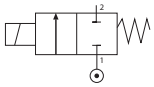
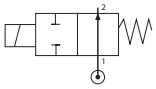
2/2 NC



1/8" - 1/4"

Page 4.2

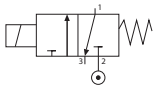
2/2 NO



1/8" - 1/4"

Page 4.4

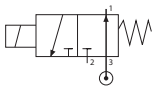
3/2 NC



1/8" - 1/4"

Page 4.6

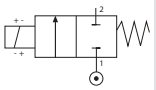
3/2 NO



1/8" - 1/4"

Page 4.8

2/2 LATCHING



1/8" - 1/4"

Page 4.10

22 mm

Series A

CSA C22.2

Page 17.2

30 mm

Series B

CSA C22.2

Page 17.3

Connectors

CSA C22.2

Page 17.8 - 17.10

AIGNEP

DIRECT ACTING SOLENOID VALVES IN STAINLESS STEEL 316L

II 2 G/D Ex h

c US CSA C22.2

AISI 316L

Series X1F

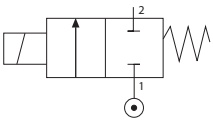
X1F

Series X1F

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

2/2 NC

1/8" - 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 - X1F

- Universal mounting position
- Operator kit Ø 10 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2

Maximum allowable pressure

580 psi (40 bar)

Compatibility and materials table

Page 0.13 - 0.14

Room temperature with coil class H

+14°F *-10°C* **+176°F** *+80°C*

Applications

- Water, Oils, Corrosive liquids
- Air, Inert and aggressive gases, Vacuum
- Food industry
- Laser cutting, Welding, Metallurgy
- Oxygen, Steam, Medical
- Chemical and Petrochemical Industry

Silver-plated shading ring on request

Ordering codes

Series	Port size	Functions	Orifice *inch (mm)*	Sealing materials	Version	Thread	Suitable coils	
X 1 F	0 2	1	1 5	N	0	N	A	A
	02 = 1/8"	1 = 2/2 NC	15 = 1/16 *(1.5)*	N = NBR	0 = Standard	N = NPTF	A = A series - SOL10	A = 12V DC
	03 = 1/4"		02 = 5/64 *(2)*	E = EPDM			B = B series - SOL11	B = 24V DC
			25 = 3/32 *(2.5)*	V = FKM				1 = 24V AC
			03 = 1/8 *(3)*	C = CR				2 = 110V AC
			04 = 5/32 *(4)*					3 = 220V AC

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

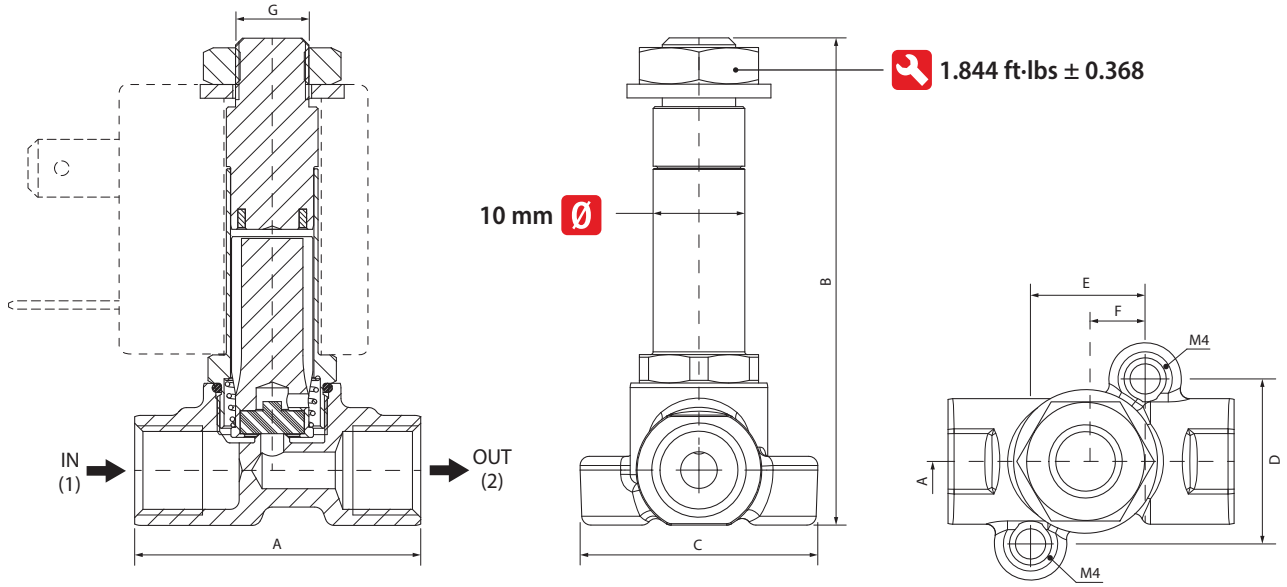
COILS: SERIES A, B PAGE: 17.2 / 17.3 CONNECTORS PAGE: 17.8

