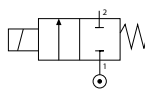




2/2 NC



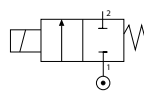
1/4"

Page 6.2





2/2 NC



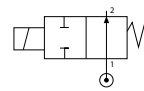
3/8" - 1/2"

Page 6.4





2/2 NO



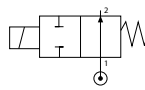
1/4"

Page 6.6





2/2 NO



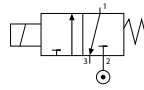
3/8" - 1/2"

Page 6.8





3/2 NC



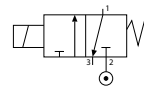
1/4"

Page 6.10





3/2 NC



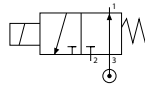
3/8" - 1/2"

Page 6.12





3/2 NO



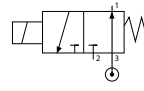
1/4"

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 - 18.9



DIRECT ACTING SOLENOID VALVES WITH BRASS BODY



II 2 G/D Ex h

C **UL** US
CSA C22.2



Series 02F

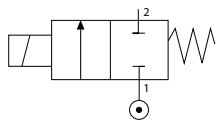
02F

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
- 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	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	
						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
02F 03 1 01 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C) F = NBR ❄️ -40°F +194°F (-40°C +90°C) V = FKM +14°F +284°F (-10°C +140°C) E = EPDM +14°F +284°F (-10°C +140°C) P = PTFE -40°F +356°F (-40°C +180°C) R = RUBY * -40°F +356°F (-40°C +180°C)	NPTF	1/32 (1)	25	0.05 (0.04)	0	1450 (100)	1450 (100)	8	14	30	C - SOL20
02F 03 1 15 _ 0 N			1/16 (1.5)	25	0.07 (0.06)	0	725 (50)	725 (50)	14	21	30	D - SOL20
02F 03 1 02 _ 0 N			5/64 (2)	37	0.12 (0.10)	0	725 (50)	725 (50)	22	31	36	E - SOL21
02F 03 1 25 _ 0 N			3/32 (2.5)	53	0.17 (0.15)	0	508 (35)	725 (50)	8	14	30	C - SOL20
02F 03 1 03 _ 0 N			1/8 (3)	53	0.24 (0.21)	0	725 (50)	725 (50)	14	21	30	D - SOL20
02F 03 1 04 _ 0 N			5/32 (4)	53	0.41 (0.35)	0	435 (30)	580 (40)	22	31	36	E - SOL21
02F 03 1 05 _ 0 N			13/64 (5)	53	0.59 (0.51)	0	653 (45)	725 (50)	8	14	30	C - SOL20
02F 03 1 64 _ 0 N			1/4 (6.4)	53	0.76 (0.65)	0	232 (16)	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
							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
							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
							22 (1.5)	51 (3.5)	14	21	30	D - SOL20
							65 (4.5)	73 (5)	22	31	36	E - SOL21

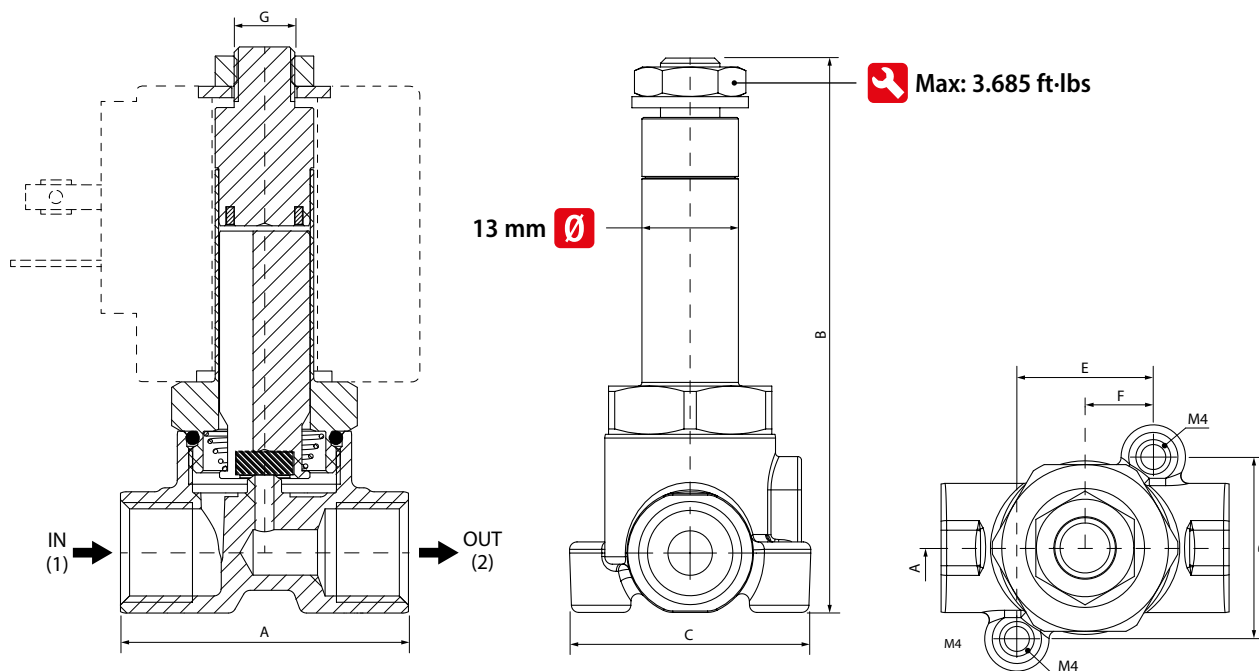
① Select seal material

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

Coil not included



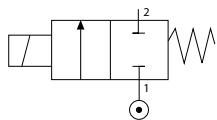
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1

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
- 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	1	0 3	N	0	N	C	A
	04 = 3/8"	1 = 2/2 NC	03 = 1/8 (3)	N = NBR	0 = Standard	N = NPTF	C = C series - SOL20	A = 12V DC
	05 = 1/2"		04 = 5/32 (4)	F = NBR			D = D series - SOL20	B = 24V DC
			05 = 13/64 (5)	E = EPDM			E = E series - SOL21	1 = 24V AC
			64 = 1/4 (6.4)	V = FKM				2 = 110V AC
				P = PTFE				3 = 220V AC
							Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.	

