

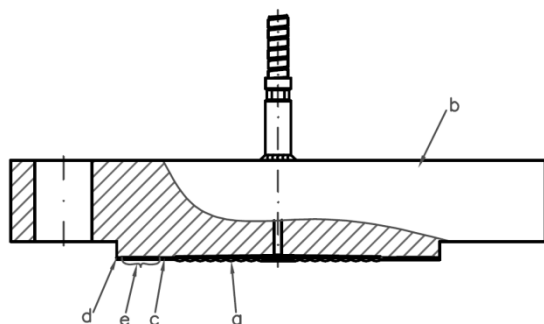
INTRODUCTION

The raised face covered Diaphragm Seal is the solution for flanged seals with exotic wetted parts. The Diaphragm Seals are designed to prevent contact of the process medium with the AISI316 seal body materials. All wetted parts of BRF/BRC type Diaphragm Seals are covered with an exotic diaphragm material.



SOLUTION DEVELOPED

The double weld technology makes it possible to keep the wetted parts (a) of the diaphragm material properties uninfluenced by the welding operation to the 316 body material (b). The inner weld (c) is located on the wetted part and is welded with the latest resistance weld technology. The resistance weld is helium tested in order to exclude leaks in the welded area. The outer weld (d) is welded with TIG welding technology and is a non-wetted part. The gasket surface (e) between the resistance weld and the TIG weld is fully covered with the exotic diaphragm material and has the appropriate roughness.



TECHNICAL SPECIFICATIONS

The table below presents the various Exotic diaphragm materials that can be used in combination with 316 body material.

	BRF	BRC
Wetted Parts		
Hastelloy C-276	●	●
Monel 400	○	○
Hastelloy B2	○	○
Tantalum	○	○
Nickel 201	○	○
Niobium	○	○
AISI 321	○	○
Inconel 600	○	○
Duplex	○	○
AISI 316 UG	○	○

● = standard / ○ = optional

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