

Tube Plugs T_APPL HEP Series

High pressure plugs for general heat exchangers applications

The KRAIS T_APPL HEP series tube plugs are a specialized, mechanical plug engineered for use in a wide range of heat exchangers. Designed for high-pressure environments, it offers secure sealing without damaging the tube wall, even under severe thermal stress or vibration.

KEY ADVANTAGES

- Torque-controlled installation - ensures repeatable, consistent radial expansion with no tube deformation.
- Installation requires only a manual torque wrench. No high pressure pumps, no hydraulic oil leaks.
- Engineered expansion delivers a reliable mechanical seal, even under high thermal cycling and vibration.

PROPER TORQUE

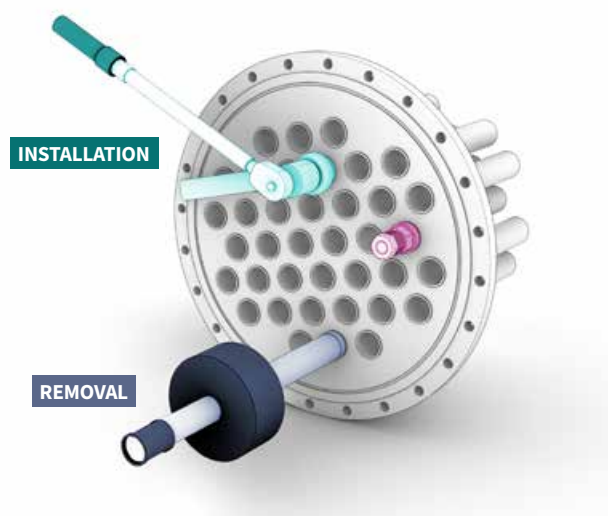
EASY PLUG REMOVAL



A torque wrench should be used to ensure correct plug installation. Recommendation: T_APPL TW#100



A dedicated slide hammer, connected to the threaded part of the plug, allows safe extraction of the plug for tube inspection or replacement



TOOL SELECTION TABLE

Please measure your tube ID and select a proper material (XX): CS for Carbon Steel, BR for Admiralty Brass, SS for Stainless Steel, CN for Cu Nickel

TUBE OD	WALL	TUBE ID	TOOL NR
[INCH]	[MM]	[BWG] [INCH] [MM]	
5/8"	15,88	18 0,527 13,39	HEP-1351-XX
		19 0,541 13,74	HEP-1422-XX
		20 0,555 14,10	
		21 0,561 14,25	HEP-1483-XX
		22 0,569 14,45	
3/4"	19,05	12 0,532 13,51	HEP-1351-XX
		13 0,560 14,22	HEP-1422-XX
		14 0,584 14,83	HEP-1483-XX
		15 0,606 15,39	
		16 0,620 15,75	HEP-1539-XX
		17 0,634 16,10	HEP-1610-XX
		18 0,652 16,56	HEP-1656-XX
		19 0,666 16,92	
		20 0,680 17,27	HEP-1691-XX
		21 0,686 17,42	
7/8"	22,22	22 0,694 17,63	HEP-1762-XX
		12 0,657 16,69	HEP-1656-XX
		13 0,685 17,40	HEP-1762-XX
		14 0,709 18,01	HEP-1803-XX

TUBE OD	WALL	TUBE ID	TOOL NR
[INCH]	[MM]	[BWG] [INCH] [MM]	
7/8"	22,22	15 0,731 18,57	HEP-1853-XX
		16 0,745 18,92	
		17 0,759 19,28	HEP-1892-XX
		18 0,777 19,74	
		19 0,791 20,09	HEP-1973-XX
		20 0,805 20,45	
		21 0,811 20,60	HEP-2044-XX
1"	25,4	22 0,819 20,80	HEP-2080-XX
		12 0,782 19,86	HEP-1973-XX
		13 0,810 20,57	HEP-2044-XX
		14 0,834 21,18	HEP-2184-XX
		15 0,856 21,74	
		16 0,870 22,10	HEP-2174-XX
		17 0,884 22,45	
		18 0,902 22,91	HEP-2245-XX
		19 0,916 23,27	HEP-2236-XX
		20 0,930 23,62	
		21 0,963 24,46	HEP-2326-XX
		22 0,944 23,98	HEP-2397-XX

TOOL EXPANSION RANGE TABLE

Please check before ordering if your measured ID fits within plugs range.

TOOL NR	[INCH]		[MM]	
	MIN	MAX	MIN	MAX
HEP-1351-XX	0,530	0,550	13,46	13,97
HEP-1422-XX	0,550	0,570	13,97	14,48
HEP-1483-XX	0,570	0,590	14,48	14,99
HEP-1539-XX	0,610	0,630	15,49	16,00
HEP-1610-XX	0,630	0,650	16,00	16,51
HEP-1656-XX	0,650	0,670	16,51	17,02
HEP-1691-XX	0,670	0,690	17,02	17,53
HEP-1762-XX	0,690	0,710	17,53	18,03
HEP-1803-XX	0,710	0,730	18,03	18,54
HEP-1853-XX	0,730	0,750	18,54	19,05
HEP-1892-XX	0,750	0,770	19,05	19,56
HEP-1973-XX	0,780	0,800	19,81	20,32
HEP-2044-XX	0,800	0,820	20,32	20,83
HEP-2080-XX	0,820	0,840	20,83	21,34
HEP-2184-XX	0,840	0,860	21,34	21,84
HEP-2174-XX	0,860	0,880	21,84	22,35
HEP-2245-XX	0,880	0,900	22,35	22,86
HEP-2236-XX	0,900	0,920	22,86	23,37
HEP-2326-XX	0,920	0,940	23,37	23,88
HEP-2397-XX	0,940	0,960	23,88	24,38