

Shut Off Ball Valve

Type OFB

Refrigerants:

R134a, R513A, R515B, R1234ze(E)

For a complete list of approved refrigerants, visit <http://store.danfoss.com/> and search for individual code numbers, where refrigerants are listed as part of product details.

Oil: OFB valve is designed for an oil-free environment

Media Temperature:

Min. -40 °C / -40 °F

Max. 100 °C / 212 °F

Max. Working Pressure:

PS/MWP = 23 bar / 334 psig

Accessories delivered with OFB:

- Bolts M16×55 (4 pcs)
- M16 plain washer (4 pcs)
- M16 spring washer (4 pcs)
- O-ring compatible for Turbocor compressor (1 pc)
- M8×20 tensilock bolts (4 pcs)
- O-ring lubrication (2 gram)
- Manual kit

Accessories delivered with flange:

- Bolts M16×90 (4 pcs)
- M16 plain washer (8 pcs)
- M16 spring washer (8 pcs)
- M16 nuts (4 pcs)
- O-ring compatible with OFB (1 pc)
- O-ring lubrication (2 gram)

Interface connection:

Install the valve directly onto the Danfoss Turbocor compressor, as illustrated with a suction side ball valve featuring a 4 ANSI flange. Ensure that all fasteners and bolts are made of stainless steel, with bolts meeting a minimum class of A2-70.



Note: Protection of entire valve including steel flange is recommended after installation for outdoor use.



Installation steps:

Figure 1: Ensure the pipe is connected to the flange in accordance with the specific requirements of the connection application, welding or soldering etc.

Figure 2: Position the lubricated O-ring in the O-ring groove. Carefully remove the O-ring for reuse.

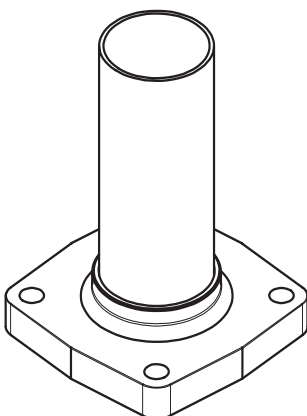


Figure 1

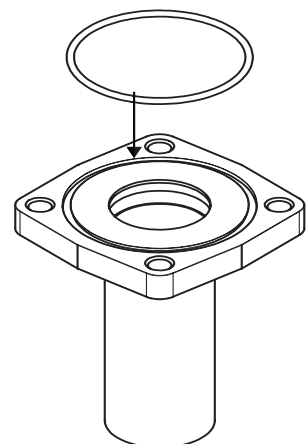


Figure 2



Note: Never solder the flange when it is connected on OFB valve.

Installation steps:

Figure 3: Attach the flange to the ball valve



Note: The surface of steel flange needs to be guarded against corrosion with a suitable protective coating before installation.

The spring-loaded ball seal assembly will be securely positioned once the flange is placed on top.

Bolt size – M16x90
Torque: 80 Nm \pm 10 Nm

Don't scratch the sealing surface of the ball valve

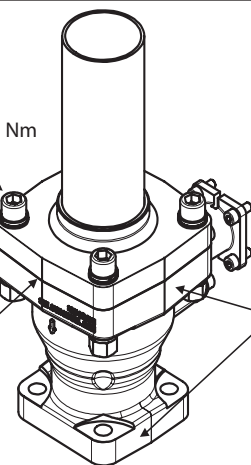


Figure 3

Installation steps:

Figure 4: Attach the ball valve directly to the Turbocor compressor
Place lubricated O-ring in the O-ring groove of Turbocor compressor suction flange



Note: Don't lubricate spindle and bonnet, mineral oil may damage the O-rings.

Bolt size – M16x55
Torque: Reference to the specific compressor requirements

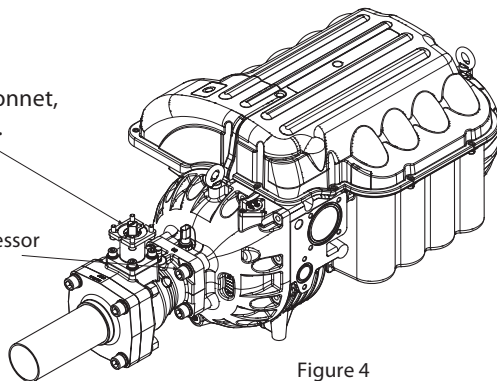
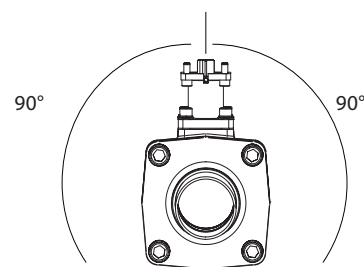
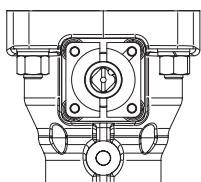


