

## ABSTRAK

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### **PRODUCTION PROCESS OF DISMANTLING JOINT DIAMETER 400 WITH MATERIAL SS400 AND SUS304 AT PT. RUHAAK PHALA INDUSTRI**

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Key Word: *Dismantling Joint*, pipe, *Flange*

(xvi + 55 pages + Appendix)

Dismantling joint is part of the accessories on the pipe which functions as an assembly and separation on the connection between pipes from two directions that do not have a meeting point so that they can be connected properly. Dismantling joints can also reduce the sound in the flow of liquid and gas fluids and can also be used as expansion joints, pumps and equipment connected to the pipe. The purpose of the test is to know the materials used in the manufacturing process of the 400mm diameter dismantling joint, to know the tools used in the manufacturing process of the 400mm diameter dismantling joint production and to know the steps of the manufacturing process of the 400mm diameter dismantling joint production at PT Ruhaak Phala Industri. The manufacturing process includes the drawing process, selecting ss400 steel for cutting with plasma cutting with a size of 1300mm x 280mm and a flange size of 420mm inner diameter and 515mm outer diameter, followed by a rolling process using a manual roll machine that makes it into a pipe followed by a welding process using metal active gas (MAG). 110 ampere porto PD200 using C0 gas with Nikkon steel rd-260 welding electrodes with a size of 2.6mm x 350mm, after which the drilling process is carried out with a radial drilling machine with a 23. 0mm High steel speed (HSS), followed by the turning process on the flange is done from 45mm to 40mm using High steel speed (HSS), then the quality control process is carried out in function, visual and size, if there is a jam or mismatch then it will return to the welding process but if it still cannot match the desired standard then it is declared reject (damaged goods) and will be melted again, the finishing process after the process is carried out from the dismantling joint with a diameter of 400mm will be carried out in accordance with the request. ordinary painting or Galvanized (Anti Rust) which is done outside the subcon (sub contractor) outside workmanship. so that the results require a plate with a length of 1300mm x width of 280mm and a flange hole distance of 400mm which is 89.25mm so that it can be installed perfectly.

Bibliography (1999-2021)