

## DONKIN BALL VALVE, PN16

**450/00 (FL)**  
**450/50 (SC)**

The Series 50 Ball Valve is a quick operating, general purpose valve, with a broad area of application. The valve is suitable for a wide range of non-corrosive fluids, including natural gas, clean air, oil, water and steam. The PTFE seals and fully floating stainless steel ball, are arranged to ensure positive closures at all pressures within the valve rating.

### Features:

- Plugged boss with pressure plug for block and bleed.
- Self indicating handle shows position of valve port.
- Resilient seats compensate for wear to give trouble-free operation with minimum maintenance.
- Pre-loaded PTFE seats ensure tight closure at all pressure or vacuum conditions.
- Fully floating ball on PTFE seats ensures easy operation after long periods in the open or closed position.
- With manual operation only one quarter turn from open to closed position.
- Round port giving smooth, straight through flow with very low pressure drop.

### Options:

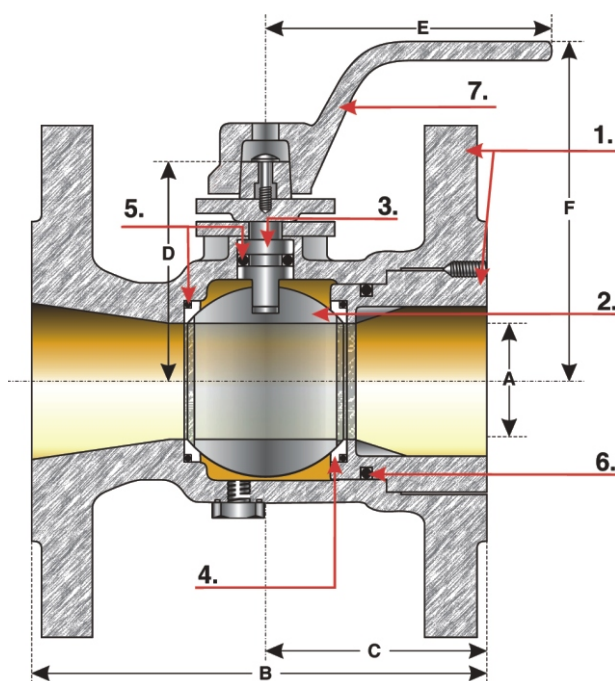
- On certain sizes locking devices available to enable the valve to be locked in either the open or closed position.
- Can be supplied with pneumatic, electric or hydraulic actuators.
- Version available for coke oven gas.
- High temperature version available



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

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## SERVICE CONDITIONS

Maximum working pressure: 7 Bar (100 psig).  
Higher pressures on request  
Temperature range: -10°C to +60°C Nitrile rubber  
-10°C to +200°C Viton rubber

## APPLICABLE STANDARDS

EN12266, BS ISO 7121

## MATERIALS OF CONSTRUCTION

No.	DESCRIPTION	MATERIAL
1	Body & Insert	Ductile iron. BS EN 1563 GJS 400/15.
2	Ball	13% chrome stainless steel. BS EN 1027 316S21.
3	Stem	13% chrome stainless steel. BS 970 GR 316.
4	Seats	PTFE - 15% graphite filled.
5	Stem/Seat seal	Viton rubber. (DN50 Mk2 Nitrile Rubber)
6	Body Seal	Viton rubber. (N/A on Mk2)
7	Lever	Carbon steel.

**NOTE :** Coke oven gas version also available, i.e. 316 stainless steel stem, ball and viton seals.  
Please contact our Chesterfield office for details.

## DIMENSIONS & WEIGHTS

VALVE SIZE	Mk2				
	50mm	50mm	80mm	100mm	150mm
A	38	38	60	80	115
B	178	178	203	229	267
C	89	73	102	114	133
D	N/A	73	117	165	190
E	160	114	190	318	318
F	111	111	133	194	219
WEIGHT (Kg)	7.9	7.85	14	24	44
MAX TORQUE (Nm)	25	27	55	109	218
K (m)	*	3.0	2.5	3.5	6.5

**NOTE :** \*Reference flow rate (EN13774) 0.1 mbar pressure dmp = 16.9 SCMH (gas)  
0.5 mbar pressure dmp = 37.8 SCMH (gas)

Product Description	Size	LNS Number	Comments
Figure 50 Ball Valve - Lever Operated	2"	450006005111	BSP Screwed Ends ,Bleed Plug
Figure 50 Ball Valve - Lever Operated	50mm	450050000111	PN 16 Flanges -Bleed Plug
Figure 50 Ball Valve - Lever Operated	80mm	450080000111	PN 16 Flanges -Bleed Plug
Figure 50 Ball Valve - Lever Operated	100mm	450100000111	PN 16 Flanges -Bleed Plug
Figure 50 Ball Valve - Lever Operated	150mm	450150000111	PN 16 Flanges -Bleed Plug
Figure 50 Ball Valve - Lever Operated	50mm MK2	450050020111	PN 16 Flanges -Bleed Plug

Other Options available are - High Temperature, Coke Oven Gas, Locking Device Fitted, Drain Plug, Other Flange Drillings - Consult manufacturing for availability and codes



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