## **SERIES 942**

# VORTEX BREAKER KNIFE GATE VALVES FOR RECYCLE/REJECTS

4" to 12" 150psi (10bar)





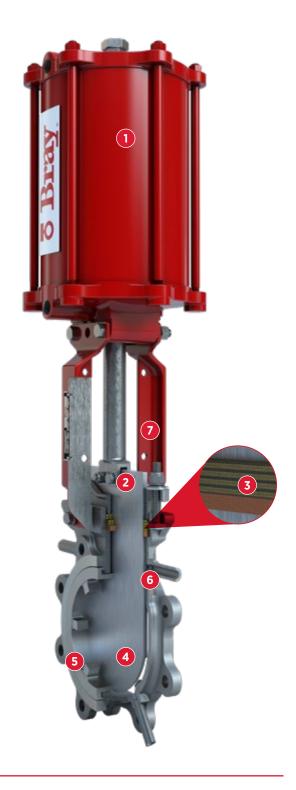
### **FEATURES & BENEFITS**

#### **DESIGN FEATURES**

The Bray Series 942 is engineered for on/off service and isolation of pulp and paper recycle and rejects applications. The 942 offers superior preformance in demanding, high-cycle services that require shearing capabilitites such as cyclone separators and recycle high density cleaners.

Bray Series 942 heavy duty is an engineered solution featuring a standard replaceable Vortex Breaker designed to interrupt cyclonic flow formation which causes premature gate damage.

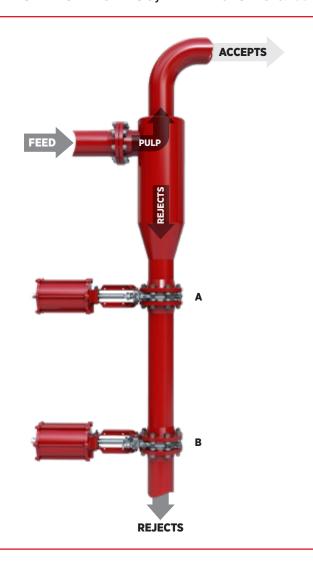
- 1 Pneumatic actuator sized and designed for high cycle applications.
- 2 Clevis design and horizontal bolting stabilizes gate ensuring proper alignment and reducing failure points commonly found in knife gate valves.
- 3 HD packing system using a copper scraper and high performance packing, including machined packing chamber, live-loaded packing gland to assure extended cycle life and minimizes thrust of actuation.
- 4 Abrasion and impact resistant 17-4PH H-1025 gate.
- 5 Standard Vortex breaker is designed to disrupt cyclonic flow formation of reject materials (staples, wire, nails, sand, etc) A36 with tungsten carbide coating provides extended service life.
- 6 Purge ports in seat and chest area allow full flushing capability while cycling.
- 7 Cast yoke superstructure robust design engineered for heavy duty actuators.



#### **APPLICATION**

> Knotter, Rejects, Pulpers, Scavengers and Cyclone Cleaners





### **TECHNICAL SPECIFICATIONS**

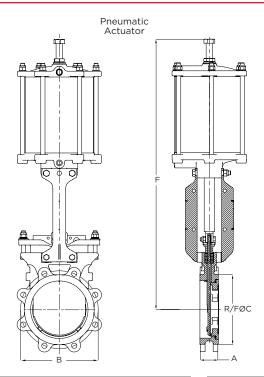
Size Range	NPS 4 to 12   DN 100 to 300		
Body Style	Single piece   Lug		
Pressure Rating	4-12 150psi   100-300mm 10 bar		
Drilling	ASME B16.5 CL150		
Face to Face	MSS SP-81		
Certification	CE/PED		
Design Standard	MSS SP-81		
Testing Standard	MSS SP-151		

#### STANDARD CONSTRUCTION

Body	CF8M (316)	
Gate	17-4PH H-1025	
Seat	Hard Faced	
Gland	304	
Packing	High Performance Aramid packing with bottom copper wiper	
Topworks	CS	
Vortex Breaker	A36 with Tungsten Carbide overlay	

#### **RECYCLE PROCESS**

- 1. A & B are closed while system fills
- 2. A opens and rejects media drops through Valve A into Valve B
- 3. Quality pulp flows upward to the process and reject material falls down for recycling
- 4. Valve A closes and Valve B opens discharging rejects until empty
- 5. Valve B then closes



DIMENSIONS (Inches)				
NPS	Α	В*	R/FØC	F
4	2.00	7.50	6.19	25.39
6	2.25	9.50	8.50	31.65
8	2.75	11.75	10.62	38.74
10	2.75	14.25	12.75	44.21
12	3.00	17.00	15.00	51.22

١	WEIGHT (lbs)
	PNEUMATIC ACTUATOR
	53
	84
	121
	212
	313

DIMENSIONS (Millimeters)				
DN	Α	В*	R/FØC	F
100	51	190.5	158	645
150	57	241.3	216	804
200	70	295.5	270	984
250	70	362.0	324	1123
300	76	431.8	375	1301

WEIGHT (kg)
24
38
55
96
142

- 1 Dimensions are approximate and subject to change. Consult factory for certified drawings.
- \* In conformance with ASME B16.5, Class 150 for sizes NPS 4 (DN100) through NPS 12 (DN300.)

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#### **HEADQUARTERS**

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