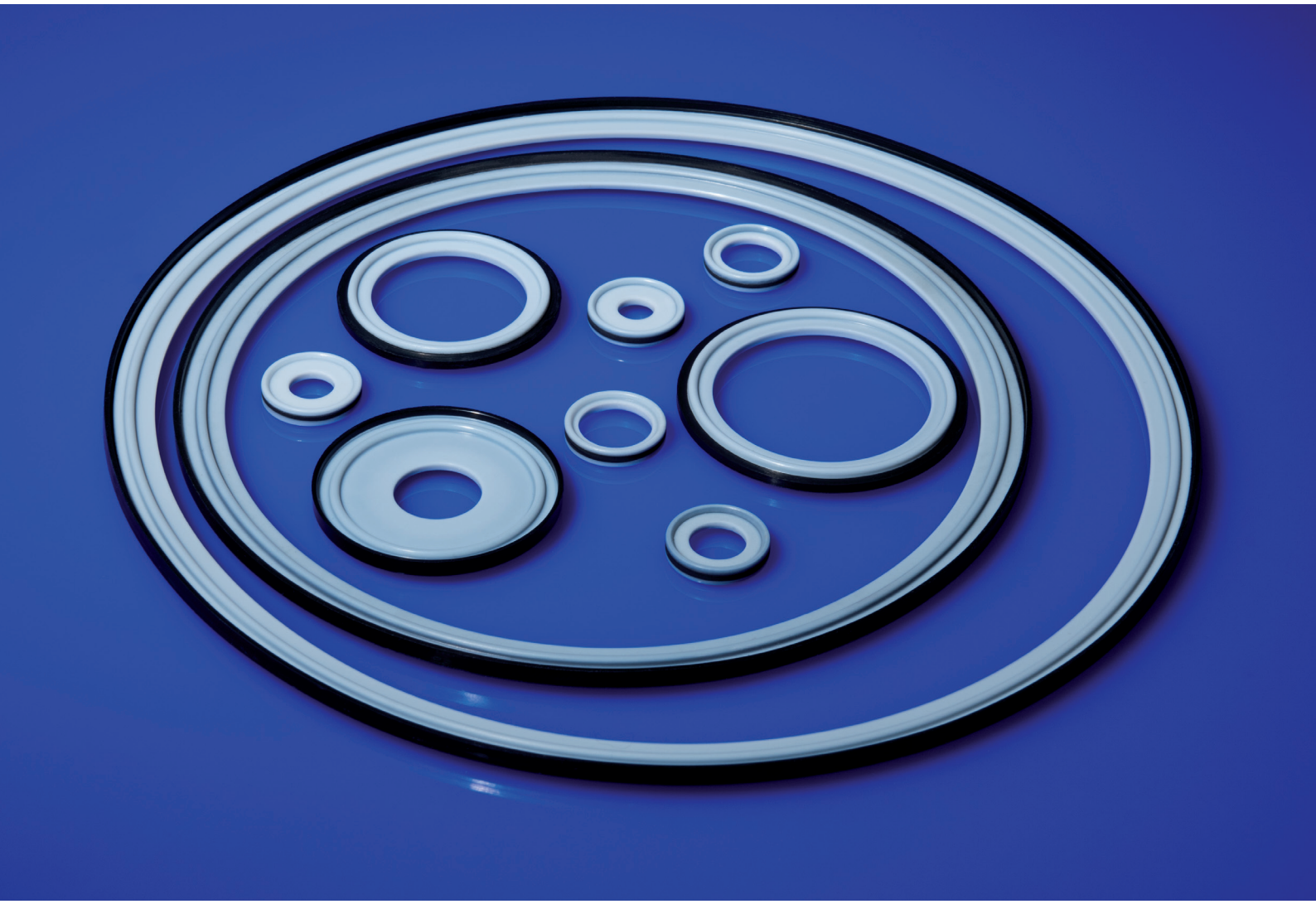
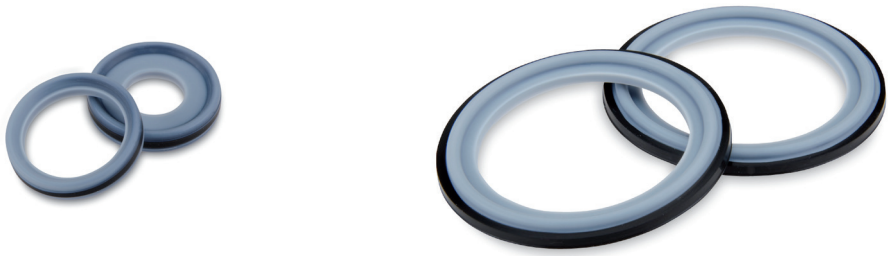
Ultrapharma bv





