

# 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.**



GIS/V7-1  
KM 18241



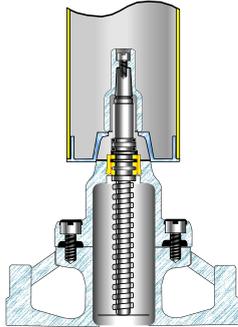
The designs, materials and specifications shown are subject to change without notice due to our continuing programme of product development.

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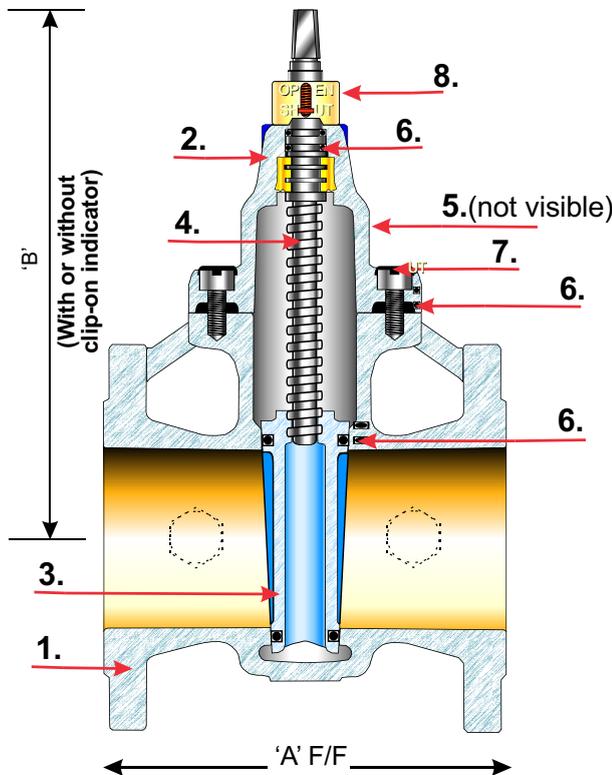
**555/301**  
**555/302**

## 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	Rp $\frac{1}{2}$	8 $\frac{1}{2}$	12.5
80	203	288	19	20	Rp $\frac{1}{2}$	13 $\frac{1}{2}$	22
100	229	303	19	20	Rp $\frac{1}{2}$	15 $\frac{1}{2}$	26
150	267	391	19	20	Rp $\frac{3}{4}$	14 $\frac{1}{2}$	52
200	292	478	19	20	Rp $\frac{3}{4}$	19	82
250	330	617	67	11	Rp $\frac{3}{4}$	25	150
300	356	696	67	11	Rp $\frac{3}{4}$	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.



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