



A.C. VALVES CC

ACV SKG FLANGED SLURRY
KNIFE GATE VALVE



ACV SKG SLURRY KNIFE GATE VALVE FLANGED TYPE, BI DIRECTIONAL

BODY: SG42 IRON EPOXY COATED

**BLADE: 304 S/ STEEL (STANDARD)
SAFF 2205 | 316 S/STEEL ON REQUEST**

RISING SPINDLE: 304 S/STEEL

**PILLAR & TOP PLATE MILD STEEL EPOXY COATE, GUM RUBBER
ASSEMBLY: ENCAPSULATED**

COUNTER FLANGES: MILD STEEL ZINC PLATED

**SEAL SLEEVE: NATURAL GUM RUBBER SEAL SLEEVE (STANDARD),
OTHER RUBBER AVAILABLE ON REQUEST**

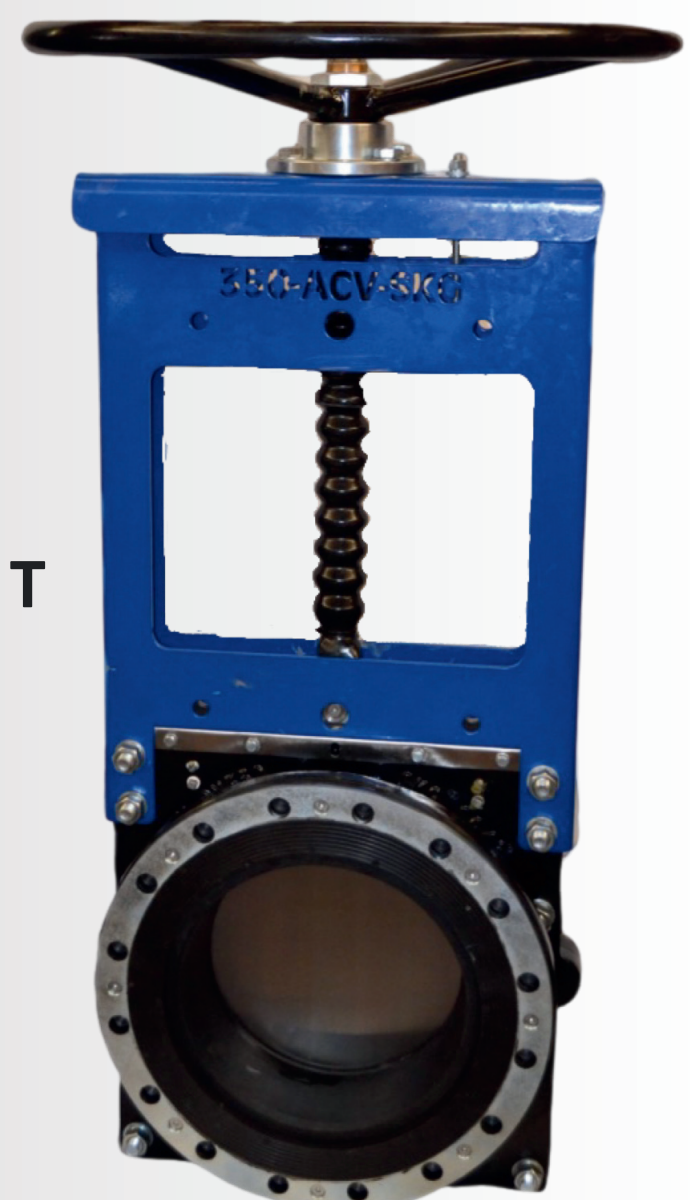
HANDWHEEL: SG42 IRON FUSION BONDED EPOXY COATED

**ALL FASTENERS: HT STEEL ZINC PLATED (STANDARD)
S/STEEL ON REQUEST**

**PRESSURE RATING: DN50-150 = 1600KPA
DN200-600 = 1000KPA
2500KPA AVAILABLE ON REQUEST
LARGER BORE AVAILABLE ON REQUEST**