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
						psi (bar)			DC	AC	Size	Series
①	①	NPTF	inch (mm)	cSt	gpm (m^3/h)	Min	Max DC	Max AC	W	VA	mm	A - Page 17.2 B - Page 17.3
X1F 02 1 15 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C) V = FKM +14°F +284°F (-10°C +140°C)	1/8"	1/16 (1.5)	25	0.07 (0.06)	0	232 (16)	435 (30)	6.5	7.5	22	A - SOL10
							580 (40)	580 (40)	8	11	30	B - SOL11
X1F 02 1 02 _ 0 N			5/64 (2)	37	0.10 (0.09)	0	174 (12)	363 (25)	6.5	7.5	22	A - SOL10
							435 (30)	580 (40)	8	11	30	B - SOL11
X1F 02 1 25 _ 0 N			3/32 (2.5)	53	0.17 (0.15)	0	65 (4.5)	261 (18)	6.5	7.5	22	A - SOL10
							189 (13)	435 (30)	8	11	30	B - SOL11
X1F 02 1 03 _ 0 N			1/8 (3)	53	0.23 (0.20)	0	44 (3)	145 (10)	6.5	7.5	22	A - SOL10
							102 (7)	232 (16)	8	11	30	B - SOL11
X1F 02 1 04 _ 0 N			5/32 (4)	53	0.35 (0.30)	0	15 (1)	58 (4)	6.5	7.5	22	A - SOL10
							36 (2.5)	116 (8)	8	11	30	B - SOL11
X1F 03 1 15 _ 0 N	E = EPDM +14°F +284°F (-10°C +140°C) C = CR -31°F +212°F (-35°C +100°C)	1/4"	1/16 (1.5)	25	0.07 (0.06)	0	232 (16)	435 (30)	6.5	7.5	22	A - SOL10
							580 (40)	580 (40)	8	11	30	B - SOL11
X1F 03 1 02 _ 0 N			5/64 (2)	37	0.10 (0.09)	0	174 (12)	363 (25)	6.5	7.5	22	A - SOL10
							435 (30)	580 (40)	8	11	30	B - SOL11
X1F 03 1 25 _ 0 N			3/32 (2.5)	53	0.17 (0.15)	0	65 (4.5)	261 (18)	6.5	7.5	22	A - SOL10
							189 (13)	435 (30)	8	11	30	B - SOL11
X1F 03 1 03 _ 0 N			1/8 (3)	53	0.23 (0.20)	0	44 (3)	145 (10)	6.5	7.5	22	A - SOL10
							102 (7)	232 (16)	8	11	30	B - SOL11
X1F 03 1 04 _ 0 N			5/32 (4)	53	0.35 (0.30)	0	15 (1)	58 (4)	6.5	7.5	22	A - SOL10
							36 (2.5)	116 (8)	8	11	30	B - SOL11

① Select seal material

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

Coil not included



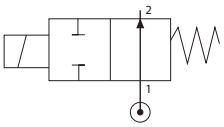
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/8"	1.228 (31.2)	2.090 (53.1)	1.019 (25.9)	0.708 (18)	0.492 (12.5)	0.255 (6.5)	M8 x 0.75
1/4"	1.456 (37)	2.208 (56.1)	1.141 (29)	0.826 (21)	0.472 (12)	0.236 (6)	M8 x 0.75

Series X1F

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

2/2 NO

1/8" - 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 - X1F

- Universal mounting position
- Operator kit Ø 10 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2

Maximum allowable pressure

580 psi (40 bar)

Compatibility and materials table

Page 0.13 - 0.14

Room temperature with coil class H

+14°F *-10°C* **+176°F** *+80°C*

Applications

- Water, Oils, Corrosive liquids
- Air, Inert and aggressive gases, Vacuum
- Food industry
- Laser cutting, Welding, Metallurgy
- Oxygen, Steam, Medical
- Chemical and Petrochemical Industry

Silver-plated shading ring on request

Ordering codes

Series	Port size	Functions	Orifice *inch (mm)*	Sealing materials	Version	Thread	Suitable coils	
X 1 F	0 2	2	1 5	N	0	N	A	A
	02 = 1/8"	2 = 2/2 NO	15 = 1/16 *(1.5)*	N = NBR	0 = Standard	N = NPTF	A = A series - SOL10	A = 12V DC
	03 = 1/4"		02 = 5/64 *(2)*	E = EPDM			B = B series - SOL11	B = 24V DC
			25 = 3/32 *(2.5)*	V = FKM				1 = 24V AC
			03 = 1/8 *(3)*	C = CR				2 = 110V AC
								3 = 220V AC

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

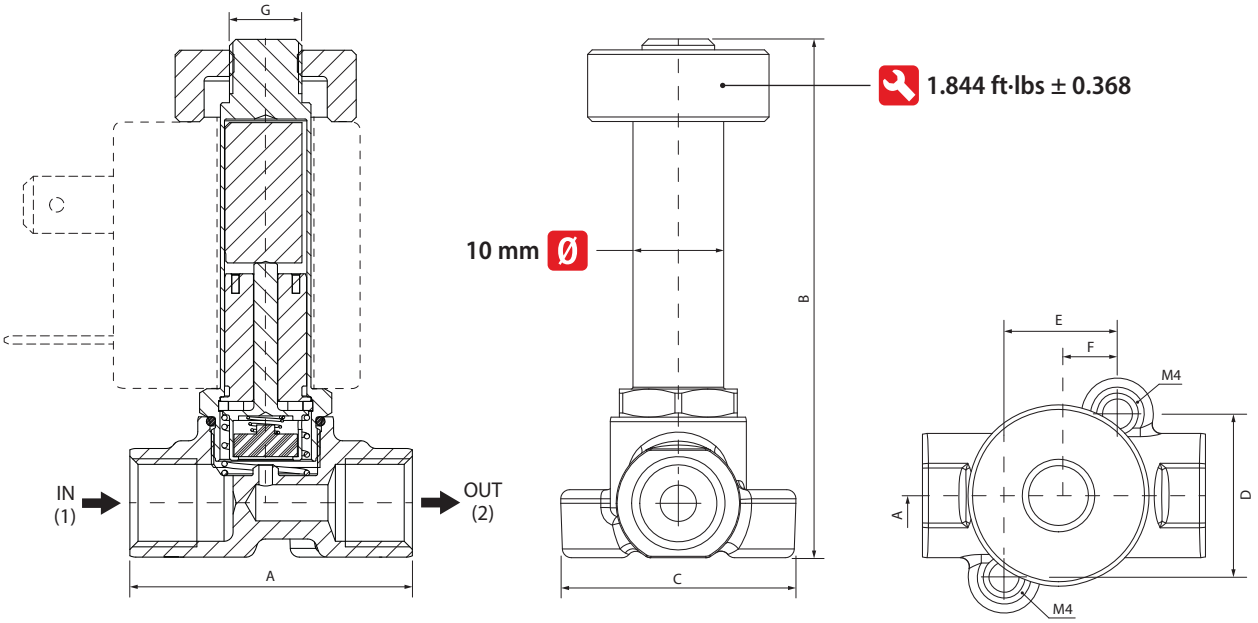
COILS: SERIES A, B PAGE: 17.2 / 17.3 CONNECTORS PAGE: 17.8

