PEX PEAX

ALL SOLUTIONS FOR SAMPLE COLLECTION

SAMPLING





SIMPLE AND SECURE SAMPLING

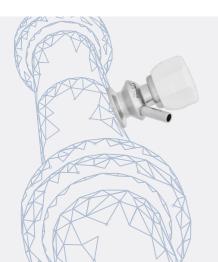
All manufacturers wish to guarantee the quality of the products consumed or used by consumers, who are increasingly demanding. The level of attention covers both the homogeneity of the productions and the texture or taste of the product produced.







*en cours de renouvellement



Sampling consists of taking a quantity of liquid to check its appearance, composition, or quality. Before taking the sample, the sampling device needs to be sterilized.

OUR SAMPLING VALVES
ALLOW THIS USING
TWO TECHNIQUES





1-OUTLET VALVE

Flame sterilization of the valve outlet



1-outlet

Manual PEX1

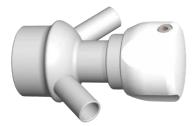


For flame sterilization, bring the flame close to the valve and hold it sufficiently long to transmit the temperature to the whole body by thermal conductivity.



2-OUTLET VALVES

Sterilization by circulation of a sterilizing cleaning product or steam injection



2-outlets

Manual PEX2



For sterilization with a cleaning product, with the valve closed, put the lower cap in place to completely fill the valve with sterilant and carry out sampling.

For steam sterilization, remove the two caps (valves closed) and sterilize with steam through the upper outlet.

PEX - PEAX

AN ANSWER WITH DEFINOX SAMPLING VALVES, COMBINING COMPACTNESS AND RELIABILITY

Most often installed on tanks or pipes, **PEX - PEAX sampling valves** are easily integrated thanks to their multiple connection. Available in different diameters, fluids from the most liquid to the most viscous can be collected with the **PEX - PEAX** sampling valves.

The possibility of adapting the Sorio® control top to the automatic version makes it possible to control and view the status of the sampling valve remotely.



HYGIENIC DESIGN, WITHOUT RISK OF CONTAMINATION



OPTIMAL CLEANABILITY, CERTIFIED



COMPACT AND MODULAR DESIGN,
THANKS TO THE MULTIPLE CONNECTIONS



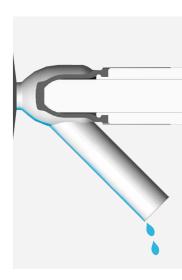
MAXIMUM ADAPTABILITY ACCORDING TO THE ENVIRONMENT AND THE CONTEXT OF USE



THE ENVIRONMENT AND THE CONTEXT OF USE GOOD PERFORMANCE IN DIFFICULT SERVICE CONDITIONS



TAILOR-MADE ECONOMICAL SOLUTION



FIELDS OF APPLICATION

DEFINOX valves can be used on liquids or semi-liquids, more or less viscous, without risk of denaturing the manufactured product.

- Food: dairy products, jam, chocolate...
- Cosmetics / Perfume
- Hygiene products: toothpaste, shampoo, shower gel...
- Household products: laundry, detergent...
- Pet food











WHAT MAKES THE DIFFERENCE

PFA valve adapted to

Good resistance to mechanical and chemical stresses.

NEW DESIGN

One-piece body machined

in stainless-steel 1.4404 / AISI 316L

removes roughness or defect, related to

the welding of the outlets. It guarantees a homogeneous and optimal interior surface

condition

Design optimizing flow,

cleanability and sterilization.

Various connections.

to be welded on wall clamp

dynamic flows

Instructions NI-162 sampling valve NM-161

PEX

MANUAL VERSION

Ergonomic plastic handle (optional, red or another colour, on request), with opening and closing guard, preventing crushing and damaging the diaphragm.

Optional

Stainless steel handle.

PEAX

AUTOMATIC VERSION

Pneumatic actuator NC (Normally Closed), compact, in stainless-steel, removable.

Optional

Operating lever, for manual control in an automatic cycle (extended version, for DN 16/18 to facilitate forcing).

Quick and easy interchangeability

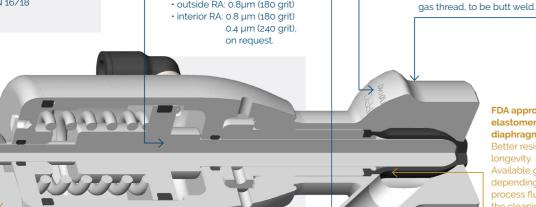
of the operating device.

Easily interchangeable sealing

Stainless-steel stem

1.4301 / AISI304

Surface finish · outside RA: 0.8µm (180 grit)



FDA approved neutral elastomer profiled diaphragm

Better resistance and longevity. Available grades depending on the process fluid and the cleaning and CIP conditions: EPDM. EPDM white, FKM. FKM acid-proof, VMQ.

Control and feedback from the Sorio® control top, digital version, AS-i or IO-Link.

