REVERSE OUT VALVE FOR WELL TREATMENT OPERATIONS

ABSTRACT OF THE DISCLOSURE

A reverse out valve (100) comprises an outer housing (120) and a mandrel (144) that form a bypass region (130) therebetween. The mandrel (144) includes a central flow path (164) with a valve seat (152) positioned therein and first and second side wall ports (148, 150). A valve element (168) is positioned in the central flow path (164). The valve element (168) and the valve seat (152) having a one way valve configuration that prevents downhole fluid flow and allows uphole fluid flow. The mandrel (144) is axially movable relative to the outer housing (120) between first and second positions. In the first position, a bypass passageway (184) is formed between the first and second side wall ports (148, 150) via the bypass region (130) thereby allowing bypass flow around the valve element (168) and the valve seat (152). In the second position, bypass flow is prevented.