

CMO VALVES



Knife Gate Valves

Manual and Actuated



Tel: 01384 411 888
Fax: 01384 411 114
Web: ultravalve.co.uk
E-Mail: sales@ultravalve.co.uk

Knife Gate Valves

New

Knife gate valves have widely been used in pulp or paper industry applications and for handling slurries but are also used in the offshore sector and are suitable for a wide range of wet or dry media. They can be supplied with uni or bi-directional cut-off and are ideal where quarter turn valves are unsuitable.

They can be fitted with actuators or otherwise modified to suit the customer's application.

Knife Gate Stock Range

Cast iron and stainless steel from stock
Cast carbon steel and special alloys available
2"-24" (DN50-DN600)
PN10 also ANSI 150
Wafer Pattern
Handwheel, lever and double-acting cylinder
EPDM, Viton, Nitrile, PTFE or metal seat.

Special Valves

Size up to 40"
Special flange drilling
Lugged pattern flanged, square flange
Double knife, Rubber coated wedge
Bi-directional, Penstocks



KNIFE GATE VALVES

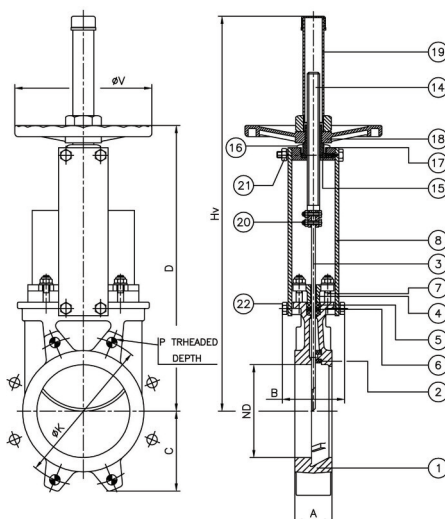
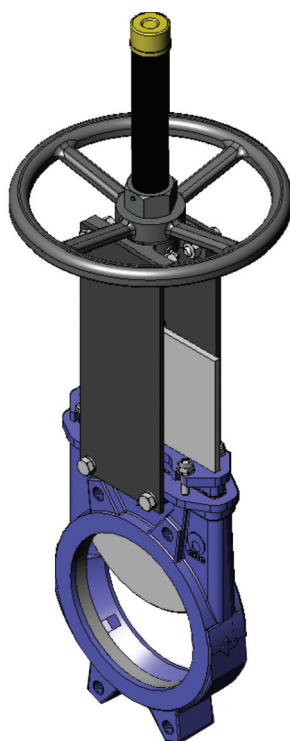
Knife Gate Valve (Manual Hand Wheel)

New

Wafer pattern uni-directional knife gate valve - Pneumatically operated. Designed for a wide range of applications including road vehicle tankers, paper and pulp, effluent handling plants, chemical plants and bulk conveying.

- Uni-directional
- Cast Iron Body / Stainless Steel AISI 304 blade
- EPDM seal (options available)
- Hand Wheel Operated

Part Number: **A1V2H2*** - Cast Iron



Dimensions (mm)								
	Size	A	B	C	D	ØV	Hv	Working Pressure (Bar)
*50	2"	40	92	63	289	185	409	10
*65	2 1/2"	40	92	70	316	185	436	10
*80	3"	50	92	92	342	185	462	10
*100	4"	50	92	105	382	185	502	10
*125	5"	50	102	120	415	225	585	10
*150	6"	60	102	130	458	225	637	8
*200	8"	60	119	160	575	325	815	7
*250	10"	70	119	198	676	325	1016	5
*300	12"	70	119	234	776	380	1116	5
*350	14"	96	290	256	906	460	1336	4
*400	16"	100	290	292	1012	460	1442	4
*450	18"	106	290	308	1098	460	1628	3
*500	20"	110	290	340	1210	460	1740	3
*600	24"	110	290	400	1416	460	2046	3
*700	28"	110	320	452	1611	620	2461	2
*800	32"	110	320	505	1870	620	2820	2
*900	36"	110	320	555	2103	620	3153	
*1000	40"	110	320	610	2293	620	3443	
*1200	48"	150	400	725				

