

Installation guide

# Electric expansion valve, type ETS 250, ETS 400, ETS 500P and ETS 800P Electric regulating valve, type KVS 42

034R9799

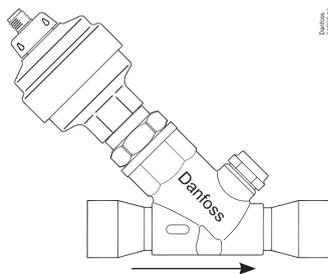


034R9799



<p>Compatible refrigerants / Kältemittel Kompatibilität / Fluides compatibles / Compatibilidad de refrigerantes / 适用的冷媒</p> <p><b>ETS 250, 400 and KVS 42:</b> R134a, R404A, R407A, R410A, R438A, R448A, R449A, R450A, R452A, R513A, R422B, R407C, R422D, R407F, R1234ze, R22, R507</p> <p><b>ETS 500P and ETS 800P:</b> R134a, R1234ze, R513A</p>	<p>Inlet fluid temperature / Eingangstemperaturbereich / entrée température du fluide / entrada temperatura líquida / 入口流体温度</p> <p>Max. 65 °C / 149 °F Min. -40 °C / -40 °F</p>	<p>Max. working pressure / Max. zul. Betriebsüberdruck / Pression de service max. / Presión de trabajo máx. / 最大工作压力</p> <p><b>ETS 250, 400 and KVS 42:</b> PS / MWP : 34 bar / 493 psig</p> <p><b>ETS 500P and 800P</b> PS / MWP : 25 bar / 363 psig</p>
<p>Allowable ambient temperature / Zulässige Umgebungstemperatur / Température ambiante admissible / Temperatura ambiente permisible / 允许的运行温度</p> <p>Max. 60 °C / 140 °F Min. -40 °C / -40 °F</p>	<p>Nominal voltage / Nennspannung / Tension nominale / Voltaje nominal / 名义电压</p> <p>12 V DC</p> <p>Stepper motor type / Schrittmotortype / Type de moteur pas à pas / Tipo de motor a pasos / 步进电机形式</p> <p>Bipolar / 双极</p>	<p>Phase current / Phasenstrom / Phase électrique / Corriente de fase / 相电流</p> <p>100 mA</p> <p>Resistance / Widerstand / résistance électrique / Resistencia / 电阻</p> <p>52 Ω</p>

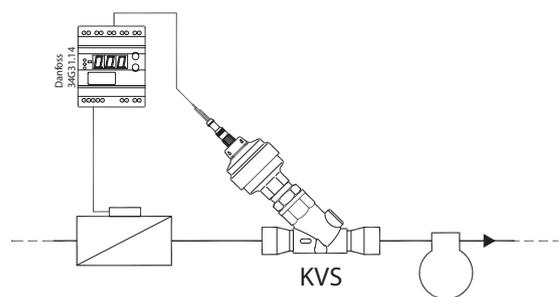
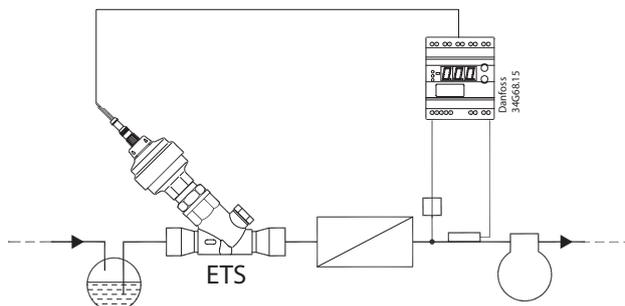
**Flow direction**  
Durchflussrichtung  
Sens d'écoulement  
Dirección del flujo  
流向



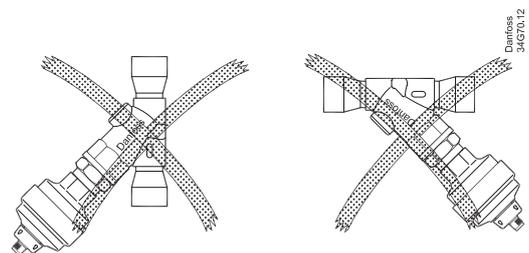
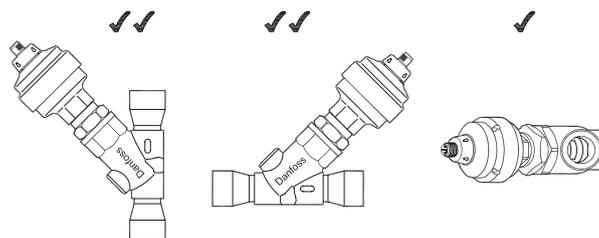
\* Flow direction for liquid verification using the sight glass

