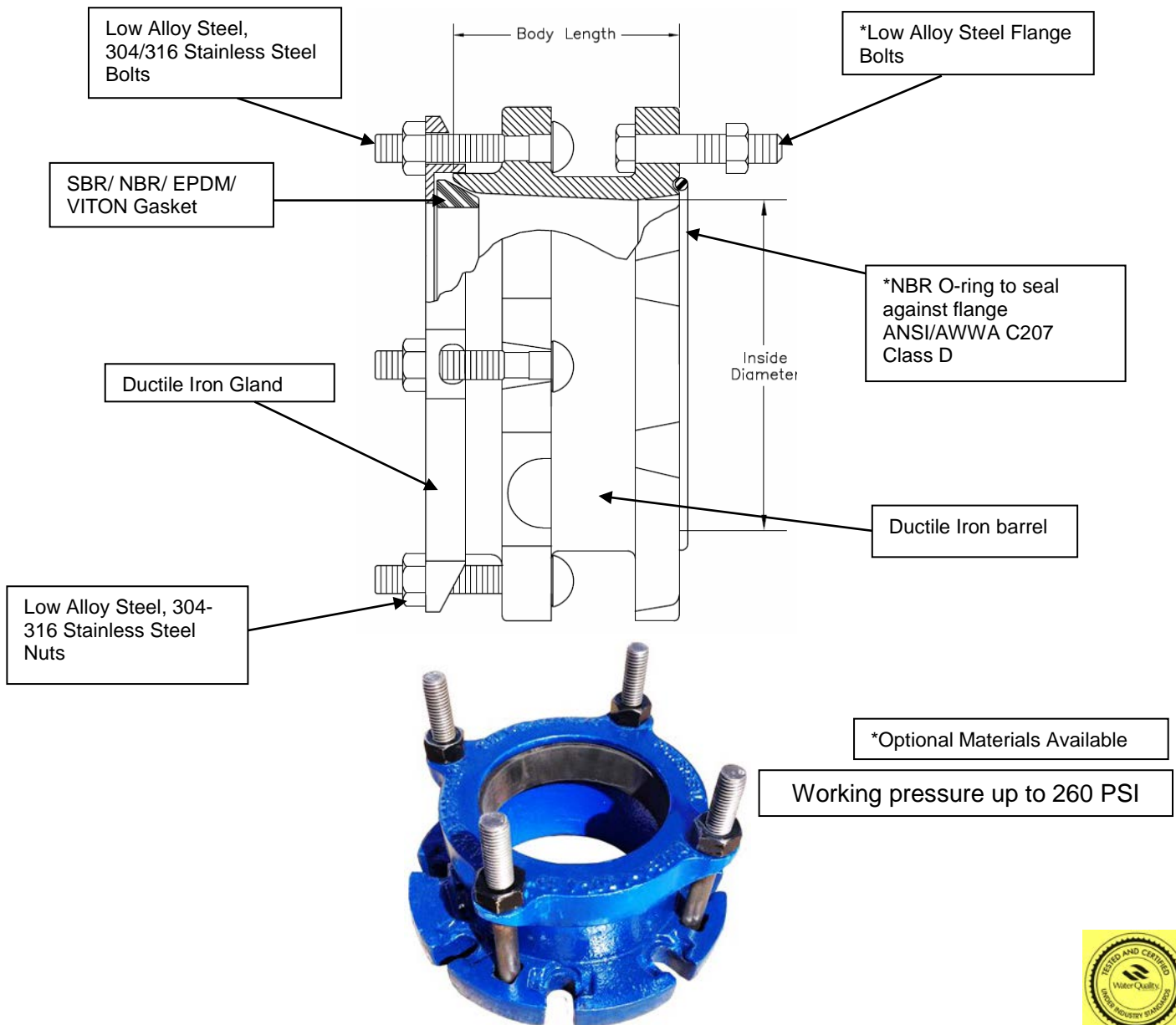


### Material design and specifications

1. The Flange Coupling Adapter shall comply with all listed material specifications most importantly AWWA C219.
2. Coupling gasket shall be molded SBR (Styrene Butadiene Rubber) porous free, and without visible defects. Recyclable material shall not be used. The gasket shall comply with ASTM D2000 to insure that its specifications last while in stock.
3. The NBR (Nitrile Butadiene Rubber) O-ring gasket shall be fitted to the ductile iron body with cyanocrylates. The o-ring shall seat into a cast trapezoidal groove at the end of the body.
4. Bolts and nuts included are low alloy steel. Bolts and nuts are available in Stainless Steel type 304/316.



*Scope*

The purpose of this specification is to receive a Flange Coupling Adapter from 4” to 12” nominal diameter. The ductile iron casting fits different OD pipes with just a central barrel, gland and gasket that can be used on different material pipes. The supplied adapter should be equivalent to the 3521 Flange Coupling Adapter model fabricated by Powerseal Pipeline Products Corp and should comply the AWWA C219.

Material Specification		
Name	Material	Specification
Flange	Ductile Iron (65-45-12)	ASTM A536
Gaskets	SBR	ASTM D2000
Barrel	Ductile Iron (65-45-12)	ASTM A536
Bolts	Low Alloy Steel	ASTM A325
Nuts	Low Alloy Steel	ASTM A563
Cover	Epoxy Coated	AWWA C210

Nominal Size	Bolt Quantities		Pipe OD Range			Body Length (IN.)	Weight (LBS.)
	Flange	Pipe	Blue-A	Black-B	Grey-C		
4	8	4	4.50-4.85	4.80-5.10	5.05-5.40	3.00	24
6	8	5	6.62-6.95	6.90-7.22	7.19-7.45	5.38	34
8	8	6	8.62-9.05	9.05-9.45	9.10-9.79	5.50	47
10	12	7	10.70-11.10	11.10-11.50	11.60-12.12	5.50	68
12	12	8	12.75-13.20	13.20-13.50	13.78-14.38	5.31	91