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
						psi (bar)			DC	AC	Size	Series
①	①	NPTF	inch (mm)	cSt	gpm (m^3/h)	Min	Max DC	Max AC	W	VA	mm	A - Page 17.2 B - Page 17.3
X1F 02 2 15 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C)	1/8"	1/16 (1.5)	25	0.07 (0.06)	0	-	261 (18)	-	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
X1F 02 2 02 _ 0 N			5/64 (2)	37	0.10 (0.09)	0	-	145 (10)	-	7.5	22	A - SOL10
							145 (10)	145 (10)	8	11	30	B - SOL11
X1F 02 2 25 _ 0 N	V = FKM +14°F +284°F (-10°C +140°C)		3/32 (2.5)	53	0.17 (0.15)	0	-	94 (6.5)	-	7.5	22	A - SOL10
							94 (6.5)	94 (6.5)	8	11	30	B - SOL11
X1F 02 2 03 _ 0 N			1/8 (3)	53	0.23 (0.20)	0	-	61 (4.2)	-	7.5	22	A - SOL10
							61 (4.2)	61 (4.2)	8	11	30	B - SOL11
X1F 03 2 15 _ 0 N	E = EPDM +14°F +284°F (-10°C +140°C)	1/4"	1/16 (1.5)	25	0.07 (0.06)	0	-	261 (18)	-	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
X1F 03 2 02 _ 0 N			5/64 (2)	37	0.10 (0.09)	0	-	145 (10)	-	7.5	22	A - SOL10
							145 (10)	145 (10)	8	11	30	B - SOL11
X1F 03 2 25 _ 0 N	C = CR -31°F +212°F (-35°C +100°C)		3/32 (2.5)	53	0.17 (0.15)	0	-	94 (6.5)	-	7.5	22	A - SOL10
							94 (6.5)	94 (6.5)	8	11	30	B - SOL11
X1F 03 2 03 _ 0 N			1/8 (3)	53	0.23 (0.20)	0	-	61 (4.2)	-	7.5	22	A - SOL10
							61 (4.2)	61 (4.2)	8	11	30	B - SOL11

① Select seal material

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

Coil not included



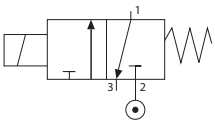
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/8"	1.228 (31.2)	2.251 (57.2)	1.019 (25.9)	0.708 (18)	0.492 (12.5)	0.255 (6.5)	M8 x 1
1/4"	1.456 (37)	2.370 (60.2)	1.141 (29)	0.826 (21)	0.472 (12)	0.236 (6)	M8 x 1

Series X1F

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

3/2 NC

1/8" - 1/4"



Component Parts and Materials

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

General features - X1F

- Universal mounting position
- Operator kit Ø 10 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2

Maximum allowable pressure

580 psi (40 bar)

Compatibility and materials table

Page 0.13 - 0.14

Room temperature with coil class H

+14°F *-10°C* **+176°F** *+80°C*

Applications

- Water, Oils, Corrosive liquids
- Air, Inert and aggressive gases, Vacuum
- Food industry
- Laser cutting, Welding, Metallurgy
- Oxygen, Steam, Medical
- Chemical and Petrochemical Industry

Silver-plated shading ring on request

Ordering codes

Series	Port size	Functions	Orifice *inch (mm)*	Sealing materials	Version	Thread	Suitable coils	
X 1 F	0 2	3	1 5	N	0	N	A	A
	02 = 1/8"	3 = 3/2 NC	15 = 1/16 *(1.5)*	N = NBR	0 = Standard	N = NPTF	A = A series - SOL10	A = 12V DC
	03 = 1/4"		02 = 5/64 *(2)*	E = EPDM			B = B series - SOL11	B = 24V DC
			25 = 3/32 *(2.5)*	V = FKM				1 = 24V AC
			03 = 1/8 *(3)*					2 = 110V AC
			04 = 5/32 *(4)*					3 = 220V AC

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

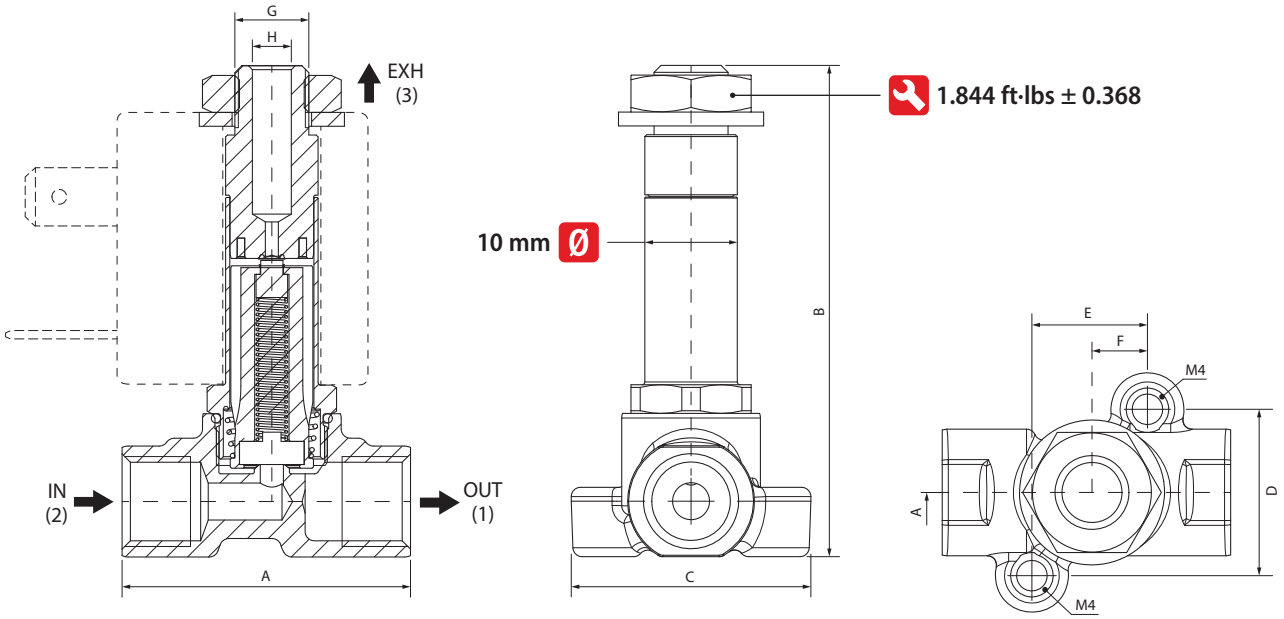
COILS: SERIES A, B PAGE: 17.2 / 17.3 CONNECTORS PAGE: 17.8

