

PATENTED

ART. **061**

ASEPTIC DIAPHRAGM VALVES

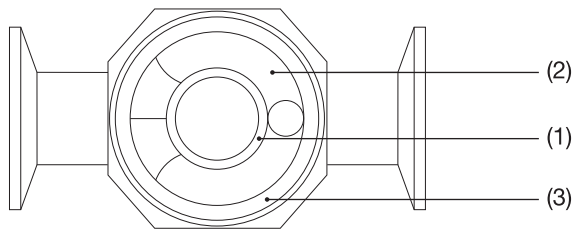
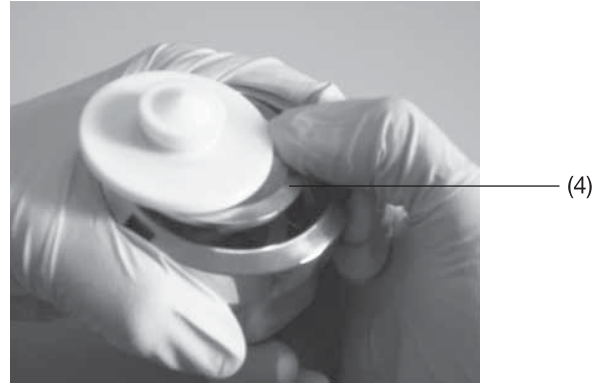
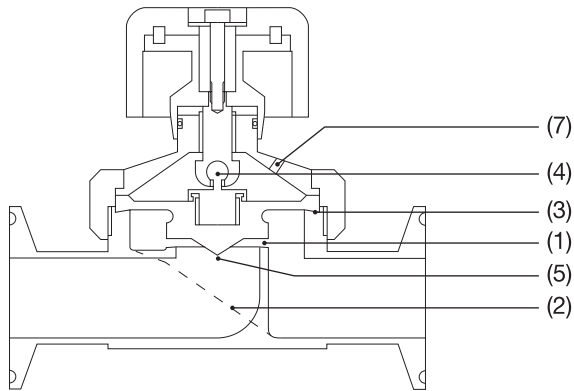


DISC ASEPTIC DIAPHRAGM VALVE

Characteristics: Engineered and patented aseptic valves for biotechnology and semiconductor industries, pharmaceutical, food and medical processes. Designed for Aseptic and High Purity Applications. Two material: PTFE and AISI 316 L without asymptotic seals. Innovative internal design with inclined contact surfaces to drain the fluid. Fully autoclavable.

Documentation: Laser marking for traceability and validation processes. Material 3.1 certificates, FDA or USP, internal surface finishing check as standard. Atex validated on request, according to CE Ex II 2 GDx.

TRI-CLAMP		BUTT WELD		TRI-CLAMP		BUTT WELD	
ART. 061/A P. 010	ART. 061/A P. 010	ART. 061/B P. 011	ART. 061/B P. 011	ART. 061/C P. 012	ART. 061/C P. 012	ART. 061/D P. 013	ART. 061/D P. 013
ART. 061/G P. 014	ART. 061/G P. 014	ART. 061/H P. 016	ART. 061/H P. 016				



The opening and closing movements do not detect the areas which are away from the shutter's contact surface, which however, is inclined and it allows the draining of the fluid outwards during the support movement and the tightness of the diaphragm on the work table shutting surface (1).

The internal chute allows the valve's chamber to easily empty itself even during horizontal use (2).

The inverse taper of the tightness surface in correlation with the diaphragm's surface sustain allows for concentrated tightness on the internal edge, which is in contact with the product, it is secured by a strong and optimal compression, and it is performed by the external roller (3).

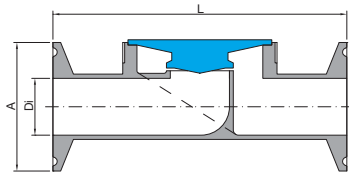
In order to guarantee the maximum quality, the central body is totally machine-manufactured, using welded Tri-Clamp connections, available with internal finishing under 0.4 Ra. The diaphragm is manufactured in PTFE, which is appropriately connected to the AISI316L traction-compression systems, therefore there is no possibility of by-passing, and it has a spherical conformation which makes the replacing maneuver easy (4).

The runner in the shutter makes any eventual needs to regulate the fluid more precise (5).

