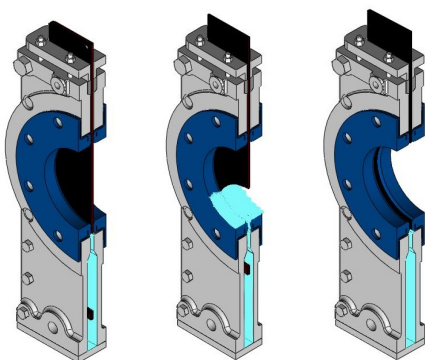




Valves with the Leading Edge

Model 770 Ported Gate Valve

FIG 770 UNIVAS is designed to handle severe service applications in a variety of industries. Basically a full port bi-directional ported gate valve, the design utilizes **twin stainless steel reinforced elastomer seats** that are in contact with the gate *except during opening or closing*. The elastomer seating surfaces are exposed to the media



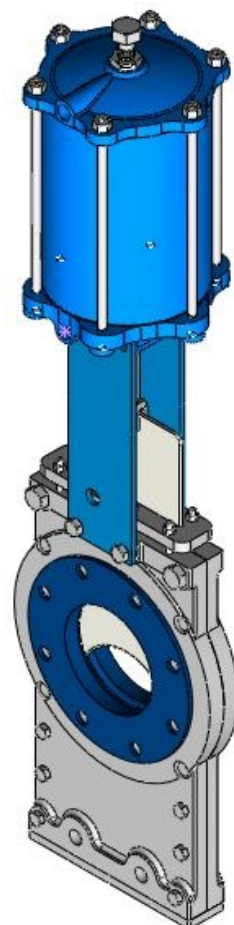
Closed Auto Cleaning Open

only during short duration of the opening or closing operation. This ensures that the valve can work reliably even in slurry media that tend to coat (and possibly cement or harden) on seats.

Another unique feature is the **automatic cleaning** of the seating area. This is achieved by a simple, direct purge fluid connection to the bottom valve body chamber using the purge ports provided as standard. Since the flow bore is isolated from the bottom body chamber *except during opening or closing stroke*, purge fluid (typically at about 5-10psi higher pressure than the flow media) will automatically flow over the seating surfaces and clean them.

The elastomer seats also **double as flange gaskets** and no additional gaskets are necessary to mount the valves in line. Normal gland packing is provided as a secondary sealing.

Valves are offered in ductile iron, steel or stainless steel body construction with stainless steel gate; other materials are available as specials. Manual, pneumatic or electric actuation is available.



Typical Applications

- Cementing slurries, such as rock phosphate slurry
- Pressure or vacuum pneumatic conveying of abrasive powders
- Vacuum applications

Specifications

Type	Through-going soft seated ported gate valve
Size range	2" to 24" (higher sizes on application)
Pressure rating	CWP-150psi standard; others on request
Endstyle	Wafer, flangeless
Face-to face	As per MSS SP-81 (including the seats that act as flange gaskets as well)
Drilling	Suitable for flanges drilled to ANSI ANSI 150lb (standard); others on request.
Body	Ductile iron standard; steel, stainless steel options
Seat	Replaceable, drop-in stainless steel reinforced elastomer seats; EPDM with 304 stainless steel reinforcement standard (max 248 deg F); Viton and other elastomers on request. Gate 304/316 stainless steel is standard; others on request
Packing	PTFE syntax standard; others on request
Stem	304 stainless steel standard; others on request
Superstructure	Steel, epoxy coated standard; others on request
Purge ports	Provided on the bottom body chamber
Actuator options	Direct mounted rising stem hand wheel standard; non-rising hand wheel, chain wheel, geared hand wheel, pneumatic cylinder and electric actuator options available

Test Specifications

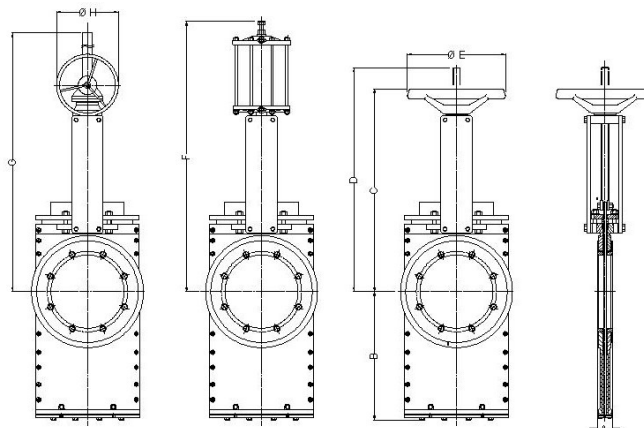
Body shell test	Tested at 1.5 times CWP
Seat test	Tested at 1.1 times CWP for zero leak in either direction

