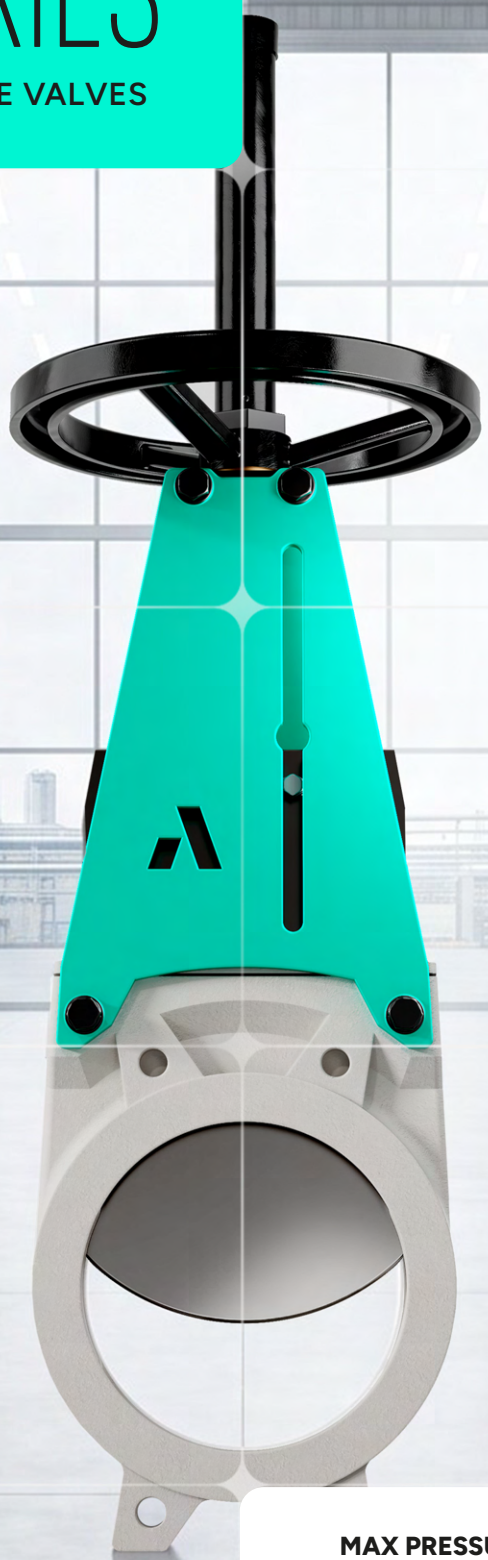
ARNETT VALVES
powered by paravalves

OMNI SERIES

BIDIRECTIONAL KNIFE GATE VALVES

S BIDIRECTIONAL KNIFE GATE



MAX PRESSURE	FACE-TO-FACE
145 PSI (10 BAR)	**1.7"- 6.1"** (43 to 154 MM)
MAX TEMPERATURE	**SIZES**
392°F (200°C)	**2"- 24"** (DN50-DN600)

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BIDIRECTIONAL VALVE

The Arnett Valve OMNI series seals with the pressure on either face, as standard.

The bore is full and the body floor is clear, so media passes through on every stroke instead of settling.

A single moulded top seal closes the gate to the atmosphere.

MAINTENANCE-FREE TOP MOULDED SEAL

One moulded seal in place of a packing line. Zero atmospheric leakage.

ZERO-POCKET CAVITY

A clear body floor. The valve flushes itself on every stroke.

O-RING PROFILE SEAL

Machined groove, o-ring profile. Tight both ways, seal shielded from the media.

THICKEST KNIFE ON THE MARKET

Machined shear tip. Longer life, firmer shearing, at any pressure.

CLEAR CONDUIT ON OPEN POSITION

Open position fully clear. High flow, very low pressure loss.

INTERCHANGEABLE ACTUATION ON ISO 5210

Actuators swap with the valve in the line.

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MATERIAL OPTIONS PER COMPONENT

Component	Standard	Optional
Body	GJS500 ductile iron	CF8M (316)
Knife / Gate	SS304	SS316, Duplex, 17-4 PH
Front support	Carbon steel	SS304
Top moulded seal	EPDM	PU, NBR, NR, AFLAS
Top plate	Carbon steel	SS304
Stem	SS304	SS304
Bridge	Carbon steel	SS304
Coupling nut	Brass	Brass
Friction washer	Brass	Brass
Handwheel	Iron	Iron
D/A pneumatic cylinder	Ductile iron and composite	Ductile iron and composite
Blind cup	PVC	PVC
Seal	EPDM	PU, NBR, NR, AFLAS

Epoxy coating on carbon steel components. Special materials and treatments on request

FLANGE DRILLING SUMMARY

VARIANT	ANSI CLASS	METRIC DRILLING
OMNI S	**Class 150**	**EN 1092 PN10**

Flange drillings to most standards.
Maximum working pressure does not exceed the rating of the selected flange drilling.

