

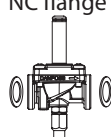
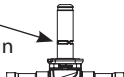

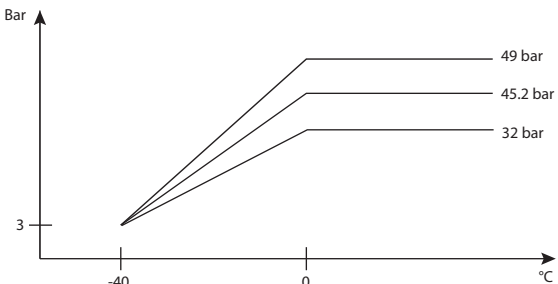
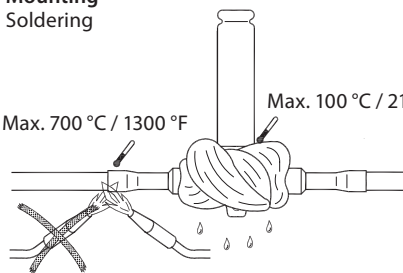
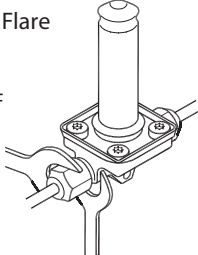
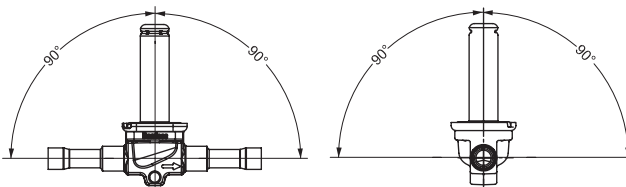

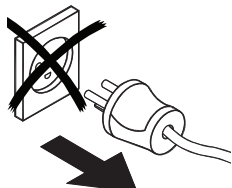
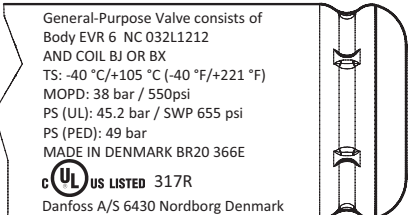
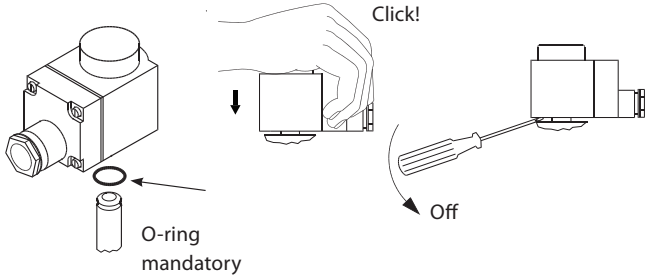
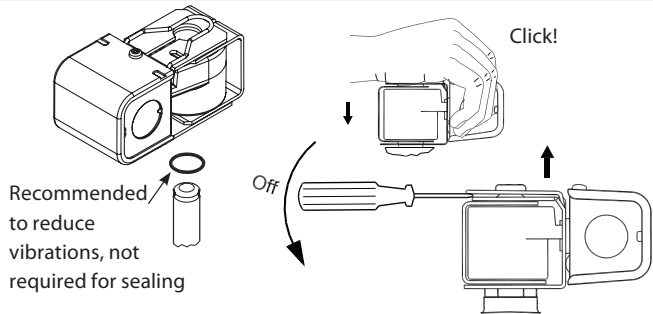



Solenoid valve

Types EVR 2 – EVR 22 (Version 2)

