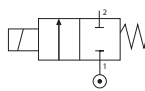




2/2 NC



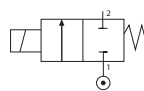
1/4"

Page 6.2





2/2 NC



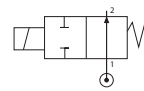
3/8" - 1/2"

Page 6.4





2/2 NO



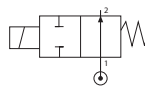
1/4"

Page 6.6





2/2 NO



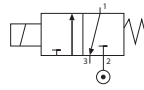
3/8" - 1/2"

Page 6.8





3/2 NC



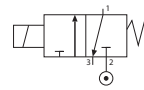
1/4"

Page 6.10





3/2 NC



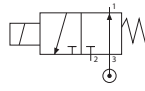
3/8" - 1/2"

Page 6.12





3/2 NO



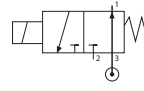
1/4"

Page 6.14





3/2 NO



3/8" - 1/2"

Page 6.16



Series 02F

Coils & Connectors



30 mm

Series C

Page 17.4





30 mm

Series D

Page 17.5





36 mm

Series E

Page 17.6





Connectors

Page 17.8 - 17.10



DIRECT ACTING SOLENOID VALVES WITH BRASS BODY



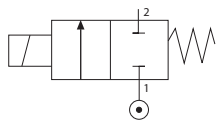
Series 02F

Series 02F

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

2/2 NC

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	
0 2 F	0 3	1	0 1	N	0	N	C	A
	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)			Power		Coils	
		NPTF	inch (mm)	cSt	gpm (m ³ /h)	psi (bar)			DC W	AC VA	Size mm	Series C - Page 17.4 D - Page 17.5 E - Page 17.6
						Min	Max DC	Max AC				
02F 03 1 01 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C)	1/4"	1/32 (1)	25	0.05 (0.04)	0	1450 (100)	1450 (100)	8	14	30	C - SOL20
02F 03 1 15 _ 0 N	F = NBR		1/16 (1.5)	25	0.07 (0.06)	0	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
02F 03 1 02 _ 0 N	V = FKM +14°F +284°F (-10°C +140°C)		5/64 (2)	37	0.12 (0.10)	0	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
02F 03 1 25 _ 0 N	E = EPDM +14°F +284°F (-10°C +140°C)		3/32 (2.5)	53	0.17 (0.15)	0	305 (21)	508 (35)	14	21	30	D - SOL20
							435 (30)	580 (40)	22	31	36	E - SOL21
							653 (45)	725 (50)	8	14	30	C - SOL20
02F 03 1 03 _ 0 N	P = PTFE * -40°F +356°F (-40°C +180°C)	1/4"	1/8 (3)	53	0.24 (0.21)	0	145 (10)	305 (21)	14	21	30	D - SOL20
			5/32 (4)	53	0.41 (0.35)	0	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 04 _ 0 N	R = RUBY * -40°F +356°F (-40°C +180°C)		13/64 (5)	53	0.59 (0.51)	0	87 (6)	203 (14)	22	31	36	E - SOL21
							218 (15)	290 (20)	8	14	30	C - SOL20
							20 (1.4)	73 (5)	14	21	30	D - SOL20
02F 03 1 05 _ 0 N	C = CR -31°F +212°F (-35°C +100°C)		1/4 (6.4)	53	0.76 (0.65)	0	32 (2.2)	102 (7)	22	31	36	E - SOL21
							80 (5.5)	145 (10)	-	14	30	C - SOL20
							-	36 (2.5)	14	21	30	D - SOL20
02F 03 1 64 _ 0 N							22 (1.5)	51 (3.5)	22	31	36	E - SOL21
							65 (4.5)	73 (5)				

① Select seal material

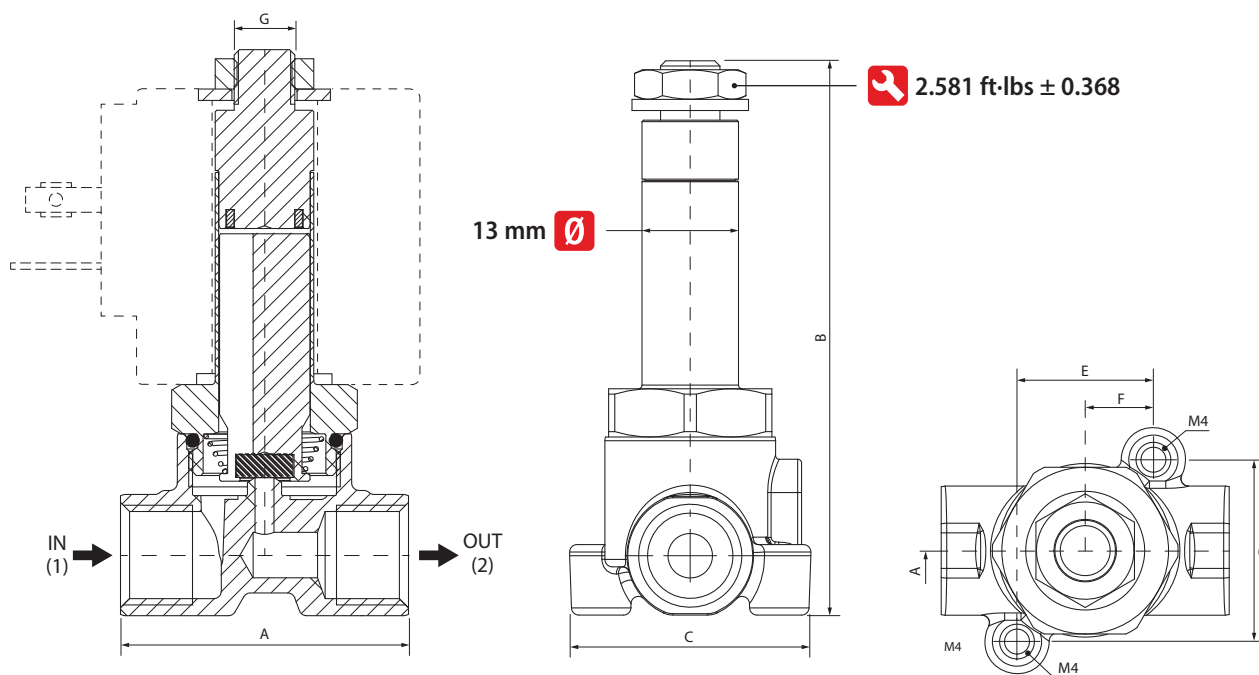
With steam: EPDM - P max = 36 psi (2.5 bar) / PTFE & RUBY - P max = 145 psi (10 bar)

