



Steam-Flon[®]

Material

Ultrapharma has developed the material "Steam-Flon®" for sanitary gaskets and some other innovative products. This material is a unique blend of non-pigmented PTFE and 316L stainless steel powder. The mechanical properties of this compound are very interesting because it eliminates the cold flow problems we experience with, for example, virgin PTFE. Cold flow is the term we use for movement of plastic under permanent load/stress, a state that is used with static seals. Cold flow increases at elevated temperatures. Material of the gasket is slowly moving towards the inside of the fitting and creates a beat. This beat leads to flow restriction and is a potential area for particles/bacterial entrapment. The Steam-Flon® material takes the cold flow out of the equation, creating a very stable seal with no leaks even at large temperature fluctuations.

DIN32676 & ISO1127 (DIN32676 Series A, B, C)

Steam-Flon® Biological Compliance:

Material: PTFE/316L Compound number CMD-1019

Colour: Brownish

Temperature range -212°C to 288°C

Meets: USP Class VI-121°C

Meets: USP <661>

Meets: EC 10/2011

Meets: FDA CFR 177.1550

Steam-Flon® is a registered trademark of Ultrapharma BV

Application

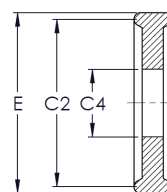
As the name Steam-Flon® suggests this product is the ultimate gasket to be used in steam applications.

Photo below shows some of our Removable Steam-Flon® products.

