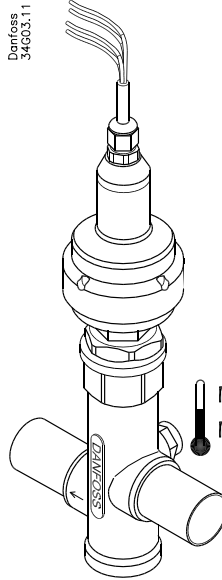


034R9510

034R9510

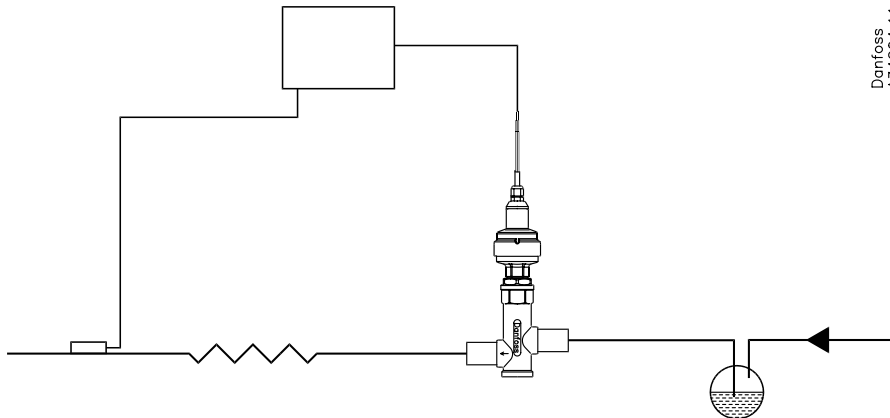
Tilladt omgivelsestemperatur
Allowable ambient temperature
Zulässige Umgebungstemperatur
Température ambiante admissible
Temperatura ambiente permisible

ETS 25, biflow
 ETS 50, biflow
 ETS 100, biflow



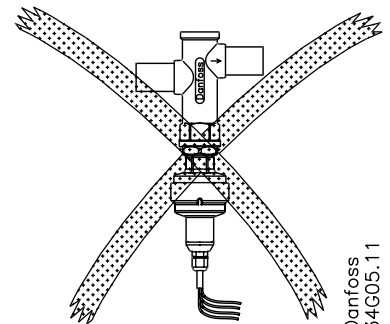
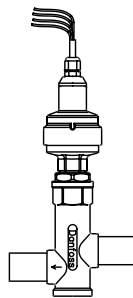
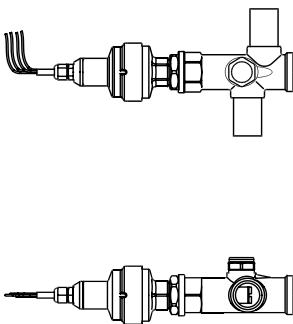
Max. +60°C (140°F)
 Min. -40°C (-40°F)

Anvendelse
Application
Anwendung
Application
Aplicación



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 A34G04.11

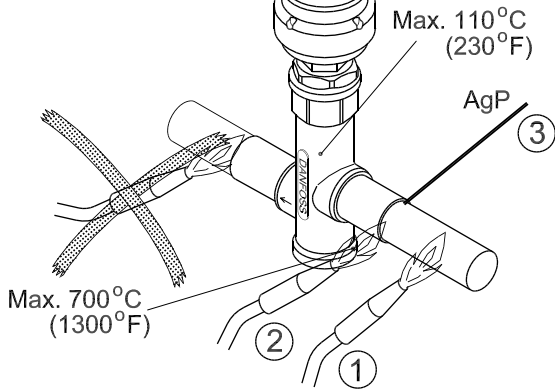
Montage
Mounting
Einbau
Montage
Instalación



Danfoss
 34G05.11

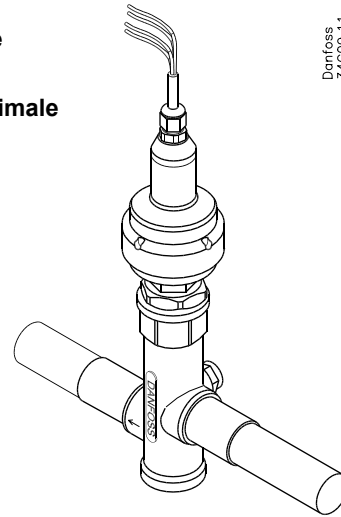
Lodning
 Brazing
 Löten
 Soudure
 Soldadura

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 34G06.11



Max. tryk
 Max. pressure
 Max. Druck
 Pression maximale
 Presión máx.

