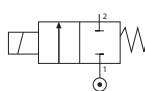




2/2 NC

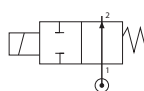


1/4"
Pag. 7.2

Ex



2/2 NO

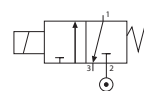


1/4"
Pag. 7.4

Ex



3/2 NC

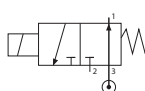


1/4"
Pag. 7.6

Ex



3/2 NO



1/4"
Pag. 7.8

Ex

Series X2F

Coils & Connectors



30 mm

Series C
Page 17.4

UL US
CSA C22.2



30 mm

Series D
Page 17.5

UL US
CSA C22.2



36 mm

Series E
Page 17.6

UL US
CSA C22.2



Connectors
Page 17.8 - 17.10

UL US
CSA C22.2

DIRECT ACTING SOLENOID VALVES IN STAINLESS STEEL 316L



II 2 G/D Ex h

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

AISI 316L



Series X2F

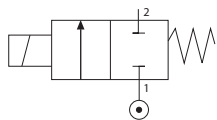
X2F

Series X2F

DIRECT ACTING SOLENOID VALVES WITH BODY IN STAINLESS STEEL AISI 316L

2/2 NC

1/4"



Component Parts and Materials

- 1 Body: Stainless steel AISI 316L
- 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
- 6 Shading ring: Copper



General features - X2F

- 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

- Chemical and Petrochemical Industry
- Oil & Gas
- Oxygen and Hydrogen



Silver-plated shading ring on request



Ordering codes

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
X 2 F	0 3	1	1 5	N	0	N	C	A
	03 = 1/4"	1 = 2/2 NC	15 = 1/16 (1.5)	N = NBR	0 = Standard	N = NPTF	C = C series - SOL20	A = 12V DC
			02 = 5/64 (2)	F = NBR 			D = D series - SOL20	B = 24V DC
			25 = 3/32 (2.5)	E = EPDM			E = E series - SOL21	1 = 24V AC
			03 = 1/8 (3)	V = FKM				2 = 110V AC
			04 = 5/32 (4)	P = PTFE				3 = 220V AC
			05 = 13/64 (5)	C = CR			Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.	