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

* RUBY - orifice max Ø 3/32" (2.5 mm): Only with stainless steel seat

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

Coil not included



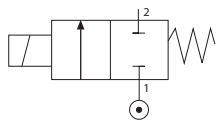
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1

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	
0 2 F	0 4 04 = 3/8" 05 = 1/2"	1 1 = 2/2 NC	0 3 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5) 64 = 1/4 (6.4)	N N = NBR F = NBR E = EPDM V = FKM P = PTFE C = CR	0 0 = Standard	N N = NPTF	C C = C series - SOL20 D = D series - SOL20 E = E series - SOL21	A 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	
						psi (bar)			DC	AC	Size	Series
						Min	Max DC	Max AC	W	VA	mm	C - Page 17.4 D - Page 17.5 E - Page 17.6
①	①	NPTF	inch (mm)	cSt	gpm (m ³ /h)							
02F 04 1 03 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C)	3/8"	1/8 (3)	53	0.24 (0.21)	0	145 (10) 362 (25) 580 (40)	305 (21) 435 (30) 580 (40)	8 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21
02F 04 1 04 _ 0 N			5/32 (4)	53	0.41 (0.35)	0	44 (3) 87 (6) 218 (15)	145 (10) 203 (14) 290 (20)	8 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21
02F 04 1 05 _ 0 N			13/64 (5)	53	0.59 (0.51)	0	20 (1.4) 32 (2.2) 80 (5.5)	73 (5) 102 (7) 145 (10)	8 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21
02F 04 1 64 _ 0 N			1/4 (6.4)	53	0.76 (0.65)	0	- 22 (1.5) 65 (4.5)	36 (2.5) 51 (3.5) 73 (5)	- 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21
02F 05 1 03 _ 0 N	E = EPDM +14°F +284°F (-10°C +140°C)	1/2"	1/8 (3)	53	0.24 (0.21)	0	145 (10) 362 (25) 580 (40)	305 (21) 435 (30) 580 (40)	8 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21
02F 05 1 04 _ 0 N	P = PTFE * -40°F +356°F (-40°C +180°C)		5/32 (4)	53	0.41 (0.35)	0	44 (3) 87 (6) 218 (15)	145 (10) 203 (14) 290 (20)	8 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21
02F 05 1 05 _ 0 N	C = CR -31°F +212°F (-35°C +100°C)		13/64 (5)	53	0.59 (0.51)	0	20 (1.4) 32 (2.2) 80 (5.5)	73 (5) 102 (7) 145 (10)	8 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21
02F 05 1 64 _ 0 N			1/4 (6.4)	53	0.76 (0.65)	0	- 22 (1.5) 65 (4.5)	36 (2.5) 51 (3.5) 73 (5)	- 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21

