (-10°C +140°C)  <b>C = CR</b> -31°F +212°F (-35°C +100°C)	NPTF	1/8"	1/32 (1)	25	0.05 (0.04)	0	1450 (100)	1450 (100)		
1450 (100)								1450 (100)			
1450 (100)								1450 (100)			
<b>02F 02 1 15 _ 0 N</b>				1/16 (1.5)	25	0.07 (0.06)	0	725 (50)	725 (50)		
								725 (50)	725 (50)		
								725 (50)	725 (50)		
<b>02F 02 1 02 _ 0 N</b>				5/64 (2)	37	0.12 (0.10)	0	508 (35)	725 (50)		
								725 (50)	725 (50)		
								725 (50)	725 (50)		
<b>02F 02 1 25 _ 0 N</b>				3/32 (2.5)	53	0.17 (0.15)	0	305 (21)	508 (35)		
	435 (30)	580 (40)									
	653 (45)	725 (50)									
<b>02F 02 1 03 _ 0 N</b>	1/8 (3)	53	0.24 (0.21)	0	145 (10)	305 (21)					
					362 (25)	435 (30)					
					580 (40)	580 (40)					
<b>02F 02 1 04 _ 0 N</b>	5/32 (4)	53	0.41 (0.35)	0	44 (3)	145 (10)					
					87 (6)	203 (14)					
					218 (15)	290 (20)					
<b>02F 02 1 05 _ 0 N</b>	13/64 (5)	53	0.59 (0.51)	0	20 (1.4)	73 (5)					
					32 (2.2)	102 (7)					
					80 (5.5)	145 (10)					
<b>02F 02 1 64 _ 0 N</b>	1/4 (6.4)	53	0.76 (0.65)	0	-	36 (2.5)					
					22 (1.5)	51 (3.5)					
					65 (4.5)	73 (5)					

Power		Coils	
DC	AC	Size	Series
W	VA	mm	C - Page 15.4 D - Page 15.5 E - Page 15.6
8	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
8	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
8	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
8	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
8	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
8	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

**Serie 02F - 2/2 NC RUBY - PTFE**

<b>02F 02 1 15 _ 3 N</b>	P = PTFE -40°F +356°F (-40°C +180°C)	1/8"	1/16 (1.5)	25	0.07 (0.06)	0	290 (20)	580 (40)
							363 (25)	725 (50)
<b>02F 02 1 02 _ 3 N</b>	R = RUBY -40°F +356°F (-40°C +180°C)	1/8"	5/64 (2)	37	0.12 (0.10)	0	218 (15)	508 (35)
							363 (25)	725 (50)
<b>02F 02 1 25 _ 3 N</b>	R = RUBY -40°F +356°F (-40°C +180°C)	1/8"	3/32 (2.5)	53	0.17 (0.15)	0	116 (8)	290 (20)
							145 (10)	363 (25)
<b>02F 02 1 03 P 3 N</b>	R = RUBY -40°F +356°F (-40°C +180°C)	1/8"	1/8 (3)	53	0.24 (0.21)	0	145 (10)	305 (21)
							232 (16)	435 (30)
<b>02F 02 1 04 P 3 N</b>	R = RUBY -40°F +356°F (-40°C +180°C)	1/8"	5/32 (4)	53	0.41 (0.35)	0	44 (3)	145 (10)
							87 (6)	203 (14)

8	14	30	C - SOL20
14	21	30	D - SOL20
8	14	30	C - SOL20
14	21	30	D - SOL20
8	14	30	C - SOL20
14	21	30	D - SOL20
8	14	30	C - SOL20
14	21	30	D - SOL20
8	14	30	C - SOL20
14	21	30	D - SOL20

① Select seal material

With steam: EPDM - P max = 36 psi (2.5 bar) / PTFE & RUBY - P max = 145 psi (10 bar)

Allowable leakage: PTFE & RUBY = max 0.08 gph (300 cm³/h)

Coil not included

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils				
						inch (mm)	cSt	gpm (m³/h)	psi (bar)			DC	AC	Size	Series
									Min	Max DC	Max AC	W	VA	mm	C - Page 15.4 D - Page 15.5 E - Page 15.6
02F 03 1 01 _ 0 N	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)  <b>F = NBR</b> ❄️ -40°F +194°F (-40°C +90°C)  <b>V = FKM</b> +14°F +284°F (-10°C +140°C)  <b>E = EPDM</b> +14°F +284°F (-10°C +140°C)  <b>C = CR</b> -31°F +212°F (-35°C +100°C)	NPTF	1/4"	1/32 (1)	25	0.05 (0.04)	0	1450 (100)	1450 (100)	8	14	30	C - SOL20		
1450 (100)								1450 (100)	14	21	30	D - SOL20			
1450 (100)								1450 (100)	22	31	36	E - SOL21			
725 (50)								725 (50)	8	14	30	C - SOL20			
725 (50)								725 (50)	14	21	30	D - SOL20			
725 (50)								725 (50)	22	31	36	E - SOL21			
508 (35)								725 (50)	8	14	30	C - SOL20			
725 (50)								725 (50)	14	21	30	D - SOL20			
02F 03 1 15 _ 0 N	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)  <b>F = NBR</b> ❄️ -40°F +194°F (-40°C +90°C)  <b>V = FKM</b> +14°F +284°F (-10°C +140°C)  <b>E = EPDM</b> +14°F +284°F (-10°C +140°C)  <b>C = CR</b> -31°F +212°F (-35°C +100°C)	NPTF	1/4"	1/16 (1.5)	25	0.07 (0.06)	0	305 (21)	508 (35)	8	14	30	C - SOL20		
435 (30)								580 (40)	14	21	30	D - SOL20			
725 (50)								725 (50)	22	31	36	E - SOL21			
653 (45)								725 (50)	8	14	30	C - SOL20			
145 (10)								305 (21)	14	21	30	D - SOL20			
362 (25)								435 (30)	22	31	36	E - SOL21			
580 (40)								580 (40)	8	14	30	C - SOL20			
44 (3)								145 (10)	14	21	30	D - SOL20			
02F 03 1 02 _ 0 N	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)  <b>F = NBR</b> ❄️ -40°F +194°F (-40°C +90°C)  <b>V = FKM</b> +14°F +284°F (-10°C +140°C)  <b>E = EPDM</b> +14°F +284°F (-10°C +140°C)  <b>C = CR</b> -31°F +212°F (-35°C +100°C)	NPTF	1/4"	5/64 (2)	37	0.12 (0.10)	0	87 (6)	203 (14)	8	14	30	C - SOL20		
218 (15)								290 (20)	14	21	30	D - SOL20			
20 (1.4)								73 (5)	22	31	36	E - SOL21			
32 (2.2)								102 (7)	8	14	30	C - SOL20			
80 (5.5)								145 (10)	14	21	30	D - SOL20			
-								36 (2.5)	22	31	36	E - SOL21			
22 (1.5)								51 (3.5)	8	14	30	C - SOL20			
65 (4.5)								73 (5)	14	21	30	D - SOL20			
02F 03 1 25 _ 0 N	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)  <b>F = NBR</b> ❄️ -40°F +194°F (-40°C +90°C)  <b>V = FKM</b> +14°F +284°F (-10°C +140°C)  <b>E = EPDM</b> +14°F +284°F (-10°C +140°C)  <b>C = CR</b> -31°F +212°F (-35°C +100°C)	NPTF	1/4"	3/32 (2.5)	53	0.17 (0.15)	0	290 (20)	580 (40)	8	14	30	C - SOL20		
363 (25)								725 (50)	14	21	30	D - SOL20			
218 (15)								508 (35)	8	14	30	C - SOL20			
363 (25)								725 (50)	14	21	30	D - SOL20			
116 (8)								290 (20)	8	14	30	C - SOL20			
145 (10)								363 (25)	14	21	30	D - SOL20			
145 (10)								305 (21)	8	14	30	C - SOL20			
232 (16)								435 (30)	14	21	30	D - SOL20			
02F 03 1 03 _ 0 N	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)  <b>F = NBR</b> ❄️ -40°F +194°F (-40°C +90°C)  <b>V = FKM</b> +14°F +284°F (-10°C +140°C)  <b>E = EPDM</b> +14°F +284°F (-10°C +140°C)  <b>C = CR</b> -31°F +212°F (-35°C +100°C)	NPTF	1/4"	1/8 (3)	53	0.24 (0.21)	0	44 (3)	145 (10)	8	14	30	C - SOL20		
87 (6)								203 (14)	14	21	30	D - SOL20			
20 (1.4)								73 (5)	22	31	36	E - SOL21			
32 (2.2)								102 (7)	8	14	30	C - SOL20			
80 (5.5)								145 (10)	14	21	30	D - SOL20			
-								36 (2.5)	22	31	36	E - SOL21			
22 (1.5)								51 (3.5)	8	14	30	C - SOL20			
65 (4.5)								73 (5)	14	21	30	D - SOL20			
02F 03 1 04 _ 0 N	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)  <b>F = NBR</b> ❄️ -40°F +194°F (-40°C +90°C)  <b>V = FKM</b> +14°F +284°F (-10°C +140°C)  <b>E = EPDM</b> +14°F +284°F (-10°C +140°C)  <b>C = CR</b> -31°F +212°F (-35°C +100°C)	NPTF	1/4"	5/32 (4)	53	0.41 (0.35)	0	87 (6)	203 (14)	8	14	30	C - SOL20		
20 (1.4)								73 (5)	14	21	30	D - SOL20			
32 (2.2)								102 (7)	22	31	36	E - SOL21			
80 (5.5)								145 (10)	8	14	30	C - SOL20			
-								36 (2.5)	14	21	30	D - SOL20			
22 (1.5)								51 (3.5)	22	31	36	E - SOL21			
65 (4.5)								73 (5)	8	14	30	C - SOL20			
22 (1.5)								51 (3.5)	14	21	30	D - SOL20			
02F 03 1 05 _ 0 N	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)  <b>F = NBR</b> ❄️ -40°F +194°F (-40°C +90°C)  <b>V = FKM</b> +14°F +284°F (-10°C +140°C)  <b>E = EPDM</b> +14°F +284°F (-10°C +140°C)  <b>C = CR</b> -31°F +212°F (-35°C +100°C)	NPTF	1/4"	13/64 (5)	53	0.59 (0.51)	0	290 (20)	580 (40)	8	14	30	C - SOL20		
363 (25)								725 (50)	14	21	30	D - SOL20			
218 (15)								508 (35)	8	14	30	C - SOL20			
363 (25)								725 (50)	14	21	30	D - SOL20			
116 (8)								290 (20)	8	14	30	C - SOL20			
145 (10)								363 (25)	14	21	30	D - SOL20			
145 (10)								305 (21)	8	14	30	C - SOL20			
232 (16)								435 (30)	14	21	30	D - SOL20			
02F 03 1 64 _ 0 N	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)  <b>F = NBR</b> ❄️ -40°F +194°F (-40°C +90°C)  <b>V = FKM</b> +14°F +284°F (-10°C +140°C)  <b>E = EPDM</b> +14°F +284°F (-10°C +140°C)  <b>C = CR</b> -31°F +212°F (-35°C +100°C)	NPTF	1/4"	1/4 (6.4)	53	0.76 (0.65)	0	44 (3)	145 (10)	8	14	30	C - SOL20		
87 (6)								203 (14)	14	21	30	D - SOL20			
20 (1.4)								73 (5)	22	31	36	E - SOL21			
32 (2.2)								102 (7)	8	14	30	C - SOL20			
80 (5.5)								145 (10)	14	21	30	D - SOL20			
-								36 (2.5)	22	31	36	E - SOL21			
22 (1.5)								51 (3.5)	8	14	30	C - SOL20			
65 (4.5)								73 (5)	14	21	30	D - SOL20			

