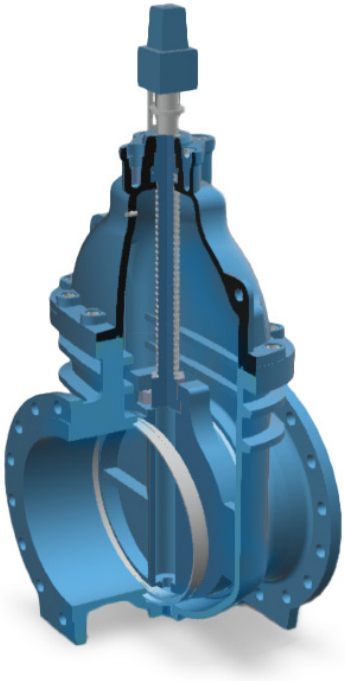
DERWENT FLOW CONTROL

MSGV

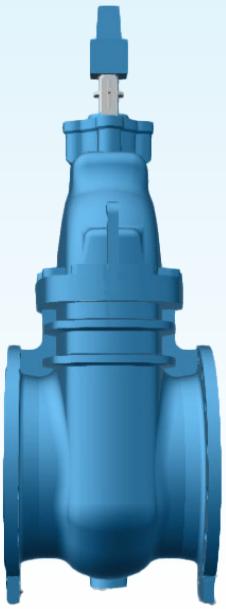
METAL SEATED GATE VALVE

Derwent Industries Metal Seated Gate Valves are manufactured in accordance with **AS/NZS 2638.1**. The Gate Valves are light weight and applicable for water and waste water applications.



FEATURES

- Ductile Iron body and bonnet to AS 1831:500-7
- Gate is Ductile Iron AS 1831:500-7
- Forged Stem: Stainless Steel to ASTM A276, providing excellent corrosion and strength, reducing moving parts.
- Bolts where applicable are hot melt encapsulated for superior corrosion resistance in harsh environments.
- Fusion Bonded Epoxy coated to AS/NZS 4158 provides the valve excellent corrosion protection.
- Valves are available in both Anticlockwise and Clockwise configuration. Valves are supplied with Key Cap as standard, Hand Wheel and gear boxes are optional.
- Bearing is C62300 Aluminium Bronze for superior strength and corrosion resistance.



APPLICATIONS

The Derwent Industries MSGV are for use in Potable Water, Waste Water, Fire, Irrigation, Water Circulation and Heating and Cooling applications and are suitable for both above and below ground installation where a MSGV is required. The system should be pressure tested before backfilling or concealment.

TECHNICAL INFORMATION

Size Range Flanged	DN 80 - 900 DN 1000 - 2000 BS 5163 (Drilling to AS/NZS4087)
Allowable Operating Pressure:	1600 kPa; 1.6 Mpa (PN35 Also available)
Coating	AS4020 Approved
Maximum Test Pressure:	2400 kPa, 2.4 Mpa
Certification	SAI Global DN 80-200, 250-450, SMK/WMK 26590

Lead Free

(This product complies with the lead-free requirements of NCC Vol 3)

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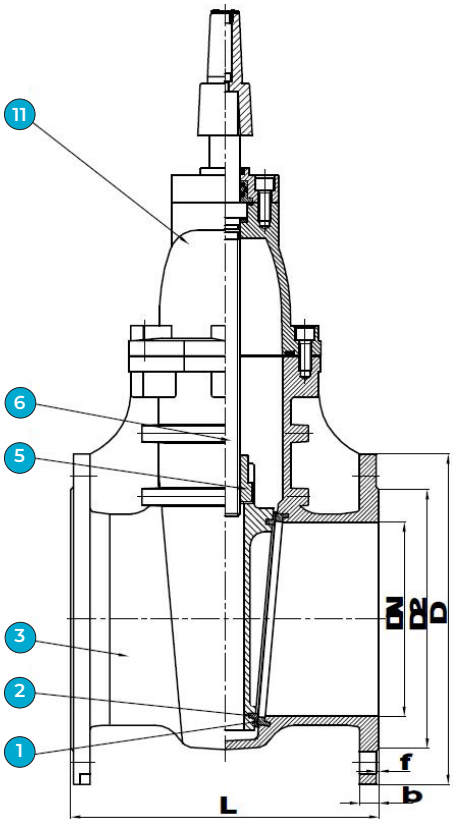
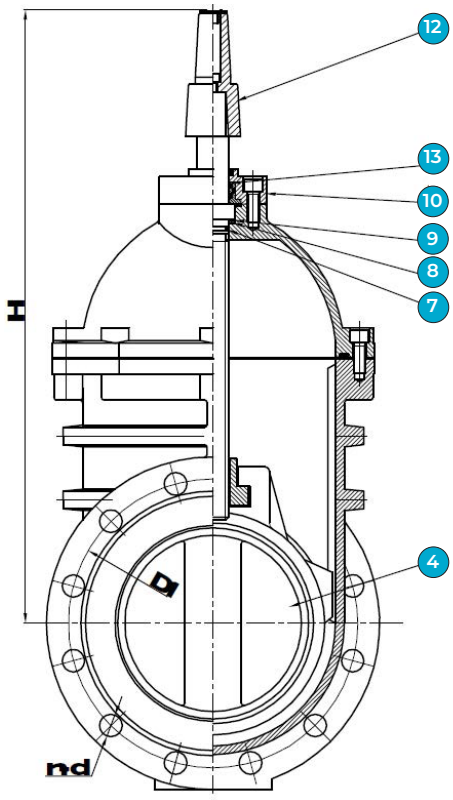
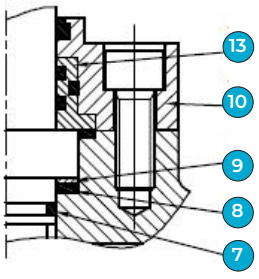


