

### DUAL FLANGED SLEEVE GATE VALVE



Zero discharge to the atmosphere. Full round port design.

**DUAL's** Flanged Sleeve Gate Valve is a unique valve designed specifically for heavy abrasive and corrosive slurries. The Patented design allows the valve to cycle in heavy slurries without jamming and has a ring seat sleeve that can be replaced when worn. The valve can be used to control and throttle the flow. Zero discharge to atmosphere.

**ALL VALVES ARE HYDROSTATICALLY TESTED BEFORE SHIPMENT**

#### FEATURES

- Seals in both directions.
- No blockage or leakage.
- No pressure drop.
- Blade can be replaced in situ.
- Low torque.
- Self cleaning gate action.
- Wedge for position seal.
- Cutaway to clean seating area.
- Fabricated valves can be repaired in line.
- Sleeve out of flow when in open position.
- Deflection cone reduces seat wear.
- Back seat to re-pack gland packing under pressure.
- Replaceable ring sleeve seat.
- Light weight.
- Spindle dust cover.
- Flush port.
- Zero discharge to atmosphere.
- Suitable for dead-end-service.

#### PRODUCT SPECIFICATION

**SIZE RANGE:** 50mm to 900mm.

**BODY TYPE:** Flanged pattern Cast SG Iron, Stainless Steel or Fabricated Steel with Epoxy coating.

**PRESSURE RATING:** DN50 to DN900 rated to 300Psi (25 Bar).

**ELASTOMER RING SLEEVE:** Gum Rubber (standard), Nitrile, Viton, EPDM, Chlorobutyl or Urethane.

**GATE MATERIAL:** 316 Stainless Steel standard - 316L, 317L, 17-4PH, Alloy 20, SAF 2205 S/S.

**GATE SURFACE COATING:** SSEC Coating Available.

**DRILLING PATTERNS:** DN50 to DN900 drilled and tapped ASME B16.5, DIN, SABS & BS Optional.

**BODY LINING:** Rubber, Urethane or Ceramic.

**REPLACEABLE WEAR RINGS:** Rubber, Urethane, High Chrome or Ceramic.

**MATERIAL CERTIFICATION:** Certified chemical and physical test reports can be supplied.

**DUTY:** Abrasive Applications

## ACCESSORIES

- Limit switches.
- PTFE blade coating.
- Various blade materials.

## ACTUATORS

All types of actuators can be fitted, electric, gearbox, hydraulic, pneumatic or handwheel.

## APPLICATIONS

- Mining and mineral processing.
- Power generation.
- Sand and gravel.
- Chemical and soda ash.
- Pulp and paper.
- Environmental and effluent.
- Dry feeds and Powders.

## HOW THE SEAT RING SLEEVE WORKS

The ring seat sleeve with stiffener ring is placed in the valve housing to seal against the gate when the valve is in its closed position. When the valve is in the open position, the seat is out of the slurry flow, prolonging the life of the valve. The ring sleeve and gate are replaceable. Rubber or Urethane.

RUBBER SLEEVE

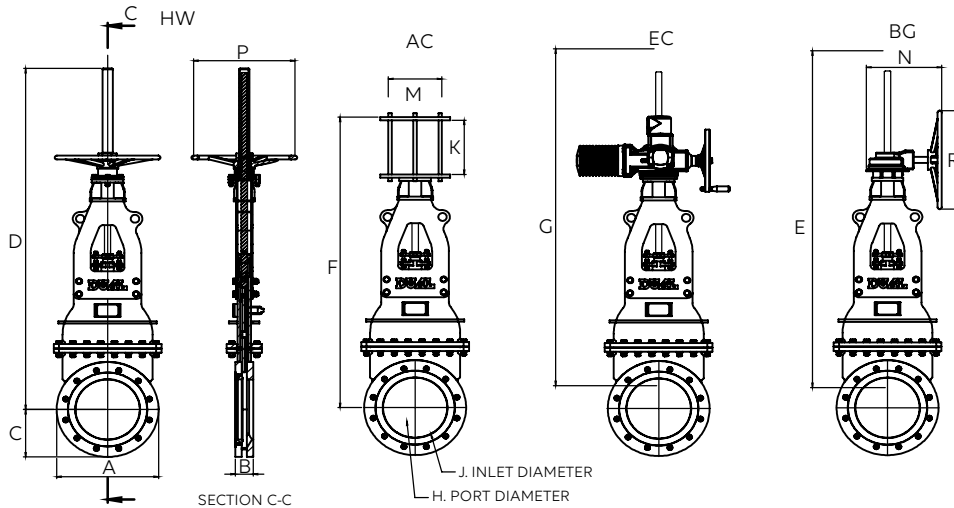
URETHANE SLEEVE



## REPLACEABLE WEAR RINGS



Replaceable wear ring is added to the valve's inlet and outlet. These rings can be made from different materials depending on operating conditions, such as wear-resistant rubber rings, ultra-high molecular polyethylene, high-alloy steel, tungsten carbide, and more. The wear rings offer superior wear life and can be replaced independently, significantly reducing the maintenance costs for the entire valve.



## DIMENSIONS AND WEIGHTS

VALVE SIZE (mm)	F/F			HW	BG	AC	HYC					BG	HW	BG	VALVE WEIGHT (kg)			
	A	B	C	D	E	F	G	H	J	K	M	N	PØ	RØ	HW	BG	AC	HYC
50	175	175	102	487	563	540	560	47	51	191	133.4	384	300	300	20	30	35	30
80	203	176	124	568	611	627	640	71	76	222	162.3	400	300	300	25	35	40	40
100	244	176	139	621	639	667	693	97	102	267	175.5	422	300	300	35	45	50	55
150	279	184	146	748	838	803	825	147	152	320	231.9	449	500	500	40	50	65	60
200	343	184	179	888	924	939	962	196	203	375	261.9	478	500	500	65	75	90	75
250	416	226	209	1043	1125	1115	1138	247	254	444	339.9	604	500	500	90	100	150	100
300	483	258	248	1207	1207	1273	1290	299	304	518	341.6	740	600	600	170	180	230	150
350	535	259	274	1340	1340	1369	1372	329	337	573	374.7	765	600	600	200	210	300	170
400	603	278	302	1435	1435	1500	1504	381	387	622	374.7	790	700	700	240	250	340	240
450	648	321	324	1680	1680	1728	1740	432	440	669	431.8	790	700	700	260	270	390	285
500	711	366	368	1823	1823	1878	1882	483	489	712	479.6	790	700	700	330	340	530	340
600	838	369	419	2162	2162	2216	2235	589	600	889	479.6	878	700	700	480	490	720	520
750	1054	1358	515	-	-	-	2748	679	737	1054	550	-	-	-	-	-	976	976
900	1226	1524	600	-	-	-	3320	810	890	1226	550	-	-	-	-	-	1588	1588

Contact Dual for larger sizes. Dimensions and weights are for guidance only - detailed dimension drawings available on request. All dimensions are in millimeters, unless stated.

CORPORATE HEADQUARTERS:  
166 ROTTERDAM ROAD  
(CNR ROTTERDAM ROAD & ANTWERP STREET)  
APEX, BENONI, GAUTENG, SOUTH AFRICA

PO BOX 12520, BENORYN 1504  
TEL: +27 11 422 4326/7  
FAX: +27 11 421 7842  
EMAIL: SALES@DUALVALVES.COM