

HEADER / SHOULDER PLUGS & GASKETS

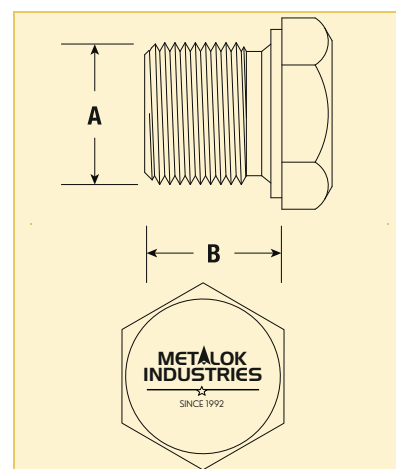
API 661 Type • Hex Head UNF Plugs for Header Boxes on Air-Cooled Heat Exchangers & Fin-Fan Coolers

ALSO KNOWN AS

 Hex Head Plugs • UNF Plugs • Fin-Fan
 Plugs Heat Exchanger Plug & Gasket Sets


Metalok header plugs thread into the plug sheet of air-cooled heat exchanger header boxes, giving maintenance teams direct access to every tube for inspection, cleaning and tube plugging — then sealing back leak-tight against process pressure and temperature. Widely used from upstream production to refineries, petrochemical plants and power facilities; spare plug & gasket sets are essential stock for every turnaround.

- ✓ Stocked sizes 3/4" to 2-1/8" (for 5/8" – 2" tube)
- ✓ Length under head 3/4" to 3"
- ✓ Custom sizes, threads & alloys to your spec
- ✓ No minimum order quantity
- ✓ High-volume production capacity per day
- ✓ CNC precision-machined threads & sealing face
- ✓ 100% traceability — marked with material & heat no.
- ✓ EN 10204 3.1 / 3.2 inspection certificates
- ✓ Plugs & gaskets supplied as matched sets
- ✓ Fast delivery from stock & rapid custom turnaround



SIZING CHART — PLUGS, GASKETS & RECOMMENDED MINIMUM TORQUE

BASE DIMENSIONS (API 661 TYPE)				FLAT GASKET		
Typical Tube O.D. in. (mm)	"A" Plug Diameter in. (mm)	Typical U.N.F. Thread (TPI)	"B" Length Under Head** (in.)	Hex Size in. (mm)	Stock #	Min. Torque (Fu/Lbs)*
5/8 (15.9)	3/4 (19.1)	16	3/4" to 3"	1 (25.4)	MISP - G - 0750 - < >	200
3/4 (19.1)	7/8 (22.2)	14		1-1/8 (28.6)	MISP - G - 0875 - < >	265
7/8 (22.2)	1 (25.4)	12		1-1/4 (31.8)	MISP - G - 1000 - < >	300
1 (25.4)	1-1/8 (28.6)			1-3/8 (34.9)	MISP - G - 1125 - < >	395
1-1/8 (28.6)	1-1/4 (31.8)			1-1/2 (38.1)	MISP - G - 1250 - < >	490
1-1/4 (31.8)	1-3/8 (34.9)			1-5/8 (41.3)	MISP - G - 1375 - < >	580
1-3/8 (34.9)	1-1/2 (38.1)			1-3/4 (44.5)	MISP - G - 1500 - < >	690
1-1/2 (38.1)	1-5/8 (41.3)			1-7/8 (47.6)	MISP - G - 1625 - < >	800
1-5/8 (41.3)	1-3/4 (44.5)			2 (50.8)	MISP - G - 1750 - < >	900
1-3/4 (44.5)	1-7/8 (47.6)			2-1/8 (54.0)	MISP - G - 1875 - < >	1000
1-7/8 (47.6)	2 (50.8)			2-1/4 (57.2)	MISP - G - 2000 - < >	1100
2 (50.8)	2-1/8 (54.0)			2-3/8 (60.3)	MISP - G - 2125 - < >	1200

* Recommended minimum torque values in Ft/Lbs based on proper installation with carbon steel material — consult factory for other materials. If plugs leak, increase torque in increments of 25 ft-lbs until seal is obtained. ** Typically stocked lengths; 3/4" up to 3" available. Substitute suffix "< >" with material code below.

MATERIALS OF CONSTRUCTION

C Carbon Steel SA-105 / SA-350 LF2	S 316 SS SA-182 F316/F304	Y Chrome/Moly SA-182 F11
M Monel 400 SB-564	I Inconel 625 / 825	T Titanium SB-381 Gr.1/2
B Brass	J 70/30 CuNi	K 90/10 CuNi
N Nickel 200	H Hastelloy	Z Zirconium

Also available: Duplex / Super Duplex (SA-182 F51 / F53), 904L (SB-649) & other alloys on request. Coatings: Cadmium • Electroless Nickel • Galvanized • Nickel • Zinc • Uncoated.

FLAT GASKET DIMENSIONS

Plug Ø (in.)	O.D. (in.)	I.D. (in.)	Thk. (in.)
3/4	1.000	0.750	0.060
7/8	1.125	0.875	
1	1.250	1.000	
1-1/8	1.375	1.125	
1-3/8	1.625	1.375	
1-5/8	1.875	1.625	
1-7/8	2.125	1.875	
2-1/8	2.375	2.125	

Flat & low-torque (EZ-type) gaskets in soft iron, CS, 316 SS & alloy grades, matched to plug material & service.
 Intermediate sizes on request.

QUALITY & TRACEABILITY

- ISO 9001:2015, CE & PED certified manufacturing
- Plugs marked: METALOK + material + heat number
- EN 10204 3.1 / 3.2 certificates with every supply
- 100% thread gauging; 63 RMS gasket seating face
- Anti-seize lubricant recommended at installation

⚠ WARNING

Never stand in front of an installed plug under pressure. Plugs ejected under pressure can cause serious bodily injury. Depressurise & isolate before removing plugs.

OIL & GAS / REFINERIES

PETROCHEMICAL

POWER PLANTS

FERTILIZERS

AIR-COOLED HEAT EXCHANGERS

EXPORTED TO 115+ COUNTRIES