Serie 02F - 2/2 NC RUBY - PTFE

02F 03 1 15 _ 3 N	<b>P = PTFE</b> -40°F +356°F (-40°C +180°C)  <b>R = RUBY</b> -40°F +356°F (-40°C +180°C)	NPTF	1/4"	1/16 (1.5)	25	0.07 (0.06)	0	290 (20)	580 (40)	8	14	30	C - SOL20
363 (25)								725 (50)	14	21	30	D - SOL20	
218 (15)								508 (35)	8	14	30	C - SOL20	
363 (25)								725 (50)	14	21	30	D - SOL20	
116 (8)								290 (20)	8	14	30	C - SOL20	
02F 02 1 02 _ 3 N	<b>P = PTFE</b> -40°F +356°F (-40°C +180°C)  <b>R = RUBY</b> -40°F +356°F (-40°C +180°C)	NPTF	1/4"	5/64 (2)	37	0.12 (0.10)	0	145 (10)	305 (21)	8	14	30	C - SOL20
232 (16)								435 (30)	14	21	30	D - SOL20	
44 (3)								145 (10)	8	14	30	C - SOL20	
87 (6)								203 (14)	14	21	30	D - SOL20	
20 (1.4)								73 (5)	22	31	36	E - SOL21	
02F 03 1 02 _ 3 N	<b>P = PTFE</b> -40°F +356°F (-40°C +180°C)  <b>R = RUBY</b> -40°F +356°F (-40°C +180°C)	NPTF	1/4"	3/32 (2.5)	53	0.17 (0.15)	0	44 (3)	145 (10)	8	14	30	C - SOL20
87 (6)								203 (14)	14	21	30	D - SOL20	
20 (1.4)								73 (5)	22	31	36	E - SOL21	
32 (2.2)								102 (7)	8	14	30	C - SOL20	
80 (5.5)								145 (10)	14	21	30	D - SOL20	
02F 03 1 03 P 3 N	<b>P = PTFE</b> -40°F +356°F (-40°C +180°C)  <b>R = RUBY</b> -40°F +356°F (-40°C +180°C)	NPTF	1/4"	1/8 (3)	53	0.24 (0.21)	0	44 (3)	145 (10)	8	14	30	C - SOL20
87 (6)								203 (14)	14	21	30	D - SOL20	
20 (1.4)								73 (5)	22	31	36	E - SOL21	
32 (2.2)								102 (7)	8	14	30	C - SOL20	
80 (5.5)								145 (10)	14	21	30	D - SOL20	
02F 03 1 04 P 3 N	<b>P = PTFE</b> -40°F +356°F (-40°C +180°C)  <b>R = RUBY</b> -40°F +356°F (-40°C +180°C)	NPTF	1/4"	5/32 (4)	53	0.41 (0.35)	0	87 (6)	203 (14)	8	14	30	C - SOL20
20 (1.4)								73 (5)	14	21	30	D - SOL20	
32 (2.2)								102 (7)	22	31	36	E - SOL21	
80 (5.5)								145 (10)	8	14	30	C - SOL20	
-								36 (2.5)	14	21	30	D - SOL20	

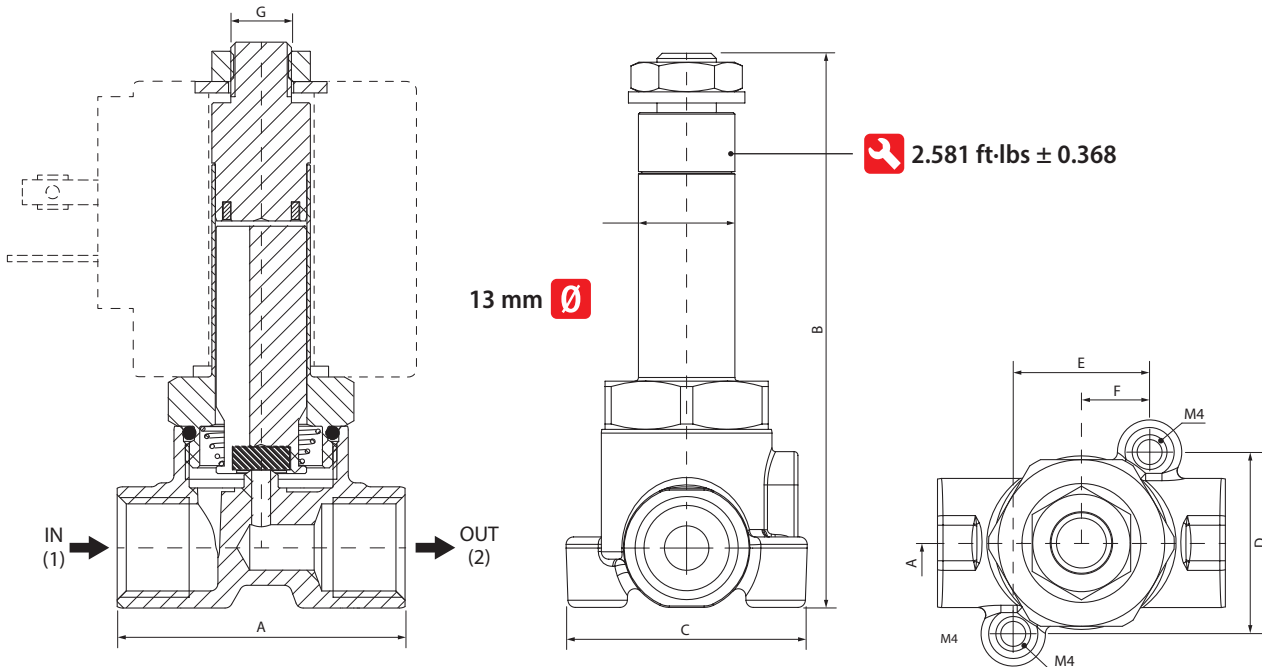
① Select seal material

With steam: EPDM - P max = 36 psi (2.5 bar) / PTFE & RUBY - P max = 145 psi (10 bar)