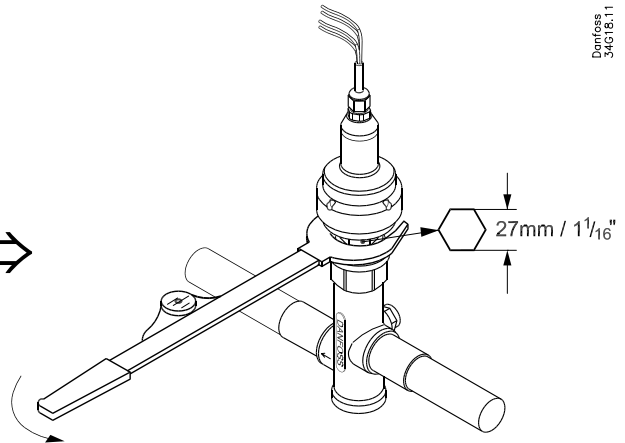
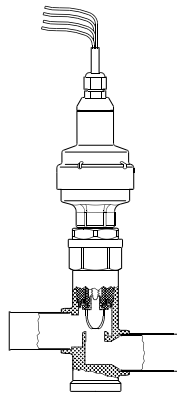
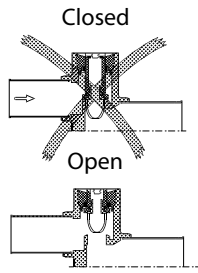
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 34G09.11



PS/MWP = 45 bar (650 psig)
 PT = 65 bar (940 psig)

Adskillelse
 Disassembling
 Zerlegung
 Désassemblage
 Desmontaje

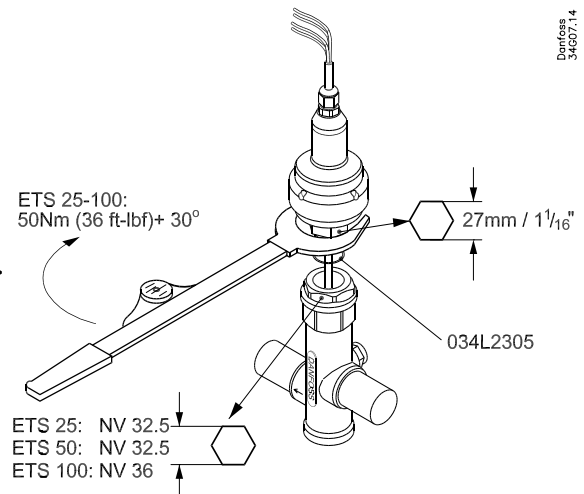
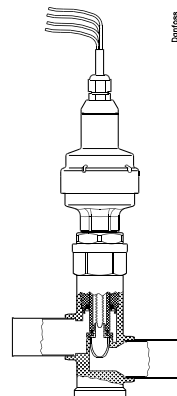
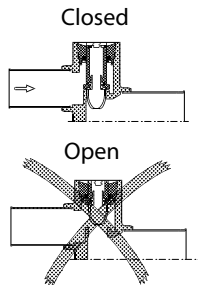
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 34G71.1



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 34G1E.11

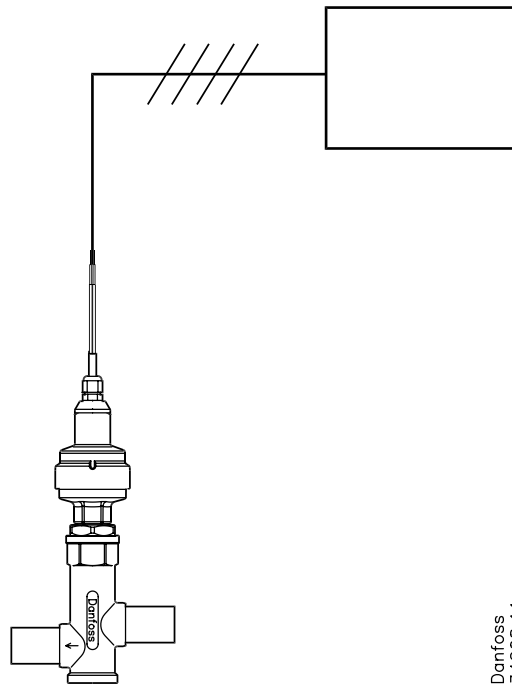
Samling
 Assembling
 Zusammenbau
 Assemblage
 Montaje

