Installation guide

Check and Stop valve

Type OFC

Single and Dual stage, Compact, Spacer

020R5418

Refrigerant:
R134a, R513A, R515B, R1234ze(E)
Oil: OFC valve is designed for an oil-free environment.
For more information, visit http://store.danfoss.com/ and search for individual code, where refrigerants are listed as part of product details.

Media Temperature:
Min. -40 °C / -40 °F
Max. 100 °C / 212 °F

Max. Working Pressure:
PS/MWP = 23 bar / 334 psig

Contents of accessory box
1 pc OFC outlet port flange.
1 pc O-ring for OFC outlet port flange.
1 bag with OFC outlet port flange fasteners including 4 set of hex socket M16 x 70 A2-70, nut, spring & plain washers.
1 bag with compressor discharge port fasteners including 4 pcs hex socket M10 x 40 A4-80, spring & plain washers.
1 bag with OFC staging flange fasteners including 4 pcs M10 x 35 A4-80, M10 spring & plain washers.

1 pc OFC staging port 1 3/8 in solder flange.
1 pc OFC staging port blind.
2 pcs O-rings for OFC elbow staging port.

Additional check valve springs
1 pc Yellow spring, for 45° -> 89° orientation.
1 pc Red spring, for 90° -> 134° orientation.

1 pc O-ring lubrication (2g)

NOTE: (1) Remove dirt from sealing faces. (2) Apply provided O-ring lube to all provided O-rings.

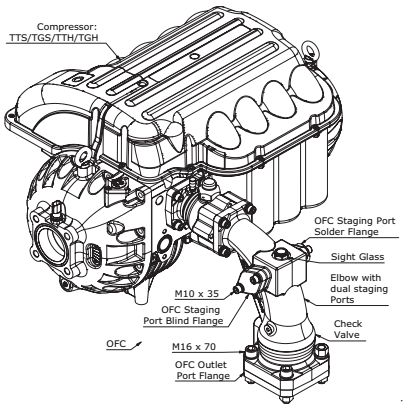
Install OFC directly to Compressor Interface

Finger-tighten all compressor discharge port fasteners and then apply torque as specified.

NOTE: Refer to OFC elbow orientation options - > Next page

Install Staging port:
Install the staging port blind flange, O-ring and fasteners to block the port not in use.

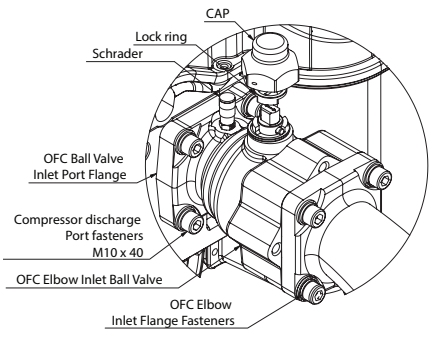
Bolt Torque requirements: Always cross tighten and avoid misalignment.
M10 Torque: 33 Nm ± 4 Nm
Compressor discharge port, OFC elbow inlet port & staging port fasteners
cap of ball valve
M16 Torque: 110 Nm ± 10 Nm -> OFC elbow outlet port flange fasteners



Change OFC Elbow Orientation
OFC elbow clocking is accomplished by removing the OFC elbow inlet flange fasteners and rotating ball valve housing without retracting the ball valve assembly away from the elbow.

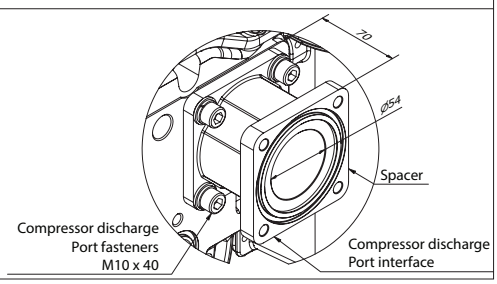
NOTE:
The Schrader valve is only externally tight when the cap is installed or when pressure switch/equipment is connected.

Isolate Compressor
Always install the lock ring and cap to its original position after opening / closing the ball valve. Tighten cap with specified torque.



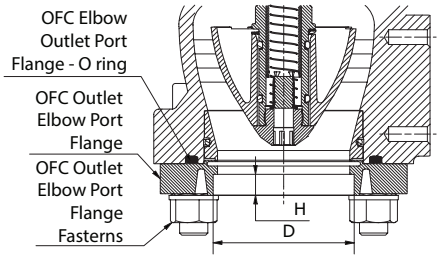
Install spacer to compressor interface

Finger-tighten all compressor discharge port fasteners and then apply torque as specified.

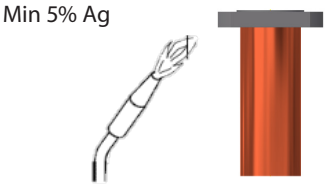


Info for UK customers only: Danfoss Ltd., 22 Wycombe End, HP9 1NB, GB

Correct installation of check valve & OFC outlet port flange



Note:
Do not weld or braze while OFC outlet port flange is attached to elbow.

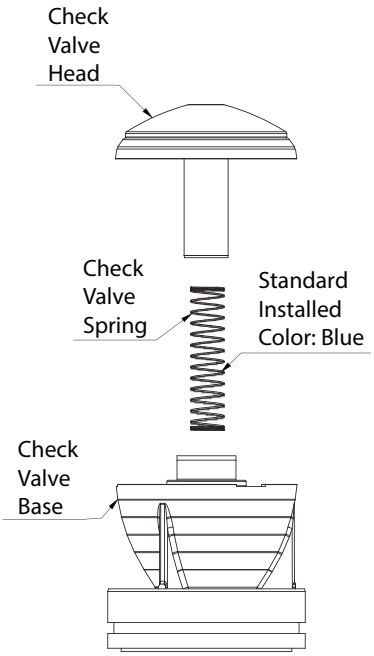


Note:
The external surface of the OFC outlet port flange must be guarded against corrosion with a suitable protective coating after installation and assembly.

Change check valve spring:

1. Remove check valve base from elbow
2. Remove check valve head
3. Remove spring and replace with correct color based on intended orientation
4. Reinstall the check valve head and base to its original position
5. Install OFC elbow outlet flange, O-ring and fasteners.
6. Tighten OFC elbow outlet port flange fasteners with specified torque.

Note: Use silicone lubricant spray at O-ring if needed



OFC Check valve spring selection (Blue, Yellow or Red) for different orientations of OFC