Allowable leakage: PTFE & RUBY = max 0.08 gph (300 cm³/h)

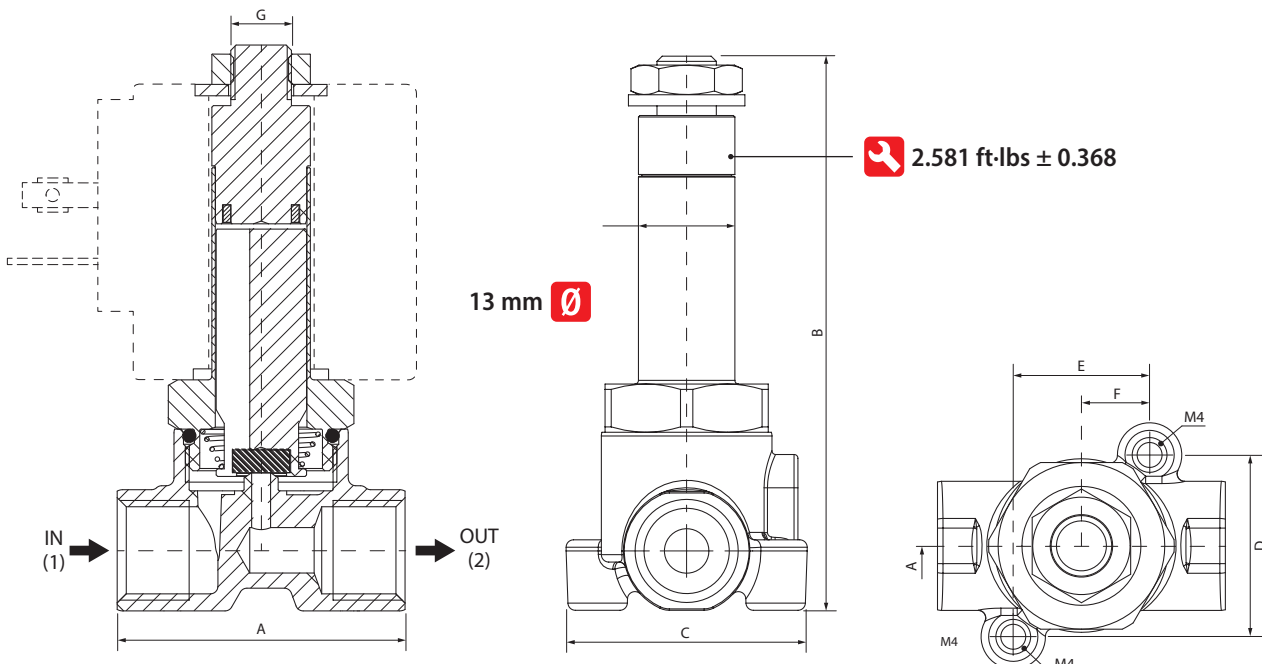
Coil not included

**1/8"**



Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/8"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1

**1/4"**



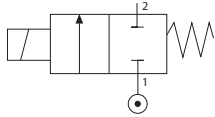
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1

# Series 02F

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

**2/2 NC**

**3/8" - 1/2"**



### Component Parts and Materials

- 1 Body: Brass CW614N
- 2 Seals: NBR - NBR - EPDM - FKM - PTFE - CR
- 3 Armature tube: Stainless steel
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel



### General features - 02F

- Universal mounting position
- Operator kit Ø 13 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



### Maximum allowable pressure

**725 psi (50 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, Air, Inert gases, Vacuum
- Food industry, Misting
- Car washes, Washing systems, Pressure washers
- Industrial processes, Automation, Refrigeration
- Machine tools, Laser cutting, Compressors
- Oxygen, Steam, Medical, Sterilizers
- Chemical and Petrochemical industry, Hi-Tech



### Ordering codes

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils
<b>0 2 F</b>	<b>0 4</b> 04 = 3/8" 05 = 1/2"	<b>1</b> 1 = 2/2 NC	<b>0 3</b> 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5) 64 = 1/4 (6.4)	<b>N</b> N = NBR F = NBR E = EPDM V = FKM P = PTFE C = CR	<b>0</b> 0 = Standard	<b>N</b> N = NPTF	<b>C</b> <b>A</b> C = C series - SOL20      A = 12V DC D = D series - SOL20      B = 24V DC E = E series - SOL21      1 = 24V AC 2 = 110V AC 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)			Power		Coils	
						gpm (m³/h)	psi (bar)		DC	AC	Size	Series
							Min	Max DC				
		NPTF	inch (mm)	cSt					W	VA	mm	C - Page 15.4 D - Page 15.5 E - Page 15.6
<b>02F 04 1 03 _0 N</b>	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)	3/8"	1/8 (3)	53	0.24 (0.21)	0	145 (10)	305 (21)	8	14	30	C - SOL20
362 (25)							435 (30)	14	21	30	D - SOL20	
580 (40)							580 (40)	22	31	36	E - SOL21	
44 (3)							145 (10)	8	14	30	C - SOL20	
<b>02F 04 1 04 _0 N</b>	<b>F = NBR</b> -40°F +194°F (-40°C +90°C)	3/8"	5/32 (4)	53	0.41 (0.35)	0	87 (6)	203 (14)	14	21	30	D - SOL20
218 (15)							290 (20)	22	31	36	E - SOL21	
20 (1.4)							73 (5)	8	14	30	C - SOL20	
<b>02F 04 1 05 _0 N</b>	<b>V = FKM</b> +14°F +284°F (-10°C +140°C)	3/8"	13/64 (5)	53	0.59 (0.51)	0	32 (2.2)	102 (7)	14	21	30	D - SOL20
80 (5.5)							145 (10)	22	31	36	E - SOL21	
-							36 (2.5)	-	14	30	C - SOL20	
<b>02F 04 1 64 _0 N</b>	<b>E = EPDM</b> +14°F +284°F (-10°C +140°C)	1/2"	1/4 (6.4)	53	0.76 (0.65)	0	22 (1.5)	51 (3.5)	14	21	30	D - SOL20
65 (4.5)							73 (5)	22	31	36	E - SOL21	
145 (10)							305 (21)	8	14	30	C - SOL20	
<b>02F 05 1 03 _0 N</b>	<b>P = PTFE *</b> -40°F +356°F (-40°C +180°C)	1/2"	5/32 (4)	53	0.41 (0.35)	0	87 (6)	203 (14)	14	21	30	D - SOL20
218 (15)							290 (20)	22	31	36	E - SOL21	
20 (1.4)							73 (5)	8	14	30	C - SOL20	
<b>02F 05 1 04 _0 N</b>	<b>C = CR</b> -31°F +212°F (-35°C +100°C)	1/2"	13/64 (5)	53	0.59 (0.51)	0	32 (2.2)	102 (7)	14	21	30	D - SOL20
80 (5.5)							145 (10)	22	31	36	E - SOL21	
-							36 (2.5)	-	14	30	C - SOL20	
<b>02F 05 1 05 _0 N</b>	<b>V = FKM</b> +14°F +284°F (-10°C +140°C)	1/2"	1/4 (6.4)	53	0.76 (0.65)	0	22 (1.5)	51 (3.5)	14	21	30	D - SOL20
65 (4.5)							73 (5)	22	31	36	E - SOL21	
145 (10)							305 (21)	8	14	30	C - SOL20	

