

### DUAL ROTARY DISC WAFER SLEEVE VALVE



#### FEATURES

- No pressure drop.
- No blockage or leakage.
- Disc can be replaced in situ.
- Low torque.
- Long wear life (due to rotating gate/disc).
- Self cleaning gate action.
- Seals in both directions.
- 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.

**DUAL's** Rotary Disc Wafer Sleeve Valve is a unique rotating disc 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**

#### PRODUCT SPECIFICATION

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

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

**PRESSURE RATING:** DN50 to DN600 rated to 240Psi (16 Bar).  
DN650 to DN1500 rated 150Psi (10 Bar).

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

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

**DRILLING PATTERNS:** DN50 to DN1500 drilled and tapped ASME B16.5, DIN, SABS & BS Optional.

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

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

#### VALVE OPERATION

As the handwheel is opening or closing, the disc rotates. This happens due to pressure pushing against the disc, causing the disc to touch the valve sleeve and rotate. As the valve is cycled, the disc rotates 100mm, seating in a different position each time. The valve body has a cutaway behind the disc clearing debris away and thus, ensuring the disc closes and seals.

## STANDARD FEATURES - VALVE BODY

- Protective bellows.
- Heavy duty tower frame with limit switch brackets.
- Open/closed lockout brackets standard, ready for optional factory supplied lockout pins.
- Stem cover.

## ACTUATORS

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

## HOW THE SEAT 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 SLEEVES



URETHANE SLEEVES

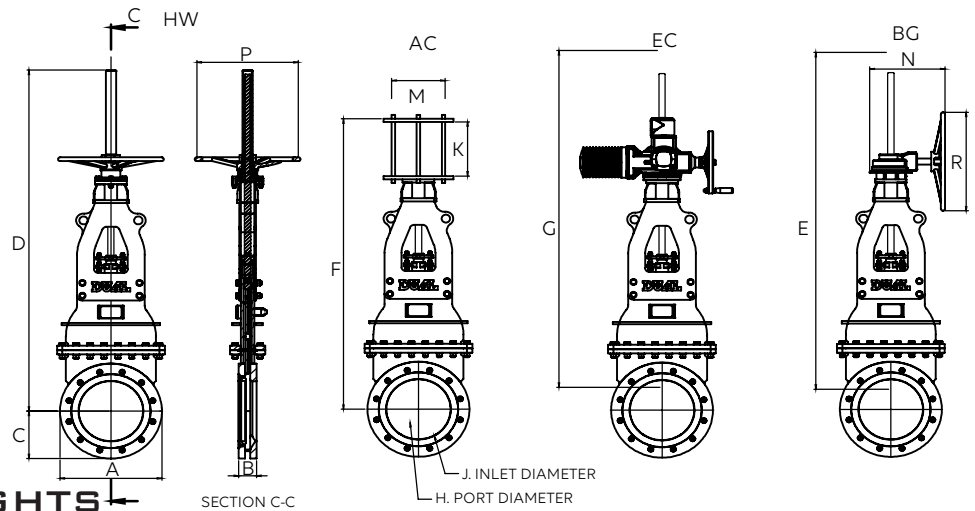
## APPLICATIONS

- Mining and mineral processing.
- Power generation.
- Sand and gravel.
- Chemical and soda ash.
- Pulp and paper.
- Environmental and effluent.
- Water purification wastewater.

## ACCESSORIES

- Limit switches.
- PTFE coating of gate.
- Various gate materials optional.
- Gate safety guards.
- Deflection cone.

ITEM NO.	DESCRIPTION
1	300NB DRDWSV LOWER BODY ASSEMBLY
2	300NB DRDWSV BONNET ASSEMBLY
3	300NB DRDWSV TOWER ASSEMBLY
4	300NB DRDWSV TOWER SPACER BUSH
5	300NB DRDWSV GLAND
6	300NB DRDWSV SPINDLE ASSEMBLY
7	300NB DRDWSV CARRIER ASSEMBLY
8	300NB DRDWSV DISC ASSEMBLY
9	HANDWHEEL ASSEMBLY
10	300NB DRDWSV SPINDLE COVER
11	300NB DRDWSV SLEEVE ASSEMBLY
12	FASTENER
13	FASTENER
14	FASTENER
15	FASTENER
16	FASTENER
17	FASTENER
18	FASTENER
19	FASTENER



## DIMENSIONS AND WEIGHTS

VALVE SIZE (mm)	A	B	C	HW	BG	AC	HYC	H	J	K	M	BG	VALVE WEIGHT (kg)						
													P Ø	R Ø	HW	BG	AC	HYC	
50	175	54	102	487	563	540	560	47	51	191	133.4	384	300	300	20	30	35	30	
80	203	58	124	568	611	627	640	71	76	222	162.3	400	300	300	25	35	40	40	
100	244	58	139	621	639	667	693	97	102	267	175.5	422	300	300	35	45	50	55	
150	279	64	146	748	838	803	825	147	152	320	231.9	449	500	500	40	50	65	60	
200	343	76	179	888	924	939	962	196	203	375	261.9	478	500	500	65	75	90	75	
250	416	76	209	1043	1125	1115	1138	247	254	444	339.9	604	500	500	90	100	150	100	
300	483	83	248	1207	1207	1273	1290	299	304	518	341.6	740	600	600	170	180	230	150	
350	535	83	274	1340	1340	1369	1372	329	337	573	374.7	765	600	600	200	210	300	170	
400	603	96	302	1435	1435	1500	1504	381	387	622	374.7	790	700	700	240	250	340	240	
450	648	96	324	1680	1680	1728	1740	432	440	669	431.8	790	700	700	260	270	390	285	
500	711	121	368	1823	1823	1878	1882	483	489	712	479.6	790	700	700	330	340	530	340	
600	838	121	419	2162	2162	2216	2235	589	600	889	479.6	878	700	700	480	490	720	520	
650	934	125	445	-	-	-	2494	597	624	934	500	-	-	-	-	-	993	773	
750	1054	125	515	-	-	-	2748	679	737	1054	550	-	-	-	-	-	976	976	
900	1226	130	600	-	-	-	3320	810	890	1226	550	-	-	-	-	-	1588	1588	
1000	1435	130	690	-	-	-	3898	972	1044	1435	700	-	-	-	-	-	2359	2359	
1200	1600	160	770	-	-	-	4312	1117	1160	1600	700	-	-	-	-	-	3162	3165	
1400	1710	228	860	-	-	-	4655	1244	1320	1710	700	-	-	-	-	-	3755	3755	
1500	1955	228	980	-	-	-	4780	1455	1525	1850	700	-	-	-	-	-	4000	4500	

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:  
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