

Design, Manufacturing, Assembly and Testing



DAHER VALVES

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NUCLEAR MARKET

Daher has been innovating in the nuclear valve sector for nearly 40 years. Its valves are present across the market:

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

VANATOME





ENERGY MARKET

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

VERDELET

HIGH PERFORMANCES FUNCTIONS



NUCLEAR PLANT



OIL & GAS



CHEMICAL PLANT



HIGH TECH





THERMAL & RENEWABLE

DEFENSE

	TECHNOLOGY		RANGE	MATERIAL	MAIN FEATURES	OPTIONS
ISOLATION SYSTEM	BALL VALVE SOFT SEATED		ND 8 (1/4") to ND 400 (16")	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 	 Ouick interchangeable cartridge Anti-retention sleeve Fire safe Multi-way valve Limit switch Padlocking hand-wheel All actuation types
			Class 150 to class 2500 Max temp = 210°C			
	BALL VALVE METAL SEATED		ND 8 (1/4") to ND 750 (30")	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 Back seat absolute tightness 	 Pressure balancing system by internal or external bypass Mechanical recoil system of seat Anti-retention sleeve Fire safe Multi-way valve Limit switch Padlocking hand-wheel All actuation types
			Class 150 to class 2500			
	CYLINDRICAL PLUG VALVE		ND 10 (3/8") to ND 100 (4")	Carbon steel Stainless steel Alloy steel High Alloy duplex Nickel alloy Titanium alloy Other on request.	 Top entry type Piston seat Low operating torque and seat wear compensation Low and fast maintenance Cobalt free No retention area 	 With scraper With jacket Fire safe Three-way design Position limit switches Padlocking hand-wheel All actuation types
			Class 150 to class 900 Max temp = 110°C			
	GLOBE VALVE		ND 8 (1/4") to ND 400 (16")	Carbon steel Stainless steel Alloy steel High Alloy duplex Nickel alloy Titanium alloy Other on request	 Globe valve with 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 Z Body type
			Class 150 to class 2500			
	BUTTERFLY VALVE		ND 80 (3") to ND 2000 (80")	Carbon steel Stainless steel Alloy steel High Alloy duplex Nickel alloy Titanium alloy Other on request.	 Body types: Wafer / Lug / Double flanged Safe Quick Closing Low pessure drop design Mechanical vibration free Double and Triple Offset 	 Steam injection Steam jacket Position limit switches All actuation types
			Class 150 to class 2500			
	GATE VALVE		ND 80 (3") to ND 600 (24")	Carbon steel Stainless steel Alloy steel High Alloy duplex Nickel alloy Titanium alloy Other on request	 Parallel slide gate valve Bolted bonnet or Pressure Seal bonnet No binding effect Cobalt free Free expanding Discs 	 Automatic anti-overpressure balancing device Disc substitution ring in order to reduce pressure drop Connection for periodic sampling Bellows Position limit switches Padlocking hand-wheel All actuation types
			Class 150 to class 2500			

	TECHNOLOGY		RANGE	MATERIAL	MAIN FEATURES	OPTIONS
ROL SYSTEM			ND 8 (1/4") to ND 400 (16")	Carbon steel Stainless steel Alloy steel	 Non rotating stem and non rotating swivel plug Screwed bonnet /screwed welded bonnet / bolted bonnet / pressure seal bonnet Progressive closing by elastic system Range of high performance 	 Three-way valve Bellows leak detector Position limit switches All actuation types
	VALVE		Class 150 to class 2500	High Alloy duplex Nickel alloy Other on request	packing gland or bellows valve, with improved service life • Cobalt free • Seating face protection against excessive fluid velocity speed • Curve of valve flow Cv: linear or equal percentage • Single Offset and Triple Offset	 Angle body type Z body type Easy and fast maintenance for the Globe valve with cage
	SAMPLING CONTROL VALVE		ND 6 (1/8') to ND 25 (1')	Carbon steel Stainless steel Alloy steel Hight alloyed duplex Nickel alloy Other on request	 Needle or geometrical profile plug or metallic membrane Soft seated or metal seated 	• Bellows
			Class 150 to class 2500			
ΟNΤ	BUTTERFLY CONTROL VALVE	Ż	ND 80 (3") to ND 2400 (96")	Carbon steel Stainless steel Alloy steel Hight alloyed duplex Nickel alloy Titanium alloy Other on request.	 Body Types: Wafer/ Lug / Double flanged Safe quick closing Low pessure 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
Ó			Class 150 to class 2500			
	DIAPHRAGM CONTROL VALVE		ND 15 (1/2") to ND 300 (12")	Carbon steel Stainless steel Alloy steel Hight alloyed duplex Nickel alloy Other on request	Cell type Modular and quick maintenance	 Position limit switches All actuation types
			Class 150 to class 2500			

