

DUAL FUNCTIONAL VALVE WITH V-SHAPE DOUBLE DISCHARGE AND SPRING REED

Abstract

A compressor valve comprise a suction valve plate, a discharge valve plate, a V-shape double discharge spring reed with two reed arms, wherein the two reed arms form a V-shape configuration; a stopper with two stop arms; a spacer disposed between the stopper and V-shape double discharge spring reed; a limiter with two limit arms; wherein both the stopper and limiter have a V-shape configuration similar to the one formed by the V-shape double discharge spring reed; and wherein the V-shape double discharge spring reed, spacer, stopper, and limiter are disposed within the recess in this sequential order; and a cylinder head for directing the refrigerant into the respective chambers of a compressor; wherein the suction valve plate, discharge valve plate, V-shape double discharge spring reed, spacer, stopper, limiter, and cylinder head are assembled into the compressor valve.

FIG 1