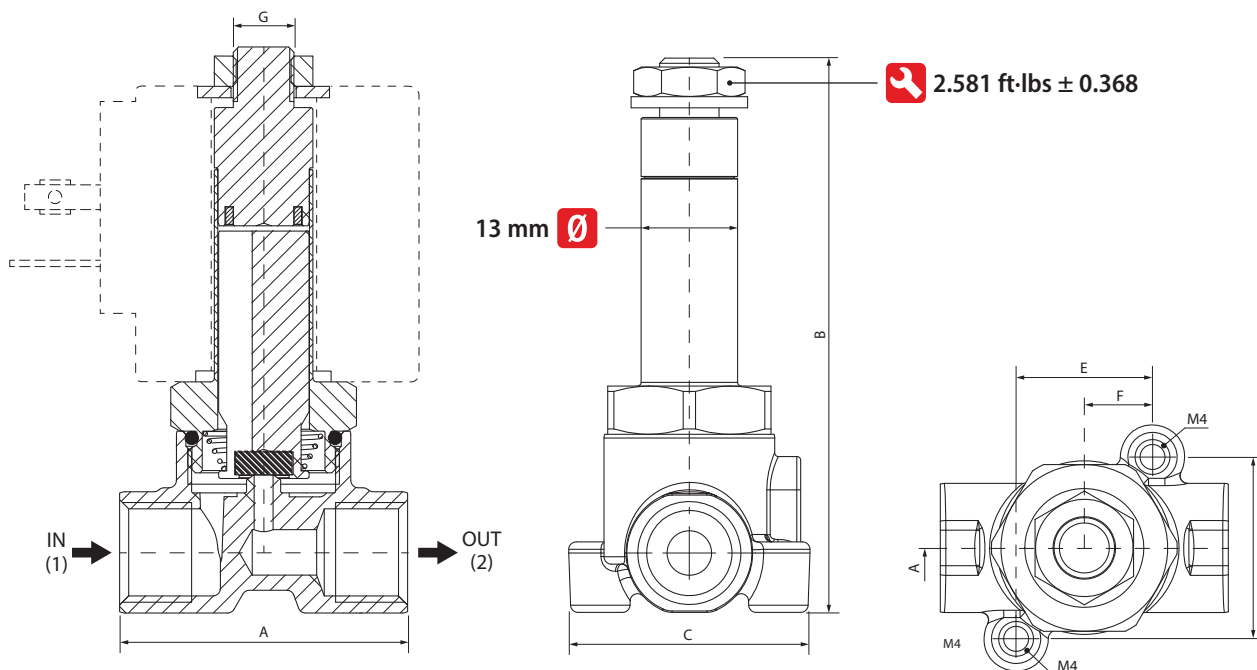
Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
						psi (bar)			DC	AC	Size	Series
			inch (mm)	cSt	gpm (m ³ /h)	Min	Max DC	Max AC	W	VA	mm	C - Page 17.4 D - Page 17.5 E - Page 17.6
X2F 03 1 15 _0 N	N = NBR +14°F +194°F (-10°C +90°C)	1/4"	1/16 (1.5)	25	0.07 (0.06)	0	725 (50)	725 (50)	8	14	30	C - SOL20
X2F 03 1 02 _0 N	F = NBR						725 (50)	725 (50)	14	21	30	D - SOL20
							725 (50)	725 (50)	22	31	36	E - SOL21
X2F 03 1 02 _0 N	F = NBR		5/64 (2)	37	0.12 (0.10)	0	508 (35)	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
X2F 03 1 25 _0 N	V = FKM +14°F +284°F (-10°C +140°C)		3/32 (2.5)	53	0.17 (0.15)	0	305 (21)	508 (35)	8	14	30	C - SOL20
							435 (30)	580 (40)	14	21	30	D - SOL20
							653 (45)	725 (50)	22	31	36	E - SOL21
X2F 03 1 03 _0 N	E = EPDM +14°F +284°F (-10°C +140°C)		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
X2F 03 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)	145 (10)	8	14	30	C - SOL20
							87 (6)	203 (14)	14	21	30	D - SOL20
							218 (15)	290 (20)	22	31	36	E - SOL21
X2F 03 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)	73 (5)	8	14	30	C - SOL20
							32 (2.2)	102 (7)	14	21	30	D - SOL20
							80 (5.5)	145 (10)	22	31	36	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)

Coil not included



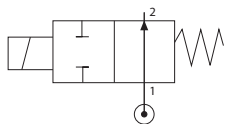
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1

Series X2F

DIRECT ACTING SOLENOID VALVES WITH BODY IN STAINLESS STEEL AISI 316L

2/2 NO

1/4"



Component Parts and Materials

- 1 Body: Stainless steel AISI 316L
- 2 Seals: NBR - EPDM - FKM - CR
- 3 Armature tube: Stainless steel
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel
- 6 Shading ring: Copper



