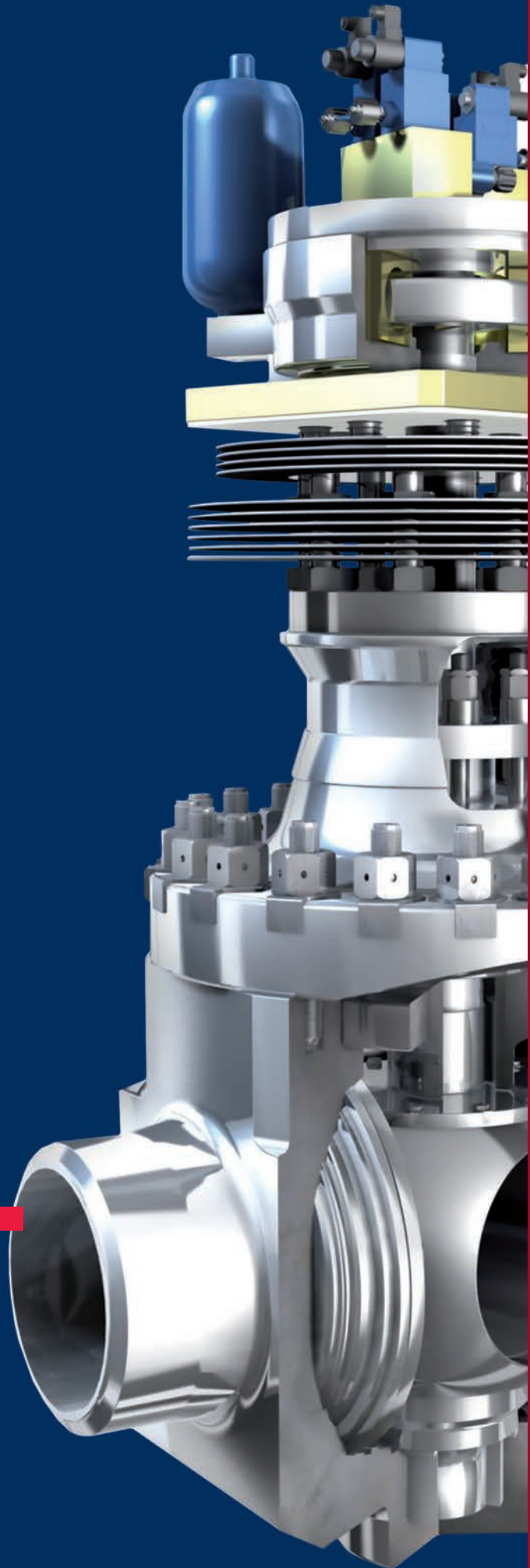


NUCLEAR VALVES



DESIGN, MANUFACTURING, ASSEMBLY AND TESTING

ISOLATION SYSTEM

TECHNOLOGY	RANGE	MATERIAL	MAIN FEATURES	OPTIONS
BALL AND PLUG	ND 8 (1/4") to ND 400 (16") Class 150 to class 2500 Max temp = 210°C	> Carbon steel > Stainless steel > Alloy steel > High Alloy duplex > Nickel alloy > Titanium alloy Other on request..	> Top Entry, Side Entry or Cell Type > Trunnion or floating > Low operating torque and seat wear compensation > Low and fast maintenance > Cobalt free > No retention area	> Quick interchangeable cartridge > Anti-retention sleeve > Fire safe > Multi-way valve > Limit switch > Padlocking hand-wheel > All actuation types
BALL VALVE METAL SEATED	ND 8 (1/4") to ND 750 (30") Class 150 to class 2500	> Carbon steel > Stainless steel > Alloy steel > High Alloy duplex > Nickel alloy > Titanium alloy Other on request..	> Top Entry, Side Entry or Cell Type > Trunnion or floating > Low operating torque and seat wear compensation > Low and fast maintenance > Cobalt free > Low retention area	> Pressure balancing system by internal or external bypass > Recoil system of seat > Anti-retention sleeve > Fire safe > Multi-way valve > Limit switch > Padlocking hand-wheel > All actuation types
GLOBE VALVE	ND 8 (1/4") to ND 400 (16") Class 150 to class 2500	> Carbon steel > Stainless steel > Alloy steel > High Alloy duplex > Nickel alloy > Titanium alloy Other on request..	> Non rotating stem and non rotating swivel plug > Screwed / screwed welded / bolted / pressure seal bonnet > Weldable Lips > Progressive Closing by elastic system > Easy and fast maintenance > High performance packing gland or bellows valve > Cobalt free	> Easy and fast maintenance with cage > Balancing pilot plug > Bellows leak detector > Position limit switches > Padlocking hand-wheel > All actuation types > Angle Body type and Y body type > Z Body type