The manual control of the valve is carried out through a PTFE handle. For precision regulation purposes, a manual, self-locking actuator is available (Type H); it includes 80 different positions, as well as a position indicator, which is available only for 1/2" and 3/4" (6).

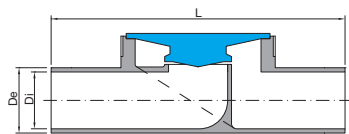
The hole on the head-frame valve allows the external display of any possible cracks on the diaphragm (7).

The valve is able to work in both directions, it is available in 4 different features, and it also provides more additional variants based on the necessity of use: 1/2" to 2.1/2" for types A, B, D and G, in accordance with the ASTM A270 codes. Recommended maximum working pressure: 150 PSI.



ASTM A270 - Tri-Clamp

Size	Ø A	Ø Di	L	Valve Material	Diaphragm Material	Code
1/2"	25	9,40	88,90	1.4404	PTFE - FDA	061A60050PTF
					PTFE - USP 121	061A60050PT121
					GUAFLON	061A60050GU
3/4"	25	15,75	101,60	1.4404	PTFE - FDA	061A60075PTF
					PTFE - USP 121	061A60075PT121
					GUAFLON	061A60075GU
1"	50,40	22,10	114,30	1.4404	PTFE - FDA	061A60100PTF
					PTFE - USP 121	061A60100PT121
					GUAFLON	061A60100GU
1.1/2"	50,40	34,80	139,70	1.4404	PTFE - FDA	061A60150PTF
					PTFE - USP 121	061A60150PT121
					GUAFLON	061A60150GU
2"	63,90	47,50	171,00	1.4404	PTFE - FDA	061A60200PTF
					PTFE - USP 121	061A60200PT121
					GUAFLON	061A60200GU
2.1/2"	77,40	60,20	222,00	1.4404	PTFE - FDA	061A60250PTF
					PTFE - USP 121	061A60250PT121
					GUAFLON	061A60250GU



ASTM A270 - Butt Weld

Size	Ø De	Ø Di	L	Valve Material	Diaphragm Material	Code
1/2"	12,70	9,40	88,90	1.4404	PTFE - FDA	061AW60050PTF
					PTFE - USP 121	061AW60050PT121
					GUAFLON	061AW60050GU
3/4"	19,05	15,75	101,60	1.4404	PTFE - FDA	061AW60075PTF
					PTFE - USP 121	061AW60075PT121
					GUAFLON	061AW60075GU
1"	25,40	22,10	114,30	1.4404	PTFE - FDA	061AW60100PTF
					PTFE - USP 121	061AW60100PT121
					GUAFLON	061AW60100GU
1.1/2"	38,10	34,80	139,70	1.4404	PTFE - FDA	061AW60150PTF
					PTFE - USP 121	061AW60150PT121
					GUAFLON	061AW60150GU
2"	50,80	47,50	171,00	1.4404	PTFE - FDA	061AW60200PTF
					PTFE - USP 121	061AW60200PT121
					GUAFLON	061AW60200GU
2.1/2"	63,50	60,20	222,00	1.4404	PTFE - FDA	061AW60250PTF
					PTFE - USP 121	061AW60250PT121
					GUAFLON	061AW60250GU

Int. finishing: **Ra ≤ 0,4 µm**
Ext. finishing: **Ra ≤ 0,8 µm Mirror Polished**

Max Working Conditions:
10 bar (150 psi) and 150°C (300°F)

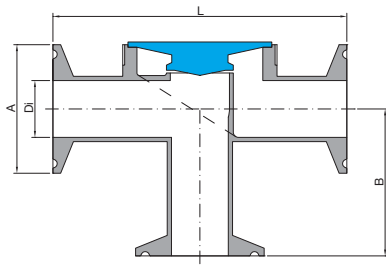
Installation:
Vertical installation recommended

Part list

ASTM A270 - TRI-CLAMP	ASTM A270 - BUTT WELD	N°	Name	Material
		1	Body	AISI 316L
		2	Cover	AISI 316L
		3	Ring	AISI 316L
		4	Handle	PTFE + AISI 316L
		5	Connecting Rod	OT58
		6	Special Screw	AISI 304
		7	Diaphragm	PTFE + AISI 316L or GUAFLON + AISI 316L
		8	O-Ring	FPM/FKM
		9	Special Washer	AISI 304

