

ENGINEERING
TOMORROW



The new ICF 15-4 valve station: **It's small, it's modular, it's flexible**

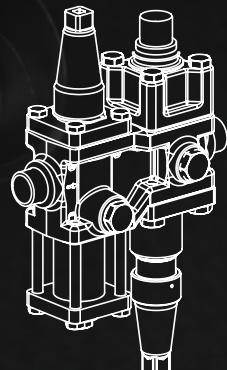
Control your installation and servicing costs – and be ready for all future refrigerants

One compact
platform –
6
different valve
configurations

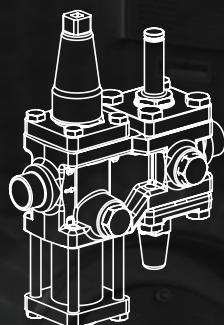
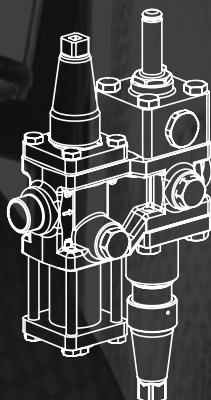


Full modularity in one small valve platform

ICM 20 + ICFS 20



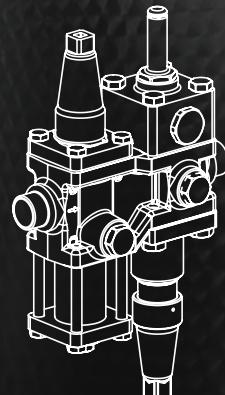
ICFE 20H + ICFS 20



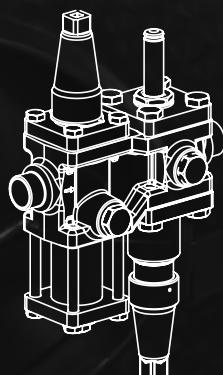
ICFE 20 + ICFO 20



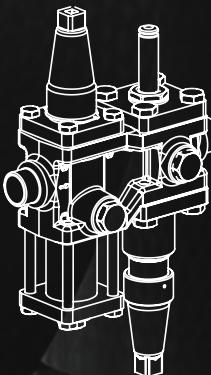
ICFE 20H + ICFR B 20



ICFA 20 + ICFS 20



Valve Station



ICFA 20 + ICFN 20

Extending the **ICF Flexline™** portfolio

The new, smaller ICF 15-4 version joins the well-known ICF Flexline™ valve station range, which has more than 25,000 installations worldwide. The ICF 15-4 is available with connection sizes of DIN 15 and DIN 20 and with different connection types.



Direct welded



With built-in stop valve and strainer and two flexible valve ports, the ICF 15-4 gives you the option of six different configurations, all in one easy-to-install valve station and without the drawbacks of increased pressure drop.

One valve station for all refrigeration systems

The ICF 15-4 valve station is designed for both low and high pressure refrigerants and can be used in liquid lines, compressor injection lines and hot gas lines. It is ideal for use with CO₂, NH₃ and HFC/HCFC refrigerants. It allows for a high working pressure of 52 bar as well as high temperatures.

Installation made easy

With its welded connections and compact, space saving dimensions, the ICF 15-4 valve station is easy and safe to install and start up. The modular, no-flange concept means that servicing is fast and upgrades or replacements are really simple to handle, decreasing the overall lifetime cost of your installation.

Shared spare parts program

Danfoss has engineered the ICF 15-4 to share spare parts with the rest of the Flexline™ program. For you this means direct and measurable benefits in the amount of spare parts you need to stock – and fewer parts mean better economy.

Upgrade **EVRA/FA** to ICF



Retrofit

The valve station is also available with flanged connections for fast and simple retrofit of solenoid valves and strainers (EVRA/FA). The retrofit models are available in ICF 15 EVRAT and ICF 20 EVRAT.

Great flexibility with
MODULAR
valve concept

Product overview

The ICF 15-4 is always fitted with a stop valve and a strainer module. The two remaining module ports allow for a total of six different configurations, depending on your requirements:

ICF 15-4

Refrigerants:

Applicable to HCFC, non-flammable HFC, NH₃ and CO₂

Max Working Pressure (MWP):

52 bar (754 psi)

Temperature range:

-60/+120°C (-76/+248°F)