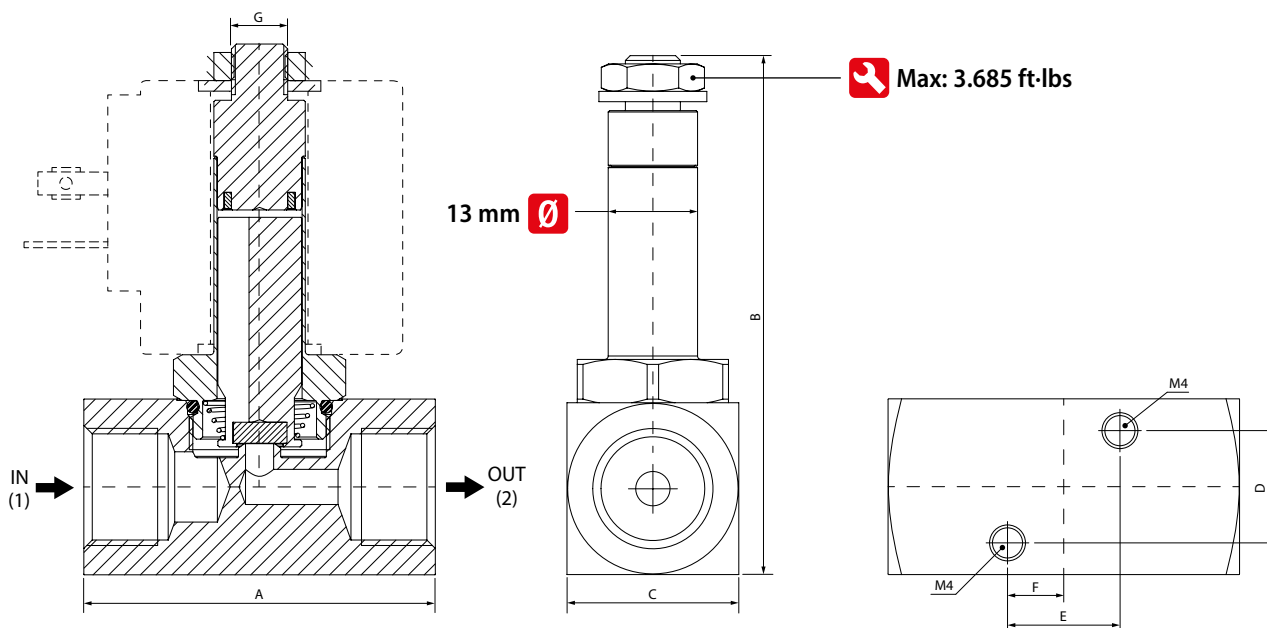
Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
①	①	NPTF	inch (mm)	cSt	gpm (m³/h)	psi (bar)			DC	AC	Size	Series
						Min	Max DC	Max AC	W	VA	mm	C - Page 17.4 D - Page 17.5 E - Page 17.6
02F 04 1 03 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C) F = NBR ❄️ -40°F +194°F (-40°C +90°C) V = FKM +14°F +284°F (-10°C +140°C) E = EPDM +14°F +284°F (-10°C +140°C) P = PTFE -40°F +356°F (-40°C +180°C)	3/8"	1/8 (3)	53	0.24 (0.21)	0	145 (10)	305 (21)	8	14	30	C - SOL20
							232 (16)	435 (30)	14	21	30	D - SOL20
							580 (40)	580 (40)	22	31	36	E - SOL21
02F 04 1 04 _ 0 N			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
02F 04 1 05 _ 0 N			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
02F 04 1 64 _ 0 N			1/4 (6.4)	53	0.76 (0.65)	0	-	36 (2.5)	-	14	30	C - SOL20
							22 (1.5)	51 (3.5)	14	21	30	D - SOL20
							65 (4.5)	73 (5)	22	31	36	E - SOL21
02F 05 1 03 _ 0 N		1/2"	1/8 (3)	53	0.24 (0.21)	0	145 (10)	305 (21)	8	14	30	C - SOL20
							232 (16)	435 (30)	14	21	30	D - SOL20
							580 (40)	580 (40)	22	31	36	E - SOL21
02F 05 1 04 _ 0 N	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	
02F 05 1 05 _ 0 N	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	
02F 05 1 64 _ 0 N	1/4 (6.4)		53	0.76 (0.65)	0	-	36 (2.5)	-	14	30	C - SOL20	
						22 (1.5)	51 (3.5)	14	21	30	D - SOL20	
						65 (4.5)	73 (5)	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



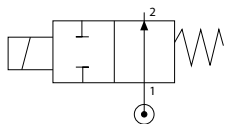
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
3/8"	1.968 (50)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1
1/2"	2.283 (58)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1

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
- 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	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