MATERIAL SPECIFICATIONS & PARTS LIST

NO.	PART NAMES	DESCRIPTION	MATERIAL
1	Body Seal Ring	Aluminium Bronze C62300	AS/NZS 1568
2	Gate Seal Ring	Aluminium Bronze C62300	AS/NZS 1568
3	Body	Ductile Iron	AS 1831:500-7
4	Gate	Ductile Iron	AS 1831:500-7
5	Stem Nut	Aluminium Bronze C62300	AS/NZS 1568
6	Stem	Stainless Steel	ASTM A276
7	O-ring	Rubber EPDM	AS 1646 and AS 681.1
8	Back Seat	Rubber EPDM	AS 1646
9	Washer	Nylon	
10	Support	Ductile Iron	AS 1831:500-7
11	Bonnet	Ductile Iron	AS 1831:500-7
12	Square Cap	Ductile Iron	AS 1831:500-7
13	Bearing	Aluminium Bronze C62300	AS/NZS 1568





TECHNICAL REQUIREMENTS

1. Design Standard: AS 2638.1
2. Face to Face Dimensions: AS 2638.1
3. Flanges Standard: AS 4087 PN16
4. Tests standard: AS 2638.1
5. ISO Mount options available

DIMENSIONS (MM)

DN	L	D	D1	D2	b	N-ØD	f	H	W (kg)
80	203	185	146	122	18	4-Ø18	3	400	25
28	229	215	178	154	20	4-Ø18	3	447	28
150	267	280	235	211	23	8-Ø18	3	520	46
200	292	335	292	268	23	8-Ø18	3	630	73
225	305	370	324	300	24	8-Ø18	3	650	92
250	330	405	356	328	24	8-Ø22	3	728	98
300	356	455	406	378	30	12-Ø22	4	812	153

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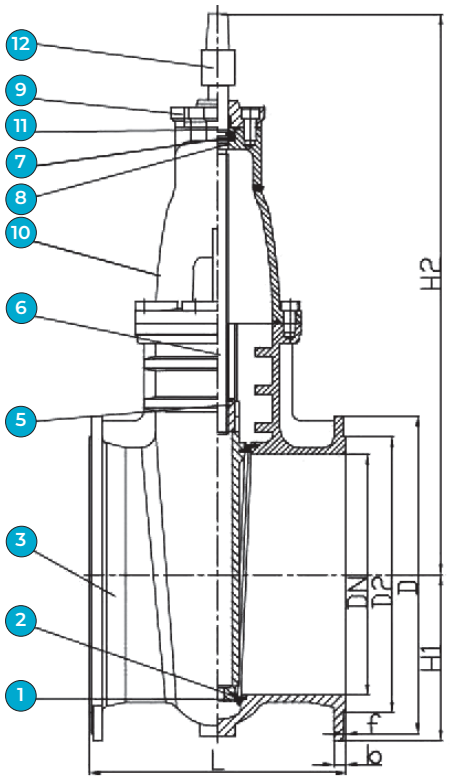
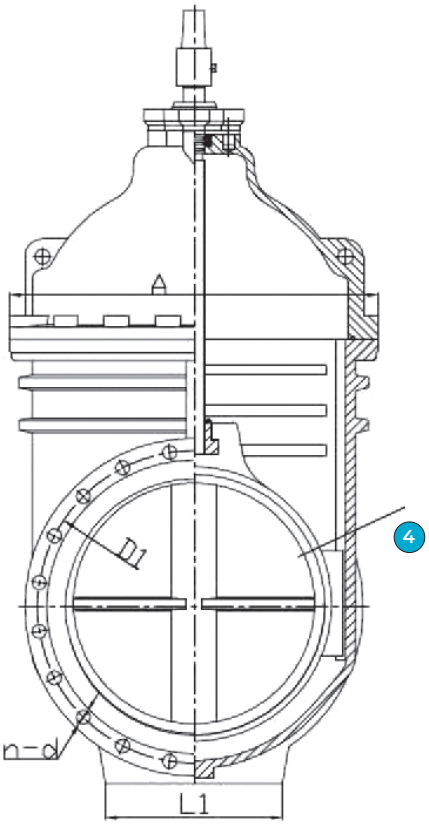
METAL SEATED GATE VALVES - FLANGED DN375 & 450





