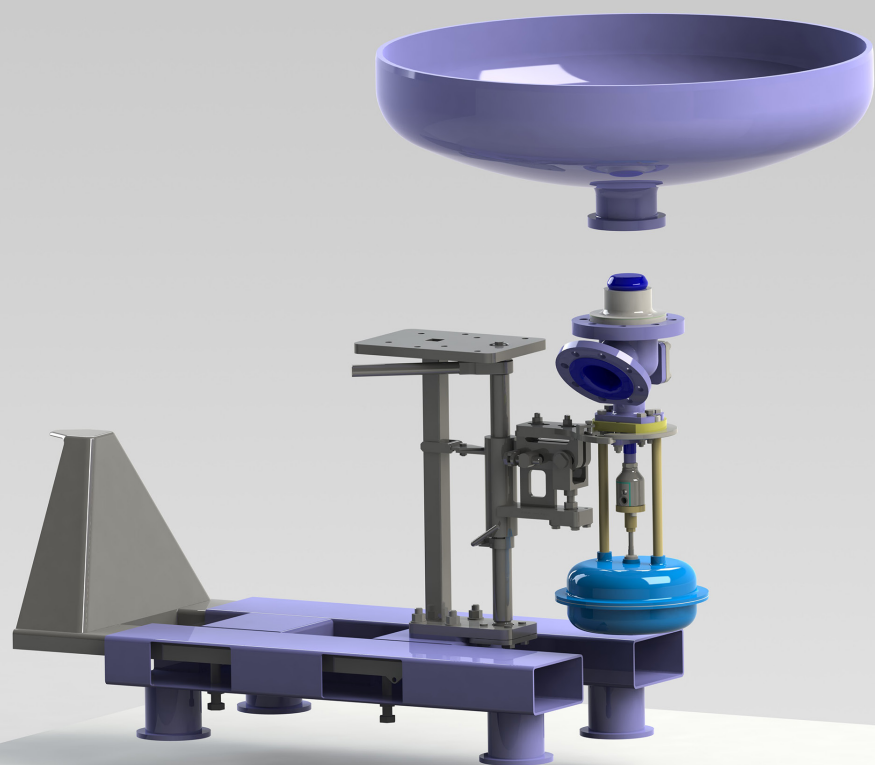




CLEANVALVE

Glass-Lined / Stainless Steel / Alloy





EQUIPMENT, SYSTEMS, SERVICES

CLEANVALVE: THE ANSWER TO ALL OF YOUR NEEDS

DE DIETRICH PROCESS SYSTEMS RELIES ON A SYNERGY OF ITS COMPETENCIES AND EXPERTISE TO PROVIDE A COMPREHENSIVE OFFER AIMED AT THE FINE CHEMICAL, PHARMACEUTICAL AND RELATED INDUSTRIES. ITS DEVELOPMENT IS ORGANIZED AROUND THREE BUSINESSES: EQUIPMENT, INTEGRATED SYSTEMS AND SERVICES.

SINCE 1684

SINCE ITS CREATION IN 1684, THE FRENCH COMPANY, DE DIETRICH® HAS NEVER STOPPED EVOLVING. BY CREATING SYNERGIES WITH PARTNER COMPANIES, BY INTEGRATING KNOWLEDGE IN SKILL SETS, DE DIETRICH® IS TODAY A WORLD LEADER IN THE DESIGN AND MANUFACTURE OF EQUIPMENT AND ACCESSORIES IN ENAMELLED STEEL FOR THE CHEMICAL AND PHARMACEUTICAL INDUSTRIES.



The De Dietrich® valves are available in:

- ENAMEL DD3009
- STAINLESS STEEL 1.4409
- ALLOY 2.4602

The enamel valves present the same characteristics of resistance to corrosion, thermal and mechanical shock as all of the other appliances in the De Dietrich® range, particularly the reactors on which they are installed.



THE CLEANVALVE RANGE

This range has been designed to satisfy each and every requirement in terms of safety and cleanability. The cleaning opening has been angled at 5° and the outlet nozzle presents a groove to facilitate the run-off of the very last drops of product.

The absence of bellows also favors valve cleaning. The dimensions of the valve bodies in the CleanValve series are interchangeable with all of our previous models, which allows them to be fitted instead and in place of the former fittings in an existing installation without having to make any changes to the pipe layout.