General features - X2F

- 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

- Chemical and Petrochemical Industry
- Oil & Gas
- Oxygen and Hydrogen



Silver-plated shading ring on request



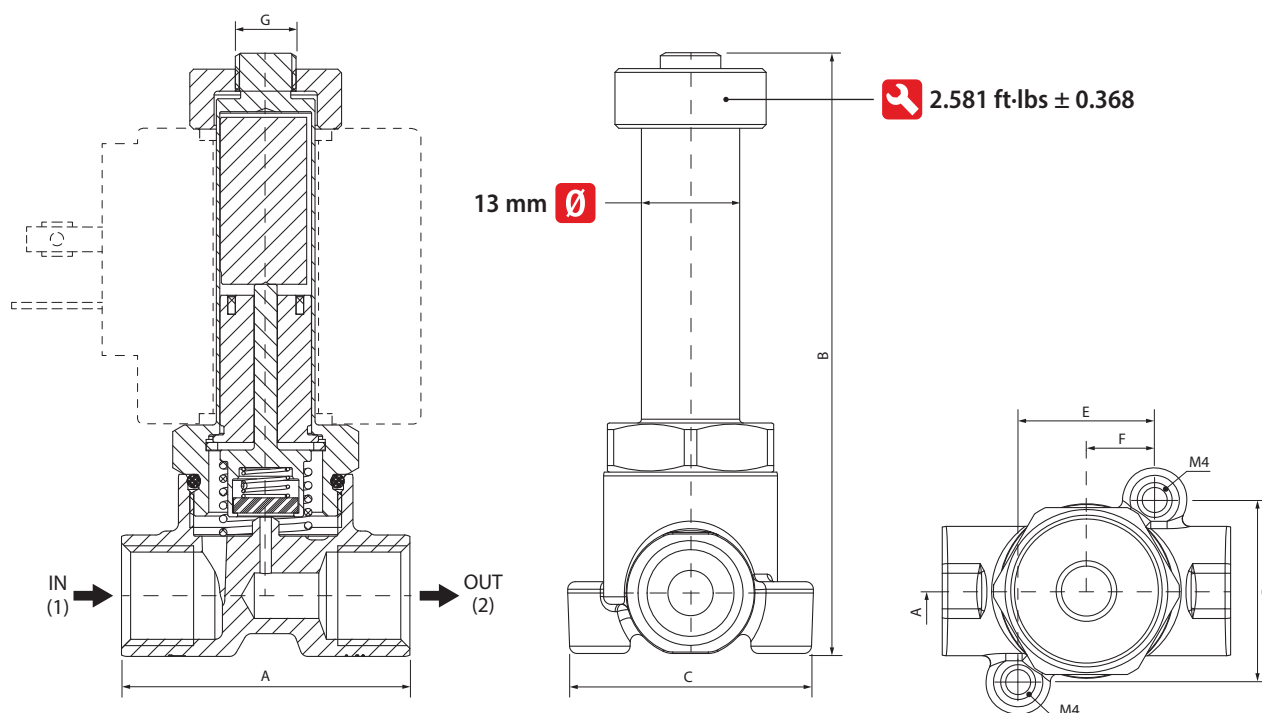
Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
X 2 F	0 3	2	1 5	N	0	N	C	A
	03 = 1/4"	2 = 2/2 NO	15 = 1/16 (1.5) 02 = 5/64 (2) 25 = 3/32 (2.5) 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	N = NBR E = EPDM V = FKM C = CR	0 = Standard	N = NPTF	C = C series - SOL20 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 W	AC VA	Size mm	Series C - Page 17.4 D - Page 17.5 E - Page 17.6					
						Min	Max DC	Max AC									
X2F 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	-	363 (25)	363 (25)	-	14	30	C - SOL20				
X2F 03 2 02 _ 0 N							5/64 (2)	37		0.12 (0.10)	0	363 (25)	363 (25)	14	21	30	D - SOL20
X2F 03 2 25 _ 0 N												-	261 (18)	261 (18)	22	31	36
X2F 03 2 03 _ 0 N			3/32 (2.5)	53	0.17 (0.15)	0	-	174 (12)	174 (12)	-	14	30	C - SOL20				
X2F 03 2 04 _ 0 N							174 (12)	174 (12)	14	21	30	D - SOL20					
X2F 03 2 05 _ 0 N			E = EPDM +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	C - SOL20			
	109 (7.5)	109 (7.5)						14	21	30	D - SOL20						
	109 (7.5)	109 (7.5)						22	31	36	E - SOL21						
	C = CR -31°F +212°F (-35°C +100°C)	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						
		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



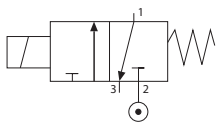
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/4"	1.496 (38)	3.129 (79.5)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1

Series X2F

DIRECT ACTING SOLENOID VALVES WITH BODY IN STAINLESS STEEL AISI 316L

3/2 NC

1/4"



Component Parts and Materials

- 1 Body: Stainless steel AISI 316L
- 2 Seals: NBR - EPDM - FKM - CR
- 3 Armature tube: Stainless steel
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel
- 6 Shading ring: Copper