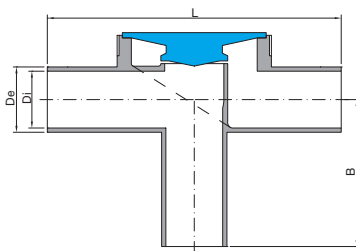


ASTM A270 - Tri-Clamp



Size	Ø A	Ø Di	L	B	Valve Material	Diaphragm Material	Code
1/2"	25	9,40	88,90	44,45	1.4404	PTFE - FDA	061B60050PTF
						PTFE - USP 121	061B60050PT121
						GUAFLON	061B60050GU
3/4"	25	15,75	101,60	50,80	1.4404	PTFE - FDA	061B60075PTF
						PTFE - USP 121	061B60075PT121
						GUAFLON	061B60075GU
1"	50,40	22,10	114,30	57,15	1.4404	PTFE - FDA	061B60100PTF
						PTFE - USP 121	061B60100PT121
						GUAFLON	061B60100GU
1.1/2"	50,40	34,80	139,70	69,85	1.4404	PTFE - FDA	061B60150PTF
						PTFE - USP 121	061B60150PT121
						GUAFLON	061B60150GU
2"	63,90	47,50	171,00	85,50	1.4404	PTFE - FDA	061B60200PTF
						PTFE - USP 121	061B60200PT121
						GUAFLON	061B60200GU
2.1/2"	77,40	60,20	222,00	111,00	1.4404	PTFE - FDA	061B60250PTF
						PTFE - USP 121	061B60250PT121
						GUAFLON	061B60250GU

ASTM A270 - Butt Weld



Size	Ø De	Ø Di	L	B	Valve Material	Diaphragm Material	Code
1/2"	12,70	9,40	88,90	44,45	1.4404	PTFE - FDA	061BW60050PTF
						PTFE - USP 121	061BW60050PT121
						GUAFLON	061BW60050GU
3/4"	19,05	15,75	101,60	50,80	1.4404	PTFE - FDA	061BW60075PTF
						PTFE - USP 121	061BW60075PT121
						GUAFLON	061BW60075GU
1"	25,40	22,10	114,30	57,15	1.4404	PTFE - FDA	061BW60100PTF
						PTFE - USP 121	061BW60100PT121
						GUAFLON	061BW60100GU
1.1/2"	38,10	34,80	139,70	69,85	1.4404	PTFE - FDA	061BW60150PTF
						PTFE - USP 121	061BW60150PT121
						GUAFLON	061BW60150GU
2"	50,80	47,50	171,00	85,50	1.4404	PTFE - FDA	061BW60200PTF
						PTFE - USP 121	061BW60200PT121
						GUAFLON	061BW60200GU
2.1/2"	63,50	60,20	222,00	111,00	1.4404	PTFE - FDA	061BW60250PTF
						PTFE - USP 121	061BW60250PT121
						GUAFLON	061BW60250GU

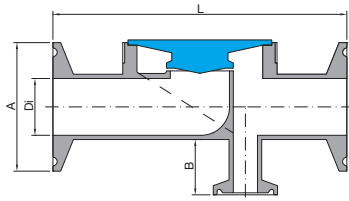
Int. finishing: **Ra ≤ 0,4 µm**
Ext. finishing: **Ra ≤ 0,8 µm Mirror Polished**

Max Working Conditions:
10 bar (150 psi) and 150°C (300°F)

Installation:
Vertical or horizontal installation

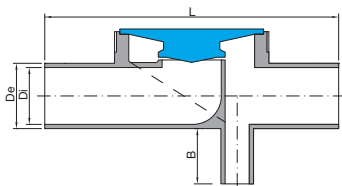
Part list

ASTM A270 - TRI-CLAMP	ASTM A270 - BUTT WELD	N°	Name	Material
		1	Body	AISI 316L
		2	Cover	AISI 316L
		3	Ring	AISI 316L
		4	Handle	PTFE + AISI 316L
		5	Connecting Rod	OT58
		6	Special Screw	AISI 304
		7	Diaphragm	PTFE + AISI 316L or GUAFLON + AISI 316L
		8	O-Ring	FPM/FKM
		9	Special Washer	AISI 304



