

DONKIN DUCTILE IRON SOFTSEAL VALVE, PN7

555/301
555/302

The Series 555/301 & 302 Softseal Valve is a double-faced, resilient seat, internal screw, clear bore wedge gate valve. It is designed primarily for the isolation of natural gas and manufactured gas.

Features:

- Full double block and bleed facility with pressure relieving plug.
- Soft seal positive shut off, metal to metal secondary seal.
- Maintenance free.
- Kitemark approved to GIS/V7 Part 1.
- Self supporting "flange feet" for ease of installation and stockholding.
- Fasteners fully encapsulated and sealed with hot melt.
- Profiled 'O' ring body/bonnet joint.
- Suitable for under pressure drilling and tapping operations.
- Suitable for end of line service.
- Integral lifting lugs on all sizes
- EN1092 PN16 flanges

Options:

- Retrofit clip on indicator reduces stock holding costs because one valve is suitable for above and below ground.
- Pressure point/by-pass bosses cast into the valve as standard, can be drilled and plugged to suit customer requirements.
- Street access down pipe adaptor (see diagram) to provide a cost effective solution for underground installations.
- Also available:
 - False cap
 - Handwheel
 - Handwheel/indicator
 - Also available in cast iron, steel and with factory fitted PE tails.
- 10 bar version available.
- Alternative flange drillings.

Important Note:

Please ensure that further corrosion protection is applied to the valve and flanges immediately following installation. Please refer to Donkin installation document IC5445 prior to installation.



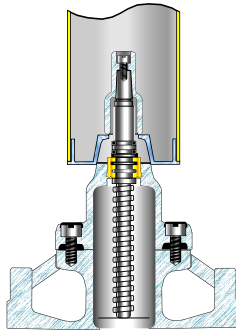
The designs, materials and specifications shown are subject to change without notice due to our continuing programme of product development.

DONKIN DUCTILE IRON SOFTSEAL VALVE, PN7

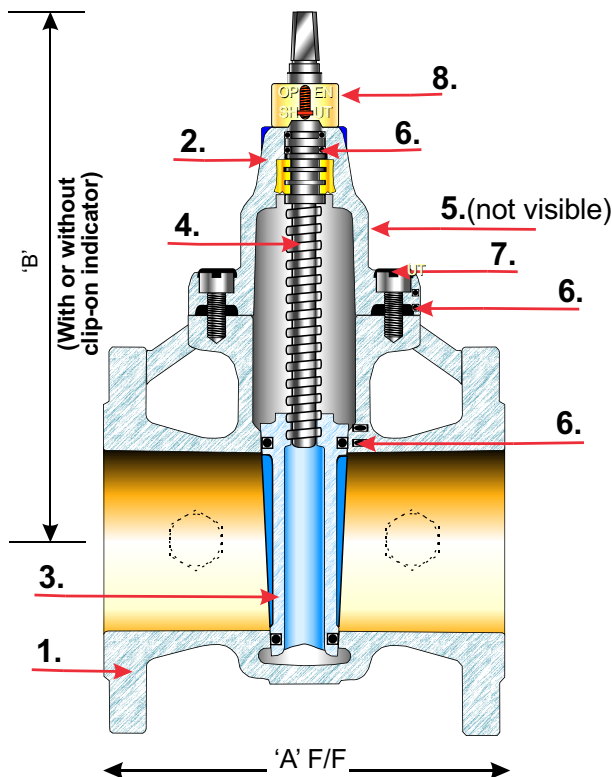
555/301
555/302

APPLICABLE STANDARDS

Valves designed to: GIS/V7 Part 1, EN12266,
EN MSS SP-70, BGE/S/V/3.



Valve fitted with
access pipe adaptor.



SERVICE CONDITIONS

Maximum Working Pressure:

555/301 - 10 Bar (145 psig) (DI Bonnet)

555/302 - 7 Bar (100 psig) (CI Bonnet)

Temperature Range: -10°C to +60°C.

Fluids for Standard Valve: Natural Gas.

Fluids for Optional Valve: Manufactured gas (Viton
'O' rings).

MATERIALS OF CONSTRUCTION

| No. | DESCRIPTION | MATERIAL |
|-----|--|--|
| 1 | Body | SG (ductile) iron to EN1563 450-10, GG40, |
| 2 | Bonnet | SG (ductile) iron to EN1563 450-10, GG40, or cast iron as detailed below. |
| 3 | Wedge Gate | Cast iron to BS EN1561 Gr250, GG25, |
| 4 | Spindle | Standard: Carbon steel. EN10087 11SMn30 (ENIA) Option: Stainless steel. EN10088 X8CrNiS18-9 (303S31) |
| 5 | Pressure relief plug | Carbon steel. EN10087 115Mn30 (ENIA) |
| 6 | Body/bonnet, gate and spindle seals | Standard: Nitrile rubber. EN 682. Type G. Option: Viton. |
| 7 | Fastenings | Grade 8.8 steel. FZB. BS EN ISO 4762. Option: Stainless steel. |
| 8 | Indicator (optional) | Plastic |

GENERAL NOTE

It is important, when installing any valve that pipeline stresses are kept to a minimum and no undue external forces are placed on the valve connections. Correct installation procedures should be followed. For details please see Donkin publication IC5445. Standard flanges are PN16, ASA 150 and other standards available. The Series 555 is also manufactured in ductile iron, steel and with P.E. Tails up to DN315mm.

DIMENSIONS (mm) & WEIGHTS (MkIII)

| Size | A | B | Extra Height with False Cap | Extra Height with Handwheel | P.R. Plug (when fitted) | Approx turns to close | Nett Weight kg |
|------|-----|-----|--------------------------------|--------------------------------|----------------------------|--------------------------|-------------------|
| 50 | 178 | 231 | 19 | 20 | Rp½ | 8½ | 12.5 |
| 80 | 203 | 288 | 19 | 20 | Rp½ | 13½ | 22 |
| 100 | 229 | 303 | 19 | 20 | Rp½ | 15½ | 26 |
| 150 | 267 | 391 | 19 | 20 | Rp¾ | 14½ | 52 |
| 200 | 292 | 478 | 19 | 20 | Rp¾ | 19 | 82 |
| 250 | 330 | 617 | 67 | 11 | Rp¾ | 25 | 150 |
| 300 | 356 | 696 | 67 | 11 | Rp¾ | 27 | 200 |

Note: At the time of printing this publication some of the product features described here are not applicable to the 50mm (2") valve. For full details of this product see publication number 755598.



AVK UK Limited

Northampton Office
8 Rushmills, Northampton,
NN 4 7YB England, UK.
Tel.: +44 (0) 1604 601188
Fax.: +44 (0) 1604 604818

Chesterfield Office
Colley Close, Ireland Ind. Est., Staveley,
Chesterfield, S43 3FH England, UK.
Tel.: +44 (0) 1246 479100
Fax.: +44 (0) 1246 479200



Please consider
the environment
before printing.

www.avkuk.co.uk