

FLUID COUPLINGSTHIS SHEET HAS BEEN  
REPLACEDAbstract

A fluid coupling for a negative pressure dispense system comprising a dispense assembly (10,70,1200 to be fitted as a cap to a seal a drum or the like fluid container and having a valve (22,96) to control the ingress of air and means (24,92,122) to prevent the egress of fluid, a coupling head (12,70,137) to mate with the dispense assembly and seal solely with the fluid egress prevention means (24,92,122), complimentary features (34&44,100&104) on the dispense cap and coupling head are provided to inter-engage upon relative rotation of the coupling head with respect to the dispense cap, and the fluid egress prevention means are arranged to be engaged and opened by a part (50,110,138) of the coupling head upon mating engagement with the dispense cap:-

the dispense cap and coupling head may have inter-engaging screw threads (34&44) or part-turn, bayonet-type fittings (100&104);

the fluid egress prevention means may be a membrane (92) or a poppet valve (34) or a rotary valve (122); and,

the air ingress valve may be a one-way valve (22) either separate from or co-axially about the fluid ingress prevention means.

Figure 4