




KARACHAGANAK PETROLEUM OPERATING BV

ENGINEERING


COMPANY DATA SHEETS

No: KPO-00-PIP-DTS-00801-E

Flange Insulating Kit

MASTER
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Document Control Center



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**FLANGE INSULATING KIT DATA SHEET
CL150/300 RF**

Full range of sizes of flange insulating kits assembly comprising of insulating washers, full length insulating sleeves to cover studs and full face insulating gasket shall be suitable to:

- ASME B 16.5 for NPS 24" and smaller Classes 150/300 RF flanges;
- ASME B16.47 Series B for NPS 26" and larger Classes 150/300 RF flanges.

Manufacturer shall also supply the required stud bolts and two nuts per studs (note1) suitable to:

- ASME B 16.5 for NPS 24" and smaller Classes 150/300 RF flanges;
- ASME B16.47 Series B for NPS 26" and larger Classes 150/300 RF flanges.

Manufacturer shall supply material certificates in accordance with company specification № KPO-00-PIP-SPC-00005-E and BS EN 10204 "Type 2.2".

Stud Bolts shall have a contingency of 10% of the quantity required but not less than one extra bolt. Bolts material shall be ASTM A320-L7M and Nuts material shall be ASTM A194-7M.

	ASME CL150: valid for PMC's A11, A13,A14,A15, A16, A17, A18, A21, A22, A24, A28	ASME CL 300: valid for PMC's B11, B13, B14, B15, B17, B18, B22, B28
NPS	SP code	SP code
1/2"	150-SP-0.500	300-SP-0.500
3/4"	150-SP-0.750	300-SP-0.750
1"	150-SP-1.000	300-SP-1.000
1-1/2"	150-SP-1.500	300-SP-1.500
2"	150-SP-2.000	300-SP-2.000
3"	150-SP-3.000	300-SP-3.000
4"	150-SP-4.000	300-SP-4.000
6"	150-SP-6.000	300-SP-6.000
8"	150-SP-8.000	300-SP-8.000
10"	150-SP-10.000	300-SP-10.000
12"	150-SP-12.000	300-SP-12.000
14"	150-SP-14.000	300-SP-14.000
16"	150-SP-16.000	300-SP-16.000
18"	150-SP-18.000	300-SP-18.000
20"	150-SP-20.000	300-SP-20.000
24"	150-SP-24.000	300-SP-24.000
30"	150-SP-30.000	300-SP-30.000
36"	150-SP-36.000	300-SP-36.000
42"	150-SP-42.000	300-SP-42.000

Insulation Kit material and design:

- Gasket (spiral wound): Modified PTFE reinforced with glass microspheres or equivalent.
- Sleeve (full length): Material: Modified PTFE reinforced with glass microspheres or equivalent.
- Washer: Pikotek HCS-X37 or equal.
- See Note 2 below.

Notes:

- 1) For stud bolt size 1.1/2" and larger provide with 3 nuts and addition bolt length.
- 2) Vendor shall confirm the mechanical properties of the above materials.
- 3) All components should be suitable for operating at temperatures from -45⁰ C to 300⁰ C.

Revision history KPO-00-PIP-DTS-00801-E

REVISION	CHANGES
C3	Piping Material Classes A28 & B28 are added into CL150/300 columns; Additional requirements are added for large sizes; New codes are assigned for large sizes.