OUR VALVE SEATS

Our standard seats are made of glass-filled PTFE, with an integrated seal in aramide fibre for a temperature of -20°C to 180°C.

Reinforced seats in PFA with a STEEL armature are available as optional for high operating temperatures of -60°C to +200°C.

TIGHTNESS GUARANTEED BY A THREEFOLD SAFETY PROVISION

Grinding of the valve stem to reduce friction.

Replacement of the packing braid by a chevron system in PTFE (overlay of multiple sealing provisions).

Installation of an O-ring seal inside the anti-extrusion ring.

FIRE SAFE CERTIFICATION

A FIRE SAFE version has also been produced and can be delivered at the customer's request.

TA LUFT CERTIFICATION

De Dietrich® CVB valves are TA LUFT certified. NF EN 12266-1.

VALVES AND L'ATEX

OUR VALVES ARE ATEX CERTIFIED ACCORDING TO THE CLASSIFICATION:

- CE MARKING EX II 2 G: CAN BE USED IN ZONE 1 OR 2; GAS ATMOSPHERE

- GROUP IIC GASES

- TEMPERATURE CLASS T2/T3/T4 ACCORDING TO THE TEMPERATURE OF THE PROCESS.

THE ATTACHED DOCUMENTATION COMPRISES THE FOLLOWING ITEMS:

- DECLARATION OF CONFORMITY TO DIRECTIVE 94/9/EC

- DRAWING AND PARTS LISTING

- INSTRUCTIONS FOR USE IN EXPLOSIVE ATMOSPHERES.

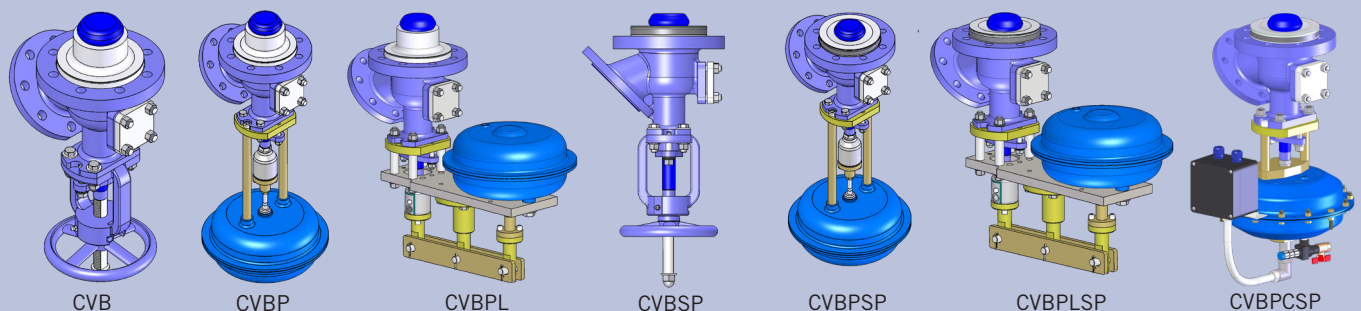
ANY SPECIAL REQUIREMENTS WILL BE EXAMINED ON A CASE BY CASE BASIS

TABLE OF OPERATING CONDITIONS

ENAMEL DD3009					STAINLESS STEEL		ALLOY	
	STANDARD SEAT		REINFORCED SEAT		VALVE 1.4409 BODY 1.4409 (316 L) STEM 1.4404 (316 L)		VALVE 2.4602 BODY 2.4602 (ALLOY 22/C22) STEM 2.4602 (ALLOY 22/C22)	
VALVE SIZE (DN)	OPERATING PRESSURE (BAR)	OPERATING T° (°C)	OPERATING PRESSURE (BAR)	OPERATING T° (°C)	OPERATING PRESSURE (BAR)	OPERATING T° (°C)	OPERATING PRESSURE (BAR)	OPERATING T° (°C)
50/32	-1/10	-20/+180	-1/25	-60/+200	-1/+21	-100/+200*	-1/25	-100/+200*
80/50					-1/+25		-1/16	
100/80			-1/+16		-1/16			
150/100			-1/+13					