ASTM A270 - Tri-Clamp

Size	Ø A	Ø Di	L	B	Valve Material	Diaphragm Material	Code
1/2"	25	9,40	88,90	21,50	1.4404	PTFE - FDA	061C60050PTF
						PTFE - USP 121	061C60050PT121
						GUAFLON	061C60050GU
3/4"	25	15,75	101,60	21,50	1.4404	PTFE - FDA	061C60075PTF
						PTFE - USP 121	061C60075PT121
						GUAFLON	061C60075GU
1"	50,40	22,10	114,30	21,50	1.4404	PTFE - FDA	061C60100PTF
						PTFE - USP 121	061C60100PT121
						GUAFLON	061C60100GU
1.1/2"	50,40	34,80	139,70	21,50	1.4404	PTFE - FDA	061C60150PTF
						PTFE - USP 121	061C60150PT121
						GUAFLON	061C60150GU
2"	63,90	47,50	171,00	21,50	1.4404	PTFE - FDA	061C60200PTF
						PTFE - USP 121	061C60200PT121
						GUAFLON	061C60200GU
2.1/2"	77,40	60,20	222,00	21,50	1.4404	PTFE - FDA	061C60250PTF
						PTFE - USP 121	061C60250PT121
						GUAFLON	061C60250GU



ASTM A270 - Butt Weld

Size	Ø De	Ø Di	L	B	Valve Material	Diaphragm Material	Code
1/2"	12,70	9,40	88,90	21,50	1.4404	PTFE - FDA	061CW60050PTF
						PTFE - USP 121	061CW60050PT121
						GUAFLON	061CW60050GU
3/4"	19,05	15,75	101,60	21,50	1.4404	PTFE - FDA	061CW60075PTF
						PTFE - USP 121	061CW60075PT121
						GUAFLON	061CW60075GU
1"	25,40	22,10	114,30	21,50	1.4404	PTFE - FDA	061CW60100PTF
						PTFE - USP 121	061CW60100PT121
						GUAFLON	061CW60100GU
1.1/2"	38,10	34,80	139,70	21,50	1.4404	PTFE - FDA	061CW60150PTF
						PTFE - USP 121	061CW60150PT121
						GUAFLON	061CW60150GU
2"	50,80	47,50	171,00	21,50	1.4404	PTFE - FDA	061CW60200PTF
						PTFE - USP 121	061CW60200PT121
						GUAFLON	061CW60200GU
2.1/2"	63,50	60,20	222,00	21,50	1.4404	PTFE - FDA	061CW60250PTF
						PTFE - USP 121	061CW60250PT121
						GUAFLON	061CW60250GU

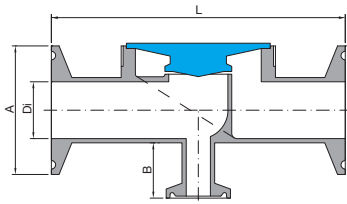
Int. finishing: **Ra ≤ 0,4 µm**
Ext. finishing: **Ra ≤ 0,8 µm Mirror Polished**

Max Working Conditions:
10 bar (150 psi) and 150°C (300°F)

Installation:
Vertical or horizontal installation

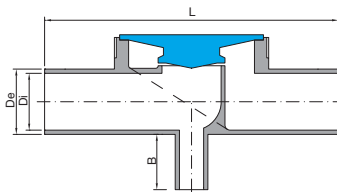
Part list

ASTM A270 - TRI-CLAMP	ASTM A270 - BUTT WELD	N°	Name	Material
		1	Body	AISI 316L
		2	Cover	AISI 316L
		3	Ring	AISI 316L
		4	Handle	PTFE + AISI 316L
		5	Connecting Rod	OT58
		6	Special Screw	AISI 304
		7	Diaphragm	PTFE + AISI 316L or GUAFLON + AISI 316L
		8	O-Ring	FPM/FKM
		9	Special Washer	AISI 304



