

POP-A-PLUG® II

Heat Exchanger Tube Plugging System



Proven performance and cost savings
at super critical pressures up to 7,000 psi (482.6 Bar)

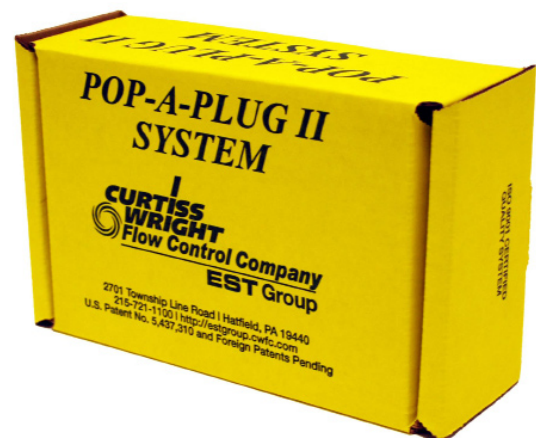


- US patent number 5,437,310
- The only plugs manufactured under a QA program certified to ISO-9001
- Quick and easy installation
- Used by 85% of US nuclear generating stations
- Can be supplied under ANSI N45.2, 10CFR50 Appendix B
- Suitability and type tested by TUV
- Helium leak tight to 1×10^{-10} cc/sec

A proven long-term performer in fossil and nuclear stations, the Pop-A-Plug® II (P2) heat exchanger tube plugging system is the only plug that features patented internally serrated rings designed to maintain a leak-tight seal under extreme thermal and pressure cycling. Beware of imitations.

Installation is simple: prepare the tube using the brush and size the tube with the Go/No-Go gauge supplied; install the correct size plug with the hydraulic ram. The ram pulls the tapered pin through the ring, expanding it into the tube. When the proper installation force is reached, the breakaway “pops”. This controlled installation force protects surrounding tubes and ligaments, and will not damage your heater.

Tube preparation and plug sizing are essential for successful installations. EST Group removes all uncertainty by supplying a Go/No-Go gauge and a tube preparation brush with each kit of 10 plugs.



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Ram Package	P2 Kit Part Number	Size Range (inches (mm))
PAP-6600	P2-400-Q	0.401 - 0.420 (10.16 - 10.68)
PAP-6600	P2-420-Q	0.421 - 0.440 (10.69 - 11.19)
PAP-6600	P2-440-Q	0.441 - 0.460 (11.20 - 11.70)
PAP-6600	P2-460-Q	0.461 - 0.480 (11.71 - 12.21)
PAP-6600	P2-480-Q	0.481 - 0.500 (12.22 - 12.72)
PAP-6600	P2-500-Q	0.501 - 0.520 (12.73 - 13.22)
PAP-6600	P2-520-Q	0.521 - 0.540 (13.23 - 13.73)
PAP-6600	P2-540-Q	0.541 - 0.560 (13.74 - 14.24)
PAP-6600	P2-560-Q	0.561 - 0.580 (14.25 - 14.75)
PAP-6600	P2-580-Q	0.581 - 0.600 (14.76 - 15.26)
PAP-6600	P2-600-Q	0.601 - 0.620 (15.27 - 15.76)
PAP-6600	P2-620-Q	0.621 - 0.640 (15.77 - 16.27)
PAP-6600	P2-640-Q	0.641 - 0.660 (16.28 - 16.78)
PAP-6600	P2-660-Q	0.661 - 0.680 (16.79 - 17.27)
PAP-6600	P2-680-Q	0.681 - 0.700 (17.28 - 17.79)
PAP-6600	P2-700-Q	0.701 - 0.720 (17.80 - 18.30)
PAP-6600	P2-720-Q	0.721 - 0.740 (18.31 - 18.81)
PAP-6600	P2-740-Q	0.741 - 0.760 (18.82 - 19.32)
PAP-6600	P2-760-Q	0.761 - 0.780 (19.33 - 19.83)
PAP-6600	P2-780-Q	0.781 - 0.800 (19.84 - 20.34)
PAP-6600	P2-800-Q	0.801 - 0.820 (20.35 - 20.84)
PAP-6600	P2-820-Q	0.821 - 0.840 (20.85 - 21.35)
PAP-6600	P2-840-Q	0.841 - 0.860 (21.36 - 21.86)
PAP-6600	P2-860-Q	0.861 - 0.880 (21.87 - 22.37)
PAP-6600	P2-880-Q	0.881 - 0.900 (22.38 - 22.87)
PAP-6600	P2-900-Q	0.901 - 0.920 (22.88 - 23.38)
PAP-6600	P2-920-Q	0.921 - 0.940 (23.39 - 23.87)
PAP-6600	P2-940-Q	0.941 - 0.960 (23.88 - 24.40)
PAP-6600	P2-960-Q	0.961 - 0.980 (24.41 - 24.89)
PAP-6600	P2-980-Q	0.981 - 1.000 (24.90 - 25.40)
PAP-6600	P2-1000-Q	1.001 - 1.020 (25.41 - 25.91)
PAP-6600	P2-1020-Q	1.021 - 1.040 (25.92 - 26.42)
PAP-6600	P2-1040-Q	1.041 - 1.060 (26.43 - 26.92)
PAP-6600	P2-1060-Q	1.061 - 1.080 (26.93 - 27.43)
PAP-6600	P2-1080-Q	1.081 - 1.100 (27.44 - 27.94)
PAP-6600	P2-1100-Q	1.101 - 1.120 (27.95 - 28.45)
PAP-6600	P2-1120-Q	1.121 - 1.140 (28.46 - 28.96)
PAP-6600	P2-1140-Q	1.141 - 1.160 (28.97 - 29.46)
PAP-6600	P2-1160-Q	1.161 - 1.180 (29.47 - 29.97)