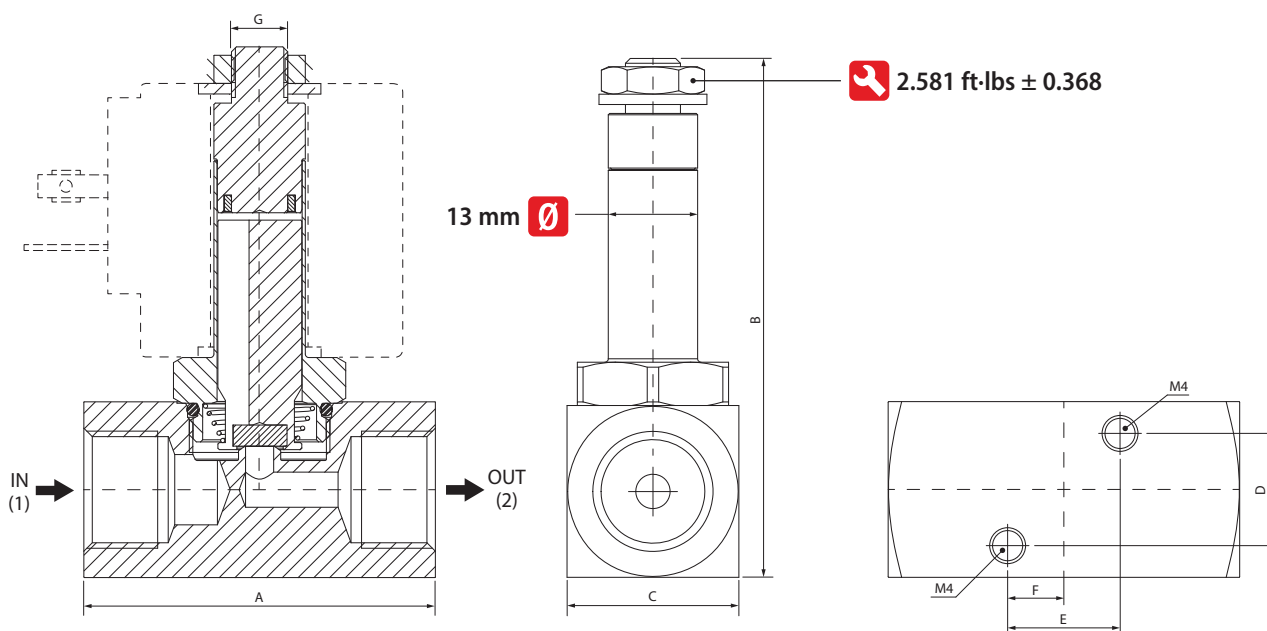
① Select seal material

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



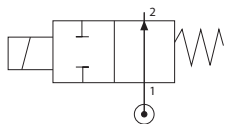
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
3/8"	1.968 (50)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1
1/2"	2.283 (58)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1

Series 02F

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

2/2 NO

1/4"



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	
0 2 F	0 3 03 = 1/4"	2 2 = 2/2 NO	1 5 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 N = NBR E = EPDM V = FKM C = CR	0 0 = Standard	N N = NPTF	C C = C series - SOL20 D = D series - SOL20 E = E series - SOL21	A A = 12V DC B = 24V DC 1 = 24V AC 2 = 110V AC 3 = 220V AC

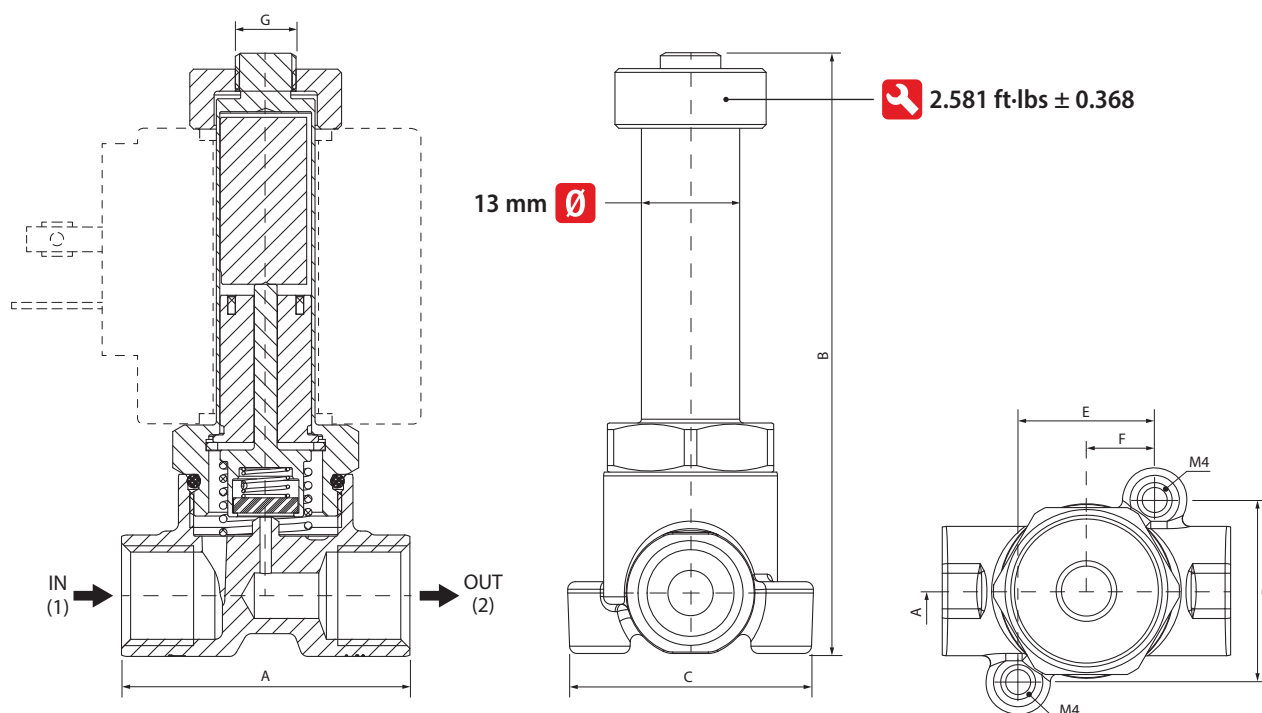
Valves and coils are supplied separately.
Upon commercial agreements can be supplied assembled.