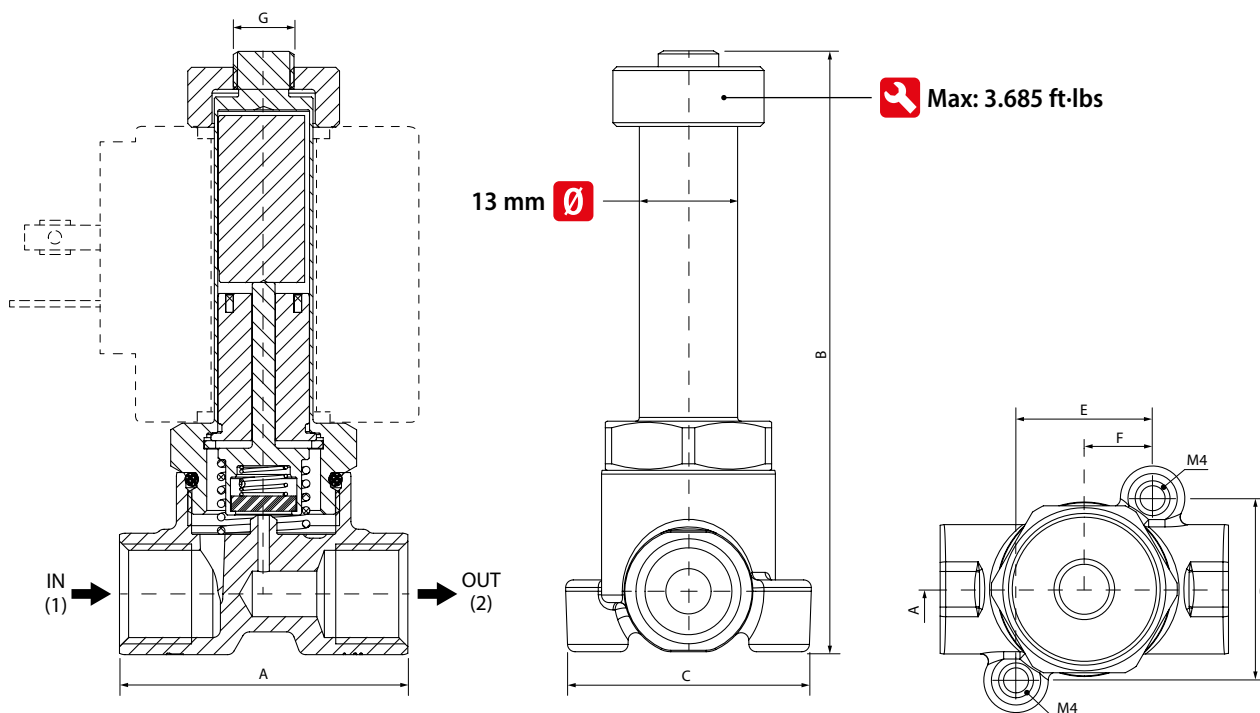
Valves and coils are supplied separately.
Upon commercial agreements can be
supplied assembled.

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	
02F 03 2 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)	NPTF	1/16 (1.5)	25	0.07 (0.06)	0	-	363 (25)	-	14	30	C - SOL20
02F 03 2 02 _ 0 N			5/64 (2)	37	0.12 (0.10)	0	-	261 (18)	-	14	30	C - SOL20
02F 03 2 25 _ 0 N			3/32 (2.5)	53	0.17 (0.15)	0	-	174 (12)	-	14	30	C - SOL20
02F 03 2 03 _ 0 N			1/8 (3)	53	0.24 (0.21)	0	-	109 (7.5)	-	14	30	C - SOL20
02F 03 2 04 _ 0 N			5/32 (4)	53	0.41 (0.35)	0	-	65 (4.5)	-	14	30	C - SOL20
02F 03 2 05 _ 0 N			13/64 (5)	53	0.59 (0.51)	0	-	36 (2.5)	-	14	30	C - SOL20

① Select seal material

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

Coil not included



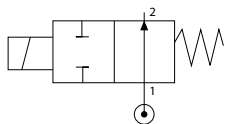
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
1/4"	1.496 (38)	3.129 (79.5)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1

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
- 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

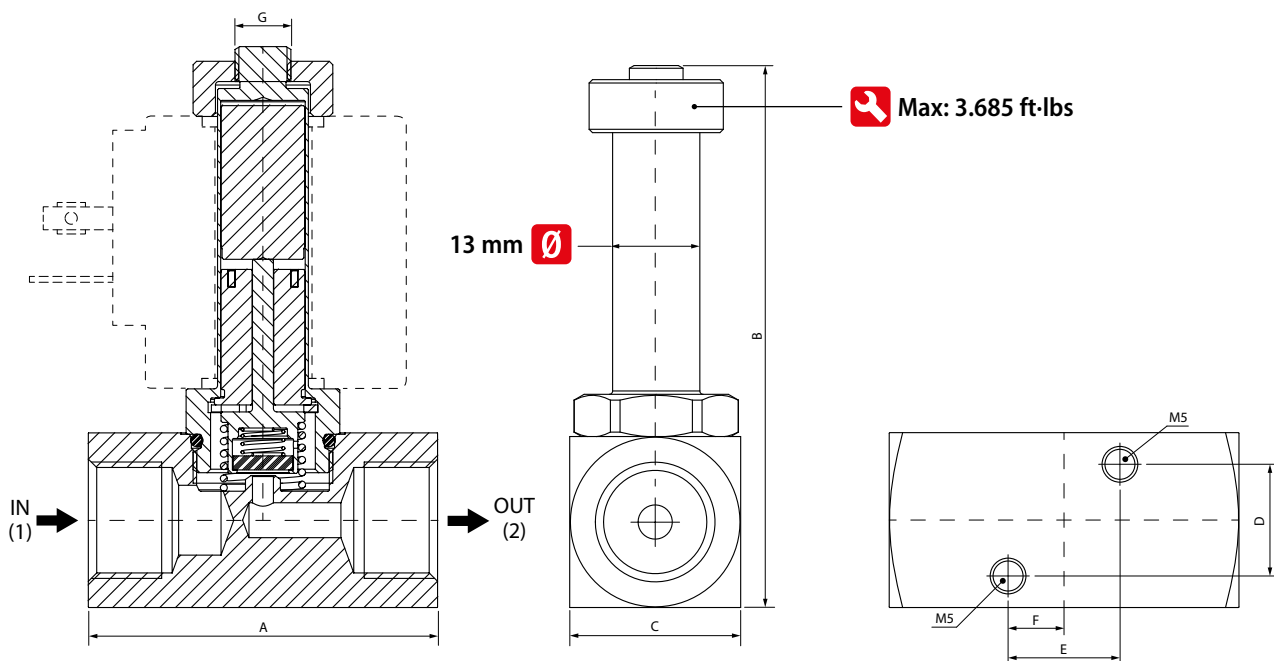
Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
0 2 F	0 4	2	0 3	N	0	N	C	A
	04 = 3/8"	2 = 2/2 NO	03 = 1/8 (3)	N = NBR	0 = Standard	N = NPTF	C = C series - SOL20	A = 12V DC
	05 = 1/2"		04 = 5/32 (4)	E = EPDM			D = D series - SOL20	B = 24V DC
			05 = 13/64 (5)	V = FKM			E = E series - SOL21	1 = 24V AC
								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	
						Min	Max DC	Max AC	DC W	AC VA	Size mm	Series C - Page 17.4 D - Page 17.5 E - Page 17.6
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) V = FKM +14°F +284°F (-10°C +140°C) E = EPDM +14°F +284°F (-10°C +140°C)	3/8"	1/8 (3)	53	0.24 (0.21)	0	-	109 (7.5)	-	14	30	C - SOL20
02F 04 2 04 _ 0 N							109 (7.5)	109 (7.5)	14	21	30	D - SOL20
02F 04 2 05 _ 0 N							109 (7.5)	109 (7.5)	22	31	36	E - SOL21
02F 05 2 03 _ 0 N		1/2"	5/32 (4)	53	0.41 (0.35)	0	-	65 (4.5)	-	14	30	C - SOL20
02F 05 2 04 _ 0 N							65 (4.5)	65 (4.5)	14	21	30	D - SOL20
02F 05 2 05 _ 0 N							65 (4.5)	65 (4.5)	22	31	36	E - SOL21
			13/64 (5)	53	0.59 (0.51)	0	-	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



