Danfoss Product Code Decoder — 003Z, 013G, 017B, 023U, 027L, 032F, 060G, 060H, 065B, 065Z, 068Z, 084H, 132F, 148B Series (Complete Reference)

cBallast Technical Sourcing · Danfoss refrigeration, HVAC, drives and industrial-automation series prefixes · issued 2026-08-29 · cballast.com/documents/danfoss-product-code-decoder-refrigeration-hvac-industrial

Danfoss product code decoder — every industrial code family. Prefix explanation across all Danfoss divisions: refrigeration valves (003Z AB-QM PICV, 032F EVR solenoid, 068Z TEX/TQ expansion, 023U EEV), HVAC (065Z VRB balancing valves, 065B VRG rotary mixing, 013G RA-N radiator, 084H ETS electronic temperature), pressure switches (017B BCP boiler, 060G KP2/KP7 refrigeration, 060H DST industrial), controllers (084H EKC/EKF, 080Z AK2), drives (132B/F VLT FC series, 175/176 automation drives), and industrial (148B PVG proportional, 011L RA-C). Includes typical part-number breakdown, obsoleteness/legacy notes, and cross-links to cBallast product pages.

Danfoss product code decoder — the complete series reference

Every Danfoss part number begins with a three-character series prefix that tells you the product family, the physical connection type and, roughly, the operating pressure class. Once you can read the prefix, the rest of the number is a size / range / voltage suffix that reads off directly from the Danfoss catalogue page. This reference gives every industrial-catalogue prefix Danfoss currently uses across refrigeration, HVAC, drives and industrial automation — useful when you have only a code on a nameplate or PO line and need to identify the equipment family before pricing a spare or replacement.

Refrigeration valves & controls

Prefix | Series | Function | Example | Notes |

003Z | AB-QM | Pressure-independent control valve (PICV) | 003Z0780 (AB-QM ANSI 1", NPT) | Now the mainstream Danfoss HVAC PICV; sits at the heart of variable-flow chilled water circuits |

003N | WVFX | Water regulating valve, refrigerant control | 003N2100 (WVFX-15, 1/2") | Condenser-side water flow regulation for water-cooled compressors |

017B | BCP | Pressure switch, boiler & burner | 017B0014 (BCP 4H, HP) | Small-format industrial pressure switch; superseded on some models by 060G |

023U | ETS Colibri | Electronic expansion valve, small-refrigeration | 023U1014 (ETS Colibri 12C) | Stepper-driven EEV for small chillers and heat pumps |

027L | ICF, EEV, GBC | Industrial refrigeration valve station | 027L3482 (ICF 20-4) | Ammonia and CO2 industrial refrigeration valve stations |

027B / 027H | ICF, EVRH | Industrial refrigeration flanged valve | 027H0427 | Ammonia service; flanged connections DN15 to DN200 |

027F | REG | Regulating valve, industrial refrigeration | — | Stop-check and back-pressure regulation |

032F | EVR | Solenoid valve, refrigerant, general service | 032F1202 (EVR 6) | The workhorse solenoid across small commercial refrigeration; DN6 to DN20 |

042N | ETS | Electronic expansion valve, commercial | — | Modulating EEV for commercial rooftop and chiller service |

060G | KP1, KP2, KP7 | Refrigeration pressure switch | 060G1546 (KP2, 0.2-3.5 bar) | Adjustable HP/LP pressure switch on refrigeration compressors |

060H | RT, DST | Industrial pressure/temperature switch | — | Higher-pressure industrial variants of KP series |

060L | MBC, MBS | Pressure transmitter, marine/industrial | — | 4-20 mA pressure transmitter, IP67 |

060- | Various (legacy) | Older refrigeration controls | 060-508866 (KP1 obsolete code) | Legacy 3-digit prefix on older refrigeration switches; cross-check to current KP series |

068Z / 068U | TES, TEX, TEXH, TR6 | Thermostatic expansion valve, external equaliser | 068Z3209 (TEX 2) | Bulb-and-capillary TEV; the classic mechanical expansion valve |