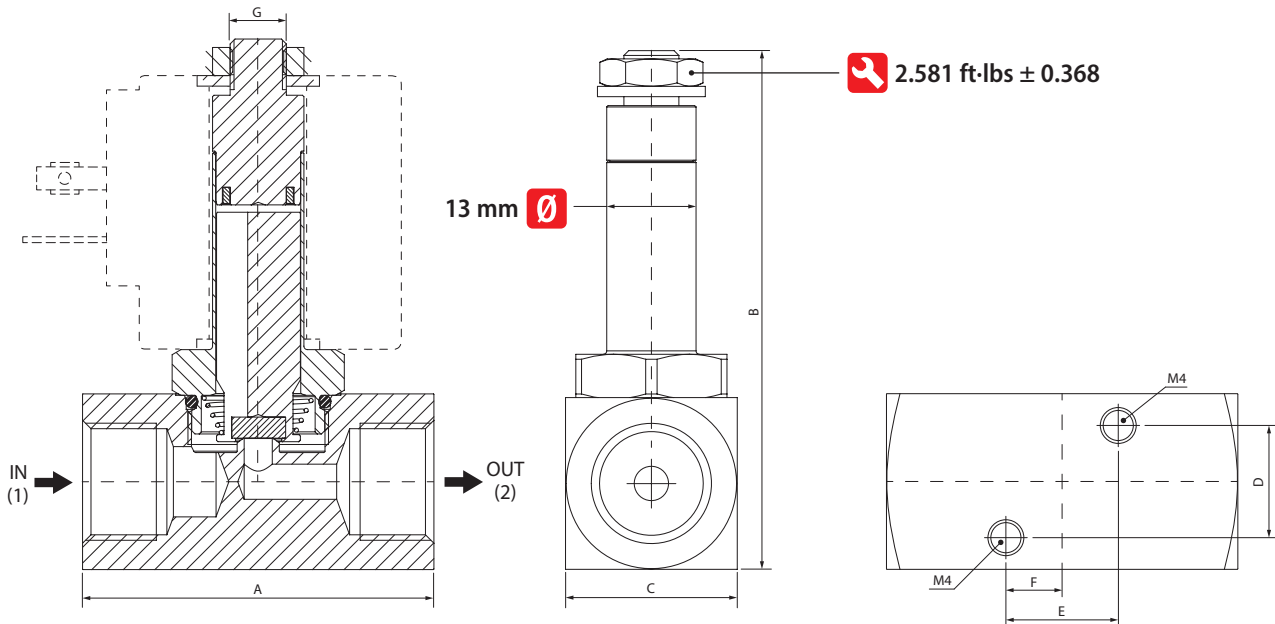
① Select seal material

With steam: EPDM - P max = 36 psi (2.5 bar) / PTFE - P max = 145 psi (10 bar)

Allowable leakage: PTFE = max 0.08 gph (300 cm³/h)

\* PTFE - orifice max Ø 5/32" (4 mm): Only with stainless steel seat

Coil not included



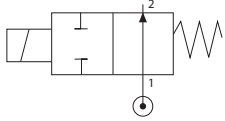
Size	A	B	C	D	E	F	G
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	
3/8"	1.968 (50)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1
1/2"	2.283 (58)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1

**Series 02F**

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

**2/2 NO**

**1/8" - 1/4"**



**Component Parts and Materials**

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



**General features - 02F**

- Universal mounting position
- Operator kit Ø 13 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



**Maximum allowable pressure**

**725 psi (50 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, Air, Inert gases, Vacuum
- Food industry, Misting
- Car washes, Washing systems, Pressure washers
- Industrial processes, Automation, Refrigeration
- Machine tools, Laser cutting, Compressors
- Oxygen, Steam, Medical, Sterilizers
- Chemical and Petrochemical industry, Hi-Tech



**Stainless Steel armature tube on request**



**Ordering codes**

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils
<b>0 2 F</b>	<b>0 3</b>	<b>2</b>	<b>1 5</b>	<b>N</b>	<b>0</b>	<b>N</b>	<b>C</b> <b>A</b>
	02 = 1/8" 03 = 1/4"	2 = 2/2 NO	15 = 1/16 (1.5) 02 = 5/64 (2) 25 = 3/32 (2.5) 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	N = NBR E = EPDM V = FKM C = CR	0 = Standard	N = NPTF	C = C series - SOL20    A = 12V DC D = D series - SOL20    B = 24V DC E = E series - SOL21    1 = 24V AC 2 = 110V AC 3 = 220V AC

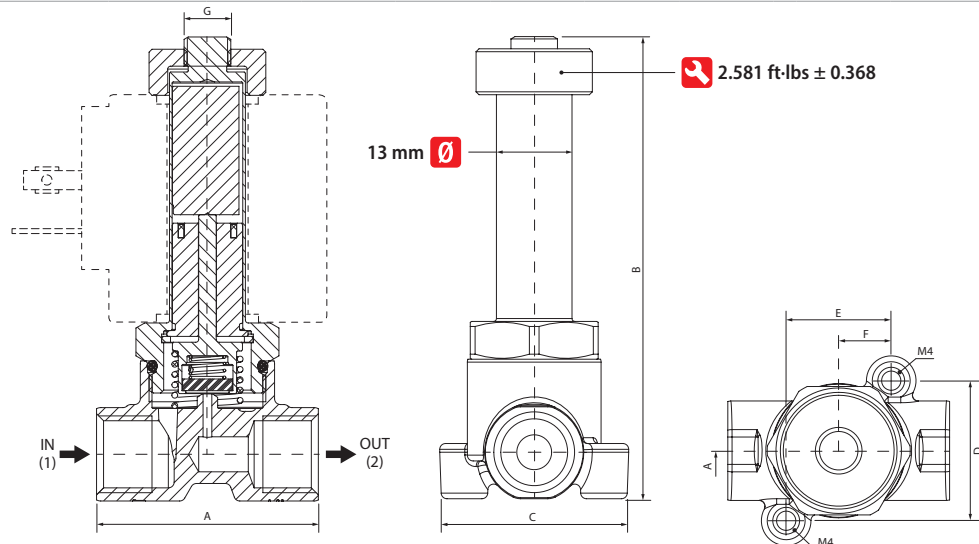
Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils							
						inch (mm)	cSt	gpm (m <sup>3</sup> /h)	psi (bar)			DC	AC	Size	Series C - Page 15.4 D - Page 15.5 E - Page 15.6			
									Min	Max DC	Max AC	W	VA	mm				
<b>02F 02 2 15 _ 0 N</b>	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)	NPTF	1/16 (1.5)	25	0.07 (0.06)	0	-	363 (25)	363 (25)	-	14	30	C - SOL20					
<b>02F 02 2 02 _ 0 N</b>							-	261 (18)	261 (18)	-	261 (18)	261 (18)	-	14	30	D - SOL20		
<b>02F 02 2 25 _ 0 N</b>										-	174 (12)	174 (12)	-	14	30	C - SOL20		
<b>02F 02 2 03 _ 0 N</b>							<b>V = FKM</b> +14°F +284°F (-10°C +140°C)	1/8 (3)	53	0.24 (0.21)	0	-	109 (7.5)	109 (7.5)	-	14	30	D - SOL20
<b>02F 02 2 04 _ 0 N</b>												-	65 (4.5)	65 (4.5)	-	14	30	C - SOL20
<b>02F 02 2 05 _ 0 N</b>							<b>E = EPDM</b> +14°F +284°F (-10°C +140°C)	5/32 (4)	53	0.41 (0.35)	0	-	36 (2.5)	36 (2.5)	-	14	30	D - SOL20
<b>02F 02 2 05 _ 0 N</b>	-	36 (2.5)	36 (2.5)	-	14	30						C - SOL20						
<b>02F 03 2 15 _ 0 N</b>	<b>C = CR</b> -31°F +212°F (-35°C +100°C)	1/4"	1/16 (1.5)	25	0.07 (0.06)	0	-	363 (25)	363 (25)	-	14	30	C - SOL20					
<b>02F 03 2 02 _ 0 N</b>							-	261 (18)	261 (18)	-	261 (18)	261 (18)	-	14	30	D - SOL20		
<b>02F 03 2 25 _ 0 N</b>										-	174 (12)	174 (12)	-	14	30	C - SOL20		
<b>02F 03 2 03 _ 0 N</b>							<b>V = FKM</b> +14°F +284°F (-10°C +140°C)	1/8 (3)	53	0.24 (0.21)	0	-	109 (7.5)	109 (7.5)	-	14	30	D - SOL20
<b>02F 03 2 04 _ 0 N</b>												-	65 (4.5)	65 (4.5)	-	14	30	C - SOL20
<b>02F 03 2 05 _ 0 N</b>							<b>E = EPDM</b> +14°F +284°F (-10°C +140°C)	5/32 (4)	53	0.41 (0.35)	0	-	36 (2.5)	36 (2.5)	-	14	30	D - SOL20
<b>02F 03 2 05 _ 0 N</b>	-	36 (2.5)	36 (2.5)	-	14	30						C - SOL20						

① Select seal material

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

Coil not included



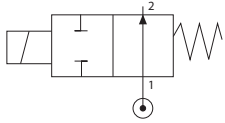
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/8"	1.496 (38)	3.129 (79.5)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1
1/4"	1.496 (38)	3.129 (79.5)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1

**Series 02F**

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

**2/2 NO**

**3/8 - 1/2"**



**Component Parts and Materials**

- 1 Body: Brass CW614N
- 2 Seals: NBR - EPDM - FKM - CR
- 3 Armature tube: Brass
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel



**General features - 02F**

- Universal mounting position
- Operator kit Ø 13 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



**Maximum allowable pressure**

**725 psi (50 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, Air, Inert gases, Vacuum
- Food industry, Misting
- Car washes, Washing systems, Pressure washers
- Industrial processes, Automation, Refrigeration
- Machine tools, Laser cutting, Compressors
- Oxygen, Steam, Medical, Sterilizers
- Chemical and Petrochemical industry, Hi-Tech