Plastic or stainless-steel cover. Remote visualization of the valve status.

Automatic sampling valve PEAX2 equipped with an operating lever and Sorio® control top.

Possibility of

connecting the outlets.

SUITABLE FOR ALL TYPES OF PROCESS

2 PFA SEALS

Suitable for samples under pressure

- Valve PFA / EPDM
- Valve PFA / FKM





5 DIAPHRAGM SEALS

- VMQ diaphragm, as standard
- EPDM diaphragm
- White EPDM diaphragm
- FKM diaphragm
- Acid-proof FKM diaphragm



Resistance levels of elastomer and plastomer

	EPDM	FKM	PFA
Oil	*	**	**
Greasy substances	*	**	**
CIP	**	**	**
Aggressive chemicals	*	**	**
Concentrated essential oils and perfumes	*	**	**
Abrasion resistance	*	*	*
Low temperature	**	*	*

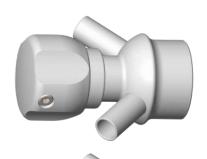
★ ★ Highly suitable ★ Suitable ★ Not recommended

Certification of elastomer and plastomer

	EPDM	FKM	PFA
FDA 21 CFR 177.2660	~	✓	~
CE 1935 / 2004	~	✓	~
ADI Free	~	✓	~
3-A Sanitary Standards	✓ (Class II)	✓ (Class I)	~
USP Ch.87 and Ch88 Class V	~		
NSF 51	~		
ACS	~		~

MATERIALS

- Body: stainless-steel 1.4404 / AISI 316L Other materials, on request (see page 7)
- Handle: white plastic material or stainless-steel 1.4301 / AISI 304 Optional, red or another colour, on request
- Actuator: stainless-steel 1.4301 / AISI 304





TERMS OF SERVICE

- Maximum operating pressure: manual-automatic: 10 bar (more, contact us)
- Minimum temperature: 0°C
- Maximum temperature: 120°C (more, contact us)
- Air supply of the actuator: 4 to 6 bar
- Air connection: Ø 4/6

MAXIMUM PRESSURE	STATIC (all versions)	DYNAMIC DIAPHRAGM version	DYNAMIC PFA version
DN6/8	10 bar	5 bar	5 bar
DN10/12	10 bar	2 bar	5 bar
DN16/18	10 bar	2 bar	5 bar

WIDE RANGE

3 WAYS TO CHOOSE

In three steps, choose the configuration best suited to your sampling environment and the nature of the product collected.

DEPENDING ON THE STERILIZATION METHOD



Sterilization by injection of steam or a cleaning solution with sterilant

PEX2 - PEAX2

(2) DEPENDING ON THE PASSAGE Ø OF THE PARTICLES

	Particle passage Ø (maximum in mm)	Viscosity
DIN 6/8	1.5	0-100 cp
DIN 10/12	3	0-1,000 cp
DIN 16/18	3.5	0-20,000 cp

3) 6 CONNECTIONS, DEPENDING ON CONSTRAINTS OR CONNECTION LOCATION

FLAME STERILIZATION (1 OUTLET)



PEX1 - PEAX1

Automatic PEAX1



Manual PEX2

To be welded on

Clamp Ø 50.4 mm



Automatic PEAX2







reference 7

CLAMP CONNECTION



Mini clamp

Ø 25.4 mm

STEAM OR SOLUTION INJECTION STERILIZATION (2 OUTLETS)









Mini clamp Ø 34 mm

Ø 25.4 mm

reference 8

VARIANTS AND OPTIONS

VARIANTS AND OPTIONS

FOR GREATER USE



THE OUTLETS CONNECTIONS



3/8" gas outlet







SPECIAL STEELS ON DEMAND

Black plastic cap

Offset spout





RBE03 quick coupling

Connection adapto

FOR WIDER USE

OTHER ASEPTIC SAMPLE COLLECTION

Diaphragm sampling valves allow sampling in strict sanitary environments. The design of DMX-DMAX valves incorporates a physical barrier between the interior of the valve and the outside environment, without risk of contamination. The profile of the valve body, without jumping, eliminates the risk of bacteriological development.





Automatic sampling diaphragm valve - DMAX

Manual sampling diaphragm valve - DMX

POWDER SAMPLING

For powder applications, DEFINOX offers a volumetric sampler suitable for powder sampling.

