

Filter drier, shell with cross gasket

Type DCR C

023R9847

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Refrigerants:

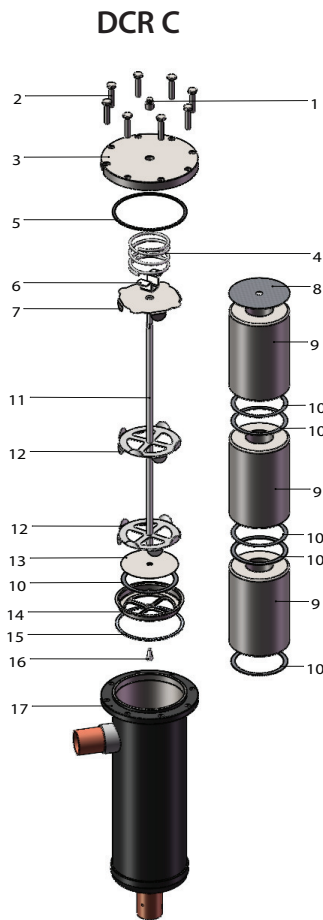
DCR C A1, A2L and A3

R1234ze(E), R125, R134a, R22/R407C, R32, R404A, R407A, R407F, R410A, R438A, R448A, R448A, R449A, R449B, R450A, R452A, R507A, R513A, R452B, R1234yf, R457A, R516A, R457A, R444B, R290, R454A, R454B, R454C, R455A, R1234zd, R600a, R601, R601a, R1336mzz(Z), R515B, R1233zd, R245fa

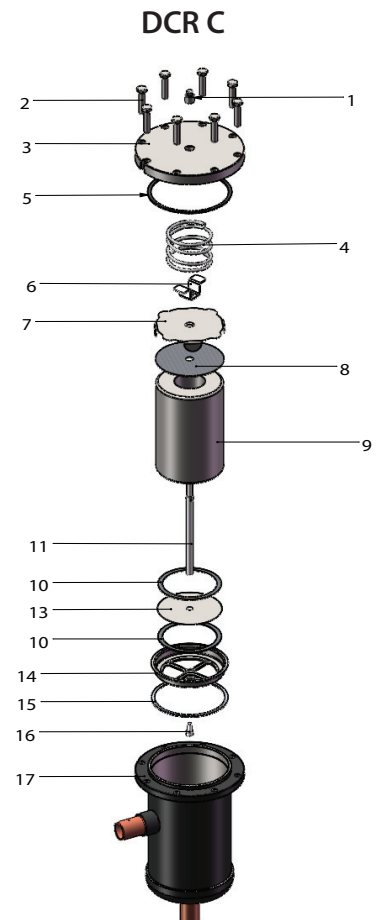
For other refrigerants, please contact Danfoss representative.

Media Temperature: -40 -120 °C / -40 -248 °F

Design

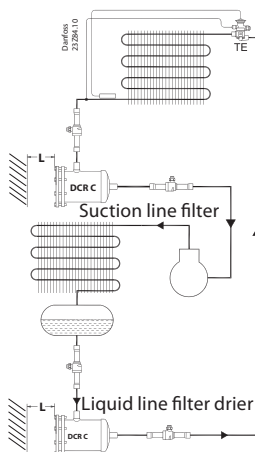


Pos.	Description
1	Plug for cover
2	Bolts for cover
3	Top cover
4	Spring
5	Top cover gasket
6	Wing nut
7	Top plate
8	Core felt gasket
9	Solid core
10	Core felt gasket
11	Distance rod
12	Core plate
13	Wire Mesh
14	Core holder
15	Gasket
16	Hex socket head screw
17	Shell



Inner taper of core always facing towards filter outlet. This apply for all DCR C Families.

Installation

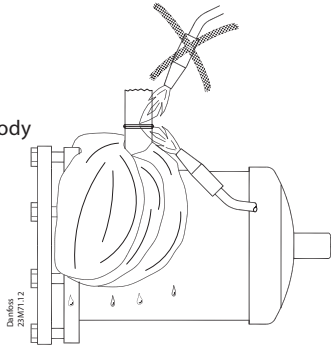


Type	L minimum		Maximum working pressure PS / MWP [bar] / [psig]
	[mm]	[in]	
DCR 048 C	170	7	50 / 725
DCR 096 C	310	13	50 / 725
DCR 144 C	450	18	50 / 725
DCR 192 C	590	24	50 / 725

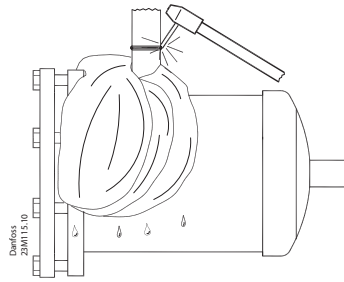
Brazing



Keep flames away from body



Welding



Customer best practice will still be needed:

- Use wet wrap when installing.
- Braze the joints.
- Let them cool down.
- Clean the brazing /welding area after the installation (remove remaining flux with a brush).
- This is an important operation and needs to be done with great care to remove all remaining flux.
- Paint / Anti-corrosive needs to cover all open steel parts, areas where the black original paint has been burnt due to brazing and at least 3 cm approx of the copper.
- Paint the joints twice.

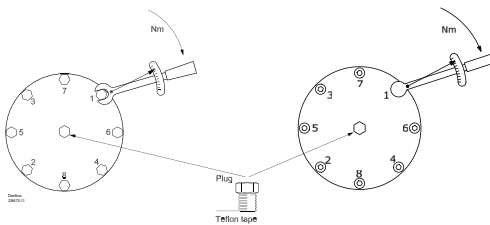
Connector type	Brazing material
Copper	Min. 5 % Ag
Steel	Silver-flo 55 + Easy-flow flux

How to tighten the bolts

DCRC

Ratcheting wrench of 13mm

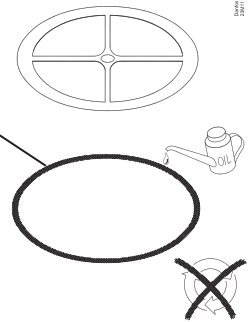
Allen wrench of 6mm



Do not install gasket before soldering.

Gasket

Note: Confirm correct top cover Gasket is selected.
There are 2 gaskets:
- DCR C



Recommendation:

Apply a small amount of oil to the gasket before assembly.
Preferably synthetic POE or PVE oil, although any general-purpose oil can be used.

Note: Replace the gasket every time the filter is opened

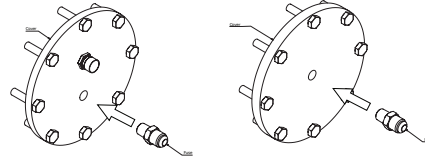
	DCR M8-1.5 x 35mm A2-70 Hex head
Step 1	Fingertighten all bolts
Step 2	3 Nm / 2.21 ft lb
Step 3	10 Nm / 7.37 ft lb
Step 4	20 Nm / 14.75 ft lb
Step 5	28 Nm / 20.65 ft lb

Optional Fuse and/or Plug, recommended tightening torques:

Fuse: 1/4" NPT - 3/8" Flare: 20 Nm / 14.75 ft-lb applying 2 to 3 wraps of teflon tape.

Plug: 1/4" NPT: 50 Nm / 36.87 ft-lb applying 2 to 3 wraps of teflon tape.

Reference



The torque values mentioned only apply to bolts supplied by Danfoss.

* Each step must be applied following the sequence of the image.

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