

In all shapes sizes and standards

Alfa Laval installation material

Application

Alfa Laval installation material are suitable for a wide range of sanitary applications within the food, dairy, beverage, personal care and pharma industries. Alfa Laval installation material are available for all main tube standards.



Pressure limits for Alfa Laval installation material

Products	Standard	Max pressure at 80°C *	Max pressure at 200°C**
Unions with Nut	SMS	25 bar	15 bar
	DIN	25 bar	15 bar
	DS	25 bar	15 bar
	BS	25 bar	15 bar
	IDF	25 bar	15 bar
Unions with Clamps	Tri-Clamp	25 bar	15 bar
	AL - Heavy duty	25 bar	15 bar
	JIS	25 bar	15 bar
Bends	ISO	25 bar	15 bar
	DIN	25 bar	15 bar
	SWG	25 bar	15 bar
	ASME BPE	25 bar	15 bar
Tees	ISO	25 bar	15 bar
	DIN	25 bar	15 bar
	SWG	25 bar	15 bar
	ASME BPE	25 bar	15 bar
Reducers	ISO	25 bar	15 bar
	DIN	25 bar	15 bar
	SWG	25 bar	15 bar
	ASME BPE	25 bar	15 bar

Note* Please note, that the table values are approx. 1/3 of the test results achieved where the test parts did not suffer any permanent deformation.

Note** The values have been corrected according to the reduced material strength at increased temperature.

Surface specification Alfa Laval tubes

Code	Type		Finish
BC*	The tubes are annealed	Inside	Pickled or bright annealed, Type of production is k2g, k3g, i1g or i2g, Produced according to DIN 17457 with an average surface of Ra < 0,8 and in the welding area Ra < 1,6
		Outside	Pickled, produced according to k1 DIN 17457
BD*	The tubes are annealed	Inside	Pickled or bright annealed, Type of production is k2g, k3g i1g or i2g, Produced according to DIN 17457 with an average surface of Ra < 0,8 and in the welding area Ra < 1,6
		Outside	Polished to Ra < 1,0
CC*	The tubes are not annealed	Inside	Pickled, Type of production is k1g, Produced according to DIN 17457 with an average surface of Ra < 0,8 and in the welding area Ra < 1,6
		Outside	Pickled, produced according to k1DIN 17457
CD*	The tubes are not annealed	Inside	Pickled, Type of production is k1g, Produced according to DIN 17457 with an average surface of Ra < 0,8 and in the welding area Ra < 1,6
		Outside	Polished to Ra < 1,0
PL**	The tubes are annealed	Inside	Produced according to ASME BPE , mechanical polished to Ra< 0,5
		Outside	Produced according to ASME BPE , mechanical polished to Ra< 0,8
PM**	The tubes are annealed	Inside	Produced according to ASME BPE , Electro polished to Ra< 0,4
		Outside	Produced according to ASME BPE , mechanical polished to Ra< 0,8
H4oDF1	The tubes are annealed and with a ferrite contents < 0,5%	Inside	Produced according to DIN 11866, mechanical polished to Ra< 0,4
		Outside	Produced according to DIN 11866, mechanical polished to Ra< 0,8
H4oDF3	The tubes are annealed and with a ferrite contents < 3,0%	Inside	Produced according to DIN 11866, mechanical polished to Ra< 0,4
		Outside	Produced according to DIN 11866, mechanical polished to Ra< 0,8
H3oDF1	The tubes are annealed and with a ferrite contents < 0,5%	Inside	Produced according to DIN 11866, mechanical polished to Ra< 0,8
		Outside	Produced according to DIN 11866, mechanical polished to Ra< 0,8

* reference DIN 11850

Surface specification Alfa Laval installation material ISO, DIN, BS 4825, ASME BPE

Product	Surface	Description	Finish
Unions	Semi bright	Inside	The surface is a machined finished with a average surface on Ra < 0,8
	Semi bright	Outside	The surface is machined finished, with an average Ra max. 1,2
Unions	Mat	Inside	Shot blasted after machining Ra < 1.6
	Mat	Outside	Shot blasted after machining Ra < 1.6
Bends	Raw	Inside	Not treated inside, average surface Ra < 0,8
	Polished	Outside	Manually polished surface Ra < 1,0
Bends	Semi bright	Inside	Tumbled surface with an average surface Ra < 0,8
	Semi bright	Outside	Tumbled surface with an average surface Ra < 0,8
Bends	Mat	Inside	Shot blasted after machining Ra < 1.6
	Mat	Outside	Shot blasted after machining Ra < 1.6
Tees	Polished	Inside	Manually polished surface Ra < 0,8
	Polished	Outside	Manually polished surface Ra < 0,8
Tees	Mat	Inside	Shot blasted after machining Ra < 1.6
	Mat	Outside	Shot blasted after machining Ra < 1.6
Reducers	Mat	Inside	Shot blasted after machining Ra < 1.6
	Mat	Outside	Shot blasted after machining Ra < 1.6
Reducers	Raw	Inside	Standard tumbled surface with an average surface Ra < 0,8
	Semi bright	Outside	Tumbled surface with an average surface Ra < 0,8

Surface specification Alfa Laval installation material Tri-Clover F&D, HighClean and Pharma DIN 11866 Range A, Range B and Range C and Tri-Clover Pharma

Product	Surface	Description	Finish
Tri-Clover F&D	Standard	Inside	Surface = Ra < 0,8 guaranteed
	Standard	Outside	Surface = Ra < 0,8 guaranteed
Highclean	Standard	Inside	Surface = Ra < 0,8, except in the bending area.
	Standard	Outside	Surface = Ra < 0,8, except in the bending area.
Highclean	H30*	Inside	Surface = Ra < 0,8 guaranteed
	H30*	Outside	Surface = Ra < 0,8 guaranteed
Pharma	H40*	Inside	Surface = Ra < 0,4
	H40*	Outside	Surface = Ra < 0,8
Tri-Clover	PL	Inside	Surface = Ra < 0,5
	PL	Outside	Surface = Ra < 0,8
Tri-Clover	PM	Inside	Surface = Ra < 0,4 Electro polished
	PM	Outside	Surface = Ra < 0,8
Tri-Clover	PC	Inside	Surface = Ra < 0,5
	PC	Outside	No treatment of the standard tubes

Note! All tests are done in Alfa Laval's own laboratory