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils		
①	①	NPTF	inch (mm)	cSt	gpm (m³/h)	psi (bar)			DC	AC	Size	Series	
						Min	Max DC	Max AC					
						02F 03 2 15 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C)	1/4"	1/16 (1.5)	25	0.07 (0.06)	0	-
02F 03 2 02 _ 0 N	363 (25)	363 (25)	D - SOL20										
02F 03 2 25 _ 0 N	363 (25)	363 (25)		E - SOL21									
02F 03 2 03 _ 0 N	5/64 (2)	37			0.12 (0.10)	0			-	261 (18)	-	14	30
			261 (18)						261 (18)	D - SOL20			
			261 (18)	261 (18)					E - SOL21				
02F 03 2 04 _ 0 N	3/32 (2.5)	53	0.17 (0.15)	0	-	174 (12)	-	14			30	C - SOL20	
					174 (12)	174 (12)				D - SOL20			
					174 (12)	174 (12)			E - SOL21				
02F 03 2 05 _ 0 N	1/8 (3)	53	0.24 (0.21)	0	-	109 (7.5)	-	14			30	C - SOL20	
					109 (7.5)	109 (7.5)				D - SOL20			
					109 (7.5)	109 (7.5)			E - SOL21				
02F 03 2 06 _ 0 N	5/32 (4)	53	0.41 (0.35)	0	-	65 (4.5)	-	14			30	C - SOL20	
					65 (4.5)	65 (4.5)				D - SOL20			
					65 (4.5)	65 (4.5)			E - SOL21				
02F 03 2 07 _ 0 N	13/64 (5)	53	0.59 (0.51)	0	-	36 (2.5)	-	14			30	C - SOL20	
					36 (2.5)	36 (2.5)				D - SOL20			
					36 (2.5)	36 (2.5)			E - SOL21				

① Select seal material

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

Coil not included



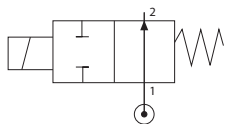
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/4"	1.496 (38)	3.129 (79.5)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1

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

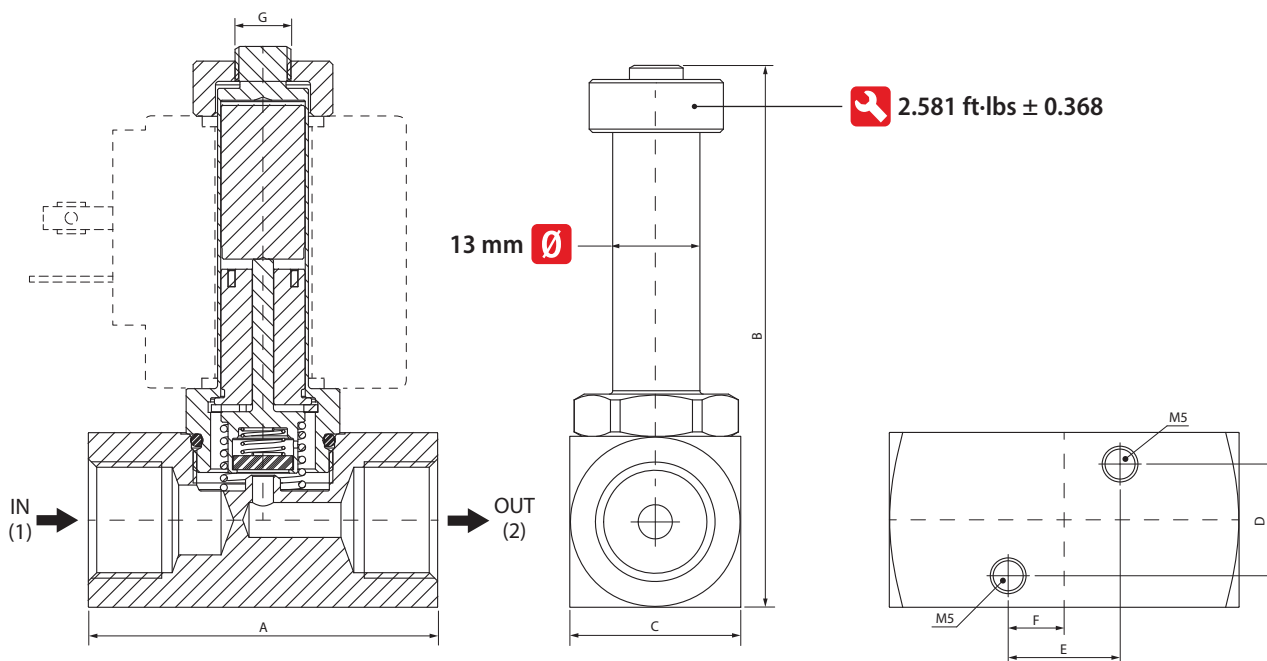
Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
0 2 F	0 4	2	0 3	N	0	N	C	A
	04 = 3/8"	2 = 2/2 NO	03 = 1/8 (3)	N = NBR	0 = Standard	N = NPTF	C = C series - SOL20	A = 12V DC
	05 = 1/2"		04 = 5/32 (4)	E = EPDM			D = D series - SOL20	B = 24V DC
			05 = 13/64 (5)	V = FKM			E = E series - SOL21	1 = 24V AC
				C = CR				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	
						psi (bar)			DC W	AC VA	Size mm	Series C - Page 17.4 D - Page 17.5 E - Page 17.6
						Min	Max DC	Max AC				
①	①	NPTF	inch (mm)	cSt	gpm (m ³ /h)							
02F 04 2 03 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C)	3/8"	1/8 (3)	53	0.24 (0.21)	0	- 109 (7.5) 109 (7.5)	109 (7.5)	-	14	30	C - SOL20
02F 04 2 04 _ 0 N			5/32 (4)	53	0.41 (0.35)	0	- 65 (4.5) 65 (4.5)	65 (4.5)	-	14	30	D - SOL20
02F 04 2 05 _ 0 N			13/64 (5)	53	0.59 (0.51)	0	- 36 (2.5) 36 (2.5)	36 (2.5)	-	14	30	E - SOL21
02F 05 2 03 _ 0 N	E = EPDM +14°F +284°F (-10°C +140°C)	1/2"	1/8 (3)	53	0.24 (0.21)	0	- 109 (7.5) 109 (7.5)	109 (7.5)	-	14	30	C - SOL20
02F 05 2 04 _ 0 N			5/32 (4)	53	0.41 (0.35)	0	- 65 (4.5) 65 (4.5)	65 (4.5)	-	14	30	D - SOL20
02F 05 2 05 _ 0 N			13/64 (5)	53	0.59 (0.51)	0	- 36 (2.5) 36 (2.5)	36 (2.5)	-	14	30	E - SOL21