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 34G71.1



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 34G71.4

Tilslutning
Connection
Anschluss
Raccordement
Conexión



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34G08.11

Stepper motor switch sequence:

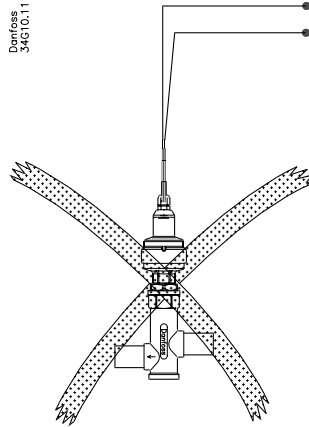
	STEP	Coil I		Coil II		
		Red	Green	White	Black	
↑ CLOSING ↑	1	+	-	+	-	↓ OPENING ↓
	2	+	-	-	+	
	3	-	+	-	+	
	4	-	+	+	-	
	1	+	-	+	-	

Electrical specifications

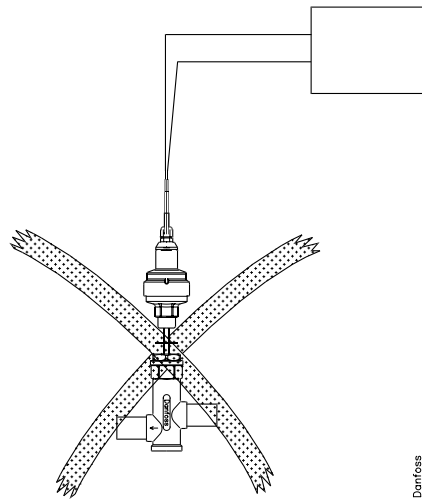
Parameter	ETS 50B / ETS 100B
Stepper motor type	Bi-polar - permanent magnet
Step mode	2 phase full step
Phase resistance	52Ω ±10%
Phase inductance	85 mH
Holding current	Depends on application. Full current allowed (100% duty cycle)
Step angle	7.5° (motor), 0.9° (lead screw), Gearing ration 8.5:1. (38/13) ² :1
Nominal voltage	(Constant voltage drive) 12 V dc -4% +15%, 150 steps/sec.
Phase current	(Using chopper drive) 100 mA RMS -4% +15%,
Max. total power	Voltage / current drive: 5.5 / 1.3 W (UL: NEC class 2)
Step rate	150 steps/sec. (constant voltage drive) 0-300 steps/sec. 300 recommended (chopper current drive)
Total steps	ETS 25: 2625 [+160 / -0] steps ETS 50: 2625 [+160 / -0] steps ETS 100: 3530 [+160 / -0] steps
Full travel time	ETS 50: 17 / 8.5 sec. (voltage / current) ETS 50: 17 / 8.5 sec. (voltage / current) ETS 100: 23 / 11.5 sec. (voltage / current)
Reference position	Overdriving against the full close position
Electrical connection	4 wire 0.5 mm ² (0.02 in ²), 2 m (6.5 ft) long cable



Advarsel!
Warning!
Achtung!
Attention!
Advertencia



Ventilen må ikke tilsluttes direkte.
Do not apply power directly to valve.
Das Ventil darf nicht direkt angeschlossen werden.
Ne pas raccorder l'alimentation électrique directement sur la vanne
No aplicar tensión directamente a la válvula



Tilslut aldrig spænding til en usamlet ventil.
Do not apply power to unassembled valve.
Das Ventil darf nur wenn komplett zusammengebaut angeschlossen werden.
Ne pas raccorder l'alimentation électrique sur une vanne non assemblée.
No aplicar tensión a la válvula desmontada.