Technical Data

Operating Pressure

See Chart

Operating Temperature

EPDM Max 90°C

Flange Rating

PN10

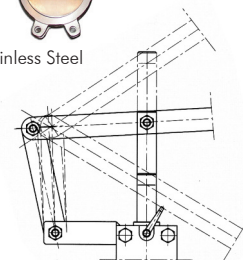
Materials

- Body: GG25
- Guide: RCH-1000
- Knife: 304
- Packing Gland: Aluminium
- Packing: SYNTET. + P.T.F.E.
- O-Ring: EPDM
- Stud: Steel + Zinc
- Support: Steel
- Socket: 316
- Joint: EPDM
- Reinforced Socket: CF8M
- Deflection Cone: CA15
- Joint: BELPA DW
- Spindle: 303
- Stem Nut: Bronze
- Nut: ST 44.2+Zinc
- Yoke: Steel
- Handwheel: Nodular Iron
- Hood: Steel
- Bolts/Nuts/Washers: 304
- Bolts/Nuts/Washers: Steel
- Bolts/Washers: Steel

Additional Options



Stainless Steel



Lever Operated

Various Seal Options

Metal, PTFE, VITON

Special Requests

For assistance, contact our technical office.

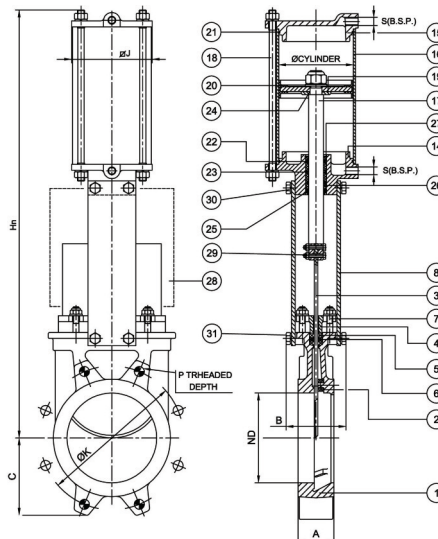
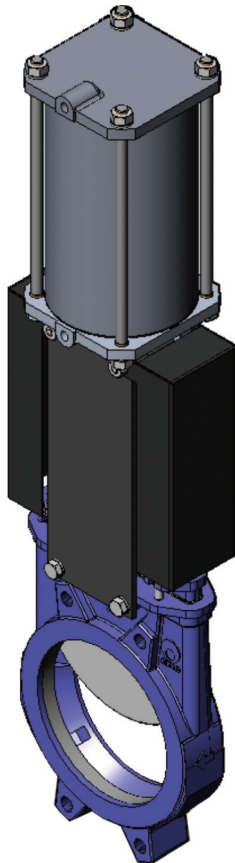
Knife Gate Valve (Air Actuated)

New

Wafer pattern uni-directional knife gate valve – Hand Wheel operated. Designed for a wide range of applications including road vehicle tankers, paper and pulp, effluent handling plants, chemical plants and bulk conveying.

- Uni-directional
- Cast Iron Body / Stainless Steel AISI 304 blade
- EPDM seal (options available)
- Pneumatically Actuated – Double Acting

Part Number: **A1N2H2*** - Cast Iron



Dimensions (mm)									
	Size	A	B	C	Ø Cylinder	S B.S.P.	Ø J	Hn	Working Pressure (Bar)
*50	2"	40	92	63	80	1/4"	96	400	10
*65	2 1/2"	40	92	70	80	1/4"	96	442	10
*80	3"	50	92	92	80	1/4"	96	483	10
*100	4"	50	92	105	100	1/4"	115	546	10
*125	5"	50	102	120	125	1/4"	138	630	10
*150	6"	60	102	130	125	1/4"	138	692	8
*200	8"	60	119	160	160	1/4"	175	869	7
*250	10"	70	119	198	200	3/8"	218	1032	5
*300	12"	70	119	234	200	3/8"	218	1182	5
*350	14"	96	290	256	250	3/8"	270	1379	4
*400	16"	100	290	292	250	3/8"	270	1535	4
*450	18"	106	290	308	300	1/2"	382	1677	3
*500	20"	110	290	340	300	1/2"	382	1839	3
*600	24"	110	290	400	300	1/2"	382	2145	3
*700	28"	110	320	452	350	1/2"	426	2488	2
*800	32"	110	320	505	350	1/2"	426	2798	2
*900	36"	110	320	555	400	1/2"	538	3162	
*1000	40"	110	320	610	400	1/2"	538	3452	
*1200	48"	150	400	725	400	1/2"	538	4048	