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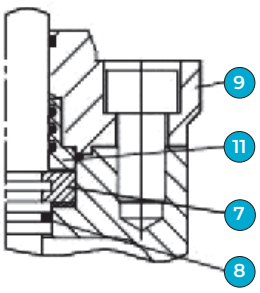
3	Body	Ductile Iron	AS 1831:500-7
4	Gate	Ductile Iron	AS 1831:500-7
5	Stem Nut	Aluminium Bronze C62300	AS/NZS 1568
6	Stem	Stainless Steel	ASTM A276
7	Stem Collar	Stainless Steel	ASTM A276
8	O-ring	Rubber EPDM	AS 1646
9	Support	Ductile Iron	AS 1831:500-7
10	Support	Ductile Iron	AS 1831:500-7
11	Bearing	Aluminium Bronze C62300	AS/NZS 1568
12	Cap top	Ductile Iron	AS 1831:500-7



TECHNICAL REQUIREMENTS

1. Design Standard: AS 2638.1
2. Face to Face Dimensions: AS 2638.1
3. Flanges Standard: AS 4087 PN16
4. Tests standard: AS 2638.1
5. ISO Mount options available

DIMENSIONS (MM)

DN	L	D	D1	D2	b	f	N-ØD	L1	H1	H2	A	W (kg)
375	381	550	495	463	33	4	12-Ø26	285	285	980	580	283
450	432	640	584	552	33	4	12-Ø26	330	330	1109	680	430

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FLANGED MSGV PN16

	VALVE CODE & DIRECTION	PN16 MSGV DATA	ISO MOUNT - No Gear Box			
SIZE	ANTI-CLOCKWISE CLOSING & CLOCKWISE CLOSING AVAILABLE	VALVE DESCRIPTION	ISO MOUNT SIZE	Torque - MAX (NM)	Torque - Norm Operating (NM)	NO. Turns
80	VMSFF80-ACC VMSFF80-CC	80mm Metal Seated Gate Valve DI, Fl/FL PN16		96	32	8
100	VMSFF100-ACC VMSFF100-CC	100mm Metal Seated Gate Valve DI, Fl/FL PN16		108	36	10
150	VMSFF150-ACC VMSFF150-CC	150mm Metal Seated Gate Valve DI, Fl/FL PN16		135	45	14
200	VMSFF200-ACC VMSFF200-CC	200mm Metal Seated Gate Valve DI, Fl/FL PN16		188	63	19
225	VMSFF225-ACC VMSFF225-CC	225mm Metal Seated Gate Valve DI, Fl/FL PN16		198	66	21
250	VMSFF250-ACC VMSFF250-CC	250mm Metal Seated Gate Valve DI, Fl/FL PN16	F14	203	68	22.5
300	VMSFF300-ACC VMSFF300-CC	300mm Metal Seated Gate Valve DI, Fl/FL PN16	F14	231	77	27.5
350	VMSFF350-ACC VMSFF350-CC	350mm Metal Seated Gate Valve DI, Fl/FL PN16	F14	396	132	32
375	VMSFF375-ACC VMSFF375-CC	375mm Metal Seated Gate Valve DI, Fl/FL PN16	F14	485	162	34
400	VMSFF400-ACC VMSFF400-CC	400mm Metal Seated Gate Valve DI, Fl/FL PN16	F14	528	176	36
450	VMSFF450-ACC VMSFF450-CC	450mm Metal Seated Gate Valve DI, Fl/FL PN16	F14	660	220	40
500	VMSFF500-ACC VMSFF500-CC	500mm Metal Seated Gate Valve DI, Fl/FL PN16	F16	792	264	44
600	VMSFF600-ACC VMSFF600-CC	600mm Metal Seated Gate Valve DI, Fl/FL PN16	F16	1122	374	53
700	VMSFF700-ACC VMSFF700-CC	700mm Metal Seated Gate Valve DI, Fl/FL PN16	F25	1540	513	62
750	VMSFF750-ACC VMSFF750-CC	750mm Metal Seated Gate Valve DI, Fl/FL PN16	F25	1788	596	66
800	VMSFF800-ACC VMSFF800-CC	800mm Metal Seated Gate Valve DI, Fl/FL PN16	F25	2035	678	70
900	VMSFF900-ACC VMSFF900-CC	900mm Metal Seated Gate Valve DI, Fl/FL PN16	F25	2618	873	79

Sizes 80mm – 600mm come standard with Key Cap.

Iso Mount sizes are available from 250mm and above.

Table E (stocked) & AS4087 PN35 are also both available.

Bypass options are also available 375mm and above.

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