Benefits

Main benefits of L-005 compact flange compared to ASME flange:

- Much lighter (save up to 80% on weight)
- Smaller dimensions (in both overall length and diameter)
- More reliable sealing: Seal ring instead of gaskets
- Multiple sealing areas
- No corrosion/erosion on flange faces (gapless)
- No need to re-tighten bolts on a regular time scale

Advantages of a seal ring compared to a standard gasket

- Stronger
- Reusable
- More reliable
- Less maintenance

The Raised Face (RF) on an ASME flange is a weak point

1) Bending forces on the piping system will loose bolting on ASME flanges after a while so that re-tightening of the bolts is required. It has NO impact on the compact flange.

2) Gap between 2 ASME flanges (caused by RF) can cause corrosion or erosion.

Size benefits

Compact size is ideal for applications with space restrictions like f.ex. Offshore rigs and misc. Subsea installations like f.ex. X-mas trees.

Weight benefits

FACT: in some cases the weight of 1 ANSI flange = 4-5 compact flanges

78% weight saving!

Weight Comparison WN 2500 Lb 10"

L-005: 105 kg
ASME: 483 kg

compact flange

Blind CF with tapped holes

Project Total Pazflor (Angola)
Machining

Inhouse machining of CF swivel ring
Block 17 Phase 2
Total Angola

Inhouse machining swivel hubs
Tailor made design there not covered by NORSOK

Hydrotest on CF assembly
Block 17 phase 2 Total Angola

Welding Neck CF with proper protection on flange faces

Swivel hub & ring with special coating and flange face protection