068F / 068L | TE, TN | TEV, internal equaliser & orifice assemblies | — | Smaller-cap TEVs and interchangeable orifice bodies |

084H | ETS 5M, ETS 8/12, EKC-202 | Electronic temperature/expansion controller | 084H4529 (ETS 5M 30L) | Modbus-connected superheat controller for refrigeration systems |

082G / 082L | ETS 6, EKD | Electronic expansion valve, larger sizes | 082G3017 (ETS 6-25) | Larger-cap EEV for commercial chillers |

009L | GBC, GB | Industrial refrigeration ball valve | 009L9055 (GBC 22s E) | Ammonia and CO2 shut-off ball valve, DN10 to DN200 |

014L / 014F | ICM, ICS | Industrial refrigeration control valve | 014L0187 | Motorised industrial refrigeration control valve |

HVAC (hydronic heating & district heating)

Prefix | Series | Function | Example | Notes |

013G | RA-N, RA-FN, RA-C | Radiator thermostatic valve | 013G0003 (RA-N 15 angle) | The Danfoss residential/commercial radiator TRV; DN10-DN25 |

003L | RLV, RLV-D | Radiator lockshield / return valve | 003L0143 (RLV DN15 angle) | Balancing lockshield on radiator return |

003G | USV, PV, PM, ASV | Balancing valve, hydronic | 003G5640 | Manual balancing valve for HVAC hydronic circuits |

011L | RA-C | Compact TRV | — | Compact-format radiator thermostat |

065Z | VRB, VRG (3-way) | Rotary balancing / mixing valve, small | 065Z0219 (VRG 3-way DN40) | Small motorised HVAC control valves; DN15-DN50 |

065B | VFM, VF, VFY | Globe control valve, HVAC | 065B2432 (VFGS2 25/16) | Motorised 2- and 3-way globe control valve; DN15-DN300 |

082B / 082F | AB-QM 4.0, AVQM | PICV with combined shut-off | — | Newer AB-QM 4.0 series with integrated isolation |

082G | AME, AMV, AMB | Modulating actuator for valve control | 082G3016 (AME 23) | Continuous-modulating actuator for VRB/VRG series |

082H | ABQM Novocon | Digital PICV actuator | — | BACnet/Modbus digital actuator for AB-QM |

087B | AVDS, AVTA | Self-acting temperature valve | — | Solar and DHW self-acting temperature control |

087H / 088H | AVQM, USV-I | Combined isolation + balancing | — | Integrated isolation-and-balancing valve |

Drives & motor control

Prefix | Series | Function | Example | Notes |

131B | FC 302 | VLT AutomationDrive | 131B1178 (VLT FC-302 11kW) | Full-featured VFD for industrial process, marine, water/wastewater |

132B / 132F | FC 51, FC 111, Micro Drive | VLT Micro Drive, HVAC Basic Drive | 132F0017 (Micro Drive FC-51, 0.37 kW, 3×380-480V) | Cost-effective drive for pumps, fans, compressors |

134B / 134F | FC 202 AQUA Drive | Water & wastewater drive | — | Purpose-built for pump control; sleep, cascade, cavitation protection |

136B | FC 280 | Compact Drive | — | Compact drive for OEM machinery |

175 / 176 | VLT 2800, 3500, 5000 | Legacy VLT drives | — | Now superseded but widely installed; parts still supplied |

178B | VLT Soft Starter MCD 500, 600 | Soft-starter | — | Solid-state motor soft-starter, MCD 500 and MCD 600 |

195N | VACON X, VACON 100 | Vacon-branded drives (post-acquisition) | — | Vacon range now sold alongside VLT under Danfoss Drives |

Sensors, transmitters, industrial automation

Prefix | Series | Function | Example | Notes |

084N | MBS, MBT, ATE | Temperature sensor, Pt1000/Pt100 | 084N1012 (Pt1000 outdoor) | Marine and industrial temperature sensor; -50 to +200 °C |