Tri-Bond®

Tri-Bond®

Material

Elastomer gaskets are known for their superb sealing capability but are more susceptible to chemicals. PTFE is chemically inert but is a difficult material when it comes to sealing. The best characteristics of both materials are brought together in the Tri-Bond® gasket.
The thin PTFE lining on the outside is taking care of the chemical resistance of the gasket while the flexible elastomer inside covers its sealing capabilities. The combination of these features makes this the ultimate pharmaceutical gasket.

Tri-Bond® is available in the following standards:

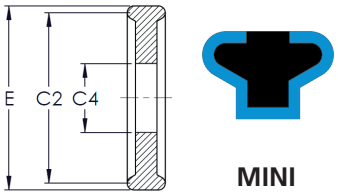
DIN32676 Serie A	type-II
DIN32676 Serie B (ISO1127)	type-II
DIN32676 Serie C (ASME- BPE)	type-I
SMS3017 (under development)	

Tri-Bond® versions:
Material: PTFE/FKM Compound number CMD-1020
Temperature range -30°C to 175°C
Material: PTFE/EPDM Compound number CMD-1021
Temperature range -30°C to 150°C
Colour: White /Black

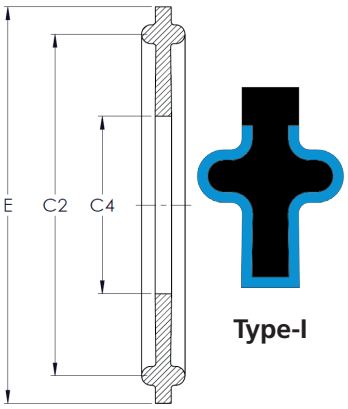
Tri-Bond® Biological Compliance:
Meets: USP Class VI-121°C
Meets: USP <661>
Meets: EC 10/2011
Meets: FDA CFR 177.1550
Certified TSE/BSE free (EME/410/01)

