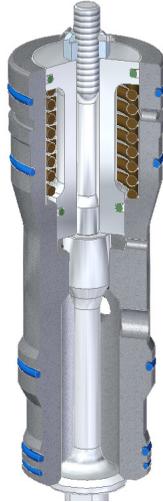


Air Start Valve

Air Start Valve is inserted into each cylinder head of diesel engine and supplies about 30 bar air into engine cylinder. The air actuates the piston before fuel runs the engine.



The air start valves shown above & below are for Hyundai "Himsen" four-stroke diesel engines.



OPERATION

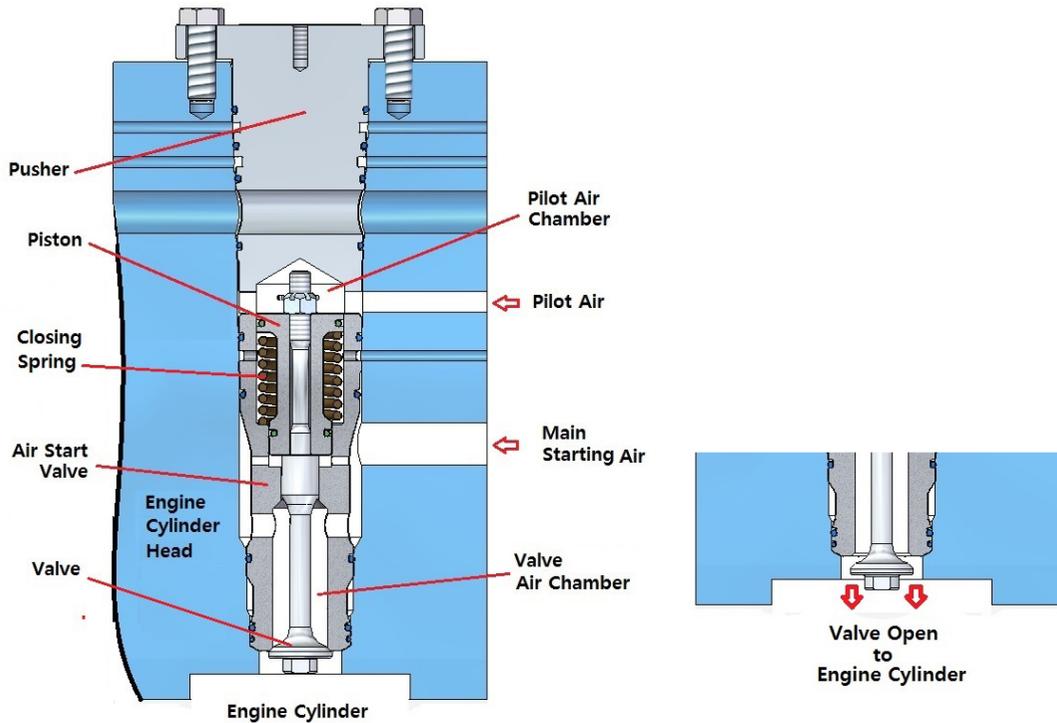


Diagram Shown

A set of air start valve and pusher installed in diesel engine



Photo Shown:

Before pusher is inserted into cylinder head



Photo Shown:

After pusher is inserted into cylinder head

Main starting air 30bar from the manifold enters the Valve Air Chamber via the circumferential ports in the valve body. The air pressure in valve chamber will not open the valve because a closing spring holds the valve shut.

To open valve, pilot air from the air start distributor enters the Pilot Air Chamber on the top of the valve and acts on a piston to compress the spring downwards. When the pilot air signal from the air start distributor is vented, the spring closes the valve.