ETS 250, ETS 400, ETS 500P and ETS 800P\*  
KVS 42 (without sight glass)

**Application**  
Anwendung  
Application  
Aplicación  
应用

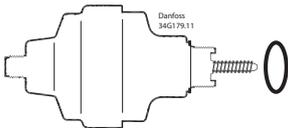
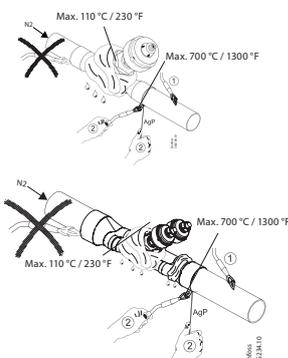
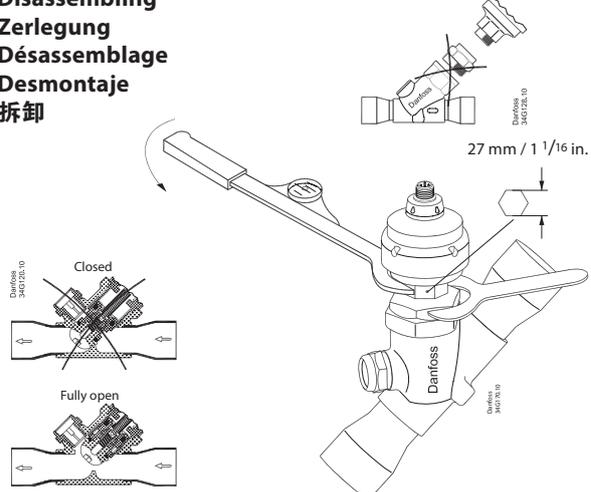
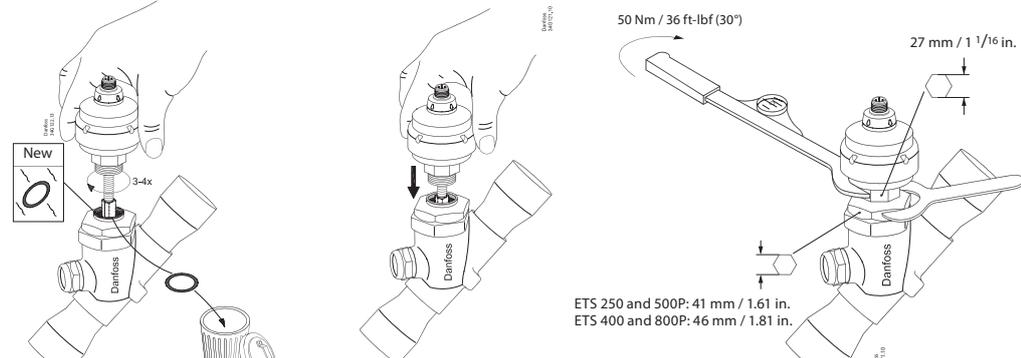
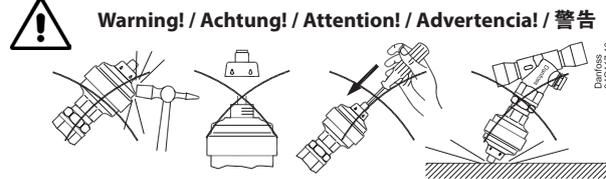
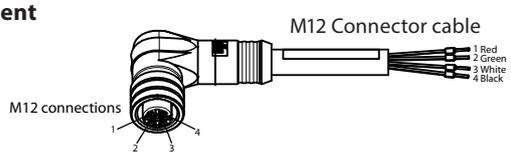
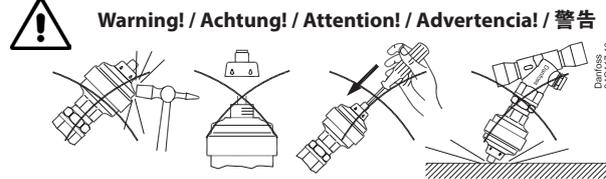