ASTM A270 - Tri-Clamp

Size	Ø A	Ø Di	L	B	Valve Material	Diaphragm Material	Code
1/2"	25	9,40	88,90	21,50	1.4404	PTFE - FDA	061D60050PTF
						PTFE - USP 121	061D60050PT121
						GUAFLON	061D60050GU
3/4"	25	15,75	101,60	21,50	1.4404	PTFE - FDA	061D60075PTF
						PTFE - USP 121	061D60075PT121
						GUAFLON	061D60075GU
1"	50,40	22,10	114,30	21,50	1.4404	PTFE - FDA	061D60100PTF
						PTFE - USP 121	061D60100PT121
						GUAFLON	061D60100GU
1.1/2"	50,40	34,80	139,70	21,50	1.4404	PTFE - FDA	061D60150PTF
						PTFE - USP 121	061D60150PT121
						GUAFLON	061D60150GU
2"	63,90	47,50	171,00	21,50	1.4404	PTFE - FDA	061D60200PTF
						PTFE - USP 121	061D60200PT121
						GUAFLON	061D60200GU
2.1/2"	77,40	60,20	222,00	21,50	1.4404	PTFE - FDA	061D60250PTF
						PTFE - USP 121	061D60250PT121
						GUAFLON	061D60250GU



ASTM A270 - Butt Weld

Size	Ø De	Ø Di	L	B	Valve Material	Diaphragm Material	Code
1/2"	12,70	9,40	88,90	21,50	1.4404	PTFE - FDA	061DW60050PTF
						PTFE - USP 121	061DW60050PT121
						GUAFLON	061DW60050GU
3/4"	19,05	15,75	101,60	21,50	1.4404	PTFE - FDA	061DW60075PTF
						PTFE - USP 121	061DW60075PT121
						GUAFLON	061DW60075GU
1"	25,40	22,10	114,30	21,50	1.4404	PTFE - FDA	061DW60100PTF
						PTFE - USP 121	061DW60100PT121
						GUAFLON	061DW60100GU
1.1/2"	38,10	34,80	139,70	21,50	1.4404	PTFE - FDA	061DW60150PTF
						PTFE - USP 121	061DW60150PT121
						GUAFLON	061DW60150GU
2"	50,80	47,50	171,00	21,50	1.4404	PTFE - FDA	061DW60200PTF
						PTFE - USP 121	061DW60200PT121
						GUAFLON	061DW60200GU
2.1/2"	63,50	60,20	222,00	21,50	1.4404	PTFE - FDA	061DW60250PTF
						PTFE - USP 121	061DW60250PT121
						GUAFLON	061DW60250GU

Int. finishing: **Ra ≤ 0,4 µm**
Ext. finishing: **Ra ≤ 0,8 µm Mirror Polished**

Max Working Conditions:
10 bar (150 psi) and 150°C (300°F)

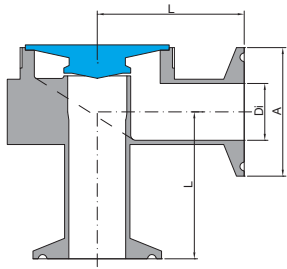
Installation:
Horizontal installation recommended

Part list

ASTM A270 - TRI-CLAMP	ASTM A270 - BUTT WELD	N°	Name	Material
		1	Body	AISI 316L
		2	Cover	AISI 316L
		3	Ring	AISI 316L
		4	Handle	PTFE + AISI 316L
		5	Connecting Rod	OT58
		6	Special Screw	AISI 304
		7	Diaphragm	PTFE + AISI 316L or GUAFLON + AISI 316L
		8	O-Ring	FPM/FKM
		9	Special Washer	AISI 304

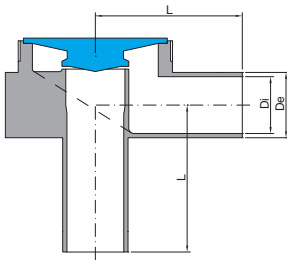


ASTM A270 - Tri-Clamp



Size	Ø A	Ø Di	L	Valve Material	Diaphragm Material	Code
1/2"	25	9,40	44,45	1.4404	PTFE - FDA	061G60050PTF
					PTFE - USP 121	061G60050PT121
					GUAFLON	061G60050GU
3/4"	25	15,75	50,80	1.4404	PTFE - FDA	061G60075PTF
					PTFE - USP 121	061G60075PT121
					GUAFLON	061G60075GU
1"	50,40	22,10	57,15	1.4404	PTFE - FDA	061G60100PTF
					PTFE - USP 121	061G60100PT121
					GUAFLON	061G60100GU
1.1/2"	50,40	34,80	69,85	1.4404	PTFE - FDA	061G60150PTF
					PTFE - USP 121	061G60150PT121
					GUAFLON	061G60150GU
2"	63,90	47,50	85,50	1.4404	PTFE - FDA	061G60200PTF
					PTFE - USP 121	061G60200PT121
					GUAFLON	061G60200GU
2.1/2"	77,40	60,20	111,00	1.4404	PTFE - FDA	061G60250PTF
					PTFE - USP 121	061G60250PT121
					GUAFLON	061G60250GU