CAUTION: Use of a washing nozzle modifies the operating conditions
Connections: PN16, ANSI 150 and JIS 10K

THE RANGE



CVB Valve

Manual	Non FireSafe	Reinforced Seat	150/100 DN Input / DN Output
P Pneumatic	FS FireSafe	SP Flat seat	100/80 DN Input / DN Output
PL Pneumatic Lateral			80/50 DN Input / DN Output
PC Pneumatic Compact			50/32 DN Input / DN Output

Example: Valve CVBPLSP 100/80 - CVB Body - Pneumatic Lateral - Flat Seat - 100/80

OPTIMIZED SAFETY & CLEANING

THE SINGLE, INNOVATIVE SOLUTION FOR OPTIMAL CLEANING

The De Dietrich® flat seat (registered design) is the answer to your cleanability problems in that it replaces the traditional fitting (raised seat + flat stem head) with our innovation (flat seat + raised stem head).



FLAT SEAT

The flat seat allows full flow avoiding cross contamination.



OPTIMAL CLEANING

The use of a flat seat makes it possible to eradicate the dead zones between the outlet nozzle and the seat.

This therefore prevents cross-contamination and thus facilitates cleaning approval.

100 % ADAPTABLE

This type of seat can be fitted to all types of nozzles (cf. diagram).

Indeed, depending on the type of nozzle to which it is to be fitted, only the design of the valve will vary.

It goes without saying that flat seat valves can be fitted to new reactors or replace any other kind of existing valve.

CHEVRON PACKING



LOWER PRODUCTION COSTS

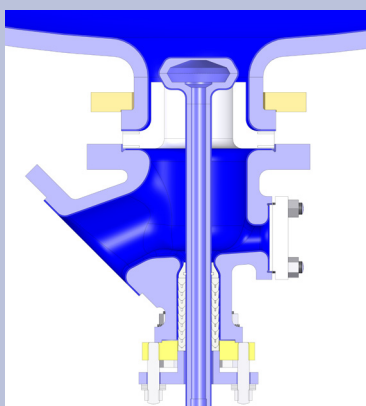
CleanValve valves fitted with a flat seat guarantee optimal cleanability. It is therefore no longer necessary to dismantle them for cleaning. This affords significant time savings.

INCREASED SAFETY AND REDUCED MAINTENANCE

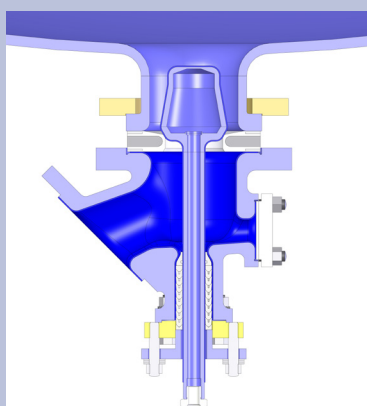
It is not necessary to dismantle the valve to clean the area between the seat and the outlet nozzle.

THE DIFFERENT OPTIONS

ASSEMBLY ON SWAGED NOZZLE

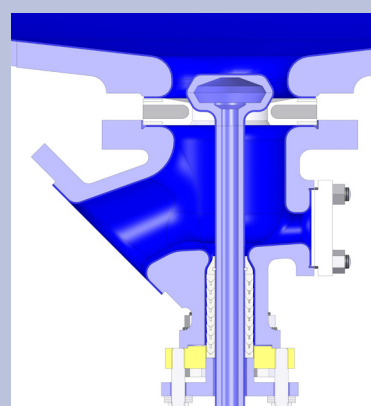


Traditional seat
+ flat stem head



INNOVATION
Flat seat + raised stem head

ASSEMBLY ON PAD TYPE FLANGE



100 % CLEANABILITY
Flat seat + flat stem head

ACCESSORIES

**ALL OF OUR VALVES
CAN BE FITTED WITH
VARIOUS ACCESSORIES
FACILITATING THEIR
IMPLEMENTATION AND USE**

- SINGLE ACTION PNEUMATIC CONTROL WITH RETURN SPRINGS
- EMERGENCY MANUAL CONTROL
- LIMIT SWITCHES
- POSITIONER
- TEMPERATURE SENSOR
- QUICK-EXHAUST VALVE FOR THE PNEUMATIC ACTUATORS
- SOLENOID CONTROL VALVE
- SPRAY NOZZLE

THE SPRAY BALL



De Dietrich® CleanValve valves can be fitted with a retractable spray nozzle. It is installed on the side opening of the valve body and is used to clean it without dismantling.



