CLAIMS

1. A system for establishing a metal-to-metal seal joining two bores, the system comprising:

a generally cylindrical seal comprising a first end, a second end, an inner diameter, an outer diameter, a further outer diameter, a first metallic sealing surface defined by a linear surface area between the inner diameter and the outer diameter at the first end, a second metallic sealing surface defined by a linear surface area between the inner diameter and the outer diameter at the second end, a third metallic sealing surface defined by a curved surface area between the outer diameter and the further outer diameter at the first end, and a fourth metallic sealing surface defined by a curved surface area between the outer diameter and the further outer diameter at the second end, wherein the seal further comprises a flexible groove along the inner diameter;

a first piece of equipment having a bore therethrough, wherein the bore comprises a first inner diameter, a second inner diameter, a third inner diameter, and at least two metallic sealing surfaces between the first and second inner diameters and the second and third inner diameters, respectively; and

a second piece of equipment having a bore therethrough, wherein the bore comprises the first inner diameter, the second inner diameter, the third inner diameter, and at least two metallic sealing surfaces between the first and second inner diameters and the second and third inner diameters, respectively,

wherein the at least two metallic sealing surfaces of the first piece of equipment abut the first and third metallic sealing surfaces of the seal, the at least two metallic sealing surfaces of the second piece of equipment abut the second and fourth metallic sealing surfaces of the seal, and the bores of the first and second pieces of equipment are aligned and joined through the inner diameter of the seal.

2. The system of claim 1, wherein the first metallic sealing surface and the second metallic sealing surface comprise a positive angle.

3. The system of claim 2, wherein one of the at least two metallic sealing surfaces of the first piece of equipment comprises a negative angle and one of the at least two metallic sealing surfaces of the second piece of equipment comprises a negative angle.

4. The system of claim 1, wherein at least one of the first piece of equipment or the second piece of equipment comprises a test port, wherein the test port places an outer diameter of the piece of equipment in fluid communication with the outer diameter of the seal.

5. The system of claim 1, wherein at least one of the first piece of equipment or the second piece of equipment comprises a secondary groove, wherein the secondary groove faces the other of the first piece of equipment or the second piece of equipment, and wherein the secondary groove extends around the bore.

6. The system of claim 5, further comprising a ring gasket seal within the secondary groove.

7. The system of claim 1, wherein at least one of the first piece of equipment or the second piece of equipment is a flange connection.