



**Welding Research Council**  
***bulletin***

NPS 4 CLASS 150 BOLTED JOINT  
SUBJECTED TO PRESSURE AND  
EXTERNAL BENDING LOADS

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Dedicated in Memory of Pablo Rodriguez

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These Bulletins contain final Reports from projects sponsored by the Welding Research Council, important papers presented before engineering societies and other reports of current interest.

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**MPC** – A Council of the WRC, the Materials Properties Council is dedicated to providing industry with the best technology and the best data that can be obtained on the properties of materials to help meet today's most advanced concepts in design and service, life assessment, fitness-for-service, and reliability and safety.

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