

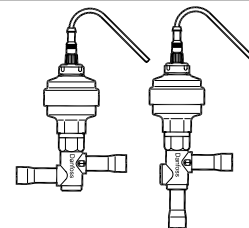
Instruction



034R9797

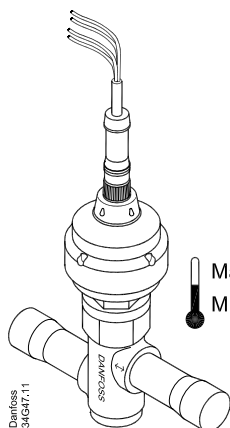
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ETS 12½, ETS 25 & KVS 15



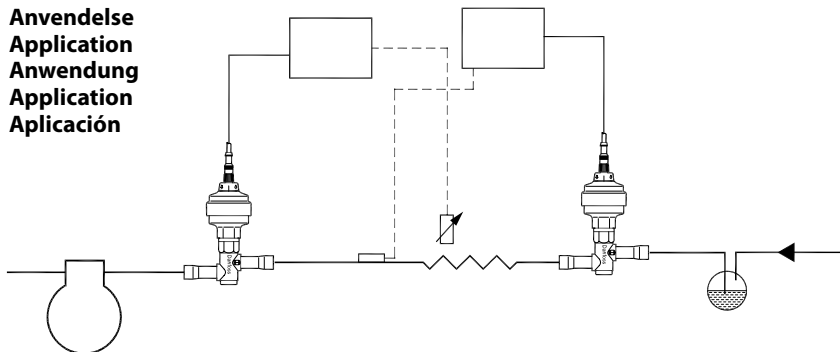
Tilladt omgivelsestemperatur
Allowable ambient temperature
Zulässige Umgebungstemperatur
Température ambiante admissible
Temperatura ambiente permisible

ETS 12½, 25 and KVS 15
 PS/MWP = 45.5 (659.9 psig)

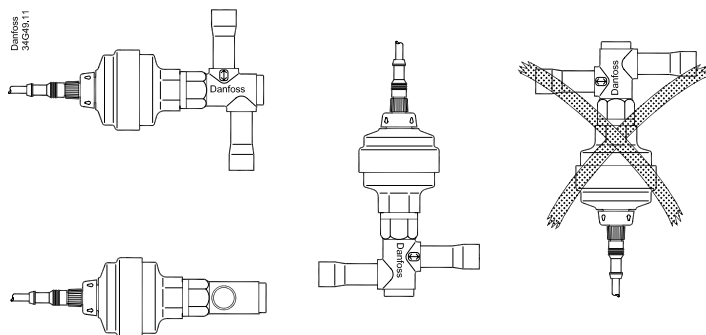


Max. +60°C (140°F)
 Min. - 40°C (- 40°F)

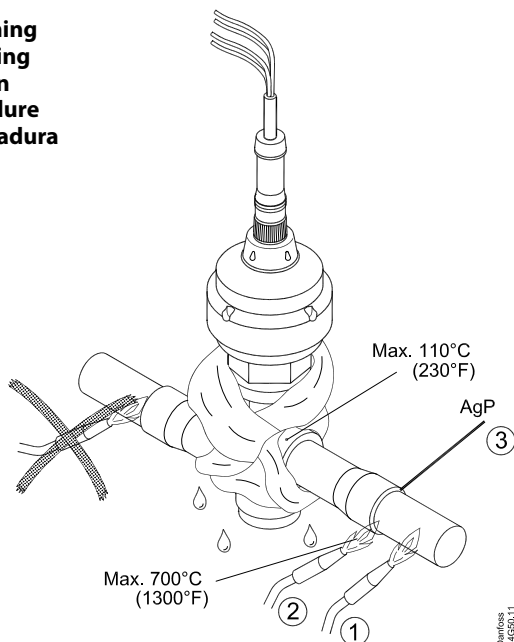
Anvendelse
Application
Anwendung
Application
Aplicación