032R9609

032R9609

NC solder	NC flare	NC flange	NO solder
			 Note: tube design
<p>Refrigerants R1234yf, R1234ze(E), R125, R134a, R152a, R22, R290, R32, R404A, R407C, R407F, R407H, R410A, R413A, R417A, R422A, R422B, R422D, R438A, R422A, R422B, R422D, R438A, R442A, R444B, R447A, R447B, R448A, R449A, R449B, R450A, R452A, R452B, R454A, R454B, R454C, R455A, R463A, R507A, R512A, R513A, R513B, R515A, R515B, R516A, R600, R600a. For complete list of approved refrigerants, visit https://store.danfoss.com and search for individual code numbers, where refrigerants are listed as part of technical data.</p> <p>Note Pick up valves carefully from package.</p> <p>Filter Filter drier is always recommended in customer system.</p> <p> Special note for R1234yf, R1234ze, R152A, R290, R32, R444B, R452B, R454A, R454B, R454C, R455A, R516A, R600 and R600a: The EVR 2 – EVR 22 with solder connections and without manual stem is validated in accordance to ATEX, ISO 5149, IEC 60335-2-24, IEC 60335-2-40, and UL. Ignition risk is evaluated in accordance to ISO 5149, and IEC 60335.</p> <p>NOTE 1: EVR 2-15 flare connections are only approved for A1 and A2L refrigerants.</p> <p>NOTE 2: Excluded from this EVR 22 with connections 1 3/8 inch / 35 mm related to PED requirements.</p>		<p>Max. working pressure EVR solder and flare connections: 45.2 bar. EVR flange connections: 32 bar. EVR PED version: 49 bar. (Approved max. working pressure is marked on the armature tube)</p> <p>Note Avoid reverse flow in EVR (except EVRC) to avoid unstable function or long term damage of valve. Arrow on valve body must follow the direction of normal flow. Coil must be energized when EVRC used in reverse flow. When EVRC is de-energized (closed), the refrigerant will be stopped only in the direction of normal flow.</p>  <p>Max. working pressure in bar in relation to media temperature in °C.</p>	
<p>Media temperature: -40 °C / -40 °F – 105 °C / 221 °F</p>		<p>Max. opening diff. pressure (MOPD): Coil dependent</p>	
<p>Mounting Soldering</p>  <p>Max. 700 °C / 1300 °F</p> <p>Max. 100 °C / 211 °F</p> <p>Flare</p> 		<p>Mounting angle</p> 	
<p> Always disconnect power from the coil when dismantled from the valve. The coil may be damaged and there is risk of injuries and burns.</p> 		<p>ID Marking - example Valve identification and reference to UL listed coils</p> <div><p>General-Purpose Valve consists of Body EVR 6 NC 032L1212 AND COIL BJ OR BX TS: -40 °C/+105 °C (-40 °F/+221 °F) MOPD: 38 bar / 550psi PS (UL): 45.2 bar / SWP 655 psi PS (PED): 49 bar MADE IN DENMARK BR20 366E c UL US LISTED 317R Danfoss A/S 6430 Nordborg Denmark</p></div>  <div><p>Danfoss MADE IN DENMARK Type BJ120CS Spare part no. 018F4110 110-120V 60Hz 15W 110V 50Hz 16W To be used with listed valve body EVR-EVRC-EVRC-EV2xx series AKV-AKVA c UL US See armature tube or label</p><p>Coil print</p></div>	
 <p>Click!</p> <p>Off</p> <p>O-ring mandatory</p>		 <p>Click!</p> <p>Off</p> <p>Recommended to reduce vibrations, not required for sealing</p>	
<p> The EVR 2 – EVR 22 with solder connections and without manual stem can be applied on systems with R1234yf, R1234ze, R152A, R290, R32, R444B, R452B, R454A, R454B, R454C, R455A, R516A, R600 and R600a as the working fluid. EVR 2-15 flare connections are only approved for A1 and A2L refrigerants. For countries where safety standards are not an indispensable part of the safety system Danfoss recommend the installer to get a third party approval of the system containing flammable refrigerant. Note, please follow specific selection criteria stated in the datasheet for these particular refrigerants.</p>			

Disassembly and assembly of EVR version 2

Mounting / dismounting of top part
EVR 2 – EVR 8

Note!
Always use cross-tightening

Type	[Nm]	[kpm]	[ft-lbs]	Torx size
EVR 2, EVR 3, EVR 4, EVR 6, EVR 8	3.0	0.3	2.2	T15

Mounting / dismounting of top part
EVR 10 – EVR 22

NOTE: For 032L1219(EVR10), we don't recommend to disassemble the valve for the first installation. We have added grease on the gasket to ensure the sealing performance. Disassemble the valve would increase the risk of gasket failure and valve leakage. Please contact Danfoss for further information.

Note!
Always use cross-tightening

Type	[Nm]	[kpm]	[ft-lbs]	Torx size
EVR 10, EVR 15, EVR 18	10	1	7.4	T30
EVR 20, EVR 22	30	3	22.1	T45

Mounting of support washer

Special for EVR 4 – EVR 8:
Dismounting gasket and supporting ring

Caution!
For EVR 2 – EVR 3, and EVR 10 – EVR 22, a screwdriver might be needed for removal of the gasket. Be careful not to scratch the gasket surface.

EVR 2 – EVR 3 (NC)

EVR 4 – EVR 8 (NC)

EVR 10 – EVR 22 (NC)

EVR 4 – EVR 8 (NO)

EVR 10 – EVR 20 (NO)

Manual operation for pressure testing and service related operation:

Only use the manual stem operation of the EVR NC valve during initial pressure testing of the refrigeration system or during service related manual operation. Remove the protective cap and rotate the manual stem clockwise approx. 6 cycles from fully closed to fully open position. After the manual operation is completed, ensure to rotate the manual stem counter-clockwise back to fully closed position and re-mount the protective cap before connecting the valve to automatic operation. MOPD for the manual operation function is 5 bar. Alternatively, all EVR NC and NO valves can be manually operated by removing the coil and force the valve open or closed by using a solenoid valve tester (permanent magnet).

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.