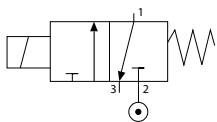
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G
3/8"	1.968 (50)	3.161 (80.3)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1
1/2"	2.283 (58)	3.161 (80.3)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1

Series 02F

DIRECT ACTING SOLENOID VALVES WITH BRASS BODY

3/2 NC

1/4"



Component Parts and Materials

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



General features - 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

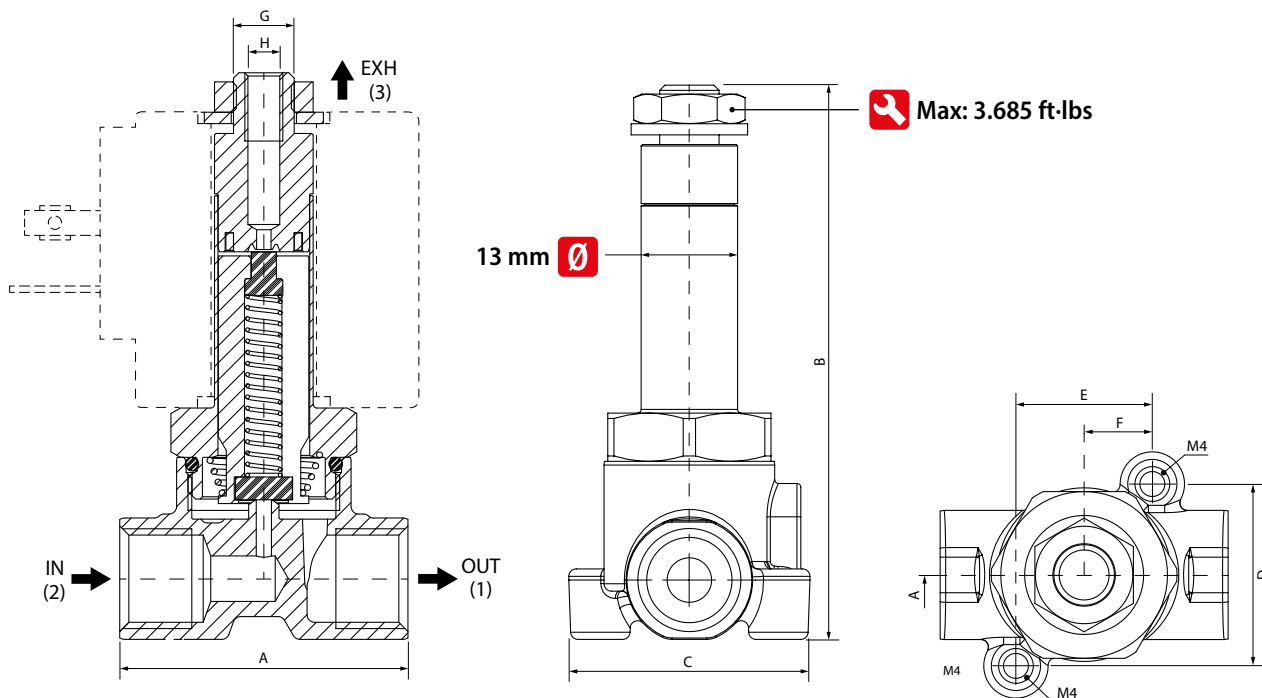
Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
0 2 F	0 3	3	1 5	N	0	N	C	A
	03 = 1/4"	3 = 3/2 NC	15 = 1/16 (1.5) 02 = 5/64 (2) 25 = 3/32 (2.5) 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	N = NBR E = EPDM V = FKM	0 = Standard	N = NPTF	C = C series - SOL20 D = 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
02F 03 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)	1/4"	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
									363 (25)	363 (25)	14	21	30	D - SOL20
									363 (25)	363 (25)	22	31	36	E - SOL21
02F 03 3 02 _ 0 N			5/64 (2)	5/64 (1.9)	37	0.12 (0.10)	0.12 (0.10)	0	261 (18)	261 (18)	8	14	30	C - SOL20
									261 (18)	261 (18)	14	21	30	D - SOL20
									261 (18)	261 (18)	22	31	36	E - SOL21
02F 03 3 25 _ 0 N			3/32 (2.5)	5/64 (1.9)	37	0.17 (0.15)	0.12 (0.10)	0	189 (13)	189 (13)	8	14	30	C - SOL20
									189 (13)	189 (13)	14	21	30	D - SOL20
									189 (13)	189 (13)	22	31	36	E - SOL21
02F 03 3 03 _ 0 N			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
									145 (10)	145 (10)	14	21	30	D - SOL20
									145 (10)	145 (10)	22	31	36	E - SOL21
02F 03 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)	8	14	30	C - SOL20
									87 (6)	87 (6)	14	21	30	D - SOL20
									87 (6)	87 (6)	22	31	36	E - SOL21
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