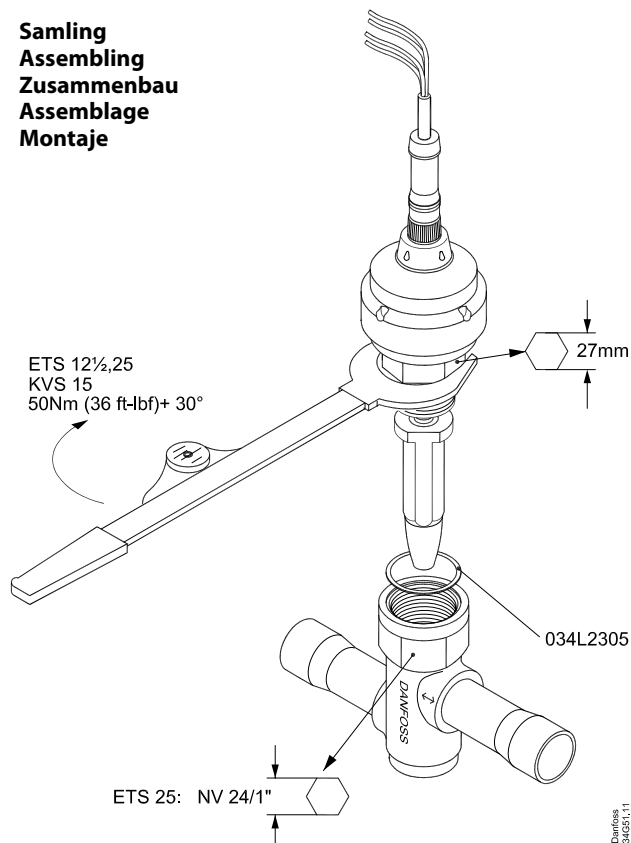
Montage
Mounting
Einbau
Montage
Instalación



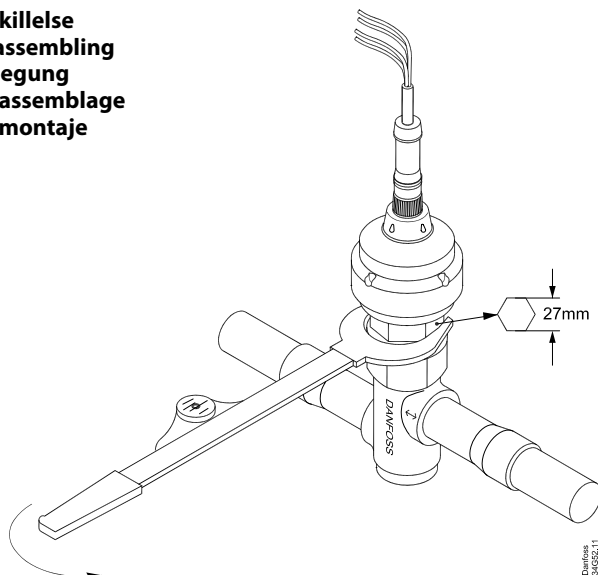
Lodning
Brazing
Löten
Soudure
Soldadura



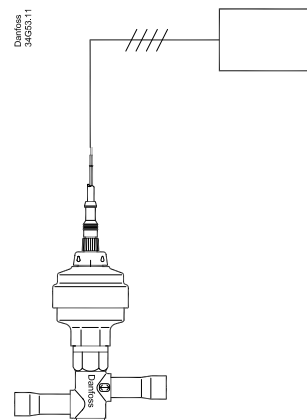
Samling
Assembling
Zusammenbau
Assemblage
Montaje



**Adskillelse
Disassembling
Zerlegung
Désassemblage
Desmontaje**

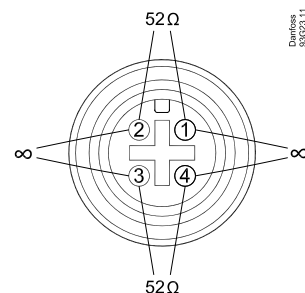


**Tilslutning
Connection
Anschluss
Raccordement
Conexión**



Parameter	ETS 12½, 25 & KVS 15
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 ratio 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, 12": 2625 [+160 / -0] steps
Full travel time	17 / 8.5 sec. (voltage / current)
Reference position	Overdriving against the full close position
Electrical connection	M12 connector

AST / ETS	Connector
4	Black*
3	White*
2	Green*
1	Red*
Conn.1 Wire Color	Conn.2
Pin Out	

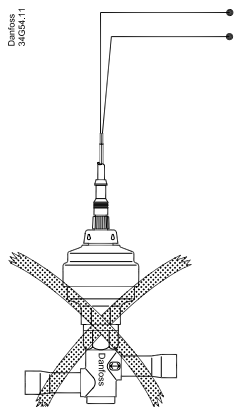


Motor and connection check



**Advarsel!
Warning!
Achtung!
Attention !
Advertencia**

- Ventilen må kun tilsluttes regulator.
- 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 usamlert 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.

