

Selection Procedure for Chalwyn D Valves – for customers

- 1) Check the make and model of engine to be protected and if it is naturally aspirated or turbocharged. Determine the maximum power output at its normal operating speed. Generators operate at 1500 rpm (50 hz) or 1800 rpm (60 hz in USA). The manufacturer's website may assist here.
- 2) Measure the inside diameter of the hose at the position where the valve is to be fitted. This is usually as close to the inlet manifold as possible. If the hose is difficult to measure, try measuring the o.d. of the metal part it fits on to. The valve is made to match this measurement, in 1mm increments.
- 3) Decide if the remote manual option is required (such as for demonstration in Canada or to a US safety inspector) and if so, decide the length of flexible cable required between valve and control panel pull handle location. This will use the D-AM range.
- 3) Supply this information to either the customer service team at Chalwyn in the UK, or your local Chalwyn distributor for their advice and quote. Please consult our website www.chalwyn.com for the appropriate hp / valve sizing chart within the pdf file of the valve range you are considering. Clicking the coloured charts on the website (after selecting automatic valves from the home page and list) help to locate the pdf. Or consult the blue sales brochure where the pdf reference numbers are usually listed. Find the pdf in numerical sequence within 'technical downloads' from the home page.
- 4) Order it based on (first) valve model (e.g. D64) and mm end diameter (e.g. 70mm). If auto + manual cable are needed, then the letters -AM are added (see example B)

Example A

The engine is a turbocharged 175 hp with 4" bore inlet hose. From the chart, the ideal model is D80 as this is rated for engines up to maximum load (turbo page 2) of 200 hp. Larger valves could work but would cost more and may be harder to install. (D92S-102) Converting 4" to metric is $4 \times 25.4 = 101.6\text{mm}$. Rounding this up to give a slight interference fit into the rubber gives us 102mm, so the correct part number is D80-102.

Example B

The engine is 500 hp, turbocharged with a 6" (152.4mm) inlet pipe diameter. So the correct D valve (selected from website pdf.CE205) is D136S-153. This application also requires a 2 meter long (6'6") cable, so the valve is D136S-AM-153, fitted with cable CLD-200 and manual control lever RLD-100, as RTD-100 is too small. These are 3 items, but usually are pre-assembled together by the factory or distributor.