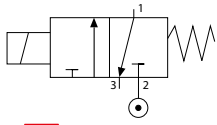
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G	H
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1	M5

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
- 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

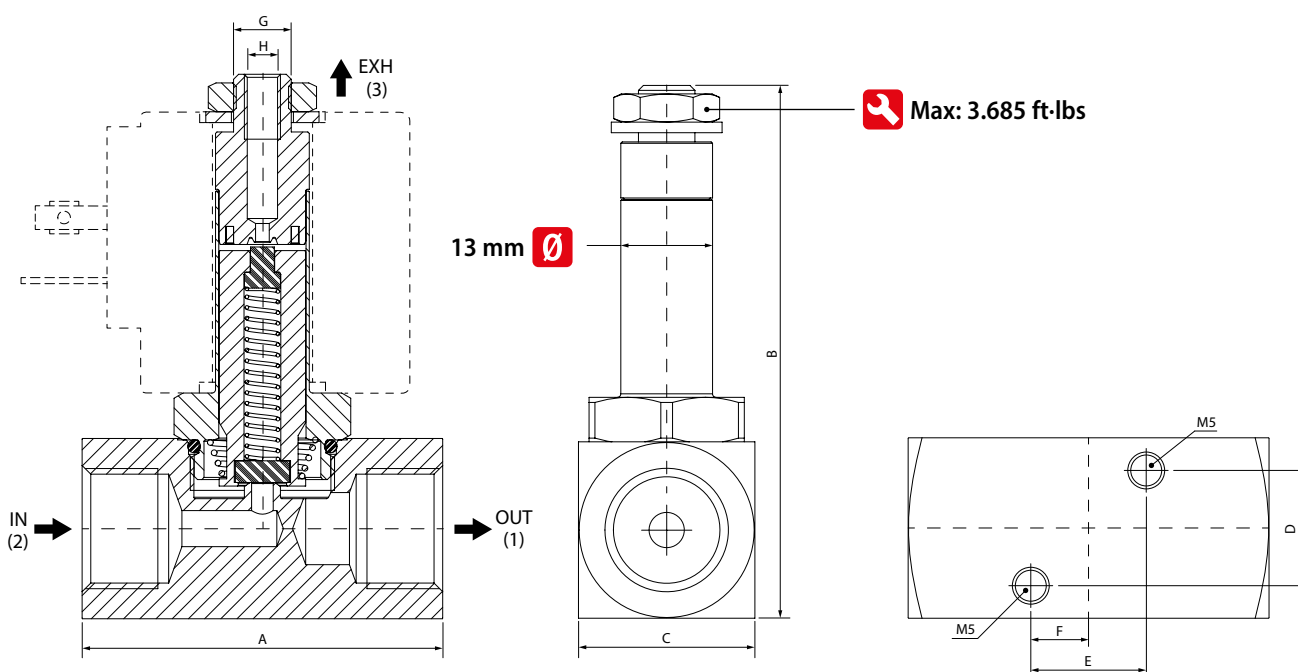
Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
0 2 F	0 4	3	0 3	N	0	N	C	A
	04 = 3/8"	3 = 3/2 NC	03 = 1/8 (3)	N = NBR	0 = Standard	N = NPTF	C = C series - SOL20	A = 12V DC
	05 = 1/2"		04 = 5/32 (4)	E = EPDM			D = D series - SOL20	B = 24V DC
			05 = 13/64 (5)	V = FKM			E = E series - SOL21	1 = 24V AC
								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) V = FKM +14°F +284°F (-10°C +140°C) E = EPDM +14°F +284°F (-10°C +140°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	87 (6)	87 (6)	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	44 (3)	44 (3)	22	31	36	E - SOL21
02F 05 3 03 _ 0 N		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
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	44 (3)	44 (3)	22	31	36	E - SOL21
									145 (10)	145 (10)				
									87 (6)	87 (6)				
									44 (3)	44 (3)				

① Select seal material

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

Coil not included



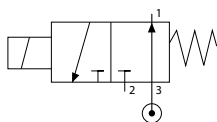
Size	A	B	C	D	E	F	G	H
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)		
3/8"	1.968 (50)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1	M5
1/2"	2.283 (58)	2.972 (75.5)	0.984 (25)	0.629 (16)	0.629 (16)	0.314 (8)	M8 x 1	M5

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
- 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