ASTM A270 - Butt Weld



Size	Ø De	Ø Di	L	Valve Material	Diaphragm Material	Code
1/2"	12,70	9,40	44,45	1.4404	PTFE - FDA	061GW60050PTF
					PTFE - USP 121	061GW60050PT121
					GUAFLON	061GW60050GU
3/4"	19,05	15,75	50,80	1.4404	PTFE - FDA	061GW60075PTF
					PTFE - USP 121	061GW60075PT121
					GUAFLON	061GW60075GU
1"	25,40	22,10	57,15	1.4404	PTFE - FDA	061GW60100PTF
					PTFE - USP 121	061GW60100PT121
					GUAFLON	061GW60100GU
1.1/2"	38,10	34,80	69,85	1.4404	PTFE - FDA	061GW60150PTF
					PTFE - USP 121	061GW60150PT121
					GUAFLON	061GW60150GU
2"	50,80	47,50	85,50	1.4404	PTFE - FDA	061GW60200PTF
					PTFE - USP 121	061GW60200PT121
					GUAFLON	061GW60200GU
2.1/2"	63,50	60,20	111,00	1.4404	PTFE - FDA	061GW60250PTF
					PTFE - USP 121	061GW60250PT121
					GUAFLON	061GW60250GU

Int. finishing: **Ra ≤ 0,4 µm**
Ext. finishing: **Ra ≤ 0,8 µm Mirror Polished**

Max Working Conditions:
10 bar (150 psi) and 150°C (300°F)

Installation:
Vertical or horizontal installation

Part list

ASTM A270 - TRI-CLAMP	ASTM A270 - BUTT WELD	N°	Name	Material
		1	Body	AISI 316L
		2	Cover	AISI 316L
		3	Ring	AISI 316L
		4	Handle	PTFE + AISI 316L
		5	Connecting Rod	OT58
		6	Special Screw	AISI 304
		7	Diaphragm	PTFE + AISI 316L or GUAFLON + AISI 316L
		8	O-Ring	FPM/FKM
		9	Special Washer	AISI 304



N°	Description	Valve size	Code
2	Cover - n° 1 pcs	1/2"	0616005002
		3/4"	0616007502
		1"	0616010002
		1.1/2"	0616015002
		2"	0616020002
		2.1/2"	0616025002
3	Ring - n° 1 pcs	1/2"	0616005003
		3/4"	0616007503
		1"	0616010003
		1.1/2"	0616015003
		2"	0616020003
		2.1/2"	0616025003
4	Handle - n° 1 pcs	1/2"	0616005004PTF
		3/4"	0616007504PTF
		1"	0616010004PTF
		1.1/2"	0616015004PTF
		2"	0616020004PTF
		2.1/2"	0616025004PTF
5	Connecting Rod - n° 1 pcs	1/2"	061X005005
		3/4"	061X007505
		1"	061X010005
		1.1/2"	061X015005
		2"	061X020005
		2.1/2"	061X025005
6	Special Screw - n° 2 pcs	1/2"	0614005006
		3/4"	0614007506
		1"	0614010006
		1.1/2"	0614015006
		2"	0614020006
		2.1/2"	0614025006

