

# 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 –

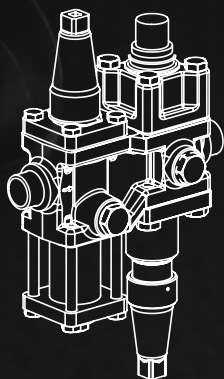
**6**

different valve  
configurations

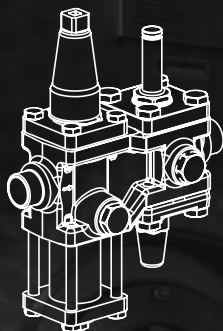
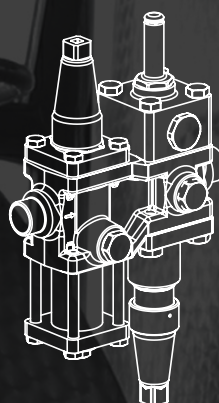


# Full modularity in one small valve platform

ICM 20 + ICFS 20



ICFE 20H + ICFS 20

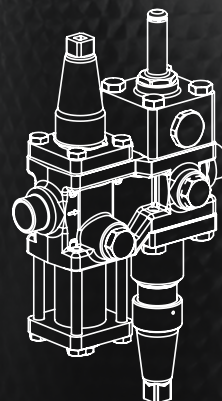


ICFE 20 + ICFO 20

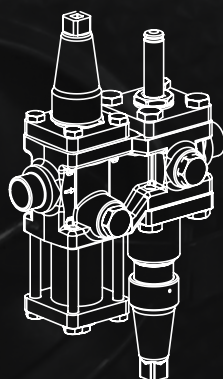


Valve Station

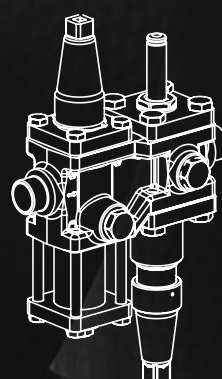
ICFE 20H + ICFR B 20



ICFA 20 + ICFS 20

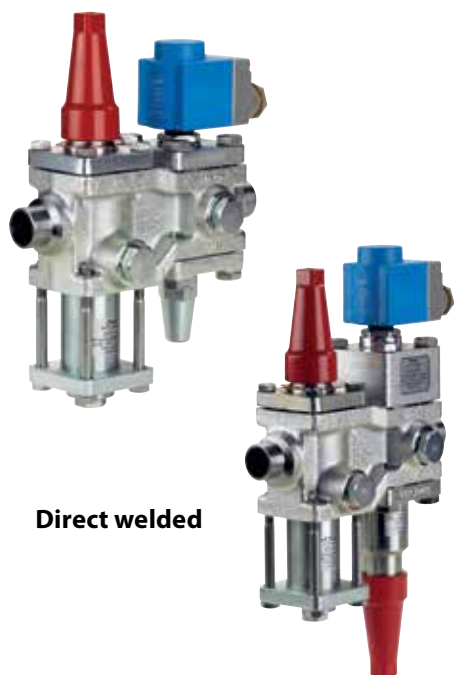


ICFA 20 + ICFN 20



# 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 CO<sub>2</sub>, NH<sub>3</sub> 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, NH<sub>3</sub> and CO<sub>2</sub>  
**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 (½ in)
027L4520	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	20 D (¾ in)
027L4521	Stop valve + strainer + ICFE 20H solenoid valve + ICFS 20 stop valve	20 D (¾ in)
027L4522	Stop valve + strainer + ICFA 20 electronic exp. valve + ICFS 20 stop valve	20 D (¾ in)
027L4523	Stop valve + strainer + ICFA 20 electronic exp. valve + ICFN 20 stop/check valve	20 D (¾ in)
027L4524	Stop valve + strainer + ICFE 20H solenoid valve + ICFR B 20 manual regulating valve	20 D (¾ in)
027L4525	Stop valve + strainer + ICM 20 motor valve + ICFS 20 stop valve	20 D (¾ in)
027L4537	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	22 D solder (⅞ in)
027L4526	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	15 SOC (½ in)
027L4527	Stop valve + strainer + ICFE 20H solenoid valve + ICFS 20 stop valve	15 SOC (½ in)
027L4528	Stop valve + strainer + ICFA 20 electronic exp. valve + ICFS 20 stop valve	15 SOC (½ in)
027L4529	Stop valve + strainer + ICFA 20 electronic exp. valve + ICFN 20 stop/check valve	15 SOC (½ in)
027L4530	Stop valve + strainer + ICFE 20H solenoid valve + ICFR B 20 manual regulating valve	15 SOC (½ in)
027L4531	Stop valve + strainer + ICM 20 motor valve + ICFS 20 stop valve	15 SOC (½ in)
027L4533	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	15 A (½ in)
027L4535	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	20 A (¾ in)
027L4536	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	22 A solder (⅞ in)
027L4534	Stop valve + strainer + ICFE 20 solenoid valve + ICFO 20 manual valve	15 NPT (½ in)

## ICF EVRAT

**Refrigerants:** Applicable to HCFC, non-flammable HFC, NH<sub>3</sub> and CO<sub>2</sub>  
**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](http://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 CO<sub>2</sub>, NH<sub>3</sub> 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

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### 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.



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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.

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