High Quality Engine Air Start Control Valve

Seetru Limited

Type GS56

Designed to handle a two-stage operation for air starting of engines

Product Description

The Seetru GS56 is a high quality control valve designed to handle a two-stage operation for air starting of engines. Air starting is typically used for diesel engines. The GS56 is bolted onto the air receiver vessel and integrates all the necessary functions and connections into one highly effective unit. It controls charging of the pressure vessel with the air for starting and it controls the flow of the air to the engine to start the engine. Incoming air and outgoing air are kept separate to comply with regulations. The unit configuration is designed so that any oil or water in the air supply collects in the receiver, thus maximising the cleanliness of the air which flows to the engine

Specifications

- **Air Inlet & Outlet Connections:** DIN or BS flanges or adapted to pipe fittings
- **Receiver Connection:** DIN or BS flange
- **Materials of Construction:** Cast body in SG iron, brass and stainless steel internal parts. Gunmetal or aluminium bronze body available upon request
- **Seal Material:** Nitrile
- **Working Pressure:** Up to 600 psi
- **Working Temperature:** Up to 110°C
- **Test Certification:** Included- supplied Free of charge

Economical in price and maintenance
Seetru is able to apply the latest large scale manufacturing technologies to ensure economic first costs. Economy in use is ensured by the ease of installation and simple maintenance procedure.

Safety valve connection
A threaded connection is provided on the manifold unit for a safety valve to protect the air receiver. Safety valves can be supplied as optional extras, contact Seetru for information on our range of safety valves. (An enclosed discharge valve may be preferred where equipment is protected by a fire control system.)

Shut-Off valve connection for pressure gauge
A connection with shut-off valve is provided on the manifold unit for a pressure gauge, which can be fitted to monitor the pressure in the air receiver. Pressure gauges can be supplied as optional extras, contact us for information.

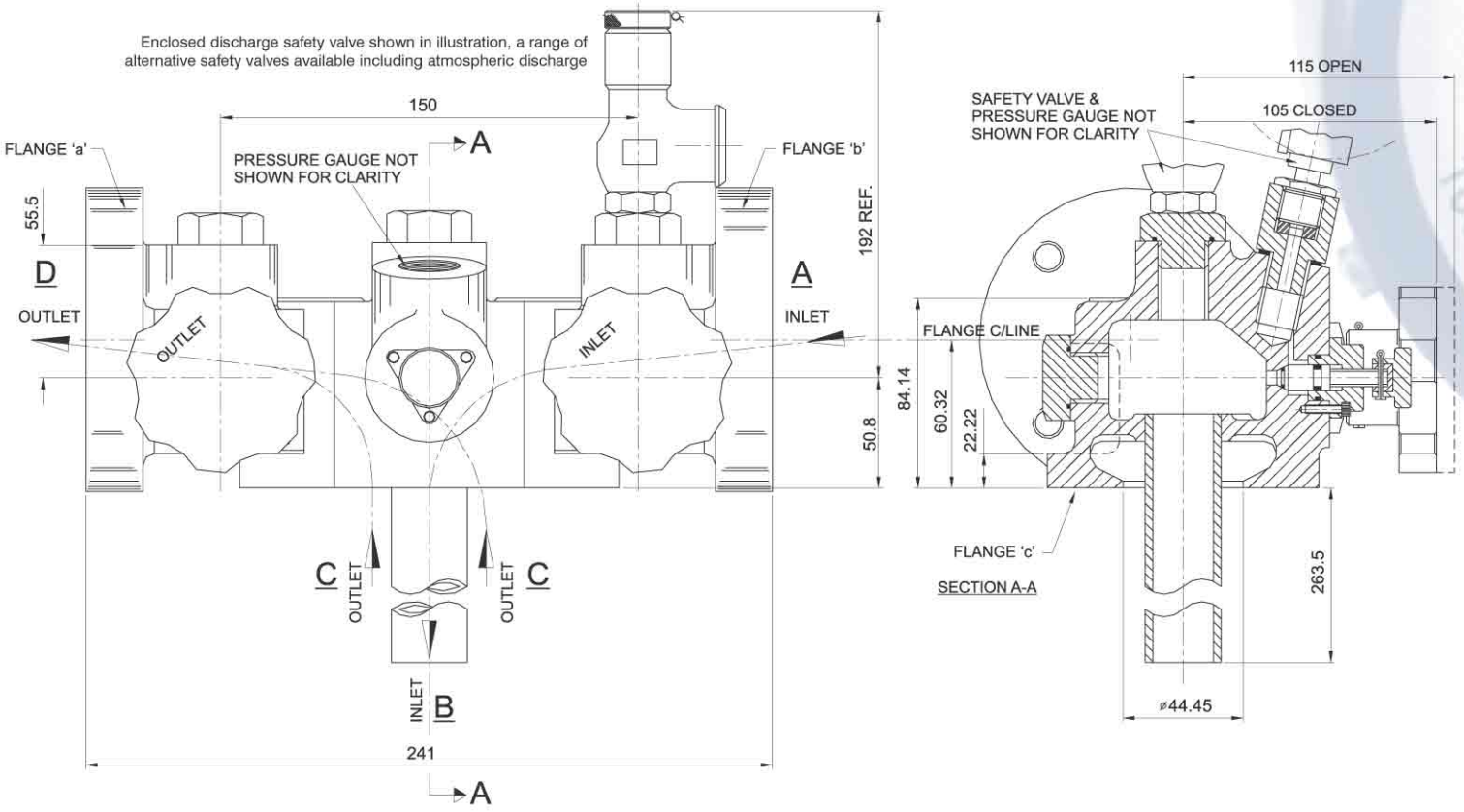
Integrated inspectors test point
A connection is provided for connection of an inspectors pressure test gauge.