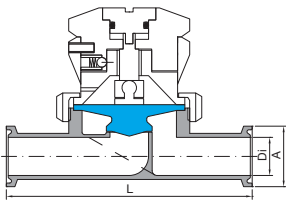
N°	Description	Valve size	Code
7	PTFE FDA Diaphragm - n° 1 pcs	1/2"	0616005007PTF
		3/4"	0616007507PTF
		1"	0616010007PTF
		1.1/2"	0616015007PTF
		2"	0616020007PTF
		2.1/2"	0616025007PTF
7	PTFE USP 121° Diaphragm - n° 1 pcs	1/2"	0616005007PT121
		3/4"	0616007507PT121
		1"	0616010007PT121
		1.1/2"	0616015007PT121
		2"	0616020007PT121
		2.1/2"	0616025007PT121
7	GUAFLON Diaphragm - n° 1 pcs	1/2"	0616005007GU
		3/4"	0616007507GU
		1"	0616010007GU
		1.1/2"	0616015007GU
		2"	0616020007GU
		2.1/2"	0616025007GU
8	O-Ring - n° 5 pcs	1/2"	061X005008V
		3/4"	061X007508V
		1"	061X010008V
		1.1/2"	061X015008V
		2"	061X020008V
		2.1/2"	061X025008V
9	Special Washer - n° 2 pcs	1/2"	0614005009
		3/4"	0614007509
		1"	0614010009
		1.1/2"	0614015009
		2"	0614020009
		2.1/2"	0614025009

Part list

ASTM A270 - TRI-CLAMP	ASTM A270 - BUTT WELD	N°	Name	Material
		1	Body	AISI 316L
		2	Cover	AISI 316L
		3	Ring	AISI 316L
		4	Handle	PTFE + AISI 316L
		5	Connecting Rod	OT58
		6	Special Screw	AISI 304
		7	Diaphragm	PTFE + AISI 316L or GUAFLON + AISI 316L
		8	O-Ring	FPM/FKM
		9	Special Washer	AISI 304

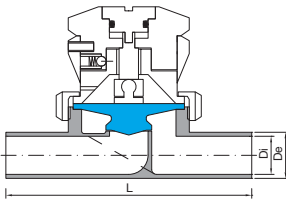


ASTM A270 - Tri-Clamp



Size	Ø A	Ø Di	L	Valve Material	Diaphragm Material	Code
1/2"	25	9,40	88,90	1.4404	PTFE - FDA	061H60050PTF
					PTFE - USP 121	061H60050PT121
3/4"	25	15,75	101,60	1.4404	PTFE - FDA	061H60075PTF
					PTFE - USP 121	061H60075PT121

ASTM A270 - Butt Weld



Size	Ø De	Ø Di	L	Valve Material	Diaphragm Material	Code
1/2"	12,70	9,40	88,90	1.4404	PTFE - FDA	061HW60050PTF
					PTFE - USP 121	061HW60050PT121
3/4"	19,05	15,75	101,60	1.4404	PTFE - FDA	061HW60075PTF
					PTFE - USP 121	061HW60075PT121

Int. finishing: **Ra ≤ 0,4 µm**
Ext. finishing: **Ra ≤ 0,8 µm Mirror Polished**

Max Working Conditions:
10 bar (150 psi) and 150°C (300°F)

Installation:
Vertical installation recommended

Part list

ASTM A270 - TRI-CLAMP	ASTM A270 - BUTT WELD	N°	Name	Material
		1	Way Body	AISI 316L
		2	Cover with adjustable regulator	AISI 316L
		3	Ring	AISI 316L
		4	Handle	AISI 316L
		5	Connecting Rod	OT-58
		6	Special Screw	AISI 304
		7	Diaphragm	PTFE + AISI 316L
		8	O-Ring	FPM/FKM



N°	Description	Valve size	Code
3	Ring - n° 1 pcs	1/2"	0616H005003
		3/4"	0616H007503
5	Connecting Rod - n° 1 pcs	1/2"	061XH005005
		3/4"	061XH007505
7	PTFE FDA Diaphragm - n° 1 pcs	1/2"	0616H005007PTF
		3/4"	0616H007507PTF
7	PTFE USP 121° Diaphragm - n° 1 pcs	1/2"	0616H005007P121
		3/4"	0616H007507P121
8	O-Ring - n° 5 pcs	1/2"	061H005008V
		3/4"	061H007508V

Part list

ASTM A270 - TRI-CLAMP	ASTM A270 - BUTT WELD	N°	Name	Material
		1	Way Body	AISI 316L
		2	Cover with adjustable regulator	AISI 316L
		3	Ring	AISI 316L
		4	Handle	AISI 316L
		5	Connecting Rod	OT-58
		6	Special Screw	AISI 304
		7	Diaphragm	PTFE + AISI 316L
		8	O-Ring	FPM/FKM