



VALVES & REGULATORS

Danfoss ICLX Series

BRAND

Danfoss

SKU

RC_PROD_002

CATEGORY

Valves & Regulators



OVERVIEW

The Danfoss ICLX is a 2-step servo-operated main valve with pilot solenoid valves, part of the ICV Flexline™ platform. ICLX valves are used in suction lines for opening against high differential pressure — for instance after hot gas defrost in large industrial refrigeration systems running ammonia (R717), fluorinated refrigerants, or CO₂ (R744). The valve opens in two steps: step one opens to approximately 10% of capacity when the pilot solenoid valves are activated; step two opens automatically once the pressure differential across the valve reaches approximately 1 bar. This staged opening prevents pressure shock in the suction line. The standard ICV Flexline™ housing makes the ICLX a plug-and-play solution with easy switching between valve functions (ICS, ICM, ICLX share the housing platform).

KEY FEATURES

2-step differential-pressure opening
ideal for post-defrost suction line duty

ICV Flexline™ modular platform
shared housings across ICS / ICM / ICLX functions

Normally closed design
with manual opening device for service

Broad refrigerant compatibility
ammonia, fluorinated refrigerants, and CO₂; closed-circuit use

SPECIFICATIONS

PARAMETER	VALUE
VALVE TYPE	2-step servo-operated main valve with EVM pilot solenoid valves
MAX. WORKING PRESSURE	52 bar g (754 psig)
MEDIA TEMPERATURE RANGE	-60 to +120 °C (-76 to +248 °F)