**Stainless Steel armature tube on request**



**Ordering codes**

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils
<b>0 2 F</b>	<b>0 4</b>	<b>2</b>	<b>0 3</b>	<b>N</b>	<b>0</b>	<b>N</b>	<b>C</b> <b>A</b>
	04 = 3/8" 05 = 1/2"	2 = 2/2 NO	03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	N = NBR E = EPDM V = FKM C = CR	0 = Standard	N = NPTF	C = C series - SOL20    A = 12V DC D = D series - SOL20    B = 24V DC E = E series - SOL21    1 = 24V AC 2 = 110V AC 3 = 220V AC

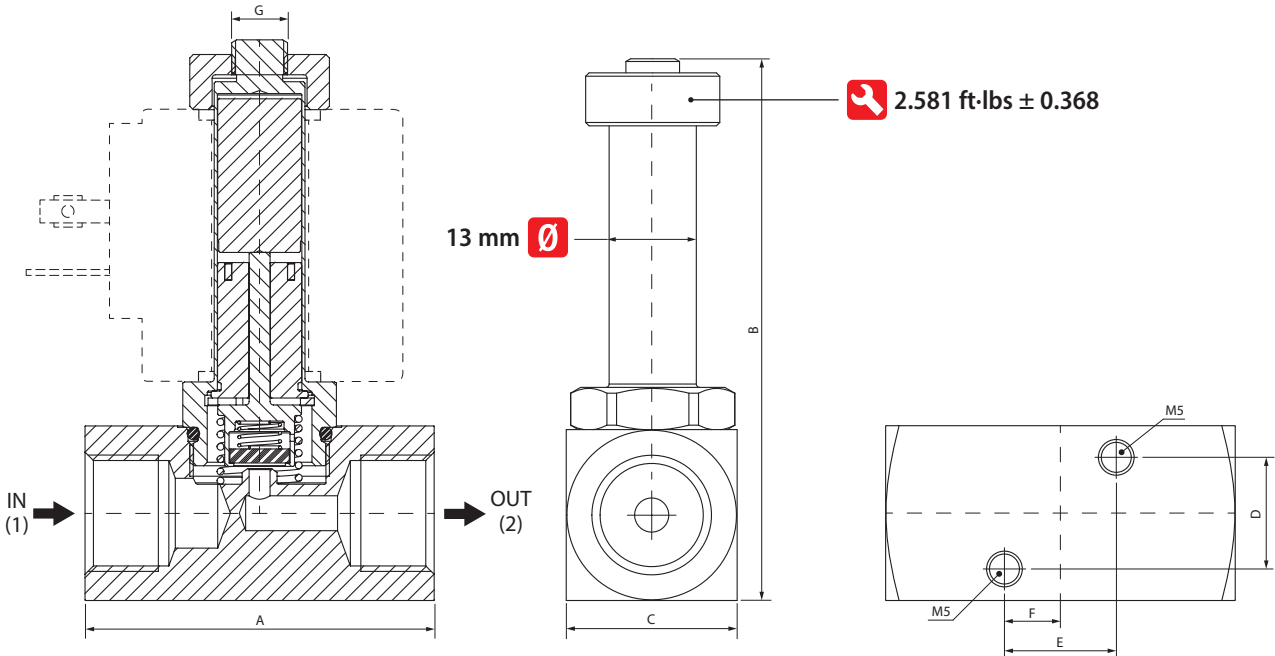
Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils		
						gpm (m <sup>3</sup> /h)	psi (bar)		DC	AC	Size	Series	
							Min	Max DC					Max AC
02F 04 2 03 _0 N	N = NBR +14°F +194°F (-10°C +90°C)	NPTF	1/8 (3)	53	0.24 (0.21)	0	-	109 (7.5)	109 (7.5)	-	14	30	C - SOL20
109 (7.5)							109 (7.5)	14	21	30	D - SOL20		
109 (7.5)							109 (7.5)	22	31	36	E - SOL21		
02F 04 2 04 _0 N	V = FKM +14°F +284°F (-10°C +140°C)	3/8"	5/32 (4)	53	0.41 (0.35)	0	-	65 (4.5)	65 (4.5)	-	14	30	C - SOL20
65 (4.5)							65 (4.5)	14	21	30	D - SOL20		
65 (4.5)							65 (4.5)	22	31	36	E - SOL21		
02F 04 2 05 _0 N	E = EPDM +14°F +284°F (-10°C +140°C)	1/2"	13/64 (5)	53	0.59 (0.51)	0	-	36 (2.5)	36 (2.5)	-	14	30	C - SOL20
36 (2.5)							36 (2.5)	14	21	30	D - SOL20		
36 (2.5)							36 (2.5)	22	31	36	E - SOL21		
02F 05 2 03 _0 N	C = CR -31°F +212°F (-35°C +100°C)	1/2"	1/8 (3)	53	0.24 (0.21)	0	-	109 (7.5)	109 (7.5)	-	14	30	C - SOL20
109 (7.5)							109 (7.5)	14	21	30	D - SOL20		
109 (7.5)							109 (7.5)	22	31	36	E - SOL21		
02F 05 2 04 _0 N	C = CR -31°F +212°F (-35°C +100°C)	1/2"	5/32 (4)	53	0.41 (0.35)	0	-	65 (4.5)	65 (4.5)	-	14	30	C - SOL20
65 (4.5)							65 (4.5)	14	21	30	D - SOL20		
65 (4.5)							65 (4.5)	22	31	36	E - SOL21		
02F 05 2 05 _0 N	C = CR -31°F +212°F (-35°C +100°C)	1/2"	13/64 (5)	53	0.59 (0.51)	0	-	36 (2.5)	36 (2.5)	-	14	30	C - SOL20
36 (2.5)							36 (2.5)	14	21	30	D - SOL20		
36 (2.5)							36 (2.5)	22	31	36	E - SOL21		

① Select seal material

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

Coil not included



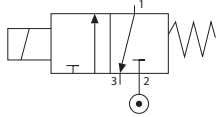
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
3/8"	1.968 (50)	3.161 (80.3)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1
1/2"	2.283 (58)	3.161 (80.3)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1

**Series 02F**

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

**3/2 NC**

**1/8" - 1/4"**



**Component Parts and Materials**

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



**General features - 02F**

- Universal mounting position
- Operator kit Ø 13 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



**Maximum allowable pressure**

**725 psi (50 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, Air, Inert gases, Vacuum
- Food industry, Misting
- Car washes, Washing systems, Pressure washers
- Industrial processes, Automation, Refrigeration
- Machine tools, Laser cutting, Compressors
- Oxygen, Steam, Medical, Sterilizers
- Chemical and Petrochemical industry, Hi-Tech



**Ordering codes**

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils
<b>0 2 F</b>	<b>0 3</b> 02 = 1/8" 03 = 1/4"	<b>3</b> 3 = 3/2 NC	<b>1 5</b> 15 = 1/16 (1.5) 02 = 5/64 (2) 25 = 3/32 (2.5) 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	<b>N</b> N = NBR E = EPDM V = FKM C = CR	<b>0</b> 0 = Standard	<b>N</b> N = NPTF	<b>C</b> <b>A</b> C = C series - SOL20      A = 12V DC D = D series - SOL20      B = 24V DC E = E series - SOL21      1 = 24V AC 2 = 110V AC 3 = 220V AC

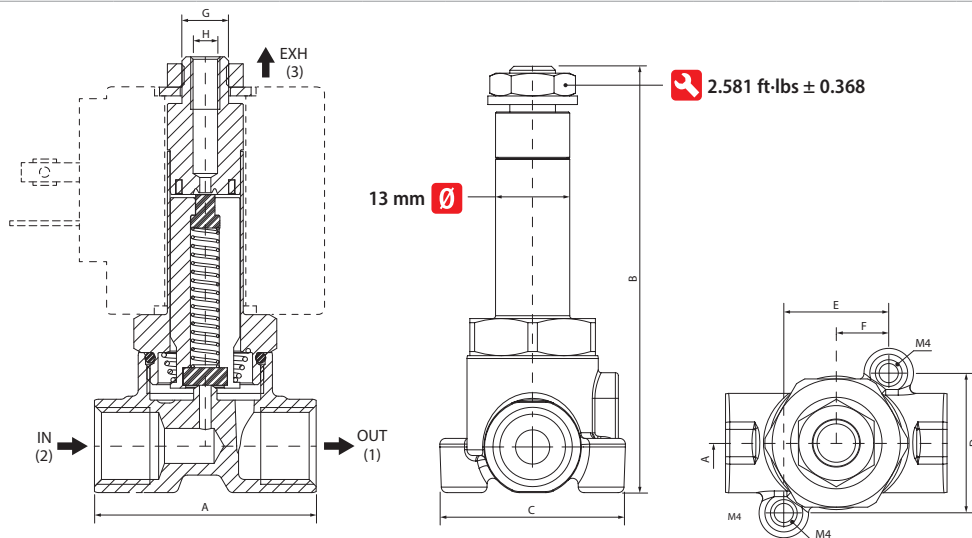
*Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.*

