

# **SERIES 740 BI-DIRECTIONAL KNIFE GATE VALVE**

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DN 50 - DN 600 · 10 bar  
DN 750 - DN 900 · 7 bar



**Bray/VAAS®**

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YOUR GLOBAL FLOW CONTROL PARTNER™

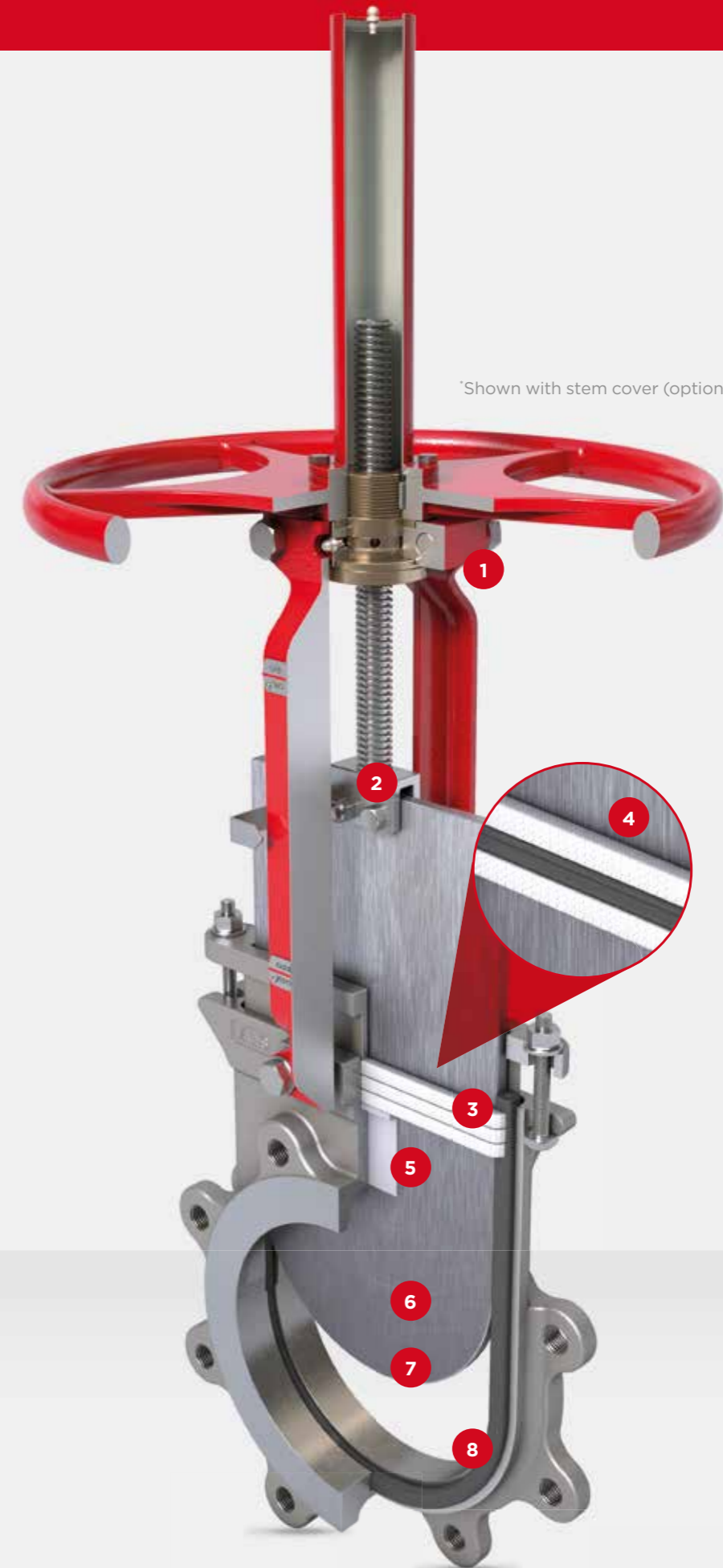
### SERIES 740 BI-DIRECTIONAL KNIFE GATE VALVE

The **Bray/VAAS Series 740** provides repeatable bi-directional shut-off in a rugged, single piece cast body.

Featuring a replaceable flexible wire reinforced elastomer seat for enhanced sealing, the Bray/VAAS Series 740 gate valve is easily automated for on/off applications.

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| <p><b>1</b> Designed for easy, quick conversion between manual and pneumatic actuation. Featuring a lubricant injection port for continuous, smooth operation with minimal maintenance.</p> <p><b>2</b> Clevis design and horizontal bolting stabilises gate ensuring proper alignment.</p> <p><b>3</b> Standard multi-layer square packing provides exceptional gland sealing.</p> <p><b>4</b> Optional energised quad seal packing for enhanced gland sealing.</p> | <p><b>5</b> Wiper/Anti Extrusion Ring minimises the gap between the body and the gate.</p> <p><b>6</b> Unrestricted flow path with minimal pressure drop achieved through full port valve design.</p> <p><b>7</b> Deflection resistant gate design ensures consistent alignment for industry leading durability.</p> <p><b>8</b> Replaceable flexible wire reinforced elastomer seat ensures bidirectional zero leakage shutoff.</p> |
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\*Shown with stem cover (optional)



**SPECIFICATIONS & STANDARDS**

<b>Size Range</b>	DN 50 - DN 900 (2" - 36")	<b>Testing</b>	MSS SP-81
<b>Pressure Rating</b>	Up to DN 600 · 10 bar DN 750 - DN 900 · 7 bar	<b>Face-to-Face</b>	MSS SP-81
<b>Body Style</b>	Single piece, wafer, lug	<b>Certification</b>	Canadian CRN
<b>Design</b>	MSS SP-81	<b>Drilling*</b>	ASME B16.5 CLASS 150, ASME B16.47 CLASS 150

\*Additional drilling options available. Consult factory for availability.