Technical Data

Operating Pressure

See Chart

Operating Temperature

EPDM Max 90°C

Flange Rating

PN10

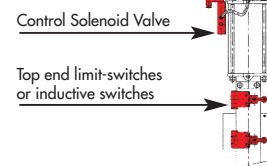
Materials

- ① Body: GG25
- ② Guide: RCH-1000
- ③ Knife: 304
- ④ Packing Gland: Aluminium
- ⑤ Packing: SYNTET.+P.T.F.E.
- ⑥ O-Ring: EPDM
- ⑦ Stud: Steel + Zinc
- ⑧ Support: Steel
- ⑨ Socket: 316
- ⑩ Joint: EPDM
- ⑪ Reinforced Socket: CF8M
- ⑫ Deflection Cone: CA15
- ⑬ Joint: BELPA DW
- ⑭ Cylinder Head: GG45
- ⑮ Cylinder Cap: GG45
- ⑯ Jacket: Aluminium
- ⑰ Piston Rod: 304
- ⑱ Tie Rod: Steel + Zinc
- ⑲ Washer: Steel
- ⑳ Piston: Steel + Nitrile
- ㉑ ㉒ ㉓ O-Ring: Nitrile
- ㉔ Scraper: Steel + Nitrile
- ㉕ Guide Sleeve: Nylon
- ㉖ Elastic Ring: Steel
- ㉗ Protect. (Optional): Steel
- ㉘ Bolts/Nuts/Washers: 304
- ㉙ Bolts/Nuts/Washers: Steel
- ㉚ Bolts/Washers: Steel

Additional Options



Stainless Steel



Various Seal Options

Metal, PTFE, VITON

Special Requests

For assistance, contact our technical office.

STANDARD FABRICATION VALVES

VALVULAS DE FABRICACION ESTANDAR

A – Series Serie – A



DESCRIPTION – DESCRIPCIÓN

Wafer style, uni-directional. High flow rates with low pressure drops. Appropriate for liquids with low solids concentration.

Tipo Wafer, unidireccional. Servicios ligeros y medios. Aguas, líquidos limpios o cargados. Transporte neumático de pulverulentos.

APPLICATIONS – APLICACIONES

Pulp and Paper – Pasta de papel
Mining – Minería

Sewage applications – Aguas residuales
Chemical plants – Plantas químicas
Food and beverage – Alimentaria
Bulk conveying – Silos

DIMENSIONS – TAMAÑOS

Standard from DN50 up to DN2000

Estándar desde DN 50 a DN 2000

Bigger sizes under request

En caso de diámetros mayores consultar.

PRESSURES – PRESIONES

DN 50 - DN 125: 10 bar

DN 150: 8 bar

DN 200: 7 bar

DN 250 - DN 300: 5 bar

DN 350 - DN 400: 4 bar

DN 450 - DN 600: 3 bar

DN 700 - DN 2000: 2 bar

Flanges – Bidas

Standard PN10 – ANSI 150

Other / Otras under request bajo pedido

T – Series Serie – T



DESCRIPTION – DESCRIPCIÓN

Lugged style, uni-directional (optional bidirectional design) knife gate valve designed acc. MSS-SP-81 and TAPPI TIS 405-8 standards. High flow rates with low pressure drops. Appropriate for liquids with low solids concentration.

Tipo Lug, unidireccional (opcional bidireccional). Diseñada de acuerdo a estándares MSS-SP-81 y TAPPI TIS 405-8 Servicios ligeros y medios. Aguas, líquidos limpios o cargados en bajas concentraciones.

APPLICATIONS – APLICACIONES

Pulp and Paper – Pasta de papel
Mining – Minería

Sewage applications – Aguas residuales
Chemical plants – Plantas químicas
Food and beverage – Alimentaria
Bulk conveying – Silos

DIMENSIONS – TAMAÑOS

Standard from DN50 up to DN2000

Estándar desde DN 50 a DN 2000

Bigger sizes under request

En caso de diámetros mayores consultar.