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	AC	Size	Series
①	①		IN	EXH		IN	EXH	Min	Max DC	Max AC	W	VA	mm	A - Page 17.2 B - Page 17.3
X1F 02 3 15 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C) V = FKM +14°F +284°F (-10°C +140°C) E = EPDM +14°F +284°F (-10°C +140°C)	1/8"	1/16 (1.5)	1/16 (1.4)	25	0.07 (0.06)	0.06 (0.05)	0	196 (13.5)	196 (13.5)	6.5	7.5	22	A - SOL10
									196 (13.5)	196 (13.5)	8	11	30	B - SOL11
X1F 02 3 02 _ 0 N			5/64 (2)	1/16 (1.4)	25	0.10 (0.09)	0.06 (0.05)	0	116 (8)	116 (8)	6.5	7.5	22	A - SOL10
									116 (8)	116 (8)	8	11	30	B - SOL11
X1F 02 3 25 _ 0 N			3/32 (2.5)	1/16 (1.4)	25	0.17 (0.15)	0.06 (0.05)	0	73 (5)	73 (5)	6.5	7.5	22	A - SOL10
									73 (5)	73 (5)	8	11	30	B - SOL11
X1F 02 3 03 _ 0 N			1/8 (3)	1/16 (1.4)	25	0.23 (0.20)	0.06 (0.05)	0	-	51 (3.5)	-	7.5	22	A - SOL10
									51 (3.5)	51 (3.5)	8	11	30	B - SOL11
X1F 02 3 04 _ 0 N			5/32 (4)	1/16 (1.4)	25	0.35 (0.30)	0.06 (0.05)	0	-	15 (1)	-	7.5	22	A - SOL10
									15 (1)	15 (1)	8	11	30	B - SOL11
X1F 03 3 15 _ 0 N		1/4"	1/16 (1.5)	1/16 (1.4)	25	0.07 (0.06)	0.06 (0.05)	0	196 (13.5)	196 (13.5)	6.5	7.5	22	A - SOL10
									196 (13.5)	196 (13.5)	8	11	30	B - SOL11
X1F 03 3 02 _ 0 N			5/64 (2)	1/16 (1.4)	25	0.10 (0.09)	0.06 (0.05)	0	116 (8)	116 (8)	6.5	7.5	22	A - SOL10
									116 (8)	116 (8)	8	11	30	B - SOL11
X1F 03 3 25 _ 0 N			3/32 (2.5)	1/16 (1.4)	25	0.17 (0.15)	0.06 (0.05)	0	73 (5)	73 (5)	6.5	7.5	22	A - SOL10
									73 (5)	73 (5)	8	11	30	B - SOL11
X1F 03 3 03 _ 0 N			1/8 (3)	1/16 (1.4)	25	0.23 (0.20)	0.06 (0.05)	0	-	51 (3.5)	-	7.5	22	A - SOL10
									51 (3.5)	51 (3.5)	8	11	30	B - SOL11
X1F 03 3 04 _ 0 N			5/32 (4)	1/16 (1.4)	25	0.35 (0.30)	0.06 (0.05)	0	-	15 (1)	-	7.5	22	A - SOL10
									15 (1)	15 (1)	8	11	30	B - SOL11

① Select seal material

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

Coil not included



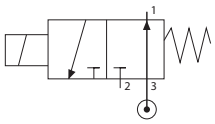
Size	A	B	C	D	E	F	G	H
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)		
1/8"	1.228 (31.2)	2.090 (53.1)	1.019 (25.9)	0.708 (18)	0.492 (12.5)	0.236 (6)	M8 x 0.75	M5
1/4"	1.456 (37)	2.208 (56.1)	1.141 (29)	0.826 (21)	0.472 (12)	0.236 (6)	M8 x 0.75	M5

Series X1F

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

3/2 NO

1/8" - 1/4"



Component Parts and Materials

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

General features - X1F

- Universal mounting position
- Operator kit Ø 10 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2

Maximum allowable pressure

580 psi (40 bar)

Compatibility and materials table

Page 0.13 - 0.14

Room temperature with coil class H

+14°F *-10°C* **+176°F** *+80°C*

Applications

- Water, Oils, Corrosive liquids
- Air, Inert and aggressive gases, Vacuum
- Food industry
- Laser cutting, Welding, Metallurgy
- Oxygen, Steam, Medical
- Chemical and Petrochemical Industry

Silver-plated shading ring on request

Ordering codes

Series	Port size	Functions	Orifice *inch (mm)*	Sealing materials	Version	Thread	Suitable coils	
X 1 F	0 2	4	1 5	N	0	N	A	A
	02 = 1/8"	4 = 3/2 NO	15 = 1/16 *(1.5)*	N = NBR	0 = Standard	N = NPTF	A = A series - SOL10	A = 12V DC
	03 = 1/4"		02 = 5/64 *(2)*	E = EPDM			B = B series - SOL11	B = 24V DC
			25 = 3/32 *(2.5)*	V = FKM				1 = 24V AC
								2 = 110V AC
								3 = 220V AC