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AVAILABLE ACTUATORS

Actuator Type	Size range	Power Source
Handwheel (direct)	**Through 24"** (DN600)	Manual
Gearbox	Consult Arnett	Manual
Electric	Consult Arnett	Electric
Pneumatic cylinder (double-acting)	**Through 24"** (DN600)	Compressed air
Hydraulic cylinder (double-acting)	Consult Arnett	Hydraulic

Actuators interchange on a common ISO 5210 pad with the valve in the line.
Other actuation options on request.

Rising or non-rising stem. On/off service.

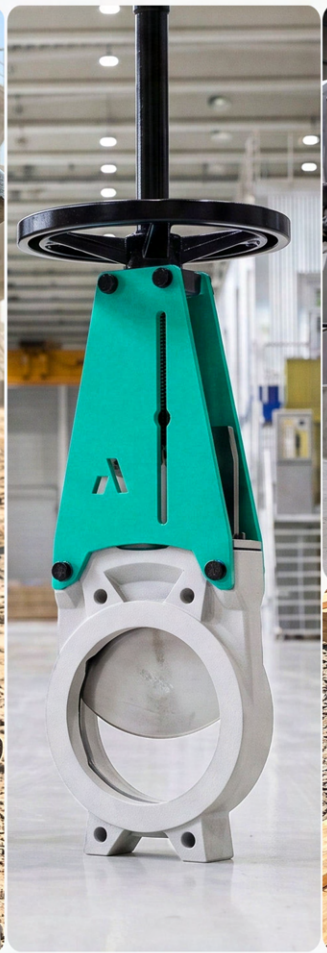
APPLICATIONS

MINING AND MINERAL PROCESSING

POWER GENERATION

PULP AND PAPER

WATER TREATMENT



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BIDIRECTIONAL KNIFE GATE VALVE

Drop-tight from either side, on a bore that clears itself.

145 psi to 12" | 2" to 24" | ANSI Class 150 | Bidirectional drop-tight

SEALED FROM EITHER SIDE

The side seal sits in a machined groove with an o-ring profile. It holds with the pressure on either face and the media stays off the seal.

A FLOOR THAT CLEARS ITSELF

The body has a flat, clear floor. Every closing stroke pushes settled media through, so the seal meets a clean seat each time.

ONE SEAL IN PLACE OF A PACKING LINE

The moulded top seal closes the gate to the atmosphere, in gas and high pressure water service alike. Maintenance-free by design.

CHOOSE OMNI S WHEN

Slurry isolation with pressure from either side, settled solids that would foul a conventional seat, and a packing gland the crew is tired of repacking.

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OMNI S TECHNICAL DATA

WORKING PRESSURE	SIZES	FACE-TO-FACE	FLANGE DRILLING
145 psi (10 bar) **to 12"** **58 psi** (4 bar) **to 24"**	**2" to 24"** (DN50 to DN600)	**1.7" to 6.1"** (43 to 154 mm)	**EN 1092 PN10** ANSI 150

NPS	DN	Face-to-face	Working pressure
2"	50	**1.7"** (43 mm)	**145 psi** (10 bar)
3"	80	**1.8"** (46 mm)	**145 psi** (10 bar)
4"	100	**2.0"** (52 mm)	**145 psi** (10 bar)
5"	125	**2.2"** (56 mm)	**145 psi** (10 bar)
6"	150	**2.2"** (56 mm)	**145 psi** (10 bar)
8"	200	**2.4"** (60 mm)	**145 psi** (10 bar)
10"	250	**2.7"** (68 mm)	**145 psi** (10 bar)
12"	300	**3.1"** (78 mm)	**145 psi** (10 bar)
14"	350	**3.1"** (78 mm)	**58 psi** (4 bar)
16"	400	**4.0"** (102 mm)	**58 psi** (4 bar)
18"	450	**4.5"** (114 mm)	**58 psi** (4 bar)
20"	500	**5.0"** (127 mm)	**58 psi** (4 bar)
24"	600	**6.1"** (154 mm)	**58 psi** (4 bar)

Special face-to-face on request. Working temperature up to 392°F (200°C).

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TECHNICAL DATA
OMNI SERIES

ARNETT ENGINEERED SOLUTIONS

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