CERTIFICATIONS

ISO 9001:2008 14001:2004 18001:2007

SIL 3

GOST-R & ROSTEKHNADZOR Russia

ASME III

EUROPEAN PRESSURE EQUIPMENT DIRECTIVE 97.23EC PED H & H1 Module

ATEX Directive 94/9/EC n° 18015/05

ESPN

EUROPEAN NUCLEAR PRESSURE EQUIPMENT DIRECTIVE H & H1 Module

EDF-POLE Industrie

HAF604

NUCLEAR CODES

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

USA: ASME III – N&NV stamp

RUSSIA: НП-068-05

INDUSTRIAL CODES

FRANCE: CODAP – CODETI – EN12516 INTERNATIONAL: ASME VIII / ANSI B16.34

	TECHNOLOGY		RANGE	MATERIAL	MAIN FEATURES	OPTIONS
SAFETY OR PROTECTION SYSTEM	SAFETY RELIEF VALVE		ND 8 (1/4') to ND 350 (14')	Carbon steel Stainless steel Alloy steel High Alloy duplex Nickel alloy Other on request	 Direct acting / Assisted / Supplementary loaded / spring loaded / pilot operated Flanged or connection with fittings Instantaneous tripping, closing pressure resetting Cobalt free 	 Anti back-pressure balancing system Remote controlled assisted safety valve (pneumatic or electric) Safety relief valve coupled with VANATOME rupture disc Moving parts protected by bellows for corosive fluids
			Class 150 to class 2500			
	RUPTURE DISC	9	ND 10 (3/8") to ND 900 (36")	Stainless steel Alloy steel High Alloy duplex Nickel alloy Other on request.	 Concave free bursting / fitted with knife / pre-cut in composite material / reverse grooved without knife Assembly: Wafer / threaded / screwed / welded Manufacturing by hydroforming system 	 Support to withstand vaccum or back pressure Bursting detector Package of rupture disc and associated safety relief valve
			set pressure 0.5 to 1000 bar			
	SELF PRESSURE CONTROL VALVE		ND 8 (1/4") to ND200 (8")	Carbon steel Stainless steel Alloy steel High Alloy duplex Nickel alloy Titanium alloy Other on request.	 Balanced plug Flanged or connection with union fittings Pressure release power operated by membrane or piston actuator Soft seated or metal seated High temperature: over 240°C with bellows Flow limitation 	• Pressure gauge tap
			Class 150 to class 1500			
	CHECK VALVE		ND 8 (1/4') to ND 600 (24')	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, accoustic discretion, all installaton 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 Lockable in closed position Bellows leak detector
			Class 150 to class 2500			
INSTRUMENTATION SYSTEM	INSTRUMEN- TATION VALVE		ND 6 (1/8') to ND 25 (1')	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 sys- tem to compensate the differential expansions Screwed, screwed welded or welded bonnet Needle type or throtting needle type with metal/metal seating Cobalt free 	 With cage Swivelling non rotating plug Anti-vibrating mass kit Bellows leak detcetor Variations performance packing gland or bellows valve, with improved service life, suitable for operation involving large thermal variations
			Class 150 to class 2500			
	MANIFOLD	T.	ND 6 (1/8") to ND 15 (1/2")	Carbon steel Stainless steel Alloy steel High Alloy duplex Nickel alloy Titanium alloy Other on request	 Direct or remote mounting Screwed bonnet with mechanical locking or bolted bonnet for high temperature High-performance 	 Bellows for absolute external tightness for hazardous fluids and gas Integrated steam tracing Drain plug 2" pipe support kit Ball plug (ceramic, stellite)
			Class 1500 to class 2500			
	FITTING		ND 6 (1/8') to ND 25 (1')	Carbon steel Stainless steel Alloy steel High Alloy duplex Other on request.	 Elastomer o-ring for temperatures up to 160°C or graphite for tempe- ratures above 160°C Screwed on sensor side and welded on pipe side Tightness without additional sea- ling products on sensor side 	• Double sealing
			Class 150 to class 2500			







3 COMPLEMENTARY OFFERS FOR NUCLEAR AND ENERGY

- > Integrated logistics
- > Nuclear Services
- > Valves



SHAPING INDUSTRIAL INTELLIGENCE

SALES MANAGEMENT

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