PRESSURES – PRESIONES

DN 50 - DN 600: 10 bar – 150 psi

DN 700 – DN 900: 6 bars – 100 psi

DN 200: 7 bar

DN 250 to DN 300: 5 bar

DN 350 to DN 400: 4 bar

DN 450 to DN 600: 3 bar

DN 700 to DN 2000: 2 bar

Flanges – Bidas

Standard PN10 – ANSI 150

Other / Otras under request bajo pedido

AB – Series Serie – AB



DESCRIPTION – DESCRIPCIÓN

Wafer style, bi-directional. High flow rates with low pressure drops. Appropriate for liquids with low solids concentration. Sewage water applications

Tipo Wafer, bidireccional. Servicios ligeros y medios. Aguas, líquidos limpios o cargados. Aguas residuales

APPLICATIONS – APLICACIONES

Pulp and Paper – Pasta de papel
Mining – Minería

Sewage applications – Aguas residuales
Chemical plants – Plantas químicas
Food and beverage – Alimentaria
Bulk conveying – Silos

DIMENSIONS – TAMAÑOS

Standard from DN50 up to DN2000

Estándar desde DN 50 a DN 2000

Bigger sizes under request

En caso de diámetros mayores consultar.

PRESSURES – PRESIONES

DN 50 - DN 125: 10 bar

DN 150: 8 bar

DN 200: 7 bar

DN 250 - DN 300: 5 bar

DN 350 - DN 400: 4 bar

DN 450 - DN 600: 3 bar

DN 700 - DN 2000: 2 bar

Flanges – Bidas

Standard PN10 – ANSI 150

Other / Otras under request bajo pedido

STANDARD FABRICATION VALVES

VALVULAS DE FABRICACION ESTANDAR

L – Series Serie – L



DESCRIPTION – DESCRIPCIÓN

Trough going style, bidirectional. High flow rates with low pressure drops. Appropriate for liquids with solids in high concentration up to 20%. Also recommended for under silo applications

Tipo Pasante, bidireccional. Servicios ligeros y medios. Aguas, líquidos limpios o cargados en altas concentraciones hasta 20%. También recomendada en aplicaciones bajo silo

APPLICATIONS – APLICACIONES

Pulp and Paper – Pasta de papel
Mining – Minería
Sewage applications – Aguas residuales
Chemical plants – Plantas químicas
Food and beverage – Alimentaria
Bulk conveying – Silos

DIMENSIONS - TAMAÑOS

Standard from DN50 up to DN2000
Estándar desde DN 50 a DN 2000
Bigger sizes under request
En caso de diámetros mayores consultar.

PRESSURES - PRESIONES

DN 50 - DN 125: 10 bar
DN 150: 8 bar
DN 200: 7 bar
DN 250 - DN 300: 5 bar
DN 350 - DN 400: 4 bar
DN 450 - DN 600: 3 bar
DN 700 - DN 2000: 2 bar

Flanges – Bridas

Standard PN10 – ANSI 150

Other / Otras under request bajo pedido

F – Series Serie – F



DESCRIPTION – DESCRIPCIÓN

Wafer style, uni-directional. Appropriate for applications with dry products like dust, powders and grain, and as general rule, it is used for dry solids in gravity feed applications

Tipo wafer, unidireccional. Apropriada para aplicaciones con sólidos secos como pulvurentos y granos. Como normal general se usa en aplicaciones con sólidos por gravedad.

APPLICATIONS – APLICACIONES

Chemical plants – Plantas químicas
Food and beverage – Alimentaria
Bulk conveying – Silos
Mining – Minería

DIMENSIONS - TAMAÑOS

Standard from DN50 up to DN2000
Estándar desde DN 50 a DN 2000
Bigger sizes under request
En caso de diámetros mayores consultar.

PRESSURES - PRESIONES

DN 50 - DN 125: 3 bar
DN 150: 2,5 bar
DN 200: 2 bar
DN 250 - DN 300: 1,5 bar
DN 350 - DN 400: 1,3 bar
DN 450 - DN 600: 1 bar
DN 700 - DN 2000: 0,7 bar

Flanges – Bridas

Standard PN10 – ANSI 150

Other / Otras under request bajo pedido

FK – Series Serie – FK



DESCRIPTION – DESCRIPCIÓN

Wafer style, uni-directional with bonnet. Appropriate for applications with dry products like dust, powders and grain with air or gas in it, and as general rule, it is used for dry solids in gravity feed applications with gases

Tipo wafer, unidireccional con bonete. Apropriada para aplicaciones con sólidos secos como pulvurentos y granos con gas o aire. Como normal general se usa en aplicaciones con sólidos por gravedad con gases

APPLICATIONS – APLICACIONES

Chemical plants – Plantas químicas
Food and beverage – Alimentaria
Bulk conveying – Silos
Mining – Minería

DIMENSIONS - TAMAÑOS

Standard from DN50 up to DN2000
Estándar desde DN 50 a DN 2000
Bigger sizes under request
En caso de diámetros mayores consultar.