Specifications subject to change without notice.
See DC4002 for more technical information.

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Ram Package	P2 Kit Part Number	Size Range (inches (mm))
PAP-1750	P2-1180-Q	1.181 - 1.200 (29.98 - 30.48)
PAP-1750	P2-1200-Q	1.201 - 1.220 (30.49 - 30.99)
PAP-1750	P2-1220-Q	1.221 - 1.240 (31.00 - 31.50)
PAP-1750	P2-1240-Q	1.241 - 1.260 (31.51 - 32.00)
PAP-1750	P2-1260-Q	1.261 - 1.280 (32.01 - 32.51)
PAP-1750	P2-1280-Q	1.281 - 1.300 (32.52 - 33.02)
PAP-1750	P2-1300-Q	1.301 - 1.320 (33.03 - 33.53)
PAP-1750	P2-1320-Q	1.321 - 1.340 (33.54 - 34.00)
PAP-1750	P2-1340-Q	1.341 - 1.360 (34.05 - 34.54)
PAP-1750	P2-1360-Q	1.361 - 1.380 (34.55 - 35.05)
PAP-1750	P2-1380-Q	1.381 - 1.400 (35.06 - 35.56)
PAP-1750	P2-1400-Q	1.401 - 1.420 (35.57 - 36.07)
PAP-1750	P2-1420-Q	1.421 - 1.440 (36.08 - 36.58)
PAP-1750	P2-1440-Q	1.441 - 1.460 (36.59 - 37.08)

Ordering Information

When ordering please supply the following information:

- Tube O.D. and wall thickness or measured tube I.D.
- Tube material
- Tubesheet material is required if plug will be installed directly into tubesheet
- Maximum pressure and temperature
- Type of tube to tubesheet joint (rolled, welded, etc.)
- Condition of tubes and age of heat exchanger

Standard Materials

Brass, Carbon Steel, 316 Stainless Steel, 304 Stainless Steel, Monel, Copper Nickel, 4142 Alloy.

The suffix Q in the Part Number column is a plug material designator.

Replace Q with one of the following: C for Carbon, S for 316 Stainless Steel, E for 304 Stainless Steel. B for Brass, T for Titanium, H for Copper Nickel, A for Alloy, M for Monel

Delivery Information

Substantial quantities of P2-400-Q to P2-960-Q are normally in stock for immediate shipment. For details on exact delivery, larger sizes, or alternate materials, contact EST Group.

Contact EST Group about information on installation and removal equipment.

