

DAHER VALVES

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

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HIGH PERFORMANCES FUNCTIONS



NUCLEAR PLANT



OIL & GAS



CHEMICAL PLANT



HIGH TECH



THERMAL & RENEWABLE



DEFENSE

	TECHNOLOGY		RANGE	MATERIAL	MAIN FEATURES	OPTIONS
CONTROL SYSTEM	GLOBE CONTROL		ND 8 (1/4") to ND 400 (16")	Carbon steel Stainless steel Alloy steel High Alloy duplex Nickel alloy Other on request	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 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	Three-way valve Bellows leak detector Position limit switches All actuation types Angle body type Z body type Easy and fast maintenance for the Globe valve with cage
	VALVE		Class 150 to class 2500			
	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			
	BUTTERFLY CONTROL VALVE		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
			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			



	TECHNOLOGY		RANGE	MATERIAL	MAIN FEATURES	OPTIONS
SAFETY OR PROTECTION SYSTEM	SAFETY RELIEF VALVE		ND 8 (1/4") to ND 350 (14") Class 150 to class 2500	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
	RUPTURE DISC		ND 10 (3/8") to ND 900 (36") set pressure 0.5 to 1000 bar	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
	SELF PRESSURE CONTROL VALVE		ND 8 (1/4") to ND200 (8") Class 150 to class 1500	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
	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, 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
INSTRUMENTATION SYSTEM	INSTRUMEN- TATION 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 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 varaitions
	MANIFOLD		ND 6 (1/8") to ND 15 (1/2") Class 1500 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 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)
	FITTING		ND 6 (1/8") to ND 25 (1") Class 150 to class 2500	Carbon steel Stainless steel Alloy steel High Alloy duplex Other on request	Elastomer o-ring for temperatures up to 160°C or graphite for temperatures above 160°C Screwed on sensor side and welded on pipe side Tightness without additional sealing products on sensor side	• Double sealing