



## DONKIN STEEL SOFTSEAL VALVE, WELD-END

555/163

The Series 555/163 Steel Softseal Valve is a double-faced, resilient seat, internal screw, clear bore wedge gate valve. Designed primarily for the isolation of high pressure natural gas, fitting into steel pipelines.

### Standards

- API 6D, Z245.15-09

### Tests/Approval

- BS EN 12266-1

### Service Conditions:

|                            |                                    |
|----------------------------|------------------------------------|
| Maximum Working Pressure:  | 725 psig (50 bar)                  |
| Temperature Range:         | -20°C to +60°C                     |
| Fluids for Standard Valve: | Natural Gas                        |
| Fluids for Optional Valve: | Manufactured Gas (Viton 'O' Rings) |

### Features:

- Clear bore
- Double 'O' ring stem seal
- Soft seal positive shut off
- Metal to metal secondary seal
- Maintenance free
- Suitable for above or below ground use
- Lifting lugs on all sizes
- Direct welding into the pipeline

### Options:

Also available:

- False cap
- Handwheel
- Bare shaft end
- Bespoke weld preparation to customer specification
- Drain and body vent tapping

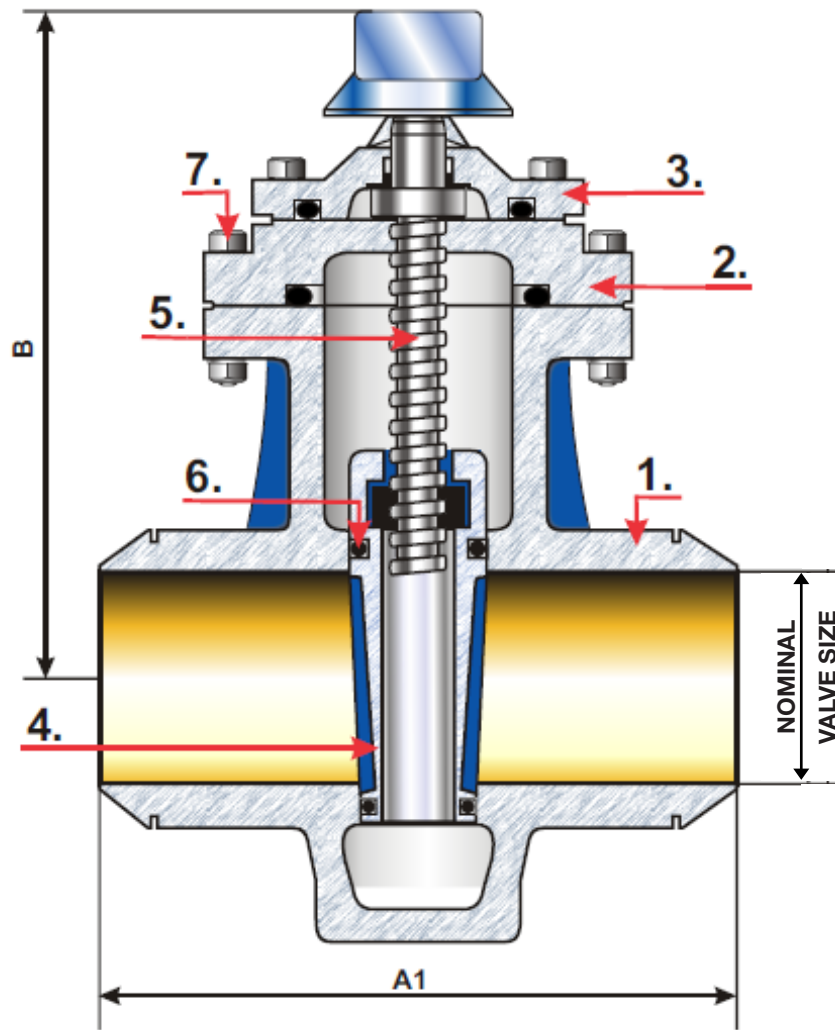
### General Note:

Available with double weld (W/W) end connections. Face to face and end to end dimensions to API 6D-1982. Welding ends prepared to suit SCH.40 pipe. Others on request.

**Note:** The Series 555 is also available manufactured in cast iron, ductile iron and also with PE tails.

**\*See 555/303 datasheet for Cast Steel Flanged Valves**





## MATERIALS OF CONSTRUCTION

| No | Description    | Material   |
|----|----------------|--|
| 1  | Body           | Cast Steel to ASTM A352 LCC                                      |
| 2  | Bonnet         | Cast Steel to ASTM A352 LCC                                      |
| 3  | Gland          | Cast Steel to ASTM A352 LCC                                      |
| 4  | Wedge Gate     | Ductile Iron to BS EN1563 GJS 400-18-LT                          |
| 5  | Spindle        | Stainless Steel EN10088 X12CrS13/1.4005/416S21                   |
| 6  | 'O' Ring Seals | Standard: Nitrile Rubber. EN682. Type GBL - Option: Viton Rubber |
| 7  | Fastenings     | Stainless Steel to B8M to ASTM A193 CLASS 2                      |

## DIMENSIONS & WEIGHTS (Imperial)

| Size | A1     | B      | Nett Weight (lbs)<br>W/W | No of Turns to<br>Close | Weld Prep<br>W.T (MM) | Operating Torque<br>(lbs/ft) |
|------|--------|--------|--------------------------|-------------------------|-----------------------|------------------------------|
| 2"   | 8.50"  | 11.00" | 41                       | 8.75                    | 3.9                   | 30                           |
| 3"   | 11.12" | 12.00" | 74                       | 13.00                   | 5.5                   | 35                           |
| 4"   | 12.00" | 13.50" | 91                       | 15.50                   | 5.6                   | 35                           |
| 6"   | 15.88" | 17.90" | 180                      | 15.00                   | 6.4                   | 70                           |
| 8"   | 16.50" | 21.00" | 270                      | 19.00                   | 6.7                   | 100                          |
| 12"  | 19.76" | 25.88" | 543                      | 27.00                   | 7.5                   | 185                          |

Note: these dimensions are approximate and may vary due to tolerance build up

For further details see section "Technical Information".

The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product programme.

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