General features - X2F

- 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

- Chemical and Petrochemical Industry
- Oil & Gas
- Oxygen and Hydrogen



Silver-plated shading ring on request



Ordering codes

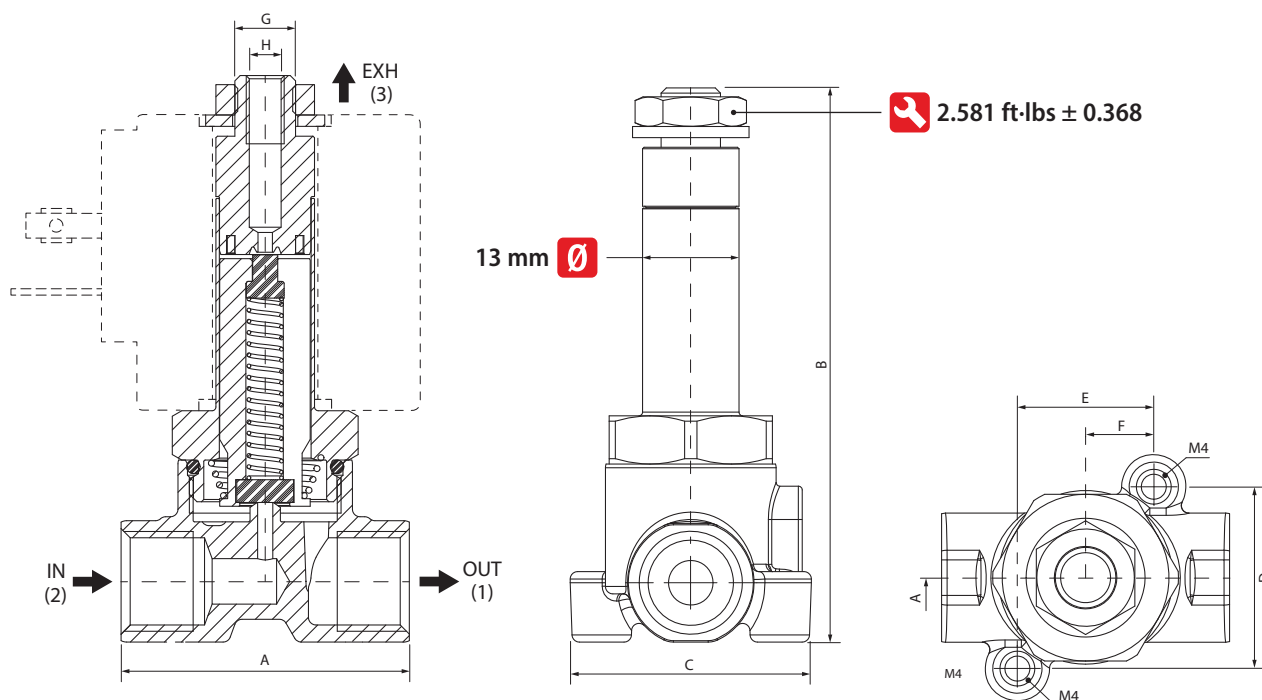
Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
X 2 F	0 3	3	1 5	N	0	N	C	A
	03 = 1/4"	3 = 3/2 NC	15 = 1/16 (1.5) 02 = 5/64 (2) 25 = 3/32 (2.5) 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	N = NBR E = EPDM V = FKM C = CR	0 = Standard	N = NPTF	C = C series - SOL20 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	W	VA	mm	C - Page 17.4 D - Page 17.5 E - Page 17.6
X2F 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
X2F 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	D - SOL20
X2F 03 3 25 _ 0 N			3/32 (2.5)	5/64 (1.9)	37	0.17 (0.15)	0.12 (0.10)	0	363 (25)	363 (25)	22	31	36	E - SOL21
X2F 03 3 03 _ 0 N			1/8 (3)	5/64 (1.9)	37	0.24 (0.21)	0.12 (0.10)	0	261 (18)	261 (18)	8	14	30	C - SOL20
X2F 03 3 04 _ 0 N			5/32 (4)	5/64 (1.9)	37	0.41 (0.35)	0.12 (0.10)	0	261 (18)	261 (18)	14	21	30	D - SOL20
X2F 03 3 05 _ 0 N			13/64 (5)	5/64 (1.9)	37	0.59 (0.51)	0.12 (0.10)	0	261 (18)	261 (18)	22	31	36	E - SOL21
	V = FKM +14°F +284°F (-10°C +140°C)								189 (13)	189 (13)	8	14	30	C - SOL20
	E = EPDM +14°F +284°F (-10°C +140°C)								189 (13)	189 (13)	14	21	30	D - SOL20
	C = CR -31°F +212°F (-35°C +100°C)								189 (13)	189 (13)	22	31	36	E - SOL21
									145 (10)	145 (10)	8	14	30	C - SOL20
									145 (10)	145 (10)	14	21	30	D - SOL20
									145 (10)	145 (10)	22	31	36	E - SOL21
									87 (6)	87 (6)	8	14	30	C - SOL20
									87 (6)	87 (6)	14	21	30	D - SOL20
									87 (6)	87 (6)	22	31	36	E - SOL21
									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



