

Providing our customers with a quality product has always been an integral part of how ITT does business. Building on this commitment your Authorized Distributor of ITT Pure-Flo valves is proud to offer genuine ITT service parts.

Keeping your process valves in good operating condition is critical in the regulated world of drug manufacturing. Don't risk your high value product because of a poorly maintained valve. A small investment in preventative maintenance will pay many returns in uptime and trouble free operation.

All ITT service parts meet our strict quality standards. Authentic ITT service parts are identical to those used in our valve production, giving you peace of mind that the part you receive will be equal to the part you are replacing.

Authentic ITT Replacement Parts

ITT service parts are designed and engineered to maintain the quality of ITT Pure-Flo valves. ITT and its distributor network make performance, inventory and service commitments to you. We understand how downtime for your equipment costs you money in lost productivity and disrupted schedules.

Authentic ITT Diaphragms

Replace the diaphragm in your ITT hygienic diaphragm valve with imitation diaphragms and you might risk more than you thought. Only one diaphragm is specifically designed and manufactured to deliver the performance you demand from your ITT valve. With an ITT diaphragm valve you get compliance with FDA, USP, and ASME BPE requirements, a design that creates a tight repeatable seal, and materials that protect your process and are completely traceable. And just as importantly, you have a valve that provides essential pressure containment protecting your plant and your people.

Critical Spares

While Pure-Flo products are designed for high reliability, nothing lasts forever. A local stock of critical spares on-site to minimize the risk of



equipment downtime should be maintained. Spare manual and actuated bonnets can prevent hours or days of lost production. Pure-Flo distributors are trained to provide assistance in developing a balanced spares inventory that meets your inventory model.

Autoclave Rebuild Kits

Autoclave applications in the Biopharm industry are common. Frequent autoclave cycles should be considered severe service for any valve. ITT uses the highest quality engineered plastics to assure long service life. However, eventually all plastic components will see signs of thermal aging. Regular assessment and replacement of components will assure consistent performance over time. ITT has assembled convenient kits to make rebuilding your 963 and 970 manual bonnets easy.

Gall Resistant Fasteners

Frequent assembly and disassembly will wear standard fasteners over time, which greatly affects the torque values applied to the valve. Thread friction accounts for approximately 45% of the torque values in a fastened joint. So the condition of your valve fasteners is extremely critical for providing leak free operation. To extend the life of valve fasteners that see frequent thermal cycling ITT has introduced gall resistant fasteners. These fasteners have been specially heat treated to reduce thread friction and increase gall resistance, greatly increasing the service life of the valve fasteners. Gall resistant fasteners will save the maintenance department countless hours. Gall resistant fasteners are a good choice around bioreactors and autoclave applications.

Diaphragms

Diaphragm Selection

Diaphragm Type		Compliance				Temperature	
Grade	Material	FDA	USDA	3A	USP	°F	°C
B	Black Butyl Rubber	x	x			-20-250	-29-121
17	EPDM ¹	x			x	-4-194 ²	-20-90 ²
17HP	EPDM ¹	x			x	-4-194 ²	-20-90 ²
P	Buna N	x	x	x ³		10-180	-12-82
TM17	PTFE	x		x ⁴	x	-4-329	-20-165
W1	White Butyl Rubber	x	x			0-225	-18-107

¹ For high temperature and/or high cycle applications, contact ITT.

² Temperature range is as follows:

-4-194°F (-20-90°C) for liquid applications

-22-285°F (-30-140°C) for continuous steam

-22-302°F (-30-150°C) for intermittent steam

³ Class III applications

⁴ Class I applications



Pure-Flo® FDA Compliant Diaphragms shown clockwise from top: Buna N Grade P, White Butyl Grade W1, Black Butyl Grade B, Grade 17HP EPDM, Grade 17 EPDM, Grade TM17 PTFE

Replacement Diaphragms (FDA Compliant)

Size (in)	B	P	17	17HP	TM17 PTFE	W1
	Black Butyl	Buna N	EPDM	EPDM High Performance	With Grade 17 EPDM Backing Cushion	White Butyl
Bio-Tek	44418	N.A.	41502	44729	42175	N.A.
0.5	240	35	41281	44730	42176	43160
0.75	4768	4771	41282	44731	42177	43161
1	5974	5972	41283	44732	42178	43162
1.5	672	670	41284	44733	42179	43164
2	893	891	41285	44734	42180	43165
2.5*	1109	1107	42130	44735	42181	43166
3	5976	1260	41286	44736	42182	43167
4	1451	1449	41287	44737	42183	43168
6	1639	1637	43270	45197	42184	43169

Parts Needed to Change to PTFE Diaphragm from Elastomer

Size (in)	Tube Nut	Compressor Pin	Bronze Compressor for 963, 913, ADV & APA ¹	Compressor for 903 ¹	Bronze Compressor for 970
0.5	27543	13861	36271	27521	39798
0.75	27544	29588	36273	27523	39799
1	27545	2487	36275	27526	39800
1.5	27547	2491	36277	27530	39801
2	27548	2491	36279	27534	39802
2.5	27549	2494	27538	27537	N.A.
3	27550	2494	27540	27539	N.A.
4	27550	2496	28630	28629	N.A.

¹ Uses a compressor pin

Parts Needed to Change to EPDM Diaphragm from PTFE

Size (in)	Compressor Pin	Bronze Compressor for 963, 913, ADV & APA ¹	Compressor for 903 ¹	Bronze Compressor for 970
0.5	13861	36261	27903	39793
0.75	29588	36263	6166	39794
1	2487	36265	484	39795
1.5	2491	36267	823	39796
2	2491	36269	1057	39797
2.5	2494	13203	1220	N.A.

¹ Uses a compressor pin