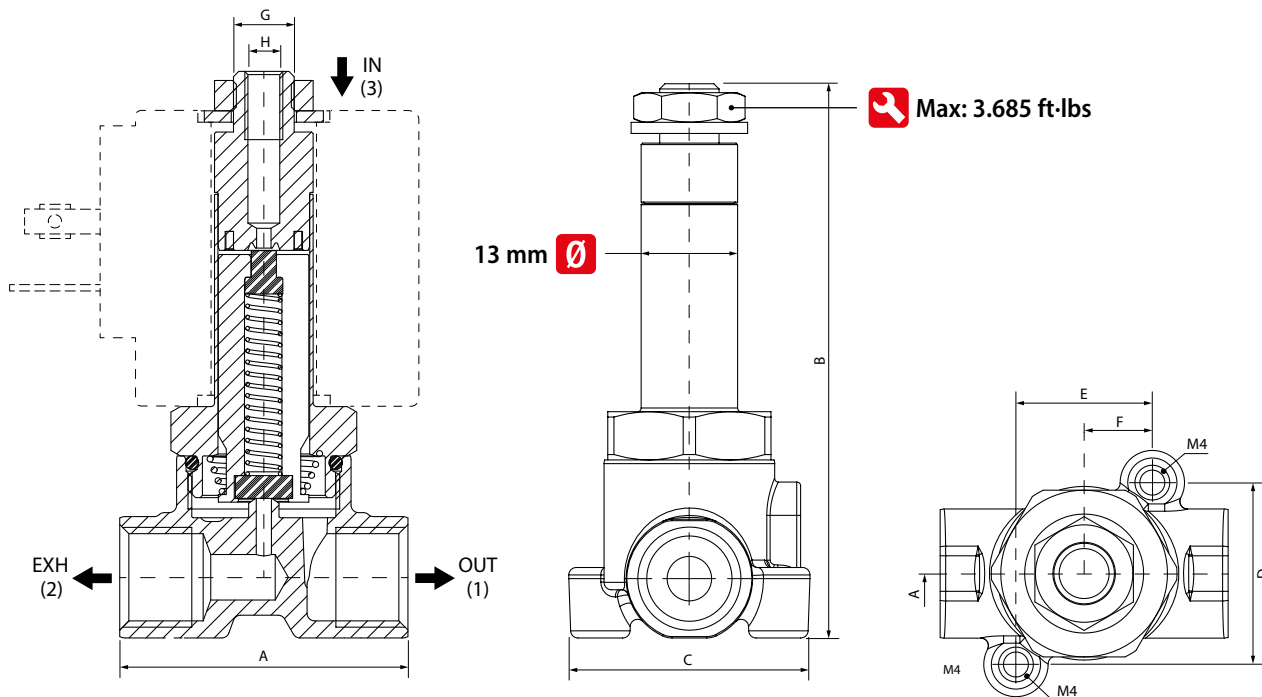
Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
0 2 F	0 3	4	1 5	N	0	N	C	A
	03 = 1/4"	4 = 3/2 NO	15 = 1/16 (1.5) 02 = 5/64 (2) 25 = 3/32 (2.5) 03 = 1/8 (3) 04 = 5/32 (4) 05 = 13/64 (5)	N = NBR E = EPDM V = FKM	0 = Standard	N = NPTF	C = C series - SOL20 D =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



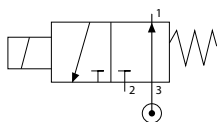
Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	G	H
1/4"	1.496 (38)	2.940 (74.7)	1.279 (32.5)	0.944 (24)	0.708 (18)	0.354 (9)	M8 x 1	M5

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
- 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

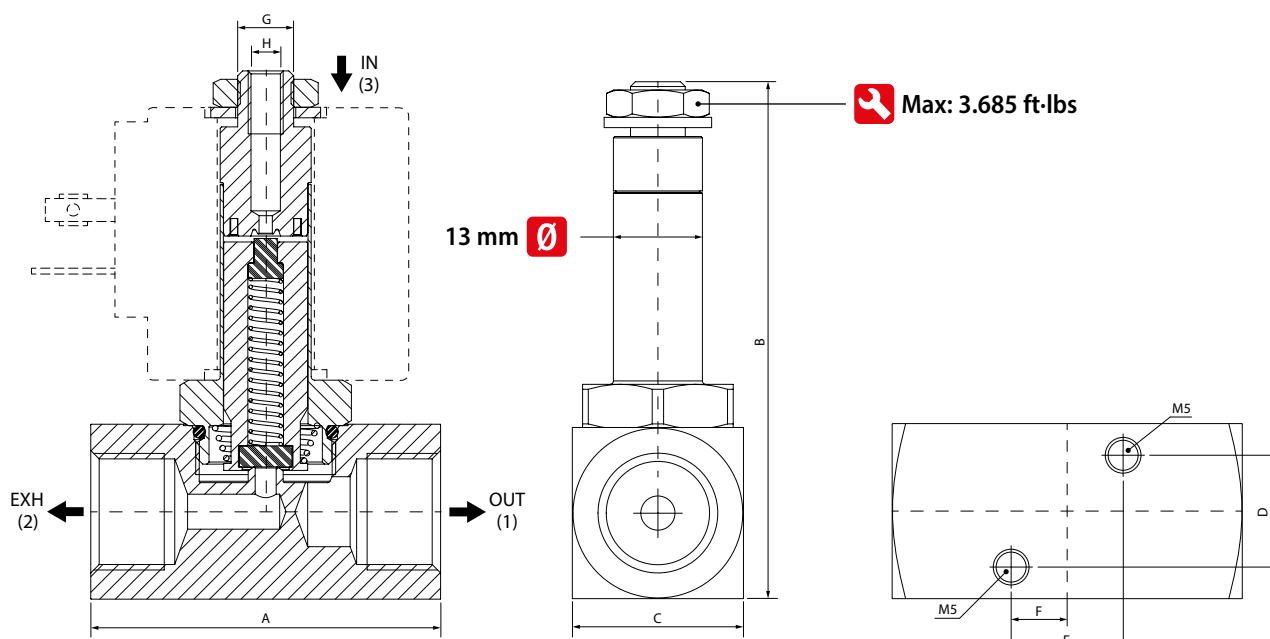
Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
0 2 F	0 4	4	0 3	N	0	N	C	A
	04 = 3/8"	4 = 3/2 NO	03 = 1/8 (3)	N = NBR	0 = Standard	N = NPTF	C = C series - SOL20	A = 12V DC
	05 = 1/2"		04 = 5/32 (4)	E = EPDM			D = D series - SOL20	B = 24V DC
			05 = 13/64 (5)	V = FKM			E = E series - SOL21	1 = 24V AC
								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) V = FKM +14°F +284°F (-10°C +140°C) E = EPDM +14°F +284°F (-10°C +140°C)	3/8"	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 04 4 02 _ 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 04 4 25 _ 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
02F 05 4 03 _ 0 N		1/2"	5/64 (1.9)	1/8 (3)	37	0.12 (0.10)	0.24 (0.21)	0	58 (4)	145 (10)	8	14	30	C - SOL20
02F 05 4 04 _ 0 N			5/64 (1.9)	5/32 (4)	37	0.12 (0.10)	0.41 (0.35)	0	102 (7)	218 (15)	14	21	30	D - SOL20
02F 05 4 05 _ 0 N			5/64 (1.9)	13/64 (5)	37	0.12 (0.10)	0.59 (0.51)	0	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	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