Code no.	Type description	Connection
027L4532	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	15 D (1/2 in)
027L4520	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	20 D (3/4 in)
027L4521	Stop valve + strainer + ICFE 20H solenoid valve + ICFS 20 stop valve	20 D (3/4 in)
027L4522	Stop valve + strainer + ICFA 20 electronic exp. valve + ICFS 20 stop valve	20 D (3/4 in)
027L4523	Stop valve + strainer + ICFA 20 electronic exp. valve + ICFN 20 stop/check valve	20 D (3/4 in)
027L4524	Stop valve + strainer + ICFE 20H solenoid valve + ICFR B 20 manual regulating valve	20 D (3/4 in)
027L4525	Stop valve + strainer + ICM 20 motor valve + ICFS 20 stop valve	20 D (3/4 in)
027L4537	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	22 D solder (7/8 in)
027L4526	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	15 SOC (1/2 in)
027L4527	Stop valve + strainer + ICFE 20H solenoid valve + ICFS 20 stop valve	15 SOC (1/2 in)
027L4528	Stop valve + strainer + ICFA 20 electronic exp. valve + ICFS 20 stop valve	15 SOC (1/2 in)
027L4529	Stop valve + strainer + ICFA 20 electronic exp. valve + ICFN 20 stop/check valve	15 SOC (1/2 in)
027L4530	Stop valve + strainer + ICFE 20H solenoid valve + ICFR B 20 manual regulating valve	15 SOC (1/2 in)
027L4531	Stop valve + strainer + ICM 20 motor valve + ICFS 20 stop valve	15 SOC (1/2 in)
027L4533	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	15 A (1/2 in)
027L4535	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	20 A (3/4 in)
027L4536	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	22 A solder (7/8 in)
027L4534	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	15 NPT (1/2 in)

ICF EVRAT

Refrigerants:

Applicable to HCFC, non-flammable HFC, NH₃ and CO₂

Max Working Pressure (MWP):

42 bar (609 psi)

Temperature range:

-40/+105°C (-40/+221°F)

Code no.	Type description	Connection
027L4517	Strainer + ICFE 20 solenoid valve	15 Flanges*
027L4518	Strainer + ICFE 20 solenoid valve	20 Flanges*
027L4519	Strainer + ICFE 20H solenoid valve	20 Flanges*

*) For more details on connections, please see the table "flange set" in the technical literature.

More info?

Do you want to experience the benefits of the new ICFV 15-4 valve station? Contact your local wholesaler or your local Danfoss representative for more details. For any technical queries please go to: www.danfoss.com/icf or contact your local Danfoss sales office.

ICF 15-4:

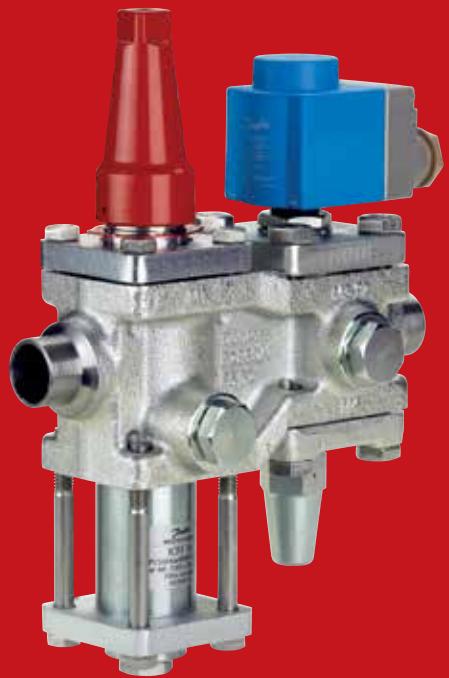
All good things come in small sizes

It's small, it's modular, and it gives you all the same benefits as the larger ICF Flexline™ valve stations:

Freedom in the design and layout of your installation, less space and therefore less need for insulation, and the possibility of using high pressure refrigerants.

Your direct **benefits:**

- Applicable for industrial refrigeration installations with a maximum working pressure of 52 bar
- Suitable for CO₂, NH₃ and HFC/HCFC refrigerants
- Compact size means less need of insulation and much easier project planning or retrofitting
- Full control of installation costs and cash flow due to lower number of individual parts and joints
- Direct weld means less need of servicing and retightening
- Simpler, faster project planning
- Also available with flanges for EVRA retrofitting (maximum working pressure of 42 bar)
- Proven Danfoss quality and reliability
- Shared parts with ICF program



Danfoss Industrial Refrigeration

A world of expertise at the click of a button

Turn to Danfoss if you want to combine quality components with expert knowhow and support. Try out these free tools, designed to make your work much easier.



Coolselector® 2 – New calculation software for Industrial Refrigeration

Coolselector®2 is your brand new Danfoss calculation and selection software designed to make selection processes for all industrial refrigeration projects easier and less time consuming. Coolselector® 2 is a unique calculation and support tool for contractors and system designers, offering complete pressure drop calculations, analysis of pipe and valve design and the ability to generate performance reports. It replaces the well-known DIRcalc™ software and offers several new functionalities.



Danfoss IR app

The free IR App gives you a spare parts tool, which makes it easy for you to find the spare part number for a given Danfoss industrial refrigeration valve. It also presents all the products and benefits of the SVL Flexline™ range – with a fun game thrown in as well.



Download 3D CAD symbols

From our online product catalogue on our website, you can download 3D CAD symbols and illustrations to help you when designing refrigeration plants.



IR application tool

With this interactive PowerPoint slideshow, you can explore all the details of a two-stage ammonia plant. You will find detailed cut-away drawings and information on the valves in the installation along with links to videos, literature and product animations.



Application handbook

The Application Handbook is designed to help you every step of the way when working with industrial refrigeration systems. Among many other things, it contains examples of how to select control methods for different refrigeration systems, their design and which components to choose.

Visit www.danfoss.com/IR-tools and find all the tools you need.