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

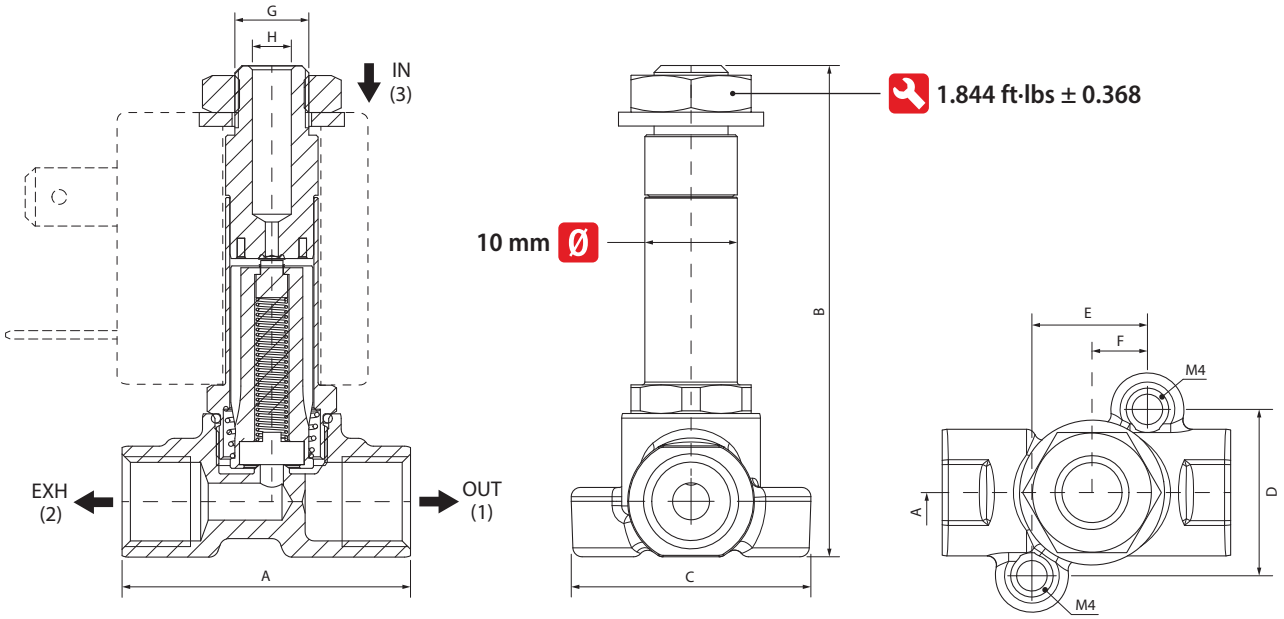
COILS: SERIES A, B PAGE: 17.2 / 17.3 CONNECTORS PAGE: 17.8

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	AC	Size	Series
①	①		IN	EXH		IN	EXH	Min	Max DC	Max AC	W	VA	mm	A - Page 17.2 B - Page 17.3
X1F 02 4 15 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C)	1/8"	1/16 (1.4)	1/16 (1.5)	25	0.06 (0.05)	0.07 (0.06)	0	145 (10)	145 (10)	6.5	7.5	22	A - SOL10
									145 (10)	145 (10)	8	11	30	B - SOL11
X1F 02 4 02 _ 0 N			1/16 (1.4)	5/64 (2)	25	0.06 (0.05)	0.10 (0.09)	0	145 (10)	145 (10)	6.5	7.5	22	A - SOL10
									145 (10)	145 (10)	8	11	30	B - SOL11
X1F 02 4 25 _ 0 N	V = FKM +14°F +284°F (-10°C +140°C)		1/16 (1.4)	3/32 (2.5)	25	0.06 (0.05)	0.17 (0.15)	0	58 (4)	145 (10)	6.5	7.5	22	A - SOL10
									145 (10)	145 (10)	8	11	30	B - SOL11
X1F 03 4 15 _ 0 N		1/4"	1/16 (1.4)	1/16 (1.5)	25	0.06 (0.05)	0.07 (0.06)	0	145 (10)	145 (10)	6.5	7.5	22	A - SOL10
									145 (10)	145 (10)	8	11	30	B - SOL11
X1F 03 4 02 _ 0 N	E = EPDM +14°F +284°F (-10°C +140°C)		1/16 (1.4)	5/64 (2)	25	0.06 (0.05)	0.10 (0.09)	0	145 (10)	145 (10)	6.5	7.5	22	A - SOL10
									145 (10)	145 (10)	8	11	30	B - SOL11
X1F 03 4 25 _ 0 N			1/16 (1.4)	3/32 (2.5)	25	0.06 (0.05)	0.17 (0.15)	0	58 (4)	145 (10)	6.5	7.5	22	A - SOL10
									145 (10)	145 (10)	8	11	30	B - SOL11

① Select seal material

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

Coil not included



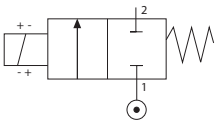
Size	A	B	C	D	E	F	G	H
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)		
1/8"	1.228 (31.2)	2.090 (53.1)	1.019 (25.9)	0.708 (18)	0.492 (12.5)	0.236 (6)	M8 x 0.75	M5
1/4"	1.456 (37)	2.208 (56.1)	1.141 (29)	0.826 (21)	0.472 (12)	0.236 (6)	M8 x 0.75	M5

Series X1F

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

2/2 LATCHING

1/8" - 1/4"



Pulse switching ≥20 ms, polarity reversed

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 - X1F

- Universal mounting position
- Operator kit Ø 10 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - cULus - CSA C22.2

Maximum allowable pressure

580 psi (40 bar)

Compatibility and materials table

Page 0.13 - 0.14

Room temperature with coil class H

+14°F *-10°C* **+176°F** *+80°C*

Applications

- Water, Oils, Corrosive liquids
- Air, Inert and aggressive gases, Vacuum
- Food industry
- Laser cutting, Welding, Metallurgy
- Oxygen, Steam, Medical
- Chemical and Petrochemical Industry

Ordering codes

Series	Port size	Functions	Orifice *inch (mm)*	Sealing materials	Version	Thread
X1F	02	1	15	N	0	N
	02 = 1/8"	B = 2/2 Latching	15 = 1/16 *(1.5)*	N = NBR	0 = Standard	N = NPTF
	03 = 1/4"		02 = 5/64 *(2)*	E = EPDM		
			25 = 3/32 *(2.5)*	V = FKM		
			03 = 1/8 *(3)*	C = CR		
			04 = 5/32 *(4)*			

Suitable coils	
A	A
A = A series - SOL10	A = 12V DC
B = B series - SOL11	B = 24V DC
	F = 3V DC
	H = 9V DC