① Select seal material

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

Coil not included



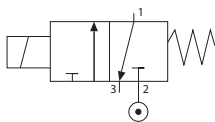
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
3/8"	1.968 (50)	3.161 (80.3)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1
1/2"	2.283 (58)	3.161 (80.3)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1

Series 02F

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

3/2 NC

1/4"



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

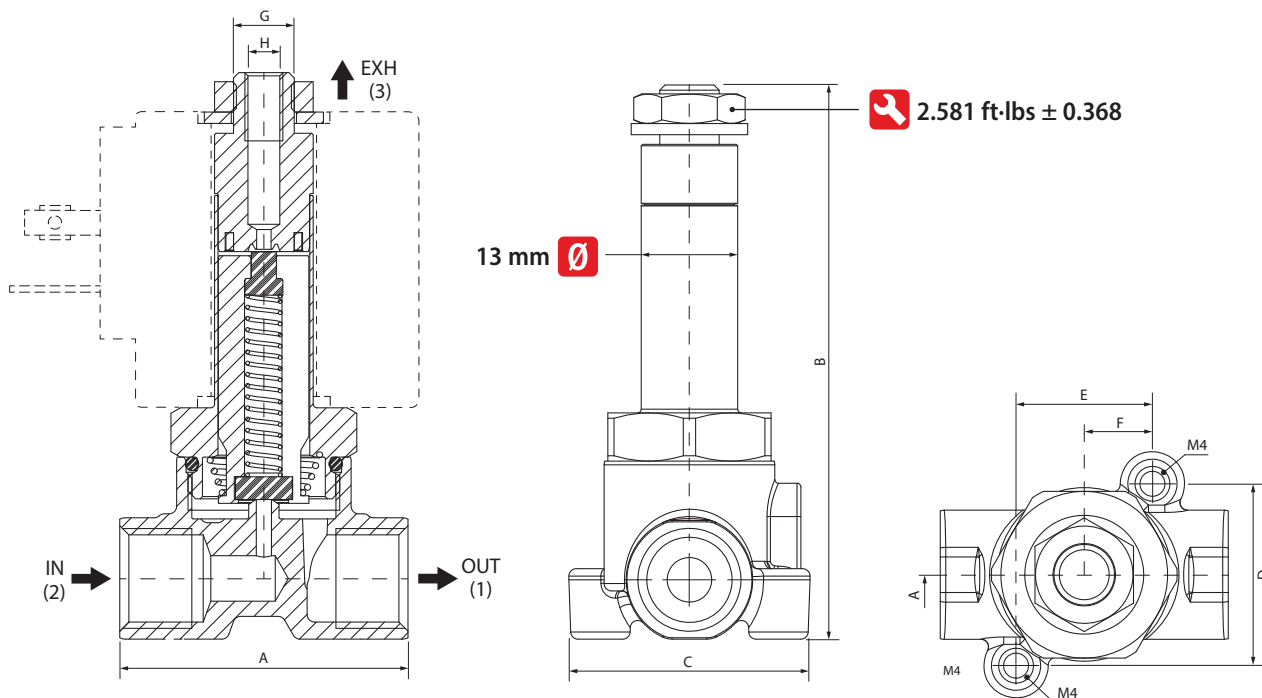
Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
0 2 F	0 3	3	1 5	N	0	N	C	A
	03 = 1/4"	3 = 3/2 NC	15 = 1/16 (1.5) 02 = 5/64 (2) 25 = 3/32 (2.5) 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	N = NBR E = EPDM V = FKM C = CR	0 = Standard	N = NPTF	C = C series - SOL20 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	
①	①	NPTF	inch (mm)		cSt	gpm (m³/h)		psi (bar)			DC	AC	Size	Series
			IN	EXH		IN	EXH	Min	Max DC	Max AC				
02F 03 3 15 _ 0 N	N = NBR +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)	8	14	30	C - SOL20
02F 03 3 02 _ 0 N			5/64 (2)	5/64 (1.9)	37	0.12 (0.10)	0.12 (0.10)		0	363 (25)	363 (25)	14	21	30
	363 (25)									363 (25)	22	31	36	E - SOL21
	261 (18)							261 (18)		8	14	30	C - SOL20	
02F 03 3 25 _ 0 N	V = FKM +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	261 (18)	261 (18)	14	21	30	D - SOL20
									261 (18)	261 (18)	22	31	36	E - SOL21
									189 (13)	189 (13)	8	14	30	C - SOL20
02F 03 3 03 _ 0 N	E = EPDM +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	189 (13)	189 (13)	14	21	30	D - SOL20	
								189 (13)	189 (13)	22	31	36	E - SOL21	
								145 (10)	145 (10)	8	14	30	C - SOL20	
02F 03 3 04 _ 0 N	C = CR -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	145 (10)	145 (10)	14	21	30	D - SOL20	
								87 (6)	87 (6)	22	31	36	E - SOL21	
								87 (6)	87 (6)	8	14	30	C - SOL20	
02F 03 3 05 _ 0 N		13/64 (5)	5/64 (1.9)	37	0.59 (0.51)	0.12 (0.10)	0	44 (3)	44 (3)	8	14	30	C - SOL20	
								44 (3)	44 (3)	14	21	30	D - SOL20	
								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