PRESSURES - PRESIONES

DN 50 - DN 125: 3 bar
DN 150: 2,5 bar
DN 200: 2 bar
DN 250 - DN 300: 1,5 bar
DN 350 - DN 400: 1,3 bar
DN 450 - DN 600: 1 bar
DN 700 - DN 2000: 0,7 bar

Flanges – Bridas

Standard PN10 – ANSI 150

Other / Otras under request bajo pedido

STANDARD FABRICATION VALVES

VALVULAS DE FABRICACION ESTANDAR

K – Series Serie – K



DESCRIPTION – DESCRIPCIÓN

Wafer style, uni-directional (optional bidirectional) with bonnet. High flow rates with low pressure drops. Appropriate for clean liquids and gases without solids. Small % of dust or powder in fluid the vertical installation recommended.

Tipo wafer, unidireccional (opcional bidireccional) con bonete. Para líquidos limpios y gases sin sólidos. Con pequeño % de polvo en el fluido, instalar vertical.

APPLICATIONS – APLICACIONES

Pulp and Paper – Pasta de papel
Mining – Minería
Sewage applications – Aguas residuales
Chemical plants – Plantas químicas
Food and beverage – Alimentaria
Bulk conveying – Silos

DIMENSIONS - TAMAÑOS

Standard from DN50 up to DN2000
Estándar desde DN 50 a DN 2000
Bigger sizes under request
En caso de diámetros mayores consultar.

PRESSURES - PRESIONES

DN 50 - DN 125: 10 bar
DN 150: 8 bar
DN 200: 7 bar
DN 250 - DN 300: 5 bar
DN 350 - DN 400: 4 bar
DN 450 - DN 600: 3 bar
DN 700 - DN 2000: 2 bar

Flanges – Bridas

Standard PN10 – ANSI 150

Other / Otras under request bajo pedido

GL – Series Serie – GL



DESCRIPTION – DESCRIPCIÓN

Wafer style, bidirectional with rubber sleeve. specially recommended for mining industry in slurry transportation pipe lines (water with stones, mud etc) but it also can be used in other industries when working with abrasive slurries

Tipo wafer, bidireccional con mangón de caucho. Especialmente recomendada para industria minera en líneas de transporte de lodos (agua con rocas, barros...) pero también puede utilizarse en otras industrias con lodos abrasivos

APPLICATIONS – APLICACIONES

Mining – Minería
Sewage applications – Aguas residuales

DIMENSIONS - TAMAÑOS

Standard from DN50 up to DN600
Estándar desde DN 50 a DN 600
Bigger sizes under request
En caso de diámetros mayores consultar.

PRESSURES - PRESIONES

DN 50 – DN 600: 10 bar – 150 psi
Higher pressures available
Mayores presiones disponibles

Flanges – Bridas

Standard PN10 – ANSI 150

Other / Otras under request bajo pedido

D – Series Serie – D



DESCRIPTION – DESCRIPCIÓN

Flanged unidirectional (optional bidirectional) knife gate valve with bonnet for high pressure applications. Appropriate for clean liquids or liquids containing solid particles. Also fluids with gases.

Tipo bridada, unidireccional (opcional bidireccional) con bonete. Apropiaada para líquidos limpios o con contenido en sólidos. También para aplicaciones de líquidos con gases

APPLICATIONS – APLICACIONES

Oil & Gas – Gas & Petróleo
Pulp and Paper – Pasta de papel
Mining – Minería
Sewage applications – Aguas residuales
Chemical plants – Plantas químicas
Pumping Stations – Estaciones de bombeo

DIMENSIONS - TAMAÑOS

Standard from DN50 up to DN2000
Estándar desde DN 50 a DN 2000
Bigger sizes under request
En caso de diámetros mayores consultar.

PRESSURES - PRESIONES

From De PN2.5 – to a PN100

For Para PN16 – Max. DN1000
For Para PN25 – Max. DN800
For Para PN40 – Max. DN800
For Para PN64 – Max. DN600
For Para PN100 – Max. DN600

Flanges – Bridas

Standard PN10 – ANSI 150

Other / Otras under request bajo pedido



Ultravalve Ltd
Units F & G
Westminster Industrial estate
Cradley Rd
Dudley
DY2 9SW