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

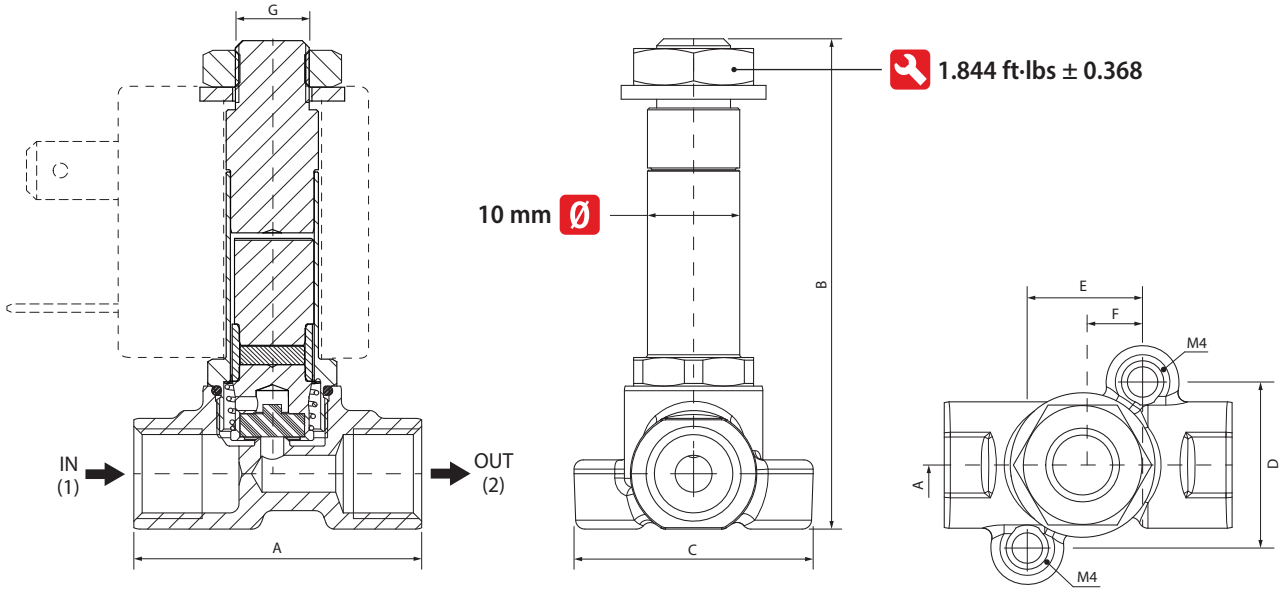
COILS: SERIES A, B PAGE: 17.2 / 17.3 CONNECTORS PAGE: 17.8

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)		Power	Coils	
						psi (bar)		DC	Size	Series
①	①	NPTF	inch (mm)	cSt	gpm (m^3/h)	Min	Max DC	W	mm	A - Page 17.2 B - Page 17.3
X1F 02 B 15 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C) V = FKM +14°F +284°F (-10°C +140°C)	1/8"	1/16 (1.5)	25	0.07 (0.06)	0	145 (10)	2	22	A - SOL10
							290 (20)	3	22	A - SOL10
							507 (35)	4	30	B - SOL11
X1F 02 B 02 _ 0 N			5/64 (2)	37	0.10 (0.09)	0	94 (6.5)	2	22	A - SOL10
							188 (13)	3	22	A - SOL10
							333 (23)	4	30	B - SOL11
X1F 02 B 25 _ 0 N			3/32 (2.5)	53	0.17 (0.15)	0	36 (2.5)	2	22	A - SOL10
							72 (5)	3	22	A - SOL10
							145 (10)	4	30	B - SOL11
X1F 02 B 03 _ 0 N			1/8 (3)	53	0.23 (0.20)	0	43 (3)	2	22	A - SOL10
							797 (5.5)	4	30	B - SOL11
X1F 03 B 15 _ 0 N	E = EPDM +14°F +284°F (-10°C +140°C) C = CR -31°F +212°F (-35°C +100°C)	1/4"	1/16 (1.5)	25	0.07 (0.06)	0	145 (10)	2	22	A - SOL10
							290 (20)	3	22	A - SOL10
							507 (35)	4	30	B - SOL11
X1F 03 B 02 _ 0 N			5/64 (2)	37	0.10 (0.09)	0	94 (6.5)	2	22	A - SOL10
							188 (13)	3	22	A - SOL10
							333 (23)	4	30	B - SOL11
X1F 03 B 25 _ 0 N			3/32 (2.5)	53	0.17 (0.15)	0	36 (2.5)	2	22	A - SOL10
							72 (5)	3	22	A - SOL10
							145 (10)	4	30	B - SOL11
X1F 03 B 03 _ 0 N			1/8 (3)	53	0.23 (0.20)	0	43 (3)	2	22	A - SOL10
							797 (5.5)	4	30	B - SOL11

① Select seal material

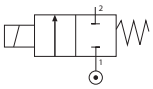
With steam: *EPDM - P max = 36 psi (2.5 bar)*

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"	1.228 (31.2)	2.090 (53.1)	1.019 (25.9)	0.708 (18)	0.492 (12.5)	0.255 (6.5)	M8 x 0.75
1/4"	1.456 (37)	2.208 (56.1)	1.141 (29)	0.826 (21)	0.472 (12)	0.236 (6)	M8 x 0.75

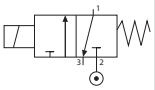
2/2 NC



1/8" - 1/4"

Page 5.2

3/2 NC



1/8" - 1/4"

Page 5.4

36 mm

Series N

Page 17.7

AIGNEP

DIRECT ACTING SOLENOID VALVES IN STAINLESS STEEL 316L

II 2 G/D Ex h

AISI 316L

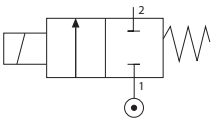
Series X1C

Series X1C

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

2/2 NC

1/8" - 1/4"



Component Parts and Materials

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

General features - X1C

- Universal mounting position
- Operator kit Ø 9 mm
- Coils: Series SOL03

Maximum allowable pressure

580 psi (40 bar)

