

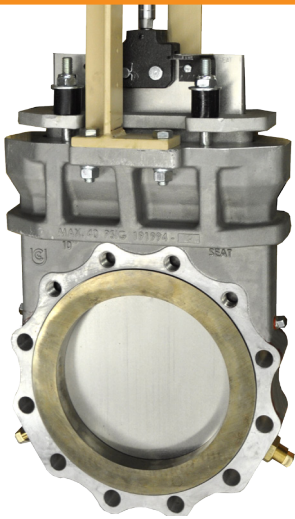


40D Knife Gate Valve

For nearly 20 years, the United Conveyor Corporation (UCC) 40D Knife Gate Valve has delivered reliable performance in over 5,000 installed units worldwide. Designed specifically for on/off pipeline isolation service in pneumatic conveying applications of abrasive material such as dry ash, this rugged and easy to maintain valve is a proven industry standard.

UCC has taken this reliable design and incorporated several enhancements for improved sealing performance, greater reliability and extended service life. The 40D knife gate valve is shipped fully assembled to reduce field assembly and installation costs.

40D Knife Gate
Valve



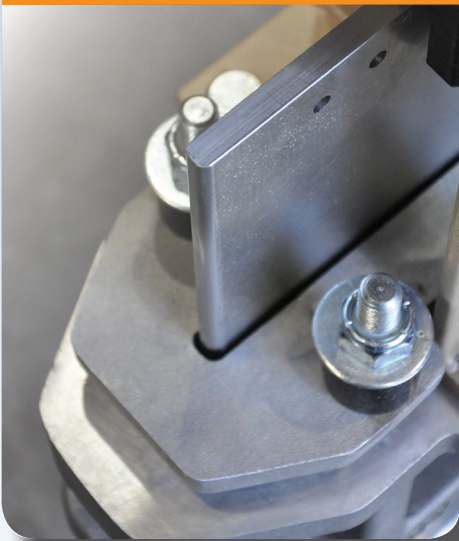
FEATURES

- Line Size: 4 to 16 inch
- Maximum Operating Pressure: 40 psi
- Maximum Operating Temperature: 205°C
- Flange Connection: ANSI B16.5, Class 125/150
- Single Piece, Cast Aluminum Body
- Air Cylinder Operating Pressure: 80-100 psi

ADVANTAGES

- **Superior Sealing Performance**
 - › Spring-loaded packing design maintains seal pressure during operation, preventing leakage and extending the life of the blade and packing
 - › Multi-layered PTFE impregnated yarn reduces friction on the blade providing a pressure-tight seal and easy operation
- NEW › Rounded blade edges provide improved sealing and prevent packing damage
- NEW › Crowned, packing gland maintains uniform pressure on the packing
- NEW › Precision-machined blade guides prevent lateral gate movement assuring proper blade operation
 - › Adjustable blade wedge pins (branchline only) align the blade tight against the seat
- **Longer Service Life**
 - › Replaceable seat, flow cone and wear liner allow the valve to be economically rebuilt
 - › Stainless steel blade provides excellent corrosion resistance

New Rounded
Blade Edge

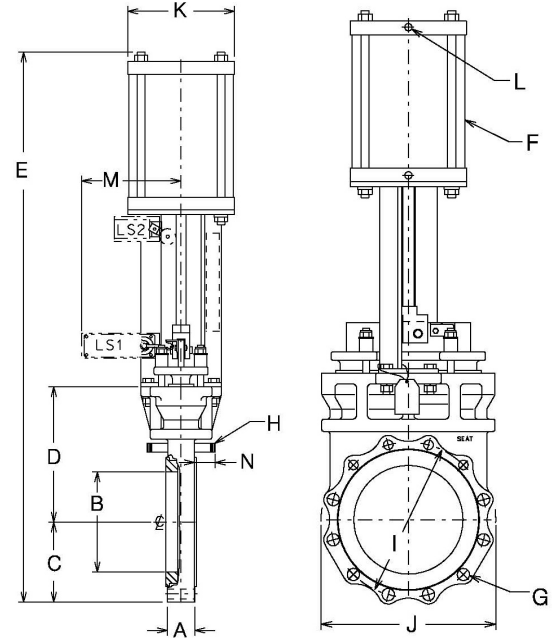


400 Knife Gate Valve

ADVANTAGES (cont.)

Optional Components

- › Blade material options: 304 or 316 stainless steel
- › Seat material options: hardened ductile iron or ceramic tiled
- › Flow cone material options: hardened ductile iron, ceramic tiled or tungsten carbide
- › Wear liner material options: hardened ductile iron or ceramic tiled
- › Actuator options: air cylinder, handwheel, chainwheel or motor operator
- › Roller lever type and proximity limit switches are available with pre-drilled brackets for easy installation
- › Purge air kit allows material buildup to be flushed from the body cavity
- › Rainhood provides environmental protection
- › Pre-piping options:
 - Brass or stainless steel Swagelok® fittings
 - Rubber or stainless steel Swagelok hoses



KEY DIMENSIONS

Valve Size (dia.) (mm)	A Install Width	B (dia.)	C	D	E	F Cyl. Bore	G Thru Holes (dia.)	H Total Studs	I B.C.	J	K	L NPTF	M	N	Weight (kg)
100	50,8	100	114	215	795	150	(6) 3/4"	(4) 5/8" - 11	7-1/2"	228	165	3/8"	228	79	48
150	57,2	150	140	247	992	150	(4) 7/8"	(8) 3/4" - 10	9-1/2"	279	165	3/8"	257	92	61
200	69,9	200	172	282	1174	200	(4) 7/8"	(8) 3/4" - 10	11-3/4"	342	215	3/8"	250	101	102
250	69,9	250	203	342	1385	250	(8) 1"	(8) 7/8" - 9	14-1/4"	406	269	1/2"	250	114	155
300	76,2	300	241	396	1600	250	(8) 1"	(8) 7/8" - 9	17"	482	269	1/2"	241	114	179
350	76,2	350	267	447	1785	250	(8) 1-1/8"	(8) 1" - 8	18-3/4"	533	269	1/2"	241	136	196
400*	88,9	400	299	546	2127	300	(10) 1-1/8"	(12) 1" - 8	21-1/4"	596	323	1/2"	-	174	295

*The new features only apply to 100 mm– 350 mm size valves

ORDERING INFORMATION

Please reference UCC Drawing 5-1918-4 for current product information.

UNITED CONVEYOR CORPORATION

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