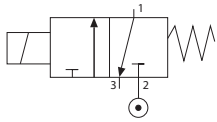
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G	H
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1	M5

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	
0 2 F	0 4 04 = 3/8" 05 = 1/2"	3 3 = 3/2 NC	0 3 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	N N = NBR E = EPDM V = FKM C = CR	0 0 = Standard	N N = NPTF	C C = C series - SOL20 D = D series - SOL20 E = E series - SOL21	A A = 12V DC B = 24V DC 1 = 24V AC 2 = 110V AC 3 = 220V AC

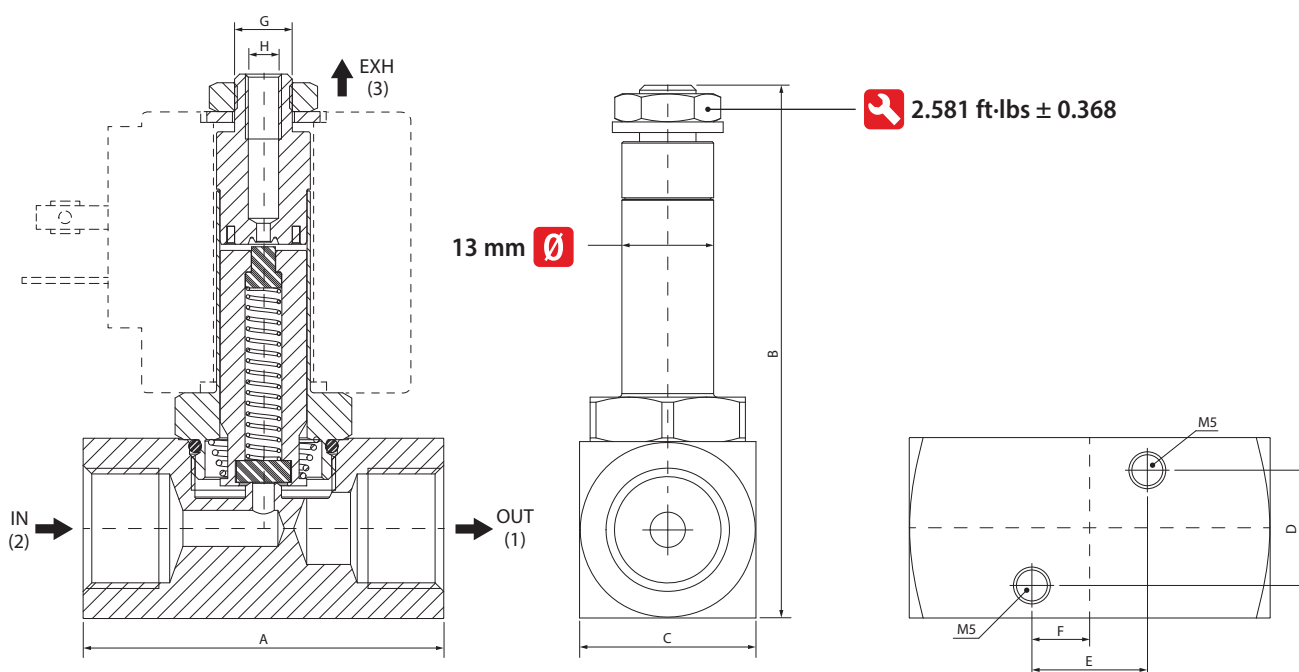
Valves and coils are supplied separately.
Upon commercial agreements can be supplied assembled.

Code	Sealing materials	Port size	Ø Orifice		Viscosity	Cv (Kv)		Differential pressure (OPD)			Power		Coils	
①	①	NPTF	inch (mm)		cSt	gpm (m³/h)		psi (bar)			DC	AC	Size	Series
			IN	EXH		IN	EXH	Min	Max DC	Max AC	W	VA	mm	C - Page 17.4 D - Page 17.5 E - Page 17.6
02F 04 3 15 _ 0 N	N = NBR +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
02F 04 3 02 _ 0 N			5/32 (4)	5/64 (1.9)	37	0.41 (0.35)	0.12 (0.10)	0	145 (10)	145 (10)	14	21	30	D - SOL20
02F 04 3 25 _ 0 N			13/64 (5)	5/64 (1.9)	37	0.59 (0.51)	0.12 (0.10)	0	145 (10)	145 (10)	22	31	36	E - SOL21
02F 05 3 03 _ 0 N	E = EPDM +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	87 (6)	87 (6)	8	14	30	C - SOL20
02F 05 3 04 _ 0 N			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
02F 05 3 05 _ 0 N			13/64 (5)	5/64 (1.9)	37	0.59 (0.51)	0.12 (0.10)	0	87 (6)	87 (6)	22	31	36	E - SOL21
	C = CR -31°F +212°F (-35°C +100°C)								44 (3)	44 (3)	8	14	30	C - SOL20
									44 (3)	44 (3)	14	21	30	D - SOL20
									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



