



Type 10X

Pawling is pleased to introduce the **Type 10X**, our newest series of inflatable seals, clamps, and actuators. The type 10X combines the use of advanced materials with a superior profile design to create a seal (bladder) that functions well under conditions where purity, cleanliness, and reliability are required. Type 10X features include:

- **Improved Sealing (Clamping/Actuating) Surface**

After years of empirical testing coupled with a detailed design of experiments, our Engineers have concluded that a large, continuous sealing surface will effect a better seal when compared to serrated designs. The Type 10X's flat "mesa-shaped" profile is a result of this effort. For clamping and actuating, this design also improves the lbs-force generated as more surface area directly correlates to more force.

- **White, FDA-Compliant, High Performance Silicone**

Our chemists have developed a high quality, white, FDA-compliant*, low outgassing silicone able to withstand the rigors of inflation/deflation cycles. This material, 95C12, has proven to be comparable to other available materials yet adds the white, FDA component that is so important in clean room and/or pharmaceutical (medical) applications.

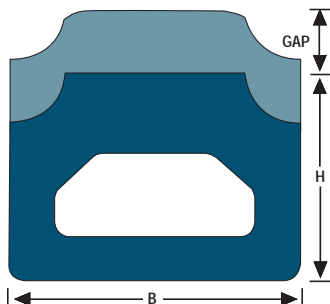
- **Low Outgassing**

Testing to date has shown a 91% improvement in outgassing (total peak area) when compared to our standard silicones and a 98% improvement when compared to other available inflatable profiles. Use of this material decreases the chance of contaminating controlled environments with unwanted chemicals.

- **Easier to Clean**

When strict wash down procedures are required, the Type 10X is easier to clean due to its smooth sealing surface whereas multiple serrations could create contamination issues.

TYPE 10X INFLATABLE PROFILE SERIES

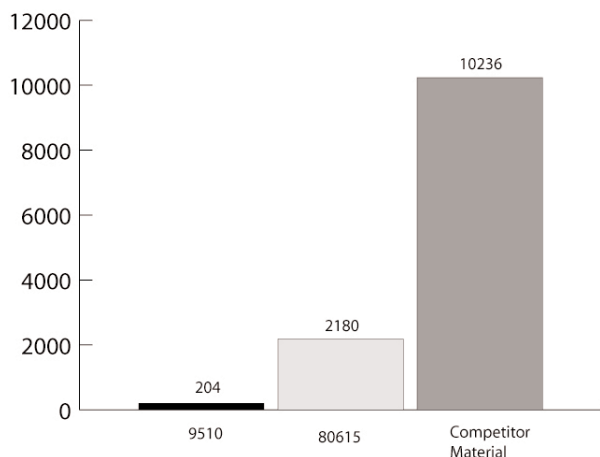


Type	Materials	w	H	Gap	Standard air connections*
PRS991	VMQ	.256 (6.5)	.197 (5)	.059 (1.5)	10, 11, 12, 13
PRS993	95C12	.551 (14)	.394 (10)	.118 (3)	10, 11, 12, 13
PRS995		.630 (16)	.472 (12)	.118 (3)	10, 11, 12, 13
PRS997		.827 (21)	.945 (24)	.197 (5)	10, 11, 12, 13
PRS999		1.378 (35)	1.260 (32)	.394 (10)	10, 11, 12, 13

*Flexible connections terminating with 1/8 NPT fittings are also available.

Outgassing Data

Total Peak Area



Smooth Finish, Excellent Physical Properties, Low Outgassing

A Perfect Choice for Demanding Sealing Applications

Compound	95C12	80615
Specific Gravity	1.178	1.166
Hardness (Shore A)	58	59
Tensile (psi)	1382	1378
Elongation (%)	744	671
100% Modulus (psi)	265	284
Tear Strength, Die C, ppi	282	305
Total Peak Area	204	2180
Cost	\$\$\$	\$\$

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