Calibrated sensors and class A sensors are available as options. A patented coupling, with removable front, located between the valve and the pneumatic actuator, is used to dismantle the SVR2 sensor without removing the valve, even during the process and in complete safety.

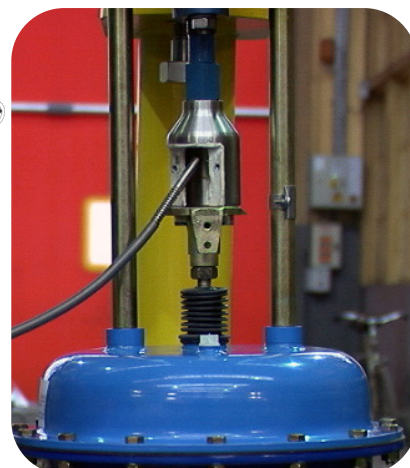
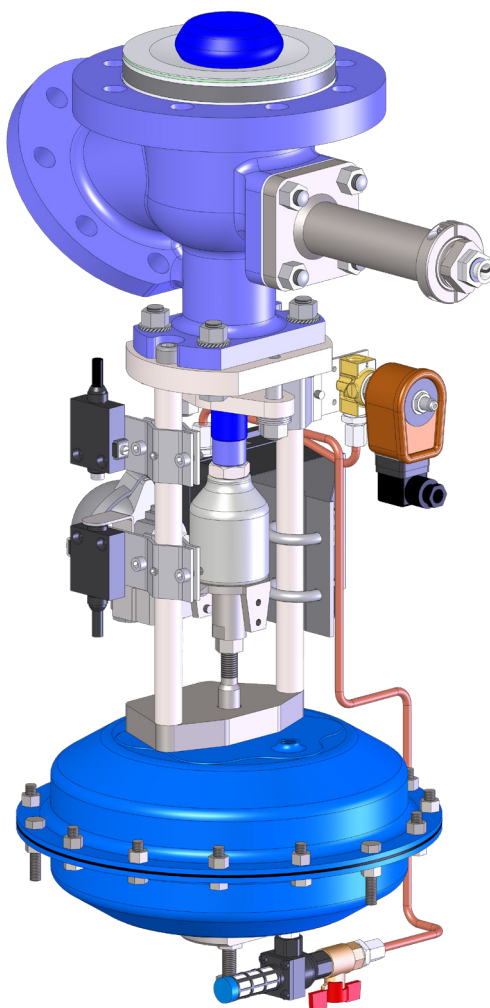
ELECTRODES FOR GLASWATCH



Their principal application is the continuous monitoring of the enamelled coating when they are connected to a GlasWatch. Detection is achieved by two Iridium electrodes located on the top of the stem. The combined stem head can be fitted with electrodes and a temperature probe.

SIGHT GLASS

The sight glass allows visual observation of your products.



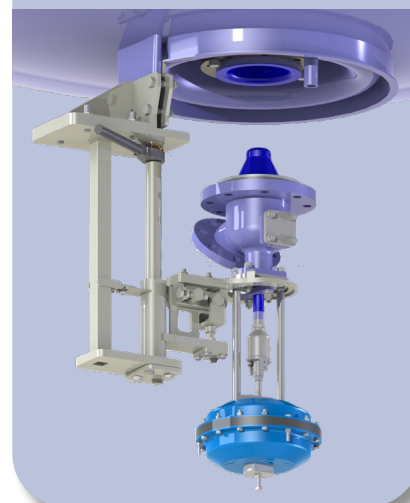
Replacement kits containing coupling and temperature sensor are available to be fitted to valves already in service. Various connecting heads are available, fitted either with terminal blocks or temperature transmitters.