Available sizes

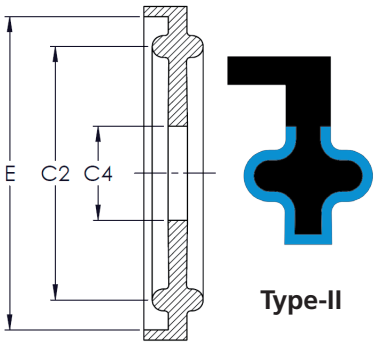
DIN 32676 Serie A	DIN 32676 Serie B	DIN 32676 Serie C	ISO 2852		Type				
DIN 32676	ISO 1127	ASME-BPE	SMS 3017	BS 4825		E	C4	C2	Rec. Torque
		1/4" *			MINI	22	5,1	20,2	1,5 Nm
DN10		3/8"			MINI	22	8,2	20,2	1,5 Nm
		1/2"		1/2"	MINI	22	10,1	20,2	1,5 Nm
DN12			DN12		MINI	22	10,2	20,2	1,5 Nm
DN14					MINI	22	12,2	20,2	1,5 Nm
DN16	DN10				MINI	22	14,2	20,2	1,5 Nm
DN18		3/4"	DN18	3/4"	MINI	22	16,2	20,2	1,5 Nm
DN08 *					TYPE-II	34	8,2	27,5	2 Nm
DN10					TYPE-II	34	10,2	27,5	2 Nm
	DN08				TYPE-II	34	10,5	27,5	2 Nm
	DN10				TYPE-II	34	14,2	27,5	2 Nm
DN15					TYPE-II	34	16,2	27,5	2 Nm
	DN15				TYPE-II	34	18,4	27,5	2 Nm
DN20					TYPE-II	34	20,2	27,5	2 Nm
DN10 *					TYPE-II	50,5	10,3	43,5	2 Nm
DN15 *					TYPE-II	50,5	16,2	43,5	2 Nm
	DN15				TYPE-II	50,5	18,4	43,5	2 Nm
DN20 *					TYPE-II	50,5	20,2	43,5	2 Nm
		1"		1"	TYPE-I	50,5	22,5	43,5	2 Nm
			DN25 *		TYPE-II	50,5	23	43,5	2 Nm
	DN20				TYPE-II	50,5	23,9	43,5	2 Nm
DN25					TYPE-II	50,5	26,2	43,5	2 Nm
	DN25				TYPE-II	50,5	29,9	43,5	2 Nm
			DN33,7 *		TYPE-II	50,5	31,7	43,5	2 Nm
DN32					TYPE-II	50,5	32,2	43,5	2 Nm
		1.5"		1,5"	TYPE-I	50,5	35,3	43,5	2 Nm
			DN38 *		TYPE-II	50,5	36	43,5	2 Nm
DN40					TYPE-II	50,5	38,2	43,5	2 Nm
	DN32				TYPE-II	50,5	38,6	43,5	2 Nm
	DN32				TYPE-II	64	38,6	56,5	3 Nm
	DN40				TYPE-II	64	44,5	56,5	3 Nm
		2"		2"	TYPE-I	64	47,8	56,5	3 Nm
			DN51 *		TYPE-II	64	49	56,5	3 Nm
DN50					TYPE-II	64	50,2	56,5	3 Nm
	DN50				TYPE-II	77,5	56,5	70,5	4 Nm
		2,5"		2,5"	TYPE-I	77,5	60,5	70,5	4 Nm
			DN63,5 *		TYPE-I	77,5	60,7	70,5	4 Nm
DN65					TYPE-II	91	66,2	83,5	4 Nm
	DN65				TYPE-II	91	72,3	83,5	4 Nm
		3"		3"	TYPE-I	91	72,5	83,5	4 Nm
			DN76,1 *		TYPE-I	91	73,3	83,5	4 Nm
DN80					TYPE-II	106	81,2	97	6 Nm
	DN80				TYPE-II	106	85,1	97	6 Nm
			DN88,9 *		TYPE-II	106	85,3	97	6 Nm
		4"		4"	TYPE-I	119	97,6	110	8 Nm
			DN101,6 *		TYPE-I	119	98	110	8 Nm
DN100					TYPE-II	119	100,2	110	8 Nm
DN115	DN100	4.5"	DN114,3	4,5"	TYPE-II	130	110,5	122	> 12 Nm
DN125 *					TYPE-II	155	125,4	146	> 12 Nm
	DN125 *				TYPE-II	155	134,7	146	> 12 Nm
			DN139,7 *		TYPE-II	155	135,9	146	> 12 Nm
		6"			TYPE-I	167	147,1	156,5	> 12 Nm
DN150					TYPE-II	183	150,4	174	> 12 Nm
	DN150		DN168,3	6,6"	TYPE-II	183	163,4	174	> 12 Nm
		8" *			TYPE-I	217,4	198	207	> 12 Nm
DN200					TYPE-II	233,5	200,2	225	> 12 Nm
	DN200		DN219,1	8,6"	TYPE-II	233,5	214,3	225	> 12 Nm
		10" *			TYPE-I	268	247,4	257,8	> 12 Nm
DN250 *					TYPE-II	268	250,2	257,8	> 12 Nm
	DN250 *				TYPE-II	286	268	276	> 12 Nm
				10,6" *	TYPE-II	286	268	276	> 12 Nm
		12" *			TYPE-I	319	298,2	308,6	> 12 Nm
DN300 *					TYPE-II	319	300,2	308,6	> 12 Nm
	DN300 *				TYPE-II	338	318,9	328	> 12 Nm



MINI



Type-I



Type-II

Not all larger sizes are available yet, contact us for details.

Recommended Torque

The Tri-Bond® gasket lasts longer if the correct torque is applied. Over-compression is disastrous for each gasket material, therefore also for Tri-Bond®. 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 liquid pressure.

Important note: After one steam cycle the gasket settles. As this might cause a leak, simply re-torque with the same value as recommended.

Tri-Bond®

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