**Mounting**  
Einbau  
Montage  
Instalación  
安装



Імпортер: ТОВ з іі "Данфосс ТОВ" 04080, Київ 80, п/с 168, Україна

Danfoss Ltd., 22 Wycombe End, HP9 1NB, GB

<p><b>For service only / Nur für Service-Zwecke / Pour l'entretien uniquement / Sólo para mantenimiento / 仅供维修之用</b></p> <p><b>Contact Danfoss for spare parts for oil free application</b></p>	 <p><b>034G2087</b></p>	 <p><b>034G2344</b></p>
<p><b>Brazing Löten Soudure Soldadura 焊接</b></p> <p><b>ETS 250, 400 and KVS 42</b></p>  <p><b>ETS 500P and 800P</b></p> <p>N2 gas from opposite side of soldering point. Schutzgas gegenüber der Lötstelle einströmen lassen. Refroidissement gaz ci-contre site de point de soudure. Corriente de N2 desde el lado opuesto a la soldadura. 气体冷却对面的焊点(氮气保护)</p>	<p><b>Disassembling Zerlegung Désassemblage Desmontaje 拆卸</b></p> 	
<p><b>Assembling Zusammenbau Assemblage Montaje 安装</b></p>  <p>ETS 250 and 500P: 41 mm / 1.61 in. ETS 400 and 800P: 46 mm / 1.81 in.</p>	<p><b>Warning! / Achtung! / Attention! / Advertencia! / 警告</b></p>  <ul style="list-style-type: none"> <li>Do not connect directly to AC/DC power source. Connect valve to appropriate controller/driver only. Do not operate valve while assembling or disassembling.</li> <li>Bitte den ETS nicht direkt mit einer Spannungsquelle (Gleich- oder Wechselstrom) verbinden. Schließen Sie das Ventil nur an geeignete Regler/Steuergeräte an. Ventil bitte nicht in zerlegtem Zustand ansteuern.</li> <li>Ne pas raccorder directement le moteur à une alimentation AC / DC. Raccorder la vanne au régulateur approprié. Ne pas actionner la vanne pendant le montage ou le démontage.</li> <li>No aplicar tensión directamente a la válvula. Conectar la válvula a un controlador/driver adecuado. No haga funcionar la válvula durante el montaje o desmontaje.</li> <li>请仅将阀门连接于合适的控制器/控制器，勿直接与交流或直流电源连接。在安装和拆卸阀门时请勿操作电子膨胀阀。</li> </ul>	
<p><b>Connection Anschluss Raccordement Conexión 链接</b></p>  <p>M12 connections</p> <p>Electrical check of stepper motor and wiring. Coil I = 52 Ω Coil II = 52 Ω</p>	<p><b>Warning! / Achtung! / Attention! / Advertencia! / 警告</b></p>  <ul style="list-style-type: none"> <li>Do not connect directly to AC/DC power source. Connect valve to appropriate controller/driver only. Do not operate valve while assembling or disassembling.</li> <li>Bitte den ETS nicht direkt mit einer Spannungsquelle (Gleich- oder Wechselstrom) verbinden. Schließen Sie das Ventil nur an geeignete Regler/Steuergeräte an. Ventil bitte nicht in zerlegtem Zustand ansteuern.</li> <li>Ne pas raccorder directement le moteur à une alimentation AC / DC. Raccorder la vanne au régulateur approprié. Ne pas actionner la vanne pendant le montage ou le démontage.</li> <li>No aplicar tensión directamente a la válvula. Conectar la válvula a un controlador/driver adecuado. No haga funcionar la válvula durante el montaje o desmontaje.</li> <li>请仅将阀门连接于合适的控制器/控制器，勿直接与交流或直流电源连接。在安装和拆卸阀门时请勿操作电子膨胀阀。</li> </ul>	

**Danfoss A/S**  
Climate Solutions • danfoss.com • +45 7488 2222

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.