**STANDARD CONSTRUCTION**

Body	Gate	Seat	Stem	Gland	Packing	Topworks
CF8	304	Buna-N	304	304	PTFE**	Steel
CF8M	316	Buna-N	304	304	PTFE**	Steel
WCB	304	Buna-N	304	WCB	PTFE**	Steel

\*\*PTFE impregnated synthetic fibre

**BODY OPTIONS**

CF3M Stainless Steel
SAF 2205 Duplex
SAF 2507 Duplex

**GATE OPTIONS**

316, 317 Stainless Steel
SAF 2507 Duplex
SAF 2205 Duplex
17-4PH Stainless Steel
Hastelloy® C
Monel®

**ACTUATOR OPTIONS\***

Direct Mounted Handwheel (Standard DN50 - DN 350)
Bevel Gear (Standard DN400 - DN 600)
Pneumatic
Hydraulic
Electric

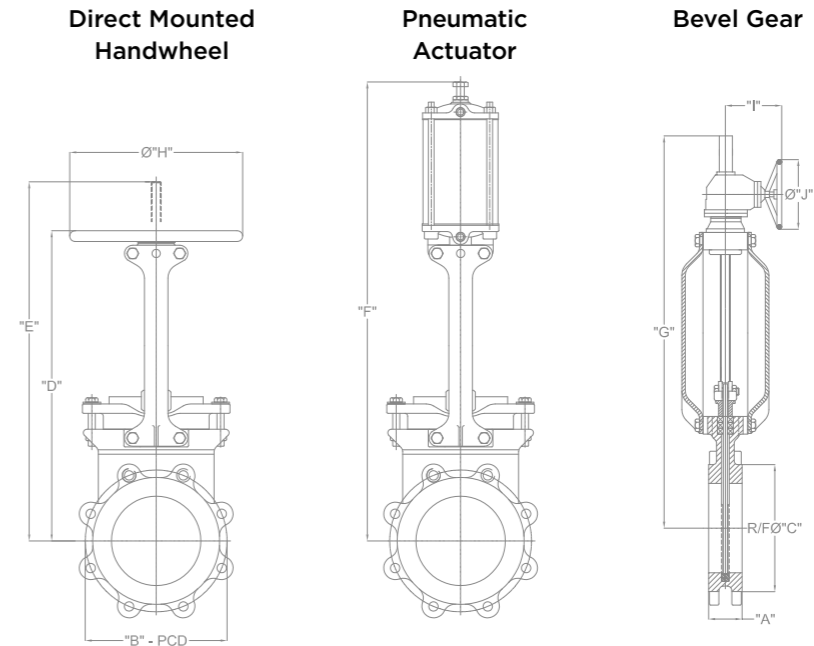
**SEAT OPTIONS**

<b>Buna-N</b>	-37° - 90° C
<b>EPDM</b>	-54° - 120° C
<b>Viton®</b>	-26° - 200° C

**PACKING OPTIONS**

<b>PTFE**</b>	232° C
<b>PTFE / Buna-N Quad Seal¹</b>	90° C
<b>PTFE / Viton® Quad Seal¹</b>	200° C

\*Additional material options may be available upon request. Consult factory for availability.



**DIMENSIONS [mm]**

DN	A	B	R/FøC	D	E	F	G	øH	I	øJ
50	48	121	92	364	386	488	-	254	-	-
80	51	152	127	425	473	576	-	254	-	-
100	51	191	157	471	547	648	-	254	-	-
125	57	216	186	530	630	758	-	299	-	-
150	57	242	216	567	680	827	667	299	296	508
200	70	299	270	627	852	998	790	406	296	508
250	70	362	324	756	1024	1188	954	406	296	508
300	76	432	375	849	1182	1365	1126	508	306	508
350	76	476	413	942	1322	1494	1296	508	306	508
400	89	540	470	-	-	1638	1377	-	306	508
450	89	578	534	-	-	1885	1570	-	306	508
500	114	635	584	-	-	2060	1721	-	306	508
600	114	750	692	-	-	2352	2021	-	306	508

Dimensions are approximate and subject to change. Consult factory for certified drawings.

**WEIGHTS [kg]**

DN	50	80	100	125	150	200	250	300	350	400	450	500	600
<b>Handwheel</b>	9	15	16	24	26	37	55	84	122	-	-	-	-
<b>Pneumatic Actuator</b>	18	20	26	38	42	59	105	152	198	245	292	387	482
<b>Gear Operator</b>	-	-	-	-	-	52	89	102	138	182	237	302	465

Approximate weights shown with direct mounted handwheel, consult factory for additional configurations.



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