RUNNING DOWN VALVES

Experience in H.M.S. Duke of York showed that it was extremely difficult to emove the running down valves and to face up the pad piece on the water frum because of the very awkward position in which the valve box was mounted and to the proximity of the boiler blow-down cocks. The threads of the nuts and study securing these valves, after three months in position, became rusted and seized, making the use of hammer and chisel almost inevitable to remove hem. It sometimes took 12 hours to remove the two back nuts. Even when he valve was removed the removal of the studs, before facing up of the pad piece could begin, was a difficult task owing to the awkwardness of the position; his became far more serious when a stud broke flush with the surface. It was suggested that a considerable improvement might be effected by welding an bow piece to the water drum with a vertical flange in an accessible position for ittachment of the running down valve. The provision of special nuts, $1\frac{1}{2}$ inches ong, at the back of the joint of the running down valve has provided a partial inswer, at least, to the Duke of York's difficulty, and this device will probably be very useful to many other ships. In current advance construction the elbow piece is being welded to the water drum during manufacture.