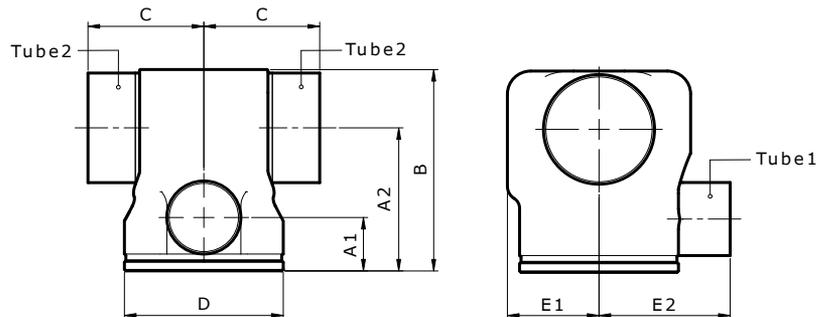


Specification Sheet

NovAseptic® Valve, Valve Body, Take off Valve

Product Description

The NovAseptic® valve is specifically designed for aseptic applications and complies with the most stringent cleanability and sterilization requirements. The focus on aseptic design is a significant feature for all valves. The NovAseptic® valve is designed for minimum dead leg, complete drainability and high chemical resistance.



Catalogue No. Structure

NU###/480###-221

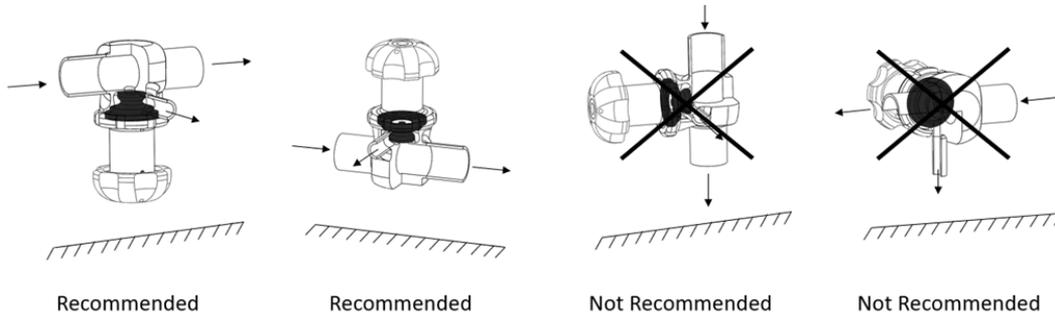
= tube 1 size
= tube 2 size

Nominal Dimensions in mm (in.)

