

# Goodbye, PM. Hello, ICV

## The control valve for all your future needs

Since 2004 Danfoss has been selling two parallel product platforms: The PM valves and the ICV Flexline™ valves. The ICV platform consists of ICS (pilot), ICLX (two-step) and ICM (motor) operated valves and fully substitutes the old PM/PMLX valves. The ICV Flexline™ platform is just superior in every sense.

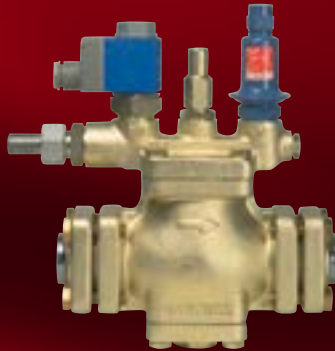


# 90,000

ICS valves sold since the introduction of the ICS valves from the Flexline™ range in 2004.

# We're phasing out the old PM/PMLX valves

This is why:



For many years, Danfoss has been selling two parallel products: The PM/PMLX valves and the ICS/ICLX valves from the Flexline™ range. In 2011 we announced the end of production and sales of the PM/PMLX valves by the end of 2013.

That time has come. Technological development has made the PM/PMLX valves obsolete and the production and sales will end this year – and you will like it!

You will experience nothing but benefits, because the ICS/ICLX valves are:

- **Smaller**
- **Lighter**
- **More flexible**
- **Easier to service**
- **Simpler in construction**
- **More cost-effective**
- **Better value**

than the PM/PMLX valves.

And with the introduction of ICLX valves, the ICS/ICLX range now covers every use once covered by the PM/PMLX valves.

In every sense.

Only much better.

# The ICS/ICLX valves:



# Modular · Smarter · Future proof

## Goodbye, PM/PMLX, and thank you

The era of the PM/PMLX valves is over. The ICS/ICLX valves which replace them are your only real choice when it comes to modern high pressure systems design. With an operating pressure of 52 bar instead of the 26 bar working pressure in the PM/PMLX valves, the trusty old PM/PMLX valves are now seriously out-performed. So after more than 40 years of service, it's time to say goodbye.

Since 2004, more than 90,000 ICS valves have been sold and are in service across the world. So the ICS is hardly new or untested. On the contrary, it is now the market leader in most new installations.

And you don't need to worry: If you have a range of PM or PMLX valves in your installation, just let them be. They'll do the job. You can of course still buy spare parts and service these as you have been used to. When they need replacement, the ICS and ICLX valves deliver the same functionality. They are also smaller, smarter and better value.

## A modular platform

The ICV valve body allows for the construction of ICM motorized valves, ICS control valve and for ICLX solenoid valves with high differential pressure.

In contrast to the old PM/PMLX valves, the ICS/ICLX valves are fitted with V-ports which give you much smoother pressure control.

In fact, the change from the PM/PMLX valves to the ICS/ICLX valves means nothing but benefits for you:

- 52 bar working and differential pressure
- Lower energy consumption
- Lighter valves (up to 60 % lighter than the PM/PMLX valves), which means cheaper shipping and a lighter pipe construction
- Smaller valves (up to 50 % smaller than the PM/PMLX valves)
- Modular construction
- Made from low temperature steel instead of cast iron
- No flanges, only welded connections
- Ready for future refrigerants



Function module with cone-shaped V-ports for optimum pressure control



Direct welding connection



One house for all functions

## Go online and learn more!



All the documentation you'll ever need - online.

On the Danfoss website, you can find fully integratable CAD models of the ICV valve body and the ICM, ICS and ICLX valves.

You can also find valuable user guides online to assist you in project planning and in servicing of the valves.



# 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.



### DIRCalc™ calculation software

Select the right valves for the job with DIRCalc™. This software will pick the right valves for your job, based on your input and advanced calculations made by Danfoss experts. Download DIRCalc™ at [Danfoss.com/DIRCalc](http://Danfoss.com/DIRCalc).



### 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 [Danfoss.com/IR](http://Danfoss.com/IR) and find all the tools you need.