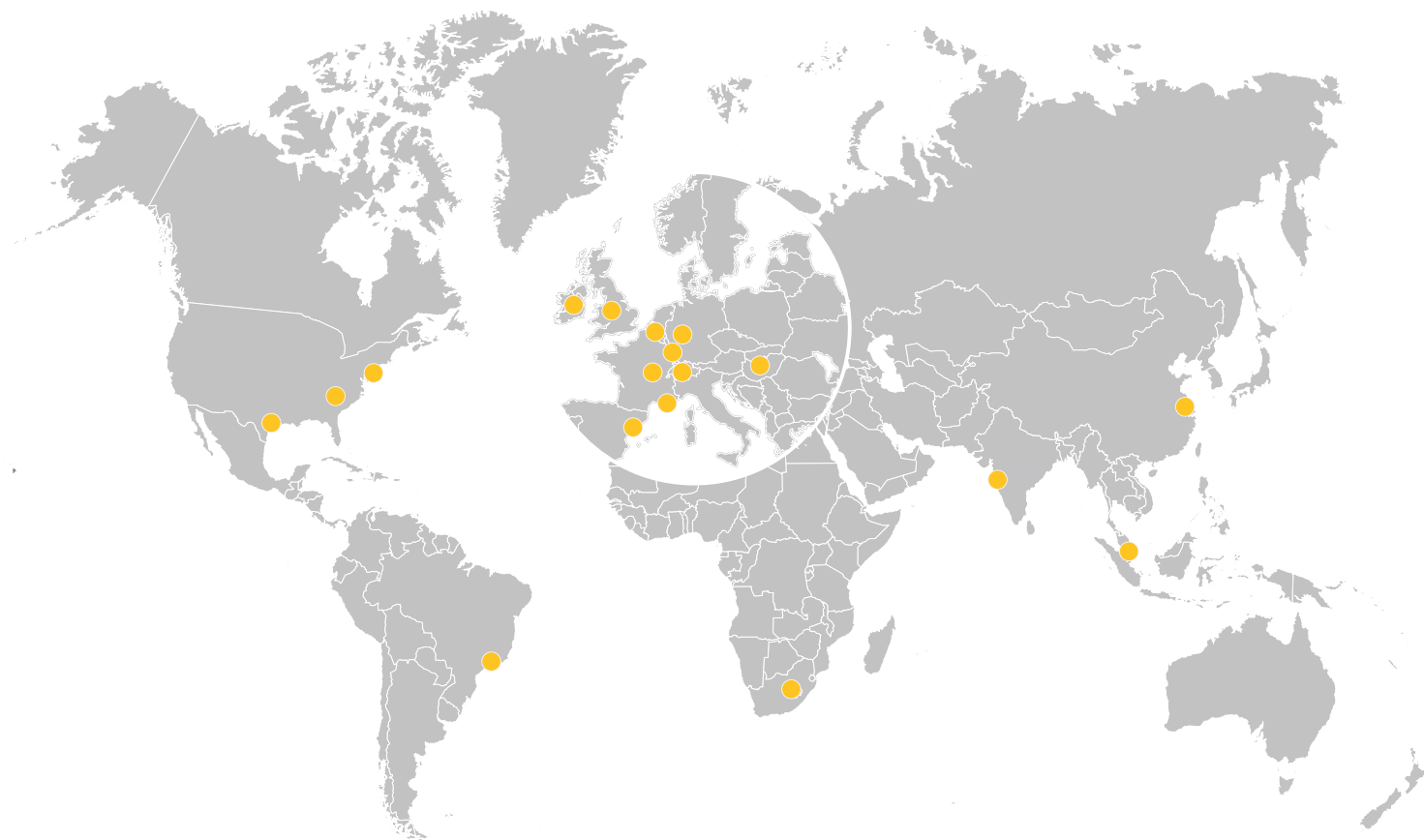
The nozzle is deployed by the pressure of the solvent used for cleaning and retracts automatically at the end of the cycle.

TEMPERATURE MEASUREMENT WITH SIDE DISMANTLING OF THE SENSOR

This measurement is made through the enamel coating on the valve, without a seal, with no risk of leakage, using an SVR2 sensor fitted with two Pt 100 Ω probes (2x3 wires).

ASSEMBLY/DISASSEMBLY DEVICE





De Dietrich PROCESS SYSTEMS



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De Dietrich Process Systems is the leading global provider of Process Equipment, Engineered Systems and Process Solutions for the fine chemical, chemical and pharmaceutical industry.

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