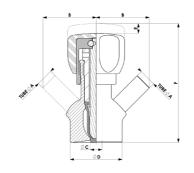


DIMENSIONS

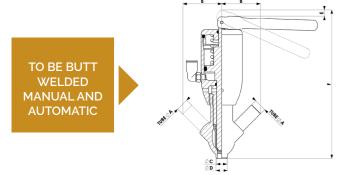
TO BE WELDED ON A WALL MANUAL AND AUTOMATIC

TubeØA	В	ØС	ØD	Stroke E	F	WEIGHT (kg)
DIN 6/8	33	4,5	28	5	115	0,60
DIN 10/12	37	8	36	7	140	0,70
DIN 16/18	50	15	52	7	160	1,55

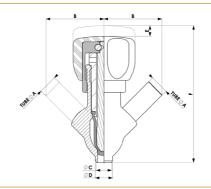
DIMENSIONS



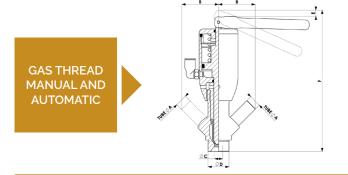
TubeØA	В	ØС	ØD	Stroke E	F	WEIGHT (kg)
DIN 6/8	33	4.5	28	5	68	0,30
DIN 10/12	37	8	36	7	83	0,40
DIN 16/18	50	15	52	7	96	0,80



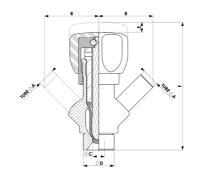
TubeØA	В	ØС	ØD	Stroke E	F	WEIGHT (kg)
DIN 6/8	33	4.5	7	5	115	0,60
DIN 10/12	37	8	11	7	140	0,65
DIN 16/18	50	15	18	7	160	1,40



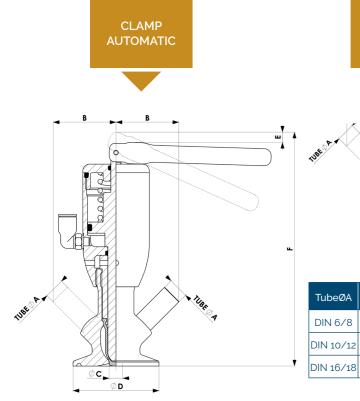
TubeØA	В	ØС	ØD	Stroke E	F	WEIGHT (kg)
DIN 6/8	33	4.5	7	5	73	0,30
DIN 10/12	37	8	11	7	88	0,35
DIN 16/18	50	15	18	7	106	0,70



TubeØA	В	øс	ØD	Stroke E	F	WEIGHT (kg)
DIN 6/8	33	4,5	1/2" gaz	5	115	0,60
DIN 10/12	37	8	1/2" gaz	7	140	0,65
DIN 16/18	50	15	1/2" gaz	7	160	1,40



TubeØA	В	ØС	ØD	Stroke E	F	WEIGHT (kg)
DIN 6/8	33	4,5	1/2" gaz	5	69	0,30
DIN 10/12	37	8	1/2" gaz	7	88	0,35
DIN 16/18	50	15	1/2" gaz	7	106	0,70





ØС

4,5

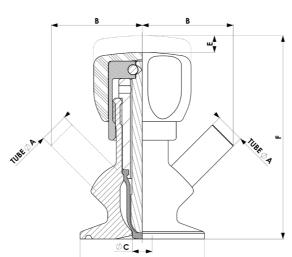
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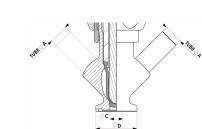


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CLAMP •	MINI CLAMP	MICRO CLAMP			
ØD	ØD	ØD	Stroke E	F	WEIGHT (kg)
50,4	34	25,4	5	115	0,65
50,4	34	25,4	7	140	0,70
50,4	34	25,4	7	160	1,35



CLAMP MANUAL





MICRO

CLAMP

			CLAMP ▼	MINI CLAMP ▼	MICRO CLAMP ▼			
TubeØA	В	øс	ØD	ØD	ØD	Stroke E	F	WEIGHT (kg)
DIN 6/8	33	4,5	50,4	34	25,4	5	68	0,35
DIN 10/12	37	8	50,4	34	25,4	7	83	0,40
DIN 16/18	50	15	50.4	34	25.4	7	93	0.65

OUR SUPPORT



ENGINEERING DEPARTMENT

Our engineering department provides knowledge in IO-Link technology associated with process valves and liquid transfer.

We advise and support your approach to implement predictive valve maintenance.



PACKSERVICES CUSTOMER SERVICE

PackServices customer service offers various services

- Training *
- Preventive maintenance program
- · Spare parts management
- · Advice/expertise

Our teams of specialized multilingual technicians work in France and abroad for maintenance operations. They are also involved in product retrofit operations (change in generation of valves or housings).

*certified training organization.



TEST, DOWNLOAD, **SCAN...**

The augmented reality developed by DEFINOX for more services.

- Immediate identification of the valve and spare parts.
- Save time in managing the stock of equipment.
- · Reduced risk of errors.
- Immediate access to documentation.
- Individualized monitoring of the valve with the service book function.

New







10

Specialist in the transfer of liquids for more than 50 years, DEFINOX designs and manufactures process valves and customized stainless-steel equipment for the food, cosmetics and fine chemicals industries.

The valves and equipment meet the standards of the regulations in force applicable to hygienic processes and the most severe constraints in terms of cleanability.







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