Code	Sealing materials	Port size	Ø Orifice		Viscosity	Cv (Kv)		Differential pressure (OPD)			Power		Coils			
			inch (mm)			cSt	gpm (m <sup>3</sup> /h)		psi (bar)			DC W	AC VA	Size mm	Series C - Page 15.4 D - Page 15.5 E - Page 15.6	
			IN	EXH			IN	EXH	Min	Max DC	Max AC					
<b>02F 02 3 15 _ 0 N</b>	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)	1/8"	1/16 (1.5)	5/64 (1.9)	25	0.07 (0.06)	0.12 (0.10)	0	363 (25)	363 (25)	363 (25)	8	14	30	C - SOL20	
363 (25)									363 (25)	363 (25)	14	21	30	D - SOL20		
<b>02F 02 3 02 _ 0 N</b>			5/64 (2)	5/64 (1.9)	37	0.12 (0.10)	0.12 (0.10)	0	261 (18)	261 (18)	261 (18)	8	14	30	C - SOL20	
261 (18)									261 (18)	261 (18)	14	21	30	D - SOL20		
<b>02F 02 3 25 _ 0 N</b>			<b>V = FKM</b> +14°F +284°F (-10°C +140°C)	3/32 (2.5)	5/64 (1.9)	37	0.17 (0.15)	0.12 (0.10)	0	189 (13)	189 (13)	189 (13)	8	14	30	C - SOL20
189 (13)										189 (13)	189 (13)	14	21	30	D - SOL20	
<b>02F 02 3 03 _ 0 N</b>	<b>E = EPDM</b> +14°F +284°F (-10°C +140°C)	1/8 (3)	5/64 (1.9)	37	0.24 (0.21)	0.12 (0.10)	0	145 (10)	145 (10)	145 (10)	8	14	30	C - SOL20		
145 (10)								145 (10)	145 (10)	14	21	30	D - SOL20			
<b>02F 02 3 04 _ 0 N</b>	<b>C = CR</b> -31°F +212°F (-35°C +100°C)	5/32 (4)	5/64 (1.9)	37	0.41 (0.35)	0.12 (0.10)	0	87 (6)	87 (6)	87 (6)	8	14	30	C - SOL20		
87 (6)								87 (6)	87 (6)	14	21	30	D - SOL20			
<b>02F 02 3 05 _ 0 N</b>	13/64 (5)	5/64 (1.9)	37	0.59 (0.51)	0.12 (0.10)	0	44 (3)	44 (3)	44 (3)	8	14	30	C - SOL20			
44 (3)							44 (3)	44 (3)	14	21	30	D - SOL20				
<b>02F 03 3 15 _ 0 N</b>	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)	1/4"	1/16 (1.5)	5/64 (1.9)	25	0.07 (0.06)	0.12 (0.10)	0	363 (25)	363 (25)	363 (25)	8	14	30	C - SOL20	
363 (25)									363 (25)	363 (25)	14	21	30	D - SOL20		
<b>02F 03 3 02 _ 0 N</b>			5/64 (2)	5/64 (1.9)	37	0.12 (0.10)	0.12 (0.10)	0	261 (18)	261 (18)	261 (18)	8	14	30	C - SOL20	
261 (18)									261 (18)	261 (18)	14	21	30	D - SOL20		
<b>02F 03 3 25 _ 0 N</b>			<b>V = FKM</b> +14°F +284°F (-10°C +140°C)	3/32 (2.5)	5/64 (1.9)	37	0.17 (0.15)	0.12 (0.10)	0	189 (13)	189 (13)	189 (13)	8	14	30	C - SOL20
189 (13)										189 (13)	189 (13)	14	21	30	D - SOL20	
<b>02F 03 3 03 _ 0 N</b>	<b>E = EPDM</b> +14°F +284°F (-10°C +140°C)	1/8 (3)	5/64 (1.9)	37	0.24 (0.21)	0.12 (0.10)	0	145 (10)	145 (10)	145 (10)	8	14	30	C - SOL20		
145 (10)								145 (10)	145 (10)	14	21	30	D - SOL20			
<b>02F 03 3 04 _ 0 N</b>	<b>C = CR</b> -31°F +212°F (-35°C +100°C)	5/32 (4)	5/64 (1.9)	37	0.41 (0.35)	0.12 (0.10)	0	87 (6)	87 (6)	87 (6)	8	14	30	C - SOL20		
87 (6)								87 (6)	87 (6)	14	21	30	D - SOL20			
<b>02F 03 3 05 _ 0 N</b>	13/64 (5)	5/64 (1.9)	37	0.59 (0.51)	0.12 (0.10)	0	44 (3)	44 (3)	44 (3)	8	14	30	C - SOL20			
44 (3)							44 (3)	44 (3)	14	21	30	D - SOL20				

① Select seal material

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

Coil not included



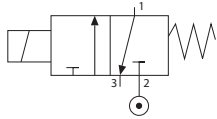
Size	A	B	C	D	E	F	G	H
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)		
1/8"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1	M5
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1	M5

# Series 02F

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

3/2 NC

3/8 - 1/2"



### Component Parts and Materials

- 1 Body: Brass CW614N
- 2 Seals: NBR - EPDM - FKM - CR
- 3 Armature tube: Stainless steel
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel



### General features - 02F

- Universal mounting position
- Operator kit Ø 13 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



### Maximum allowable pressure

725 psi (50 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, Air, Inert gases, Vacuum
- Food industry, Misting
- Car washes, Washing systems, Pressure washers
- Industrial processes, Automation, Refrigeration
- Machine tools, Laser cutting, Compressors
- Oxygen, Steam, Medical, Sterilizers
- Chemical and Petrochemical industry, Hi-Tech



### Ordering codes

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
<b>0 2 F</b>	<b>0 4</b>	<b>3</b>	<b>0 3</b>	<b>N</b>	<b>0</b>	<b>N</b>	<b>C</b>	<b>A</b>
	04 = 3/8" 05 = 1/2"	3 = 3/2 NC	03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	N = NBR E = EPDM V = FKM C = CR	0 = Standard	N = NPTF	C = C series - SOL20 D = D series - SOL20 E = E series - SOL21	A = 12V DC B = 24V DC 1 = 24V AC 2 = 110V AC 3 = 220V AC

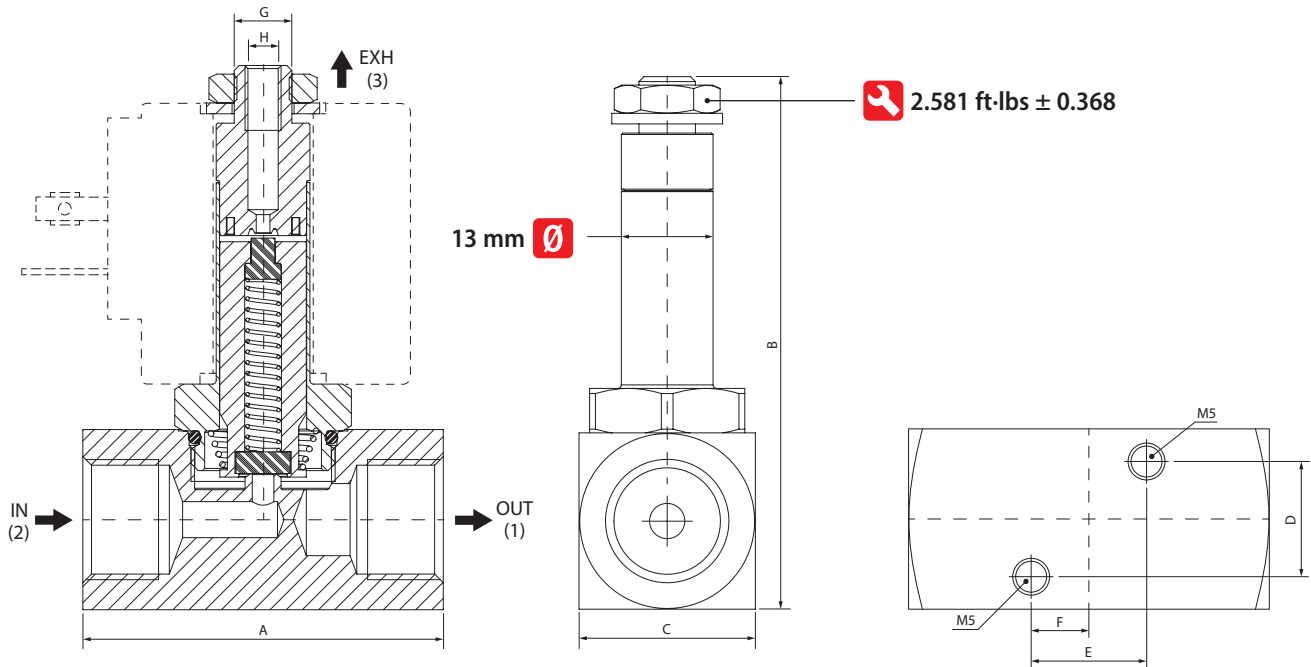
Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.