CONTROL SYSTEM

TIPV	ND 80 (3") to ND 2400 (96") Class 150 to class 2500	> Carbon steel > Stainless steel > Alloy steel > High Alloy duplex > Nickel alloy > Titanium alloy Other on request..	> Body Types: Wafer/ Lug / Double flanged / Butt Welding > Safe quick closing > Low pressure drop design > Mechanical vibration proof > Control of fluid while avoiding cavitation > Low noise and no vibration	> Steam injection system > Anti-cavitation device > Low noise device > Position limit switches > All actuation types
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SAFETY OR PROTECTION SYSTEM

CHECK VALVE	ND 8 (1/4") to ND 600 (24") Class 150 to class 2500	> Carbon steel > Stainless steel > Alloy steel > High Alloy duplex > Nickel alloy > Titanium alloy Other on request..	> Piston check valve > Swing check valve > Axial check valve > Bolted bonnet or pressure seal bonnet > Soft seated or metal seated > Low pressure drop, acoustic discretion, all installation positions (axial check valve) > Easy and fast maintenance for the check valve with cage or cell type > Cobalt free	> Lock closed system (stop check valve) > Spring loaded calibrating system to adjust the opening pressure > Counterweight, dash pot > Position indicator > 3 ways piston check valves with automatic recirculation
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INSTRUMENTATION SYSTEM

TECHNOLOGY	RANGE	MATERIAL	MAIN FEATURES	OPTIONS
INSTRUMENTATION VALVE	ND 6 (1/8") to ND 25 (1") Class 150 to class 2500	> Carbon steel > Stainless steel > Alloy steel > High Alloy duplex > Nickel alloy > Titanium alloy Other on request..	> Easy and fast maintenance for the valve with cage Progressive closing by elastic system > Screwed, screwed welded or bolted bonnet > Needle type or throttling needle type with metal/metal seating > Cobalt free	> With cage > Non rotating swivel plug > Anti-vibrating mass kit > Bellows leak detector > Variations performance packing gland or bellows valve
MANIFOLD	ND 6 (1/8") to ND 15 (1/2") Class 150 to class 2500	> Carbon steel > Stainless steel > Alloy steel > High Alloy duplex > Nickel alloy > Titanium alloy Other on request..	> Direct or remote mounting > Screwed bonnet with mechanical > High-performance > Screwed, screwed welded or bolted bonnet	> Bellows for absolute external tightness for hazardous fluids and gas > Drain plug > 2" pipe support kit > Ball plug (ceramic, stellite..)
FITTING	ND 6 (1/8") to ND 25 (1") Class 150 to class 2500	> Carbon steel > Stainless steel > Alloy steel > High Alloy duplex > Nickel alloy Other on request..	> Elastomer o-ring for temperatures up to 160°C or graphite for temperatures above 160°C > Tightness without additional sealing paste on sensor side	> Double sealing

CERTIFICATIONS

ISO 9001:2015 14001:2015
45001:2018

EQUIPEMENTS SOUS PRES-
SION NUCLEAIRE , Arrêté du
30/12/2015 modifié - modules
(H/H1)

DIRECTIVE DES EQUIPEMENTS
SOUS PRESSION (DESP 2014/68/
UE - Modules H/H1)

SIL 3 – IEC 61508

EDF-POLE Industrie

HAF604

CEFRI

NPE-0062-H1-DAH-033-21-FRA



NUCLEAR CODES

FRANCE: RCCM, RCCM-R,
RCCM-X, RCCM-RX

RUSSIA: -068-05



INDUSTRIAL CODES

FRANCE: CODAP – CODETI –
EN12516

INTERNATIONAL: ASME VIII /
ANSI B16.34

FIRE CERTIFICATION

FUGITIVE EMISSION

SIL 3 – IEC 61508

NUCLEAR MARKET

VANATOME



Daher has been innovating in the nuclear valve sector for nearly 45 years. Its valves are present across the market:

- > Nuclear power plants
- > Defense
- > Research reactors
- > Decommissioning
- > Fuel cycle installations (front end and back end)

ENERGY MARKET

VERDELET



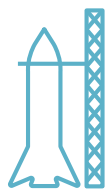
Daher offers a wide range of products adapted to the most demanding requirements of industrial groups in the energy sector:

- > Oil & gas
- > Thermal power plants
- > Desalination
- > Industry
- > Renewable energies
- > Cryogenics
- > Chemical
- > Petrochemical
- > Agri business
- > LNG
- > Mining
- > Metallurgy/steelworks

HIGH PERFORMANCES FUNCTIONS



NUCLEAR PLANT



HIGH TECH



OIL & GAS



THERMAL
& RENEWABLE



CHEMICAL PLANT



DEFENSE



3

COMPLEMENTARY OFFERS FOR NUCLEAR AND ENERGY

Integrated logistics
Nuclear Services
Valves



SHAPING INDUSTRIAL INTELLIGENCE

SALES MANAGEMENT

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