Compatibility and materials table

Page 0.13 - 0.14

Room temperature with coil class H

+14°F *-10°C* **+140°F** *+60°C*

Applications

- Water, Oils, Corrosive liquids
- Air, Inert and aggressive gases, Vacuum
- Food industry
- Laser cutting, Welding, Metallurgy
- Oxygen, Steam, Medical
- Chemical and Petrochemical Industry

Ordering codes

Series	Port size	Functions	Orifice *inch (mm)*	Sealing materials	Version	Thread
X1C	02 = 1/8" 03 = 1/4"	1 = 2/2 NC	15 = 1/16 *(1.5)* 02 = 5/64 *(2)* 25 = 3/32 *(2.5)*	N = NBR E = EPDM V = FKM	0 = Standard	N = NPTF

Suitable coils	
N = N series - SOL03	A = 12V DC B = 24V DC 6 = 120V AC 4 = 240V AC

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

COILS: SERIES N PAGE: 17.7

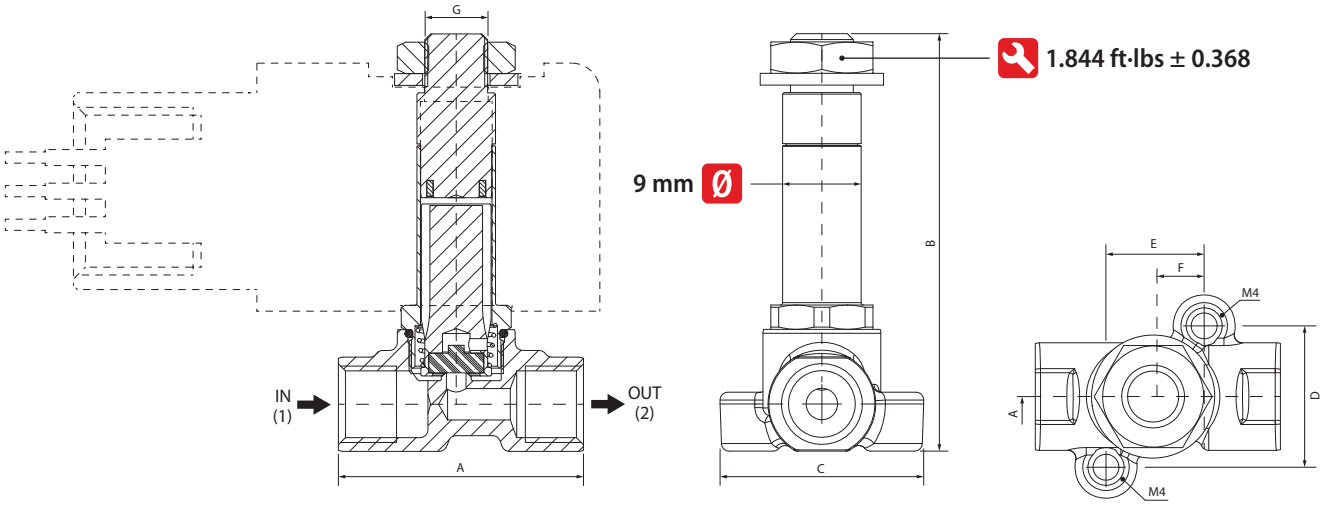
Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
						psi (bar)			DC	AC	Size	Series N - Page 17.7
①	①	NPTF	inch (mm)	cSt	gpm (m^3/h)	Min	Max DC	Max AC	W	VA	mm	
X1C 02 1 15 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C) V = FKM +14°F +284°F (-10°C +140°C) E = EPDM +14°F +284°F (-10°C +140°C)	1/8"	1/16 (1.5)	25	0.07 (0.06)	0	580 (40)	580 (40)	4.6	6.8	36	N - SOL03 *
X1C 02 1 02 _ 0 N			5/64 (2)	37	0.10 (0.09)	0	435 (30)	580 (40)				
X1C 02 1 25 _ 0 N			3/32 (2.5)	53	0.17 (0.15)	0	145 (10)	290 (20)				
X1C 03 1 15 _ 0 N		1/4"	1/16 (1.5)	25	0.07 (0.06)	0	580 (40)	580 (40)				
X1C 03 1 20 _ 0 N			5/64 (2)	37	0.10 (0.09)	0	435 (30)	580 (40)				
X1C 03 1 25 _ 0 N			3/32 (2.5)	53	0.17 (0.15)	0	145 (10)	290 (20)				

① Select seal material

* ***COIL SERIES N - SOL03***
Ex m II T4 and Division 1

Specifications in accordance to CSA certificate:
- Class I, Division 1, Groups A, B, C and D; Class II, Groups E, F and G; Class III;
- Class I, Division 2, Groups A, B, C, D.

Specifications in accordance to FM certificate:
- Explosionproof Class I, Division 1, Groups A, B, C, D, T4, Ta=60°C
- Encapsulation/explosionproof Class I, Zone 1, AEx m II T4, Ta=60°C
- Dust-ignitionproof for Class II/III, Division 1, Group E, F and G, T4, Ta=60°C
- Nonincendive Class I, Division 2, Groups A, B, C, D, T4, Ta=60°C
- Suitable for Class II, III, Division 2, Groups E, F, G, T4, Ta=60°C



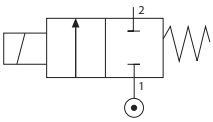
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/8"	1.228 (31.2)	2.090 (53.1)	1.019 (25.9)	0.708 (18)	0.492 (12.5)	0.255 (6.5)	M8 x 0.75
1/4"	1.456 (37)	2.208 (56.1)	1.141 (29)	0.826 (21)	0.472 (12)	0.236 (6)	M8 x 0.75

Series X1C

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

3/2 NC

1/8" - 1/4"



Component Parts and Materials

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

General features - X1C

- Universal mounting position
- Operator kit Ø 9 mm
- Coils: Series SOL03

Maximum allowable pressure

580 psi (40 bar)

Compatibility and materials table

Page 0.13 - 0.14

Room temperature with coil class H

+14°F *-10°C* **+140°F** *+60°C*

Applications

- Water, Oils, Corrosive liquids
- Air, Inert and aggressive gases, Vacuum
- Food industry
- Laser cutting, Welding, Metallurgy
- Oxygen, Steam, Medical
- Chemical and Petrochemical Industry