Code	Sealing materials	Port size	Ø Orifice		Viscosity	Cv (Kv)		Differential pressure (OPD)			Power		Coils		
			inch (mm)			cSt	gpm (m <sup>3</sup> /h)		psi (bar)			DC	AC	Size	Series
			IN	EXH			IN	EXH	Min	Max DC	Max AC	W	VA		
<b>02F 04 3 15_0 N</b>	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)	3/8"	1/8 (3)	5/64 (1.9)	37	0.24 (0.21)	0.12 (0.10)	0	145 (10)	145 (10)	8	14	30	C - SOL20	
<b>02F 04 3 02_0 N</b>			5/32 (4)	5/64 (1.9)	37	0.41 (0.35)	0.12 (0.10)	0	87 (6)	87 (6)	14	21	30	D - SOL20	
<b>02F 04 3 25_0 N</b>			13/64 (5)	5/64 (1.9)	37	0.59 (0.51)	0.12 (0.10)	0	44 (3)	44 (3)	22	31	36	E - SOL21	
<b>02F 05 3 03_0 N</b>	<b>E = EPDM</b> +14°F +284°F (-10°C +140°C)	1/2"	1/8 (3)	5/64 (1.9)	37	0.24 (0.21)	0.12 (0.10)	0	145 (10)	145 (10)	8	14	30	C - SOL20	
<b>02F 05 3 04_0 N</b>			5/32 (4)	5/64 (1.9)	37	0.41 (0.35)	0.12 (0.10)	0	87 (6)	87 (6)	14	21	30	D - SOL20	
<b>02F 05 3 05_0 N</b>			13/64 (5)	5/64 (1.9)	37	0.59 (0.51)	0.12 (0.10)	0	44 (3)	44 (3)	22	31	36	E - SOL21	

① Select seal material

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

Coil not included



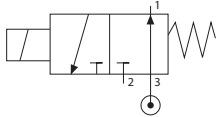
Size	A	B	C	D	E	F	G	H
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)		
3/8"	1.968 (50)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1	M5
1/2"	2.283 (58)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1	M5

**Series 02F**

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

**3/2 NO**

**1/8" - 1/4"**



**Component Parts and Materials**

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



**General features - 02F**

- Universal mounting position
- Operator kit Ø 13 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



**Maximum allowable pressure**

**725 psi (50 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, Air, Inert gases, Vacuum
- Food industry, Misting
- Car washes, Washing systems, Pressure washers
- Industrial processes, Automation, Refrigeration
- Machine tools, Laser cutting, Compressors
- Oxygen, Steam, Medical, Sterilizers
- Chemical and Petrochemical industry, Hi-Tech



**Ordering codes**

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils
<b>0 2 F</b>	<b>0 3</b> 02 = 1/8" 03 = 1/4"	<b>4</b> 4 = 3/2 NO	<b>1 5</b> 15 = 1/16 (1.5) 02 = 5/64 (2) 25 = 3/32 (2.5) 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	<b>N</b> N = NBR E = EPDM V = FKM C = CR	<b>0</b> 0 = Standard	<b>N</b> N = NPTF	<b>C</b> C = C series - SOL20 <b>D</b> D = D series - SOL20 <b>E</b> E = E series - SOL21 <b>A</b> A = 12V DC <b>B</b> B = 24V DC <b>1</b> 1 = 24V AC <b>2</b> 2 = 110V AC <b>3</b> 3 = 220V AC

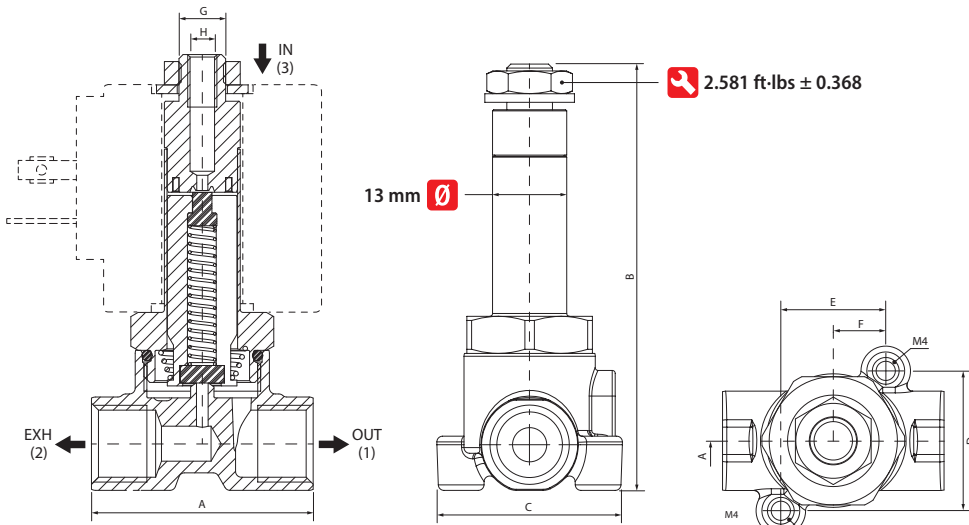
Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.

Code	Sealing materials	Port size	Ø Orifice		Viscosity	Cv (Kv)		Differential pressure (OPD)			Power		Coils							
			inch (mm)			cSt	gpm (m <sup>3</sup> /h)		psi (bar)			DC W	AC VA	Size mm	Series C - Page 15.4 D - Page 15.5 E - Page 15.6					
			IN	EXH			IN	EXH	Min	Max DC	Max AC									
02F 02 4 15 _ 0 N	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)	1/8"	5/64 (1.9)	1/16 (1.5)	25	0.12 (0.10)	0.07 (0.06)	0	218 (15)	218 (15)	218 (15)	218 (15)	8	14	30	C - SOL20				
218 (15)									218 (15)	218 (15)	218 (15)	14	21	30	D - SOL20					
02F 02 4 02 _ 0 N			<b>V = FKM</b> +14°F +284°F (-10°C +140°C)	1/8"	5/64 (1.9)	5/64 (2)	37	0.12 (0.10)	0.12 (0.10)	0	218 (15)	218 (15)	218 (15)	218 (15)	8	14	30	C - SOL20		
218 (15)											218 (15)	218 (15)	218 (15)	14	21	30	D - SOL20			
02F 02 4 25 _ 0 N					<b>E = EPDM</b> +14°F +284°F (-10°C +140°C)	1/8"	5/64 (1.9)	3/32 (2.5)	37	0.12 (0.10)	0.17 (0.15)	0	218 (15)	218 (15)	218 (15)	218 (15)	8	14	30	C - SOL20
218 (15)													218 (15)	218 (15)	218 (15)	14	21	30	D - SOL20	
02F 02 4 03 _ 0 N	<b>C = CR</b> -31°F +212°F (-35°C +100°C)	1/8"					5/64 (1.9)	1/8 (3)	37	0.12 (0.10)	0.24 (0.21)	0	145 (10)	218 (15)	218 (15)	218 (15)	8	14	30	C - SOL20
218 (15)													218 (15)	218 (15)	218 (15)	14	21	30	D - SOL20	
02F 02 4 04 _ 0 N			<b>C = CR</b> -31°F +212°F (-35°C +100°C)	1/8"			5/64 (1.9)	5/32 (4)	37	0.12 (0.10)	0.41 (0.35)	0	58 (4)	145 (10)	218 (15)	218 (15)	8	14	30	C - SOL20
102 (7)													218 (15)	218 (15)	218 (15)	14	21	30	D - SOL20	
02F 02 4 05 _ 0 N					<b>C = CR</b> -31°F +212°F (-35°C +100°C)	1/8"	5/64 (1.9)	13/64 (5)	37	0.12 (0.10)	0.59 (0.51)	0	29 (2)	87 (6)	138 (9.5)	174 (12)	8	14	30	C - SOL20
44 (3)													138 (9.5)	174 (12)	174 (12)	14	21	30	D - SOL20	
02F 03 4 15 _ 0 N	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)	1/4"					5/64 (1.9)	1/16 (1.5)	25	0.12 (0.10)	0.07 (0.06)	0	218 (15)	218 (15)	218 (15)	218 (15)	8	14	30	C - SOL20
218 (15)													218 (15)	218 (15)	218 (15)	14	21	30	D - SOL20	
02F 03 4 02 _ 0 N			<b>V = FKM</b> +14°F +284°F (-10°C +140°C)	1/4"			5/64 (1.9)	5/64 (2)	37	0.12 (0.10)	0.12 (0.10)	0	218 (15)	218 (15)	218 (15)	218 (15)	8	14	30	C - SOL20
218 (15)													218 (15)	218 (15)	218 (15)	14	21	30	D - SOL20	
02F 03 4 25 _ 0 N					<b>E = EPDM</b> +14°F +284°F (-10°C +140°C)	1/4"	5/64 (1.9)	3/32 (2.5)	37	0.12 (0.10)	0.17 (0.15)	0	218 (15)	218 (15)	218 (15)	218 (15)	8	14	30	C - SOL20
218 (15)													218 (15)	218 (15)	218 (15)	14	21	30	D - SOL20	
02F 03 4 03 _ 0 N	<b>C = CR</b> -31°F +212°F (-35°C +100°C)	1/4"					5/64 (1.9)	1/8 (3)	37	0.12 (0.10)	0.24 (0.21)	0	145 (10)	218 (15)	218 (15)	218 (15)	8	14	30	C - SOL20
218 (15)													218 (15)	218 (15)	218 (15)	14	21	30	D - SOL20	
02F 03 4 04 _ 0 N			<b>C = CR</b> -31°F +212°F (-35°C +100°C)	1/4"			5/64 (1.9)	5/32 (4)	37	0.12 (0.10)	0.41 (0.35)	0	58 (4)	145 (10)	218 (15)	218 (15)	8	14	30	C - SOL20
102 (7)													218 (15)	218 (15)	218 (15)	14	21	30	D - SOL20	
02F 03 4 05 _ 0 N					<b>C = CR</b> -31°F +212°F (-35°C +100°C)	1/4"	5/64 (1.9)	13/64 (5)	37	0.12 (0.10)	0.59 (0.51)	0	29 (2)	87 (6)	138 (9.5)	174 (12)	8	14	30	C - SOL20
44 (3)													138 (9.5)	174 (12)	174 (12)	14	21	30	D - SOL20	