Painting

Standard paint is two-pack epoxy in blue color (other paint options available on request)

Dimensions (inches)

Size	A	B	C	D	E	F	G	H
2"	1.88	7	13	14	10	19	N/A	N/A
3"	2	8	15	17	10	22	N/A	N/A
4"	2	10	17	21	10	25	N/A	N/A
6"	2.25	13	22	26	12	33	N/A	N/A
8"	2.75	18	25	33	12	39	N/A	N/A
10"	2.75	20	28	38	16	46	45	20
12"	3	23	31	44	20	52	49	20
14"	3	25	34	49	20	56	55	20
16"	3.5	28	N/A	N/A	N/A	64	60	20
18"	3.5	31	N/A	N/A	N/A	70	67	20
20"	4.5	35	N/A	N/A	N/A	78	74	20
24"	4.5	41	N/A	N/A	N/A	88	84	20



Dimensions given above are indicative. Please request certified drawings for piping layout

Optional Construction

FIG 770 valves can be supplied with various special constructions to suit specific applications; please consult VAAS with application requirements.

Actuator Selection

Size	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Direct Handwheel	CHG	CHG	CHG	CHG	CHG	CHG	CHG	CHG	--	--	--	--
Gear Handwheel	--	--	--	--	--	G01	G01	G01	G02	G02	G02	G03
Pneumatic DA cylinder	RCGC4	RCGC4	RCGC6	RCGC6	RCGC8	RCGC10	RCGC10	RCGC12	RCGC12	RCGC16	RCGC16	RCGC16

Ordering

Please contact VAAS Americas for complete ordering information .

Available At:



Bay Port Valve & Fitting, Inc.

P.O. Box 315 Phone: (863) 425-0023
2295 S.R. 37 South (800) 369-0194
Mulberry, FL. 33860 Fax: (863) 425-5091

www.bayportvalve.com

* All statements, technical information, and recommendations in this bulletin are for general use only. Consult VAAS representative or factory for the specific requirements and material selection for your intended application. The right to change or modify product design or product without prior notice is reserved.

VAAASTM | Valves with the Leading Edge

The Model 770 UINVAAS is a Bi-directional gate valve available in sizes 2"-24" and is designed to handle severe service applications in a variety of industries. Basically a full port bi-directional ported gate valve, the design utilizes **twin stainless steel reinforced elastomer seats** *that are in contact with the gate except during opening or closing*. The elastomer seating surfaces are exposed to the media only during short duration of the opening or closing operation. This ensures that the valve can work reliably even in slurry media that tend to coat (and possibly cement or harden) on seats.

Another unique feature is the **automatic cleaning** of the seating area. This is achieved by a simple, direct purge fluid connection to the bottom valve body chamber using the purge ports provided as standard. Since the flow bore is isolated from the bottom body chamber *except during opening or closing stroke*, purge fluid (typically at about 5-10psi higher pressure than the flow media) will automatically flow over the seating surfaces and clean them.

The features and benefits of the Model 770

- Interchangeability of actuation (Quick Change Design); The quick change design of the yoke and actuator is as simple as removing 3 to 4 bolts, depending on the valve size, and swapping the actuator. This ease and flexibility of this feature reduces inventory cost in plant store rooms.
- Floating clevis to gate connection; allows the gate to travel along the center line of the valve body and is not hindered by the travel of the actuator.
- Plate Yokes standard.
- The elastomer seats also **double as flange gaskets** and no additional gaskets are necessary to mount the valves in line. Normal gland packing is provided as a secondary sealing.

Typical Applications;

Phosphoric acid slurry	Chemical Slurries
Copper Tailings	Pneumatic conveying
General Mining Slurry	Coal Slurries
Fly ash up to 280F	Sugar Mills
Pulp Stock	Molasses