

# PASTE & THICKENED TAILINGS FLOW CONTROL



## PROESTOP

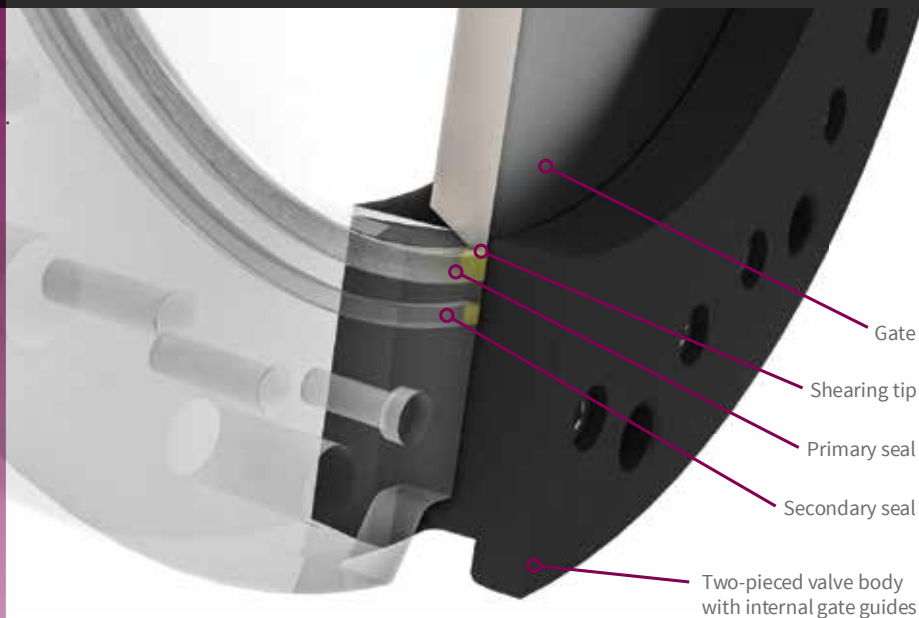
SEVERE SERVICE KNIFE GATE VALVE

Every point of the delivery process, covered.

# CUTTING EDGE TECHNOLOGY FOR PASTE BACKFILL APPLICATIONS

Proeger Knife Gate Valves represent the cutting edge in paste backfill valve technology because of our unmatched ability to isolate and control solids in suspension.

With Class 600 and 900 models available, our valves thrive at mining facilities around the world.



## PROEGER VALVES GUIDED SHEAR GATE DESIGN

### Problems We've Solved in Paste Backfill Applications

**PROBLEM:** Pipe turbulence and erosion.

**SOLUTION:** Proeger Valves make zero-leakage bidirectional SSKGVs that can isolate from full vacuum to ASME Class 900/PN 150 pressures (2220 psig/153 barg).

**PROBLEM:** Paste backfill is detrimental to valve life, causing plants to shut down regularly for replacements.

**SOLUTION:** Proeger Valves are equipped with replaceable parts that enable a lengthy service life and the lowest cost of ownership.

**PROBLEM:** Velocity changes and turbulence can lead to the liquid and solid component of paste separating.

**SOLUTION:** Proeger Valves have a wide bore which keeps the paste flowing in a homogeneous manner.

**PROBLEM:** Paste backfill can solidify and cause valves to seize.

#### **SOLUTIONS:**

- Proeger Valves use a Guided Shear Gate design and shearing tip enabling them to cut through paste and the solids within it.
- Gaps and dead spaces have been removed in the valve design and flushout ports have been included to remove any excess material responsible for potential blockages and valve seizures.

# DIMENSIONS

SSKGV CLASS 150 DIMENSIONS																			
VALVE SIZE			FLANGE						DIMENSIONS										STANDARD PNEUMATIC CYLINDER BORE
			BOLTING			DIMENSIONS													
NPS	DN (MM)	CLASS	QTY.	ØA (THREAD)	ØA (CLEARANCE)	ØB	ØC	ØD	E	F	ØG	SHORT PATTERN	LONG PATTERN	J	K	L	M		
												H	H						
3	75	150	4	5/8-11	0.75	2.88	6.00	7.50	16.60	20.35	10.00	2.00	4.00	21.76	25.51	3.75	5.50	3.25	
4	100		8	5/8-11	0.75	4.00	7.50	9.00	18.58	23.08	10.00	2.00	4.12	24.63	29.13	4.50	6.25	4.00	
5	125		8	3/4-10	0.88	5.00	8.50	10.00	21.41	26.41	12.00	2.00	-	26.54	31.54	5.50	10.00	5.00	
6	150		8	3/4-10	0.88	6.00	9.50	11.00	23.29	28.79	12.00	2.25	2.50	31.80	37.30	6.50	10.25	6.00	
8	200		8	3/4-10	0.88	8.00	11.75	13.50	29.33	36.08	12.00	2.75	2.88	37.16	43.91	8.50	12.75	8.00	
10	250		12	7/8-9	1.00	10.00	14.25	16.00	33.19	41.19	12.00	2.75	3.12	43.58	51.58	10.63	14.50	10.00	
12	300		12	7/8-9	1.00	12.00	17.00	19.00	32.64	42.14	16.00	3.00	3.25	55.56	61.95	12.75	16.75	12.00	

SSKGV CLASS 300 DIMENSIONS									
VALVE SIZE			FLANGE					FACE-TO-FACE SHORT PATTERN	FACE-TO-FACE LONG PATTERN
			BOLTING			DIMENSIONS			
NPS	DN (MM)	CLASS	QTY.	ØA (THREAD)	ØA (CLEARANCE)	ØC	ØD	H	H
3	75	300	8	3/4-10	0.88	6.62	8.25	2.75	4.00
4	100		8	3/4-10	0.88	7.88	10.00	2.75	4.12
6	150		12	3/4-10	0.88	10.62	12.50	3.15	4.12
8	200		12	7/8-9	1.00	13.00	15.00	3.50	4.63
10	250		16	1-8	1.12	15.25	17.50	4.68	5.38
12	300		16	1 1/8-8	1.25	17.75	20.50	5.00	5.63

SSKGV CLASS 600 DIMENSIONS								
VALVE SIZE			FLANGE					FACE-TO-FACE
			BOLTING			DIMENSIONS		
NPS	DN (MM)	CLASS	QTY.	ØA (THREAD)	ØA (CLEARANCE)	ØC	ØD	H
3	75	600	8	3/4-10	0.88	6.62	8.25	3.50
4	100		8	7/8-9	1.00	8.50	10.75	4.00
6	150		12	1-8	1.13	11.50	14.00	5.00
8	200		12	1 1/8-8	1.25	13.75	16.50	6.00
10	250		16	1 1/4-8	1.38	17.00	20.00	6.75
12	300		20	1 1/4-8	1.38	19.25	22.00	7.50

Dimensional information for class 900# pound valves is available on request.



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