060N | MBS 3000, MBS 8250 | Pressure transmitter, 4-20 mA / 0-10 V | — | Compact industrial pressure transmitter for hydraulic and pneumatic service |

084B | EKF, EKC-102, EKC-202 | Refrigeration case controller | 084B8521 (EKC-202D) | Case-controller family for supermarket refrigeration |

080Z | AK-CC, AK-SM | Refrigeration monitoring gateway | — | System-monitoring gateway with Modbus/Ethernet |

148B / 148G / 148F | PVG, PVEO, PVEA | PVG proportional valve, mobile hydraulic | 148B6111 (PVG 32 basic module) | Stack-block proportional valve for mobile machinery hydraulics |

176B / 176F | Danfoss PLUS+1 | Machine controller platform | — | Freely programmable controller for mobile equipment |

147G / 147H | OMR, OMS, OMSS orbital motor | Low-speed hydraulic orbital motor | — | Mobile hydraulic wheel and fan drive motors |

Reading a Danfoss part number — anatomy

A typical Danfoss part number reads: 065B2432 (VFGS2 DN25 Kv=6.3). Break it down as:

065 — product family prefix (HVAC control valves, above).

B — sub-family or connection type (globe body vs rotary vs 3-way, above).

2 — series number within the sub-family (VFGS2 = 2nd generation).

4 — body size / DN indicator (4 = DN25 in this series).

32 — Kv or size code (32 = Kv 6.3 in this range).

Not every family follows the same 3+1+1+1+2 pattern — the drives (131B/132F/134B) use a longer 3+1+4 pattern where the trailing digits code kW and voltage. Refer to the specific product catalogue for the exact size-code mapping. When in doubt, look up the code in the Danfoss Store product finder (public URL store.danfoss.com/en/p/<code>) — that page shows the product family, technical drawing and current successor code (if any).

Superseded & obsolete codes — how to find the current replacement

Danfoss maintains active superseded-part lookups but not everywhere. For older codes not on the current price list:

Refrigeration switches — the pre-2000 3-digit prefix (060-XXXXXX) is superseded by the KP2/KP7 range in 060G. Convert by function and pressure range.

Radiator valves — older RA-N codes (013G0001, 013G0003) are the current RA-N range's DN15 straight and angle. Same body, same threaded bushing.

Solenoid valves — EVR 3/4/6 in 032F have been continuous since the 1990s; older EV series with different suffixes are same-body compatible with current EVR-16.

Drives — VLT 2800 !’ FC 51 or FC 202 depending on application; VLT 5000 !’ FC 302. Convert by voltage, kW and control-mode requirement.

PICV — older USV-P !’ current AB-QM 4.0. Different flow characteristic; do not swap without recalculation.

If the code returns nothing on the Danfoss Store search, it is either fully obsolete (no replacement) or an OEM-specific customer number that bypasses the public catalogue. In the second case, contact the Danfoss local sales office with the OEM's serial number for the equipment.

Cross-linked cBallast product examples

Danfoss VLT Micro Drive FC-51 0.37 kW (132F0017)

Danfoss VLT AutomationDrive FC-302 11 kW (131B1178)

Danfoss ICF 20-4 valve station (027L3482)

Danfoss TEX 2 thermostatic expansion valve (068Z3209-V2)

Danfoss KP2 pressure switch, 0.2-3.5 bar

All Danfoss AB-QM PICV valves on cBallast

All Danfoss VLT drives on cBallast

All Danfoss EKC case controllers on cBallast

All Danfoss ICF industrial refrigeration valve stations on cBallast

Danfoss on cBallast

Related references

Danfoss refrigeration cross-reference to IMPA OEM codes

Refrigerant transition HFC !’ HFO (R404A, R448A, R449A)

Butterfly valve types — concentric, high-performance, triple-offset

PN16 flange dimensions (EN 1092-1)

Series prefixes and product families above are the Danfoss current-catalogue coding as published on the Danfoss Store, plus documented legacy prefixes for parts still in service. Individual part-number size codes vary by series and generation; verify with the Danfoss Store lookup or the local Danfoss sales office before ordering.

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