Figure 4

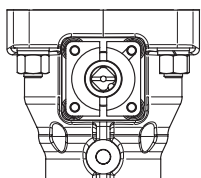
Mounting angle:



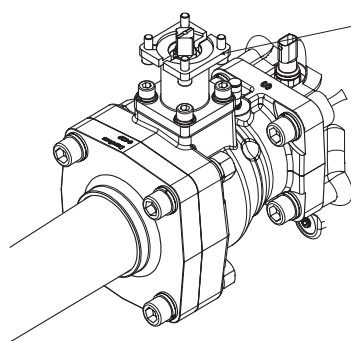
Option 1: Electrical actuation - Mount the actuator on ball valve (keep the valve close before mounting)



Open



Close



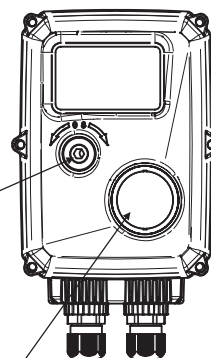
Actuator mounting flange

ISO 5211 - F07

Stem dimension: square 17 mm

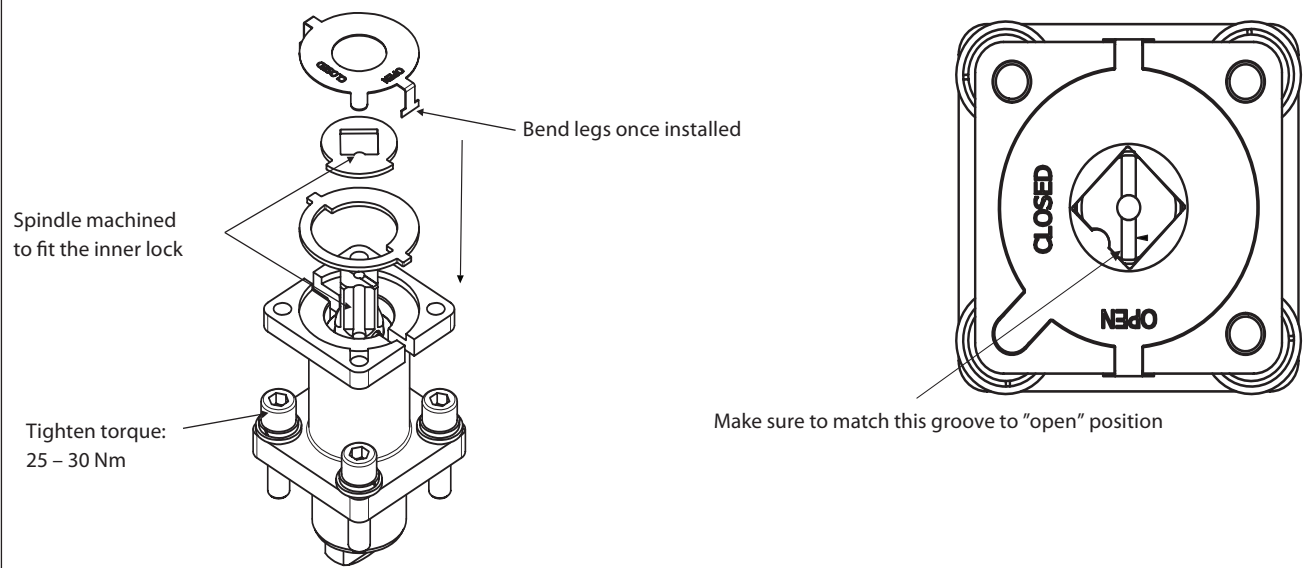
Manual open/close
Clockwise: close
Anti-clockwise: open

Yellow: open
Red: close



Use four tensilock screws to mount the actuator onto the actuator mounting flange, tighten the screws with torque 15 \pm 3 Nm

Option 2: Manual actuation - Mount the manual kit on the ball valve



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