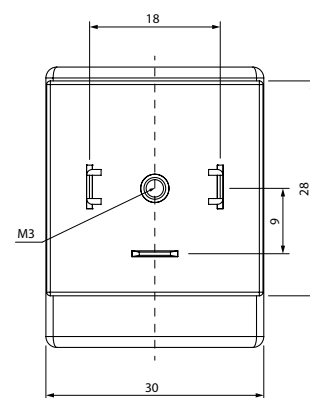
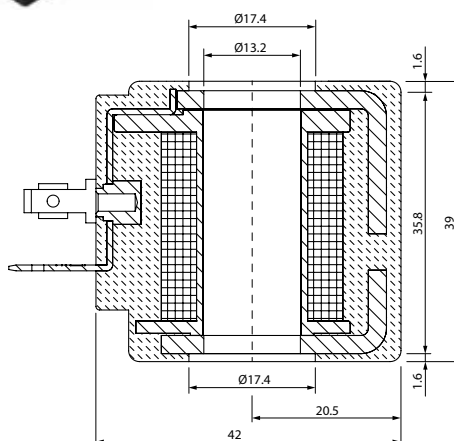
SERIES C

COIL

30 mm 

13 mm 

ED 100% 



UL 429 & CSA C22.2 NO. 139-13

The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
CA	SOL20012C5000	12V DC	8 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
CB	SOL20024C5000	24V DC	8 W	±10 %		
C1	SOL20024AA000	24V AC / 50-60 Hz	14 VA	±10 %		
C2	SOL20110AA000	110V AC / 50-60 Hz	14 VA	±10 %		
C3	SOL20220AA000	220V AC / 50-60 Hz	14 VA	±10 %		

INSULATION
CLASS

H
EN 60085

ENCAPSULATION
MATERIAL

RYNITE®

ELECTRICAL
CONNECTIONS

FORM A
EN 175301-803
(EX DIN 43650)

AMBIENT
TEMPERATURE

+14°F +176°F
(-10°C +80°C)

PROTECTION
DEGREE

IP67
IEC 60529
with connector IP67

OPTIONS

Other voltages/powers on request

SERIES D

COIL

30 mm



13 mm

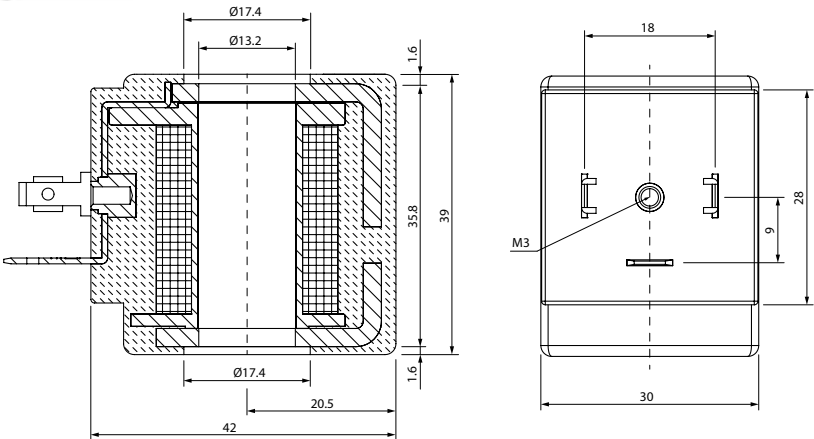


ED 100%





UL 429 & CSA C22.2 NO. 139-13



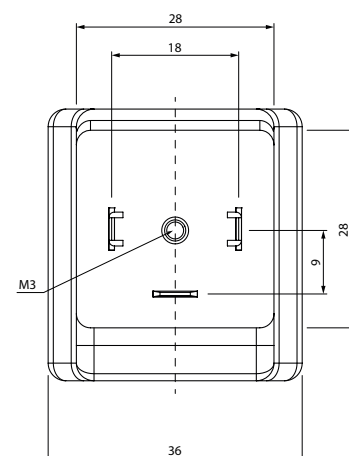
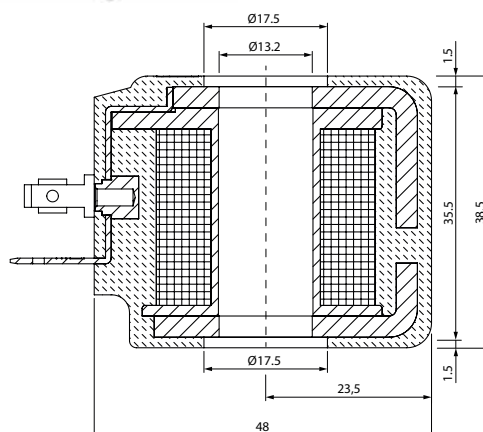
The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
DA	SOL20012C6000	12V DC	14 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
DB	SOL20024C6000	24V DC	14 W	±10 %		
D1	SOL20024AB000	24V AC / 50-60 Hz	21 VA	±10 %		
D2	SOL20110AB000	110V AC / 50-60 Hz	21 VA	±10 %		
D3	SOL20220AB000	220V AC / 50-60 Hz	21 VA	±10 %		

INSULATION CLASS	H EN 60085	ENCAPSULATION MATERIAL	RYNITE®	ELECTRICAL CONNECTIONS	FORM A EN 175301-803 (EX DIN 43650)
AMBIENT TEMPERATURE	+14°F +176°F (-10°C +80°C)	PROTECTION DEGREE	IP67 IEC 60529 with connector IP67	OPTIONS	Other voltages/powers on request