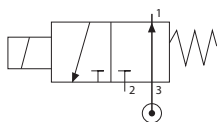
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G	H
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1	M5

Series X2F

DIRECT ACTING SOLENOID VALVES WITH BODY IN STAINLESS STEEL AISI 316L

3/2 NO

1/4"



Component Parts and Materials

- 1 Body: Stainless steel AISI 316L
- 2 Seals: NBR - EPDM - FKM - CR
- 3 Armature tube: Stainless steel
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel
- 6 Shading ring: Copper



General features - X2F

- 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

- Chemical and Petrochemical Industry
- Oil & Gas
- Oxygen and Hydrogen



Silver-plated shading ring on request



Ordering codes

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

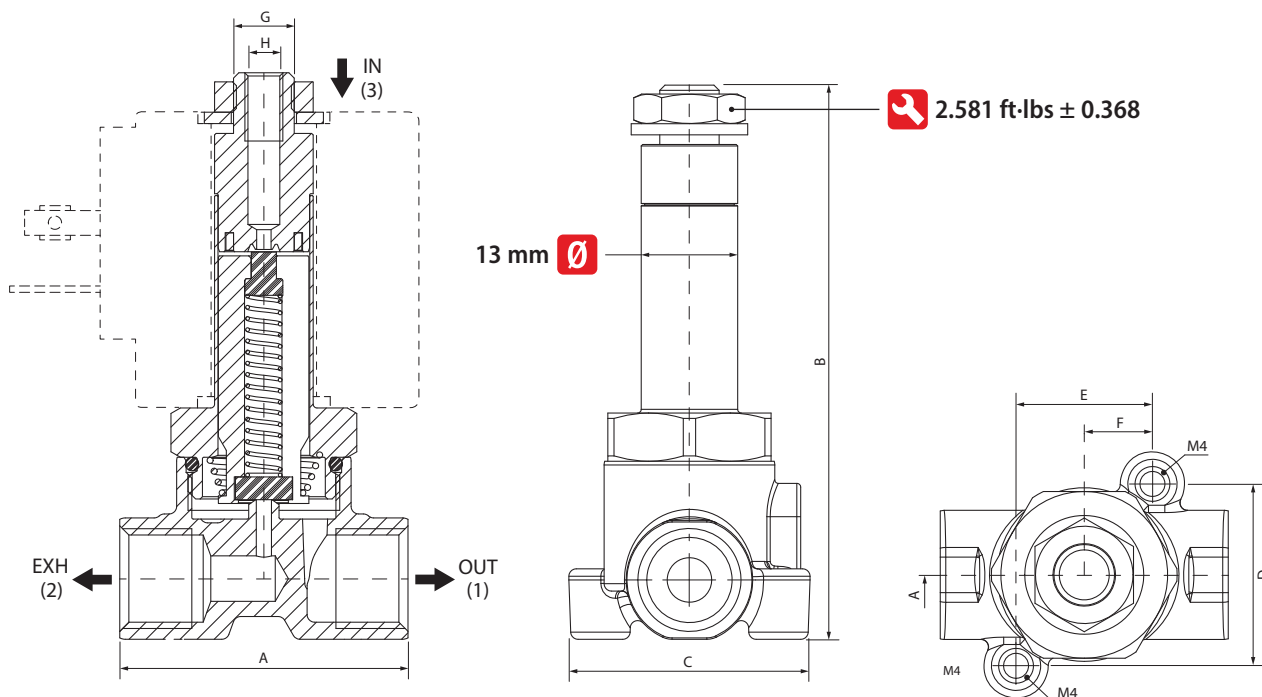
Valves and coils are supplied separately.
Upon commercial agreements can be
supplied assembled.

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
X2F 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
X2F 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
									218 (15)	218 (15)	22	31	36	E - SOL21
									218 (15)	218 (15)				
X2F 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)	8	14	30	C - SOL20
									218 (15)	218 (15)	14	21	30	D - SOL20
	218 (15)	218 (15)							22	31	36	E - SOL21		
X2F 03 4 03 _ 0 N	E = EPDM +14°F +284°F (-10°C +140°C)	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	
								218 (15)	218 (15)	14	21	30	D - SOL20	
								218 (15)	218 (15)	22	31	36	E - SOL21	
X2F 03 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)	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	
X2F 03 4 05 _ 0 N		5/64 (1.9)	13/64 (5)	37	0.12 (0.10)	0.59 (0.51)	0	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