Catalogue No.	A1	A2	B	C	D*	E1	E2	Tube 1 size	Tube 2 size
NU050/480100-221		30.8 (1.213)	49.0 (1.929)			23.9 (0.941)	49.0 (1.929)		25.4 x 1.65 (1.0 x 0.065)
NU050/480150-221	12.4 (0.488)	37.1 (1.461)	57.0 (2.244)	45.0 (1.772)	TR40x2	26.5 (1.043)	51.5 (2.028)	12.7 x 1.65 (0.5 x 0.065)	38.1 x 1.65 (1.5 x 0.065)
NU050/480200-221		43.5 (1.713)	70.0 (2.756)			31.5 (1.240)	56.5 (2.224)		50.8 x 1.65 (2.0 x 0.065)
NU075/480150-221	18.0 (0.709)	44.4 (1.748)	64.0 (2.520)	52.5 (2.067)	TR55x2	32.0 (1.260)	57.5 (2.264)	19.1 x 1.65 (0.75 x 0.065)	38.1 x 1.65 (1.5 x 0.065)
NU075/480200-221		50.8 (2.000)	77.0 (3.031)			33.3 (1.311)			50.8 x 1.65 (2.0 x 0.065)
NU100/480150-221		54.2 (2.134)	74.0 (2.913)			37.5 (1.476)	63.5 (2.500)		38.1 x 1.65 (1.5 x 0.065)
NU100/480200-221	24.1 (0.949)	60.5 (2.382)	87.0 (3.425)	62.5 (2.461)	TR75x2	42.4 (1.669)	67.5 (2.657)	25.4 x 1.65 (1.0 x 0.065)	50.8 x 1.65 (2.0 x 0.065)
NU100/480300-221		73.2 (2.882)	112.0 (4.409)			49.0 (1.929)	74.5 (2.933)		76.2 x 1.65 (3.0 x 0.065)
NU150/480150-221		67.4 (2.654)	88.0 (3.465)			42.5 (1.673)	67.5 (2.657)		38.1 x 1.65 (1.5 x 0.065)
NU150/480200-221	30.6 (1.205)	73.8 (2.906)	100.0 (3.937)	67.5 (2.657)	TR85x2	49.3 (1.941)	77.5 (3.051)	38.1 x 1.65 (1.5 x 0.065)	50.8 x 1.65 (2.0 x 0.065)
NU150/480300-221		86.5 (3.417)	127.0 (5.000)			52.5 (2.067)			76.2 x 1.65 (3.0 x 0.065)
NU200/480200-221	37.0 (1.457)	86.8 (3.425)	116.0 (4.567)	79.5 (3.130)	TR109x2	54.5 (2.146)	79.5 (3.130)	50.8 x 1.65 (2.0 x 0.065)	50.8 x 1.65 (2.0 x 0.065)
NU200/480300-221		99.5 (3.917)	140.0 (5.512)			62.9 (2.476)	89.5 (3.524)		76.2 x 1.65 (3.0 x 0.065)

* Non-standard thread, special thread to fit NovAseptic® actuators.

Recommended orientation for full drain ability of NovAseptic® diaphragm valves



Specifications

Net Weight (approximate)

Valve Body	NU050			NU075		NU100			NU150			NU200	
/480	100	150	200	150	200	150	200	300	150	200	300	200	300
Weight kg (lb)	0.4 (0.88)	0.4 (0.88)	0.5 (1.1)	0.7 (1.5)	0.8 (1.8)	1.4 (3.09)	1.6 (3.53)	2.0 (4.41)	1.9 (4.19)	2.4 (5.29)	1.8 (3.97)	4.0 (8.82)	5.1 (11.2)

Material

Material Code	Bar Stainless Steel in Compliance with		Tubing Stainless Steel in Compliance with	
	Material Code	316L	EN 1.4404	TP316L
Technical Requirements	ASME® SA-479	EN 10272	ASTM® A269/270	EN 10217-7/EN 10216-5

Specifications

Surface Roughness	Internal surface (electropolished) $Ra \leq 0.38 \mu\text{m}$ (15 μin) External surface $Ra \leq 1.6 \mu\text{m}$ (63 μin)
Design Temperature, Valve Body	-80 to 200 °C (-112 to 392 °F)
Design Pressure, Valve Body	-1 to 10 bar(g) (-14.5 to 145 psi(g))
Note	The valve body can only be used with NovAseptic® diaphragm, actuator and position indicator (optional). The applied diaphragm and actuator have different design temperature and/or pressure limits. The weakest component in the assembled product determines the maximum operating/design temperature and pressure limits.
Labeling	Each valve body is individually labeled for full traceability and heat No. according to our QA routines.
Packaging	All open ends on the valve body are protected with plastic covers on delivery and packaged in a closed box.
Quality Control	Our quality assurance system guarantees the control and traceability at all stages of the manufacturing.
Regulatory	<ul style="list-style-type: none"> The NovAseptic® valves, used with gas group 2 and liquid group 1, fall under the art. 4 § 3 of the Pressure Equipment Directive (2014/68/EU). They are not CE marked. They have been designed and manufactured following the sound engineering practices. NovAseptic® valves follow the applicable ASME BPE guideline sections.
Options	For non-standard NovAseptic® valve body options, please contact us for further information.

Technical Assistance

For more information, please visit [SigmaAldrich.com](https://www.sigmaaldrich.com)
for up-to-date worldwide contact information