SERIES E

COIL

36 mm 13 mm ED 100% 

UL 429 & CSA C22.2 NO. 139-13

The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
EA	SOL21012C7000	12V DC	22 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
EB	SOL21024C7000	24V DC	22 W	±10 %		
E1	SOL21024AC000	24V AC / 50-60 Hz	31 VA	±10 %		
E2	SOL21110AC000	110V AC / 50-60 Hz	31 VA	±10 %		
E3	SOL21220AC000	220V AC / 50-60 Hz	31 VA	±10 %		

INSULATION
CLASSH
EN 60085ENCAPSULATION
MATERIAL

RYNITE®

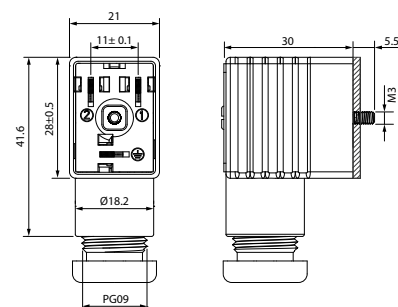
ELECTRICAL
CONNECTIONSFORM A
EN 175301-803
(EX DIN 43650)AMBIENT
TEMPERATURE+14°F +176°F
(-10°C +80°C)PROTECTION
DEGREEIP67
IEC 60529
with connector IP67

OPTIONS

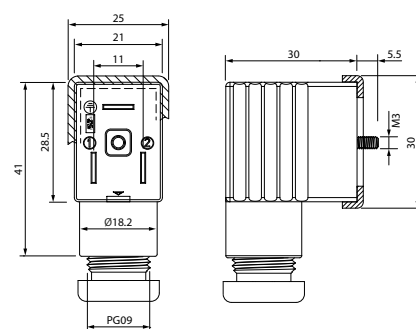
Other voltages/powers on request

CONNECTORS

22 mm



The dimensions are in millimeters (mm)



The dimensions are in millimeters (mm)

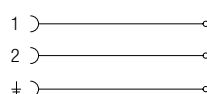
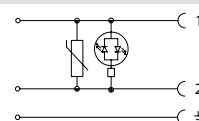
Code	Size mm	Colour	Characteristics
CON01 000 01	22	BLACK	2 PINS
CON02 024 00	22	TRANSPARENT	LED + VDR 0 - 24V
CON02 110 00	22	TRANSPARENT	LED + VDR 110V
CON02 250 00	22	TRANSPARENT	LED + VDR 220V
* CONU1 000 01	22	BLACK	2 PINS
* CONU2 024 00	22	TRANSPARENT	LED + VDR 0 - 24V
* CONU2 110 00	22	TRANSPARENT	LED + VDR 110V
* CONU2 250 00	22	TRANSPARENT	LED + VDR 220V

*: UL 1977 AND CAN/CSA C22.2 NO. 182.3

VDR: Fitted with varistors as surge protection device.



Wiring

CON01 000 01
CONU1 000 01

CON02 024 00 CON02 110 00 CON02 250 00
CONU2 024 00 CONU2 110 00 CONU2 250 00

ELECTRICAL
CONNECTIONS

FORM B - INDUSTRIAL
EN 175301-803
(EX DIN 43650)

PROTECTION
DEGREE

IP67
IEC 60529

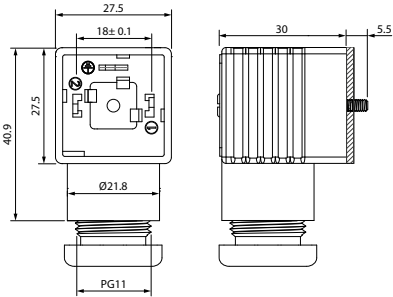
CABLE
DIAMETER

6 ÷ 8 mm
&
8 ÷ 11 mm

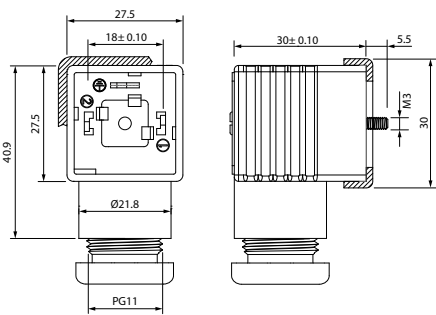
CONNECTORS

30-36 mm





The dimensions are in millimeters (mm)



The dimensions are in millimeters (mm)

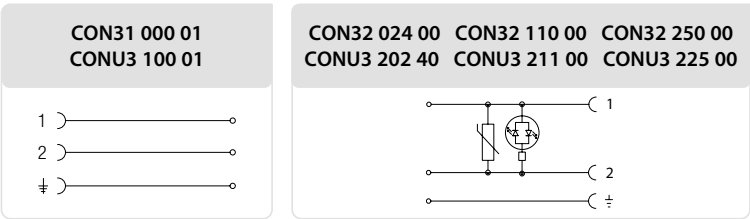
Code		Size	Colour	Characteristics
		mm		
CON31 000 01		30 - 36	BLACK	2 PINS
CON32 024 00		30 - 36	TRANSPARENT	LED + VDR 0 - 24V
CON32 110 00		30 - 36	TRANSPARENT	LED + VDR 110V
CON32 250 00		30 - 36	TRANSPARENT	LED + VDR 220V
* CONU3 100 01		30 - 36	BLACK	2 PINS
* CONU3 202 40		30 - 36	TRANSPARENT	LED + VDR 0 - 24V
* CONU3 211 00		30 - 36	TRANSPARENT	LED + VDR 110V
* CONU3 225 00		30 - 36	TRANSPARENT	LED + VDR 220V

*: UL 1977 AND CAN/CSA C22.2 NO. 182.3

VDR: Fitted with varistors as surge protection device.



Wiring



ELECTRICAL
CONNECTIONS

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(EX DIN 43650)

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CABLE
DIAMETER

6 ÷ 8 mm
&
8 ÷ 11 mm