



40DH

Heated Knife Gate Valve

United Conveyor Corporation (UCC) 40DH Heated Blade Knife Gate Valve is specifically designed for on/off pipeline isolation service in the pneumatic conveying of ash exposed to dry scrubbers and dry sorbent injection systems. Dry scrubber ash contains a high amount of calcium compounds, which sets up and hardens during the conveying process causing problems to gates and valves. UCC has taken the reliable and rugged design of the 40D knife gate valve and applied proven heating technology to the blade. Proper heating of the blade prevents the build-up of dry scrubber ash for improved sealing performance, increased packing life and greater reliability. The 40DH knife gate valve is shipped fully assembled to reduce installation cost.

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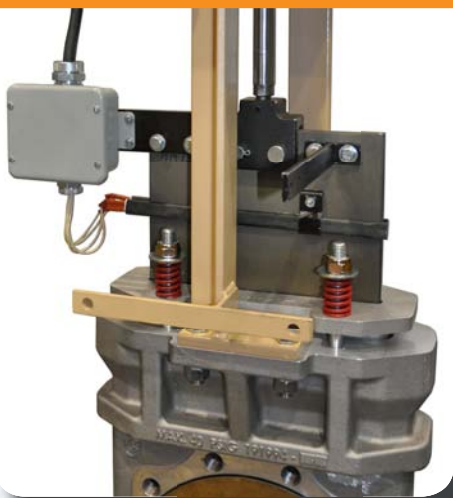
FEATURES

- Line Size: 4 to 14 inch
- Maximum Operating Pressure: 40 psi
- Maximum Operating Temperature: 400°F
- Flange Connection: ANSI B16.5, Class 125/150
- Single Piece, Cast Aluminum Body
- Heated Blade
- Air Cylinder Operating Pressure: 80-100 psi

ADVANTAGES

- **Longer Service Life**
 - › Heated blade prevents material build-up which improves packing seal performance and life
 - › Stainless steel guard improves heat retention
 - › Hardcoat anodized aluminum blade allows proper heat transfer while providing abrasion resistance
 - › Replaceable seat, flow cone and wear liner allow the valve to be economically rebuilt
 - › Replaceable blade wedge pins (branchline only) allow the body to be reused
- **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
 - › Rounded blade edges provide improved sealing and prevent packing damage
 - › Crowned packing gland maintains uniform pressure on the packing

Heating Elements



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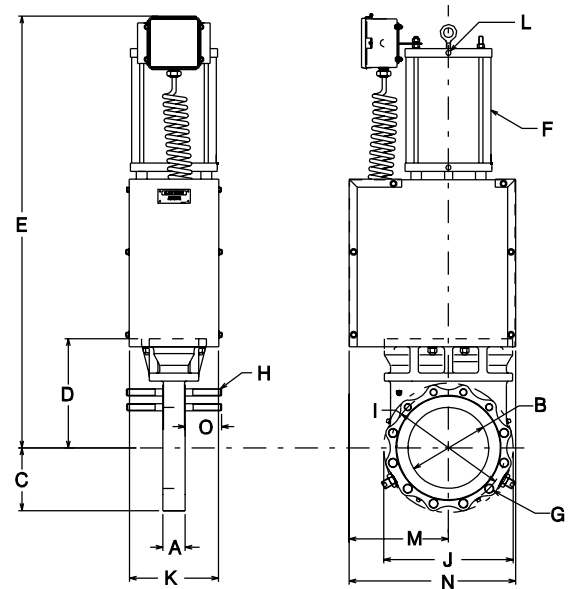
ADVANTAGES (cont.)

■ Superior Sealing Performance (cont.)

- › Precision-machined blade guides prevent lateral movement extending packing life
- › Adjustable blade wedge pins (branchline only) align the blade tight against the seat

■ Optional Components

- › Valve configuration options: hardened ductile iron flow cone, wear liner or seat
- › Air cylinder actuator
- › Roller lever type and proximity limit switches are available with pre-drilled brackets for easy installation
- › Rainhood provides environmental protection
- › Pre-piping options:
 - Brass or stainless steel Swagelok® fittings
 - Rubber or stainless steel Swagelok hoses



KEY DIMENSIONS

Valve Size (dia.)	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	O	Weight
4"	2"	4"	4-1/2"	8-1/2"	40-3/8"	6"	(6) 3/4"	(4) 5/8" - 11	7-1/2"	9"	9-1/8"	3/8"	9-15/16"	16-1/4"	2-1/2"	140 lbs.
6"	2-1/4"	6"	5-1/2"	9-3/4"	46"	6"	(4) 7/8"	(8) 3/4" - 10	9-1/2"	11"	9-1/8"	3/8"	9-15/16"	16-1/4"	3-5/8"	173 lbs.
8"	2-3/4"	8"	6-3/4"	11-1/8"	46"	8"	(4) 7/8"	(8) 3/4" - 10	11-3/4"	13-1/2"	10"	3/8"	11"	18"	4"	230 lbs.
10"	2-3/4"	10"	8"	13-1/2"	53"	10"	(8) 1"	(8) 7/8" - 9	14-1/4"	16"	11-3/4"	1/2"	12-3/8"	20-5/8"	4-1/2"	323 lbs.
12"	3"	12"	9-1/2"	15-5/8"	60"	10"	(8) 1"	(8) 7/8" - 9	17"	19"	11-3/4"	1/2"	13-1/2"	23-5/8"	4-1/2"	365 lbs.
14"	3"	14"	10-1/2"	17-5/8"	66"	10"	(8) 1-1/8"	(8) 1" - 8	18-3/4"	21"	11-3/4"	1/2"	14-1/2"	25-1/8"	5-3/8"	391 lbs.

ORDERING INFORMATION

Please reference UCC Drawing 5-1918-115 for current product information

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