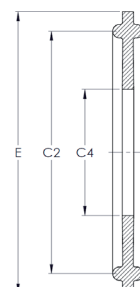


Available sizes

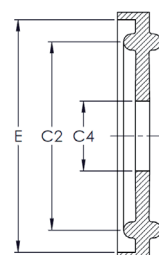
DIN 32676 Serie A	DIN 32676 Serie B	DIN 32676 Serie C	ISO 2852		Type				
DIN 32676	ISO 1127	ASME-BPE	SMS 3017	BS 4825		E	C4	C2	REC. TORQUE
		1/4" *			MINI	22	4	20,2	1,5 Nm
DN10		3/8"			MINI	22	8	20,2	1,5 Nm
		1/2"		1/2"	MINI	22	9,6	20,2	1,5 Nm
DN12			DN12		MINI	22	10	20,2	1,5 Nm
DN14					MINI	22	12	20,2	1,5 Nm
DN16	DN10				MINI	22	14	20,2	1,5 Nm
DN18		3/4"	DN18	3/4"	MINI	22	16	20,2	1,5 Nm
DN08 *					TYPE-II	34	8	27,5	2,5 Nm
DN10					TYPE-II	34	10	27,5	2,5 Nm
	DN08				TYPE-II	34	10,3	27,5	2,5 Nm
	DN10				TYPE-II	34	14	27,5	2,5 Nm
DN15					TYPE-II	34	16	27,5	2,5 Nm
	DN15				TYPE-II	34	18,1	27,5	2,5 Nm
DN20					TYPE-II	34	20	27,5	2,5 Nm
DN10 *					TYPE-II	50,5	10	43,5	4 Nm
DN15 *					TYPE-II	50,5	16	43,5	4 Nm
	DN15				TYPE-II	50,5	18,1	43,5	4 Nm
DN20 *					TYPE-II	50,5	20	43,5	4 Nm
		1"		1"	TYPE-I&III	50,5	22,2	43,5	2 Nm
			DN25 *		TYPE-II	50,5	22,8	43,5	4 Nm
	DN20				TYPE-II	50,5	23,7	43,5	4 Nm
DN25					TYPE-II	50,5	26	43,5	4 Nm
	DN25				TYPE-II	50,5	29,7	43,5	4 Nm
			DN33,7 *		TYPE-II	50,5	31,5	43,5	4 Nm
DN32					TYPE-II	50,5	32	43,5	4 Nm
		1,5"		1,5"	TYPE-I&III	50,5	35	43,5	2 Nm
			DN38 *		TYPE-II	50,5	35,8	43,5	4 Nm
DN40					TYPE-II	50,5	38	43,5	4 Nm
	DN32				TYPE-II	50,5	38,4	43,5	4 Nm
	DN32				TYPE-II	64	38,4	56,5	6 Nm
	DN40				TYPE-II	64	44,3	56,5	6 Nm
		2"		2"	TYPE-I&III	64	47,6	56,5	4 Nm
			DN51 *		TYPE-II	64	48,8	56,5	6 Nm
DN50					TYPE-II	64	50	56,5	6 Nm
	DN50				TYPE-II	77,5	56,3	70,5	6 Nm
		2,5"		2,5"	TYPE-I&III	77,5	60,3	70,5	6 Nm
			DN63,5 *		TYPE-I	77,5	60,5	70,5	6 Nm
DN65	DN80				TYPE-II	106	85,1	97	6 Nm
					TYPE-II	91	66	83,5	12 Nm
	DN65				TYPE-II	91	72,1	83,5	12 Nm
		3"		3"	TYPE-I&III	91	72,9	83,5	12 Nm
			DN76,1 *		TYPE-I	91	73,1	83,5	12 Nm
DN80					TYPE-II	106	81	97	16 Nm
	DN80				TYPE-II	106	84,3	97	16 Nm
			DN88,9 *		TYPE-II	106	85,1	97	16 Nm
		4"		4"	TYPE-I&III	119	97,4	110	18 Nm
			DN101,6 *		TYPE-I	119	97,8	110	18 Nm
DN100					TYPE-II	119	100	110	18 Nm
DN115	DN100	4,5"	DN114,3	4,5"	TYPE-II	130	110,3	122	> 18 Nm
DN125 *					TYPE-II	155	125	146	> 18 Nm
	DN125 *				TYPE-II	155	134,5	146	> 18 Nm
			DN139,7 *		TYPE-II	155	135,9	146	> 18 Nm
		6"			TYPE-I&III	167	146,9	156,5	> 18 Nm
DN150					TYPE-II	183	150	174	> 18 Nm
	DN150		DN168,3	6,6"	TYPE-II	183	163,2	174	> 18 Nm
		8" *			TYPE-I&III	217,4	197,7	207	> 18 Nm
DN200					TYPE-II	233,5	200	225	> 18 Nm
	DN200		DN219,1	8,6"	TYPE-II	233,5	213,9	225	> 18 Nm
		10" *			TYPE-I&III	268	247,2	257,8	> 18 Nm
DN250 *					TYPE-II	268	250	257,8	> 18 Nm
	DN250 *			10,6" *	TYPE-II	286	267,8	276	> 18 Nm
		12" *			TYPE-I&III	319	298	308,6	> 18 Nm
DN300 *					TYPE-II	319	300	308,6	> 18 Nm
	DN300 *				TYPE-II	338	318,7	328	> 18 Nm



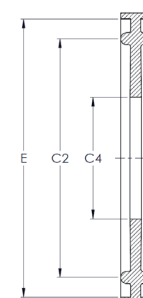
MINI



Type-I



Type-II



Type-III

Recommended Torque

The Steam-Flon® gasket last longer if the correct torque is applied. Over-compression is disastrous for each gasket material, even for Steam-Flon®. We recommend to use the torque guideline as shown in the last column in the table on page 3. We came to these recommendations after testing our gaskets at 10 bar water pressure.

Type-III

The Steam-Flon® material is a relatively hard material and can therefore cause problems with sealing when misalignment of pipelines is eminent.

We are therefore introducing a solution to fix the misalignment issue and therewith improve the sealing ability at lower torque levels. The Steam-Flon® Type-III gasket has not one, but two lips: one on either side.

So whereas the Type I unlipped competition gasket allows for large side way movement of the ferrules, making the misalignment even more imminent, the Type-III gasket doesn't allow for any leeway and therefore creates the ultimate condition for a perfect seal. The new Steam-Flon® Type-III gasket seals 10 bar pressure at approximately half the torque level of standard Type-I seals in larger diameters.



 **Steam-Flon®**

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