Fusible plug thermal protection
The GS56 has the facility for a fusible thermal plug to protect the air receiver from over-pressure due to heat (e.g. In the case of fire). The plug fuses at a defined temperature and releases the pressurized air in the receiver. Plugs are supplied as optional extras.

Siphon drain valve
An optional siphon drain valve can be supplied with the GS56. This valve is connected to a long tube, which reaches low into the receiver vessel when opened, the pressure in the vessel forces any oil or water out through the tube.

Widely accepted worldwide approvals
Accepted by Lloyds for marine applications. Testing can be witnessed by marine approval authorities prior to despatch and certification provided at extra cost. Compliant with the requirements of the European Pressure Equipment Directive, PED (CE marked).

Operation and Dimensions



Operation

The valve unit controls a two-stage operation.

1. The flow of air from lhe main air supply lo an air receiver
2. The flow of air from the air receiver to the engine

For Stage 1

1. The 'Outlet' valve is closed
2. The 'Inlet' Valve is open
3. Air enters the valve through **Port A** and exits through **Port B** into down pipe in the air receiver, so that any oil or water collects at the bottom of the receiver vessel.
4. The pressure levels in the air receiver can be monitored on the pressure gauge.
5. 0nce the air receiver reaches the required pressure the **Inlet** valve is closed.

For Stage 2

1. The 'Outlet' valve is open
2. Clean air from top of the air receiver immediately flows from **Port C** to **Port D** and to the engine in order to turn over the engine and start it.
3. The pressure levels in the air receiver can be monitored 0n the pressure gauge.
4. Once the engine has started the **Outlet** valve is closed.

Flange Sizes to BS10 1 ¼" Table 'R'			
Flange	'a'	'b'	'c'
Diameter	133 (5 ¼")		
PCD of 4 Holes	98 (3.875")		
Hole Size	⅝" - 11 UNC-2B	Ø18 (23 / 32")	

EN1092-2:1997/DN32/PN40"			
Flange	'a'	'b'	'c'
Diameter	133 (5 ¼")		
PCD of 4 Holes	98 (100 (3 16/ 16)		
Hole Size	M16	Ø18	

*SUPERSEDES BS4504-'f'N40- DN32

Installation and maintenance- instructions available from Seetru