Ordering codes

Series	Port size	Functions	Orifice *inch (mm)*	Sealing materials	Version	Thread
X1C	02	3	15	N	0	N

- **Port size:** 02 = 1/8" · 03 = 1/4"
- **Functions:** 3 = 3/2 NC
- **Orifice:** 15 = 1/16 *(1.5)* · 02 = 5/64 *(2)* · 25 = 3/32 *(2.5)*
- **Sealing materials:** N = NBR · E = EPDM · V = FKM
- **Version:** 0 = Standard
- **Thread:** N = NPTF

Suitable coils

N	A
N = N series - SOL03	A = 12V DC B = 24V DC 6 = 120V AC 4 = 240V AC

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

COILS: SERIES N PAGE: 17.7

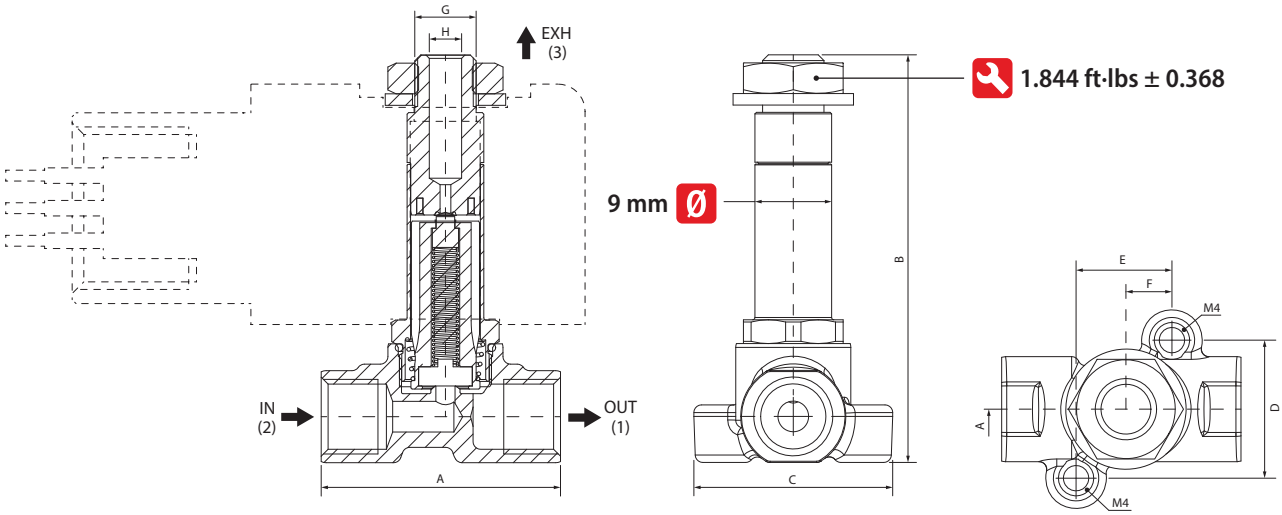
Code	Sealing materials	Port size	Ø Orifice		Viscosity	Cv (Kv)		Differential pressure (OPD)			Power		Coils	
		NPTF	inch (mm)		cSt	gpm (m^3/h)		psi (bar)			DC	AC	Size	Series N - Page 17.7
①	①		IN	EXH		IN	EXH	Min	Max DC	Max AC	W	VA	mm	
X1C 02 3 15 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C) V = FKM +14°F +284°F (-10°C +140°C) E = EPDM +14°F +284°F (-10°C +140°C)	1/8"	1/16 (1.5)	1/16 (1.4)	25	0.07 (0.06)	0.06 (0.05)	0	137 (9.5)	137 (9.5)	4.6	6.8	36	N - SOL03 *
X1C 02 3 02 _ 0 N			5/64 (2)	1/16 (1.4)	37	0.10 (0.09)	0.06 (0.05)	0	72 (5)	72 (5)				
X1C 02 3 25 _ 0 N			3/32 (2.5)	1/16 (1.4)	53	0.17 (0.15)	0.06 (0.05)	0	43 (3)	43 (3)				
X1C 03 3 15 _ 0 N		1/4"	1/16 (1.5)	1/16 (1.4)	25	0.07 (0.06)	0.06 (0.05)	0	137 (9.5)	137 (9.5)				
X1C 03 3 20 _ 0 N			5/64 (2)	1/16 (1.4)	37	0.10 (0.09)	0.06 (0.05)	0	72 (5)	72 (5)				
X1C 03 3 25 _ 0 N			3/32 (2.5)	1/16 (1.4)	53	0.17 (0.15)	0.06 (0.05)	0	43 (3)	43 (3)				

① Select seal material

* ***COIL SERIES N - SOL03***
Ex m II T4 and Division 1

Specifications in accordance to CSA certificate:
- Class I, Division 1, Groups A, B, C and D; Class II, Groups E, F and G; Class III;
- Class I, Division 2, Groups A, B, C, D.

Specifications in accordance to FM certificate:
- Explosionproof Class I, Division 1, Groups A, B, C, D, T4, Ta=60°C
- Encapsulation/explosionproof Class I, Zone 1, AEx m II T4, Ta=60°C
- Dust-ignitionproof for Class II/III, Division 1, Group E, F and G, T4, Ta=60°C
- Nonincendive Class I, Division 2, Groups A, B, C, D, T4, Ta=60°C
- Suitable for Class II, III, Division 2, Groups E, F, G, T4, Ta=60°C



Size	A	B	C	D	E	F	G	H
	inch (mm)	*inch (mm)*	*inch (mm)*	*inch (mm)*	*inch (mm)*	*inch (mm)*		
1/8"	1.228 (31.2)	2.090 (53.1)	1.019 (25.9)	0.708 (18)	0.492 (12.5)	0.236 (6)	M8 x 0.75	M5
1/4"	1.456 (37)	2.208 (56.1)	1.141 (29)	0.826 (21)	0.472 (12)	0.236 (6)	M8 x 0.75	M5