

Pumpsil Elements

Pumpsil platinum-cured silicone tubing

Features and benefits

- Fully documented biocompatibility and comprehensive validation pack
- Absolute traceability with laser etched part number, lot number and use-by date
- Excellent flow stability for accurate process control
- Comprehensive stock of a wide range of sizes
- Operating temperature -20 °C to 80 °C (-4 °F to 176 °F)



Technical specifications

	Pumpsil Elements
Bore size	0.5 - 25.4 mm (0.02 - 1 in)
Wall thickness	2.4 - 4.8 mm (0.094 - 0.188 in)
Colour	Colourless
Transparency	Translucent
Spallation	Low
Certification and compliance	FDA 21CFR177.2600, Ph. Eur. 3.1.9, Regulation (EC) No 1935/2004, USP Class VI
Operating temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Hardness, shore A (5sec)	60
Specific gravity	1.16 g/ml
UV resistance	Excellent
Tear B	35 - 87.6 kN/m (200-500 ppi)
Ultimate tensile strength	9 MPa (1306 psi)
Elongation at break	550-1500 %
Tensile stress at 100% elongation	8.13 Mpa (1180 Psi)
Gas permeability rating	Low
Compression set	5-42.5 %
Water absorption	Low
Shelf life	5 years
Gamma stability	25 kGy to 50 kGy
Autoclave stability	121 °C 30 minutes
Sterilisation methods	Autoclave, EtO, Gamma

ASTM methods Hardness: ASTM D 2240; Specific gravity: ASTM D 792; Tear B ISO 34-2; Ultimate tensile strength, Elongation at break, Tensile stress at 100 % elongation ISO 37; compression set ISO 815-1; ASTM D 412

Materials of construction

	Pumpsil Elements
Tubing	Platinum-cured silicone
Connector material	Polypropylene, PVDF

Product codes

Pumpsil Double Segment Kynar Y-Element ordering codes				
Bore		Wall Thickness		Product codes
mm	inch	mm	inch	
0.5	0.02	2.4	0.094	913.AE05.K24
0.8	0.031	2.4	0.094	913.AE08.K24
1.6	0.063	2.4	0.094	913.AE16.K24
3.2	0.125	2.4	0.094	913.AE32.K24
4.8	0.188	2.4	0.094	913.AE48.K24
6.4	0.25	2.4	0.094	913.AE64.K24
8	0.313	2.4	0.094	913.AE80.K24
8	0.313	4.0	0.156	913.AE80.K40
9.6	0.375	2.4	0.094	913.AE96.K24
Pumpsil Double Y-Element ordering codes				
Bore		Wall Thickness		Product codes
mm	inch	mm	inch	
12	0.469	4	0.156	913.A12E.K40
16	0.625	4	0.156	913.A16E.K40
Pumpsil Loadsure Quick Release Elements ordering codes				
Product Name				Product codes
Pumpsil 520 LoadSure 3.2mm Bore Quick Release Element				913.A032.PFQ
Pumpsil 520 LoadSure 6.4mm Bore Quick Release Element				913.A064.PFQ
Pumpsil 520 LoadSure 9.6mm Bore Quick Release Element				913.A096.PFQ
Pumpsil Loadsure Tri-Clamp Elements ordering codes				
Product Name				Product codes
Pumpsil 520 LoadSure 3.2mm Bore Tri-Clamp Element				913.A032.PFT
Pumpsil 520 LoadSure 6.4mm Bore Tri-Clamp Element				913.A064.PFT
Pumpsil 520 LoadSure 9.6mm Bore Tri-Clamp Element				913.A096.PFT
Pumpsil 620 LoadSure 12.0mm Bore Tri-Clamp Element				913.A120.PFT
Pumpsil 620 LoadSure 17.0mm Bore Tri-Clamp Element				913.A170.PFT
Pumpsil 720 LoadSure 12.7mm Bore Tri-Clamp Element				913.A127.PFT
Pumpsil 720 LoadSure 15.9mm Bore Tri-Clamp Element				913.A159.PFT
Pumpsil 720 LoadSure 19.0mm Bore Tri-Clamp Element				913.A190.PFT
Pumpsil 720 LoadSure 25.4mm Bore Tri-Clamp Element				913.A254.PFT
Pumpsil Loadsure Cam and Groove Elements ordering codes				
Product Name				Product codes
Pumpsil 620 LoadSure 12.0mm Bore Cam and Groove Element				913.A120.PPC
Pumpsil 620 LoadSure 17.0mm Bore Cam and Groove Element				913.A170.PPC
Pumpsil 720 LoadSure 12.7mm Bore Cam and Groove Element				913.A127.PPC
Pumpsil 720 LoadSure 15.9mm Bore Cam and Groove Element				913.A159.PPC
Pumpsil 720 LoadSure 19.0mm Bore Cam and Groove Element				913.A190.PPC
Pumpsil 720 LoadSure 25.4mm Bore Cam and Groove Element				913.A254.PPC

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Please state the product code when ordering pumps and tubing.



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