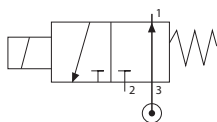
Size	A	B	C	D	E	F	G	H
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)		
3/8"	1.968 (50)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1	M5
1/2"	2.283 (58)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1	M5

Series 02F

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

3/2 NO

1/4"



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	
0 2 F	0 3 03 = 1/4"	4 4 = 3/2 NO	1 5 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 N = NBR E = EPDM V = FKM C = CR	0 0 = Standard	N N = NPTF	C C = C series - SOL20 D = D series - SOL20 E = E series - SOL21	A A = 12V DC B = 24V DC 1 = 24V AC 2 = 110V AC 3 = 220V AC

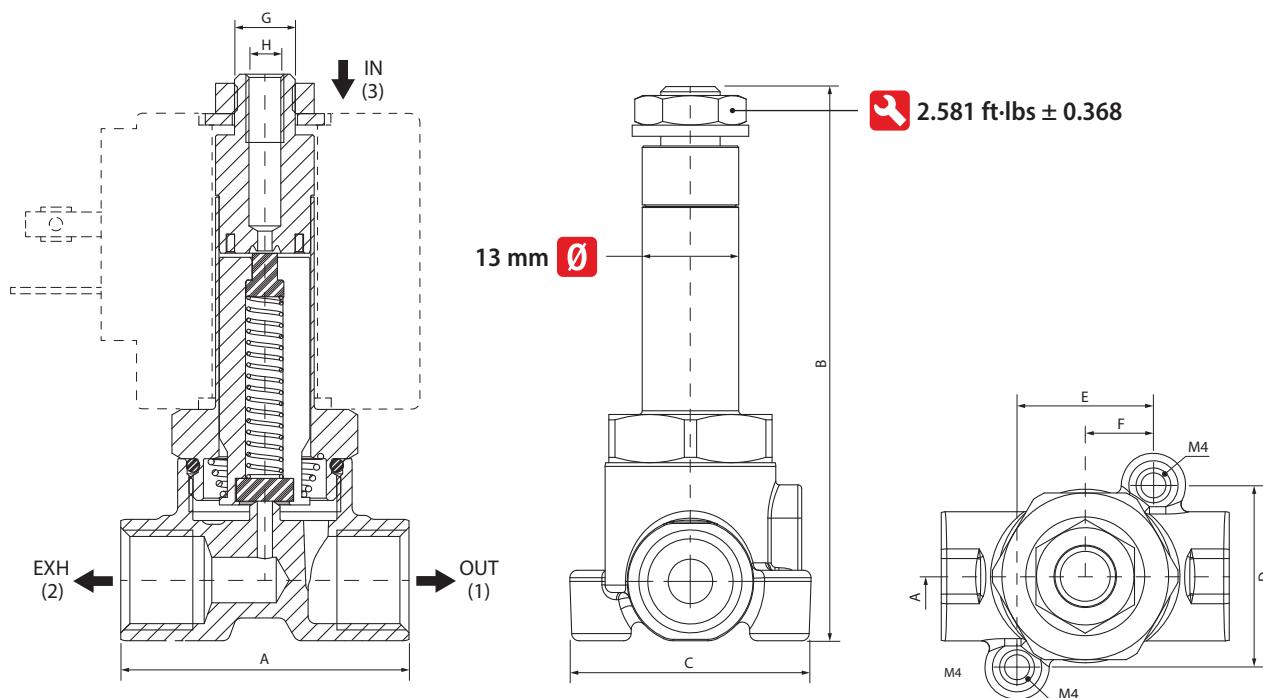
Valves and coils are supplied separately.
Upon commercial agreements can be supplied assembled.

Code	Sealing materials	Port size	Ø Orifice		Viscosity	Cv (Kv)		Differential pressure (OPD)			Power		Coils	
①	①	NPTF	inch (mm)		cSt	gpm (m³/h)		psi (bar)			DC	AC	Size	Series
			IN	EXH		IN	EXH	Min	Max DC	Max AC	W	VA	mm	C - Page 17.4 D - Page 17.5 E - Page 17.6
02F 03 4 15 _ 0 N	N = NBR +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)	8	14	30	C - SOL20
02F 03 4 02 _ 0 N			5/64 (1.9)	5/64 (2)	37	0.12 (0.10)	0.12 (0.10)	0	218 (15)	218 (15)	14	21	30	D - SOL20
02F 03 4 25 _ 0 N			5/64 (1.9)	3/32 (2.5)	37	0.12 (0.10)	0.17 (0.15)	0	218 (15)	218 (15)	22	31	36	E - SOL21
02F 03 4 03 _ 0 N			5/64 (1.9)	1/8 (3)	37	0.12 (0.10)	0.24 (0.21)	0	145 (10)	218 (15)	8	14	30	C - SOL20
02F 03 4 04 _ 0 N			5/64 (1.9)	5/32 (4)	37	0.12 (0.10)	0.41 (0.35)	0	218 (15)	218 (15)	14	21	30	D - SOL20
02F 03 4 05 _ 0 N			5/64 (1.9)	13/64 (5)	37	0.12 (0.10)	0.59 (0.51)	0	218 (15)	218 (15)	22	31	36	E - SOL21
									58 (4)	145 (10)	8	14	30	C - SOL20
									102 (7)	218 (15)	14	21	30	D - SOL20
									189 (13)	218 (15)	22	31	36	E - SOL21
									29 (2)	87 (6)	8	14	30	C - SOL20
									44 (3)	138 (9.5)	14	21	30	D - SOL20
									116 (8)	174 (12)	22	31	36	E - SOL21