① Select seal material

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

Coil not included



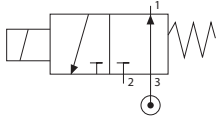
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G	H
1/8"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1	M5
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1	M5

**Series 02F**

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

**3/2 NO**

**3/8 - 1/2"**



**Component Parts and Materials**

- 1 Body: Brass CW614N
- 2 Seals: NBR - EPDM - FKM - CR
- 3 Armature tube: Stainless steel
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel



**General features - 02F**

- Universal mounting position
- Operator kit Ø 13 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



**Maximum allowable pressure**

**725 psi (50 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, Air, Inert gases, Vacuum
- Food industry, Misting
- Car washes, Washing systems, Pressure washers
- Industrial processes, Automation, Refrigeration
- Machine tools, Laser cutting, Compressors
- Oxygen, Steam, Medical, Sterilizers
- Chemical and Petrochemical industry, Hi-Tech



**Ordering codes**

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils
<b>0 2 F</b>	<b>0 4</b> 04 = 3/8" 05 = 1/2"	<b>4</b> 4 = 3/2 NO	<b>0 3</b> 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	<b>N</b> N = NBR E = EPDM V = FKM C = CR	<b>0</b> 0 = Standard	<b>N</b> N = NPTF	<b>C</b> <b>A</b> C = C series - SOL20      A = 12V DC D = D series - SOL20      B = 24V DC E = E series - SOL21      1 = 24V AC 2 = 110V AC 3 = 220V AC

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

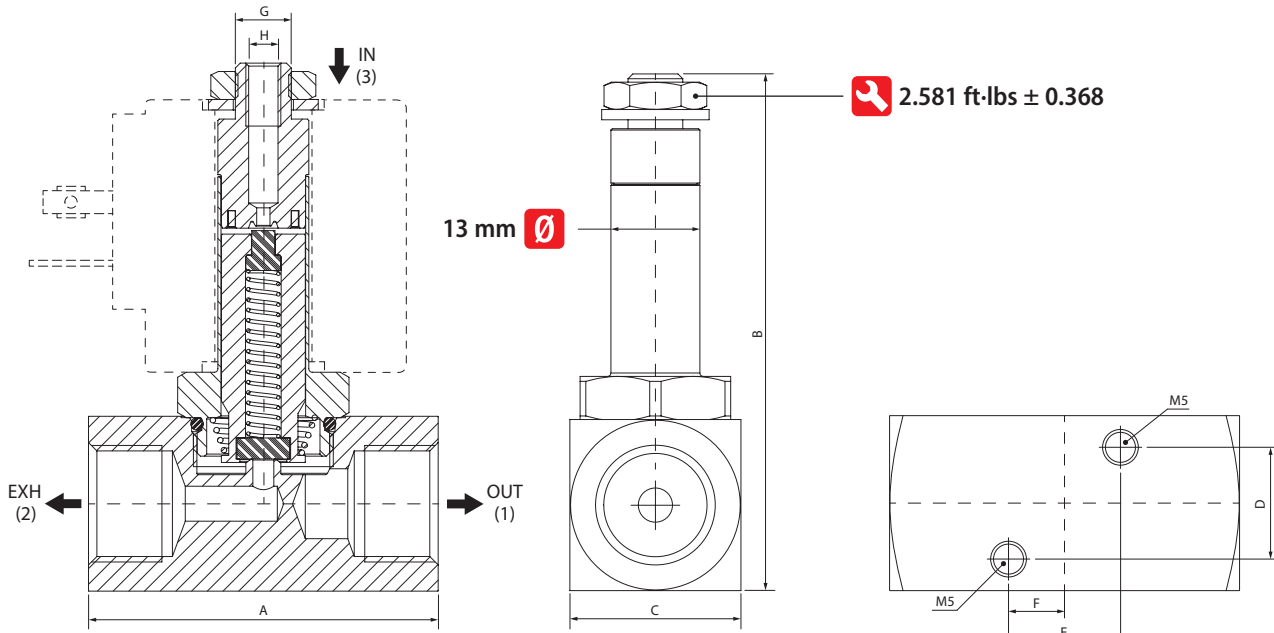
Code	Sealing materials	Port size	Ø Orifice		Viscosity	Cv (Kv)		Differential pressure (OPD)			Power		Coils					
			inch (mm)			cSt	gpm (m <sup>3</sup> /h)		psi (bar)			DC	AC	Size	Series			
			IN	EXH			IN	EXH	Min	Max DC	Max AC	W	VA					
<b>02F 04 4 15 _ 0 N</b>	<b>N = NBR</b> +14°F +194°F (-10°C +90°C)	3/8"	5/64 (1.9)	1/8 (3)	37	0.12 (0.10)	0.24 (0.21)	0	145 (10)	218 (15)	218 (15)	218 (15)	8	14	30	C - SOL20		
<b>02F 04 4 02 _ 0 N</b>			5/64 (1.9)	5/32 (4)	37	0.12 (0.10)	0.41 (0.35)	0	58 (4)	145 (10)	102 (7)	218 (15)	189 (13)	218 (15)	8	14	30	C - SOL20
<b>02F 04 4 25 _ 0 N</b>			5/64 (1.9)	13/64 (5)	37	0.12 (0.10)	0.59 (0.51)	0	29 (2)	87 (6)	44 (3)	138 (9.5)	116 (8)	174 (12)	8	14	30	C - SOL20
<b>02F 05 4 03 _ 0 N</b>	<b>E = EPDM</b> +14°F +284°F (-10°C +140°C)	1/2"	5/64 (1.9)	1/8 (3)	37	0.12 (0.10)	0.24 (0.21)	0	145 (10)	218 (15)	218 (15)	218 (15)	8	14	30	C - SOL20		
<b>02F 05 4 04 _ 0 N</b>			5/64 (1.9)	5/32 (4)	37	0.12 (0.10)	0.41 (0.35)	0	58 (4)	145 (10)	102 (7)	218 (15)	189 (13)	218 (15)	8	14	30	C - SOL20
<b>02F 05 4 05 _ 0 N</b>			5/64 (1.9)	13/64 (5)	37	0.12 (0.10)	0.59 (0.51)	0	29 (2)	87 (6)	44 (3)	138 (9.5)	116 (8)	174 (12)	8	14	30	C - SOL20

DC	AC	Size	Series
8	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
8	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
8	14	30	C - SOL20
14	21	30	D - SOL20
22	31	36	E - SOL21
8	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	B	C	D	E	F	G	H
3/8"	1.968 (50)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1	M5
1/2"	2.283 (58)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1	M5