① Select seal material

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

Coil not included



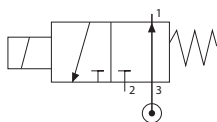
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G	H
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1	M5

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

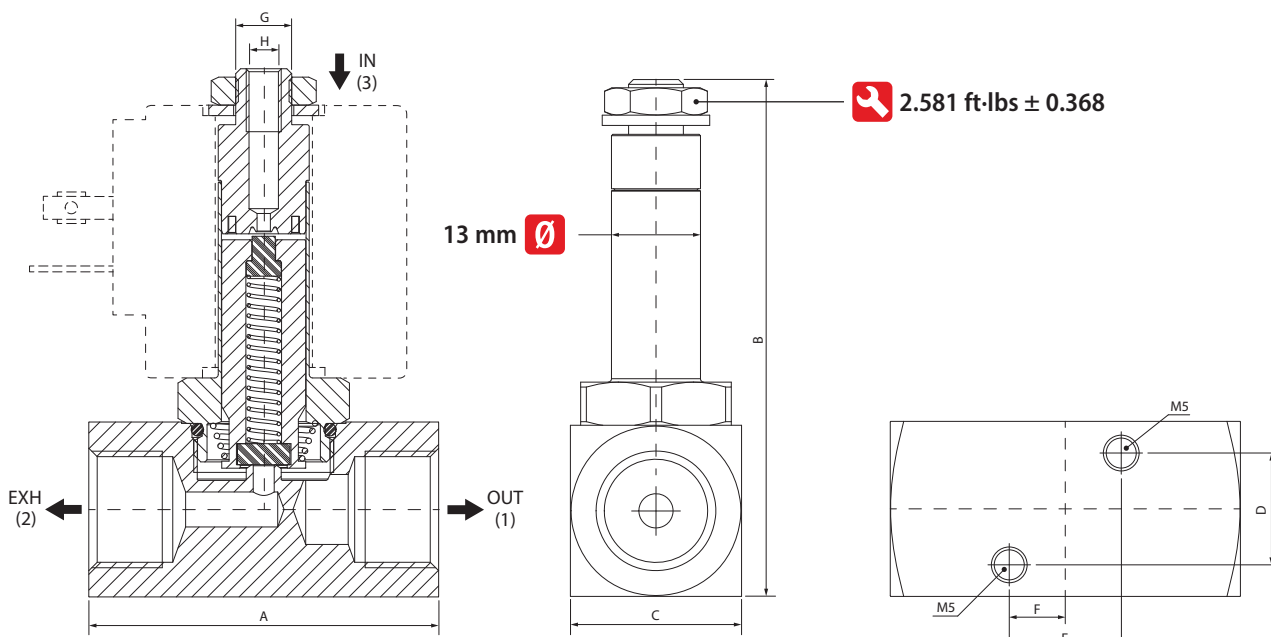
Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
0 2 F	0 4	4	0 3	N	0	N	C	A
	04 = 3/8"	4 = 3/2 NO	03 = 1/8 (3)	N = NBR	0 = Standard	N = NPTF	C = C series - SOL20	A = 12V DC
	05 = 1/2"		04 = 5/32 (4)	E = EPDM			D = D series - SOL20	B = 24V DC
			05 = 13/64 (5)	V = FKM			E = E series - SOL21	1 = 24V AC
				C = CR				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		
①	①	NPTF	inch (mm)		cSt	gpm (m³/h)		psi (bar)			DC	AC	Size	Series	
			IN	EXH		IN	EXH	Min	Max DC	Max AC	W	VA	mm	C - Page 17.4 D - Page 17.5 E - Page 17.6	
02F 04 4 15 _ 0 N	N = NBR +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 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21	
02F 04 4 02 _ 0 N			5/64 (1.9)	5/32 (4)	37	0.12 (0.10)	0.41 (0.35)	0	58 (4) 102 (7) 189 (13)	145 (10) 218 (15) 218 (15)	8 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21	
02F 04 4 25 _ 0 N			V = FKM +14°F +284°F (-10°C +140°C)	5/64 (1.9)	13/64 (5)	37	0.12 (0.10)	0.59 (0.51)	0	29 (2) 44 (3) 116 (8)	87 (6) 138 (9.5) 174 (12)	8 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21
02F 05 4 03 _ 0 N	E = EPDM +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 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21	
02F 05 4 04 _ 0 N			C = CR -31°F +212°F (-35°C +100°C)	5/64 (1.9)	5/32 (4)	37	0.12 (0.10)	0.41 (0.35)	0	58 (4) 102 (7) 189 (13)	145 (10) 218 (15) 218 (15)	8 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 E - SOL21
02F 05 4 05 _ 0 N			5/64 (1.9)	13/64 (5)	37	0.12 (0.10)	0.59 (0.51)	0	29 (2) 44 (3) 116 (8)	87 (6) 138 (9.5) 174 (12)	8 14 22	14 21 31	30 30 36	C - SOL20 D - SOL20 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