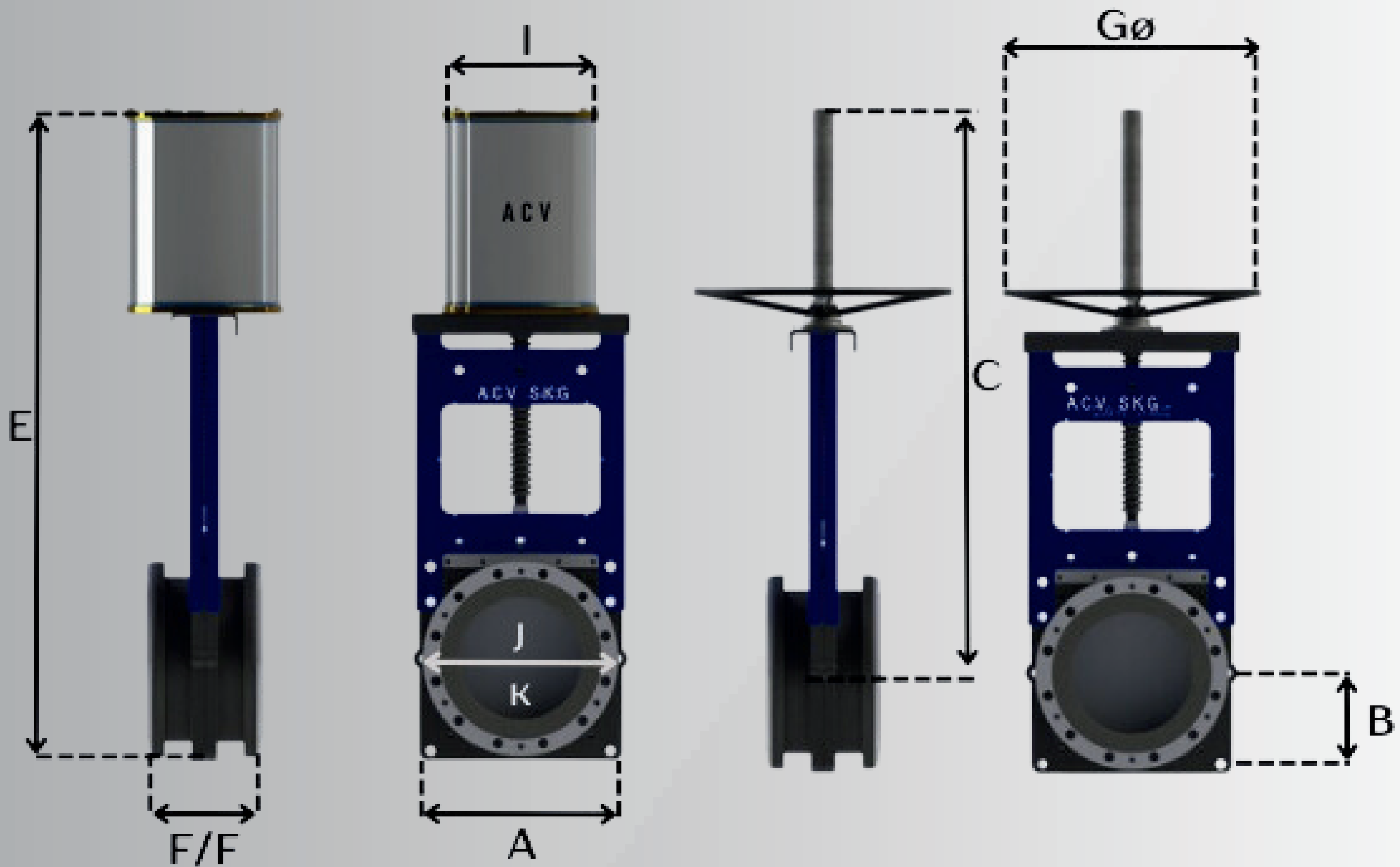
BEARING HOUSING: CARBON STEEL PLATED

REV NUT: BRONZE



26 YEARS IN ACTION | LOCALLY MANUFACTURED IN SOUTH AFRICA

ACV SKG SLURRY KNIFE GATE VALVE DIMENSIONS AND WEIGHTS



STANDARD - SKG ALL TAPPED HOLES
SLOTTED BODY - ON REQUEST
PN16 RATED VALVES - ON REQUEST

Dimensions (mm) and Weights (kg)

Valve Size	A	F/F	B	C	D	E	F	G	H	I	J SEAT ID	K INLET ID	PRESSURE RATING
80	210	175	105	630	640	585	-	255	-	160	70	80	PN10
100	250	175	125	720	710	680	-	255	-	160	90	100	PN10
150	300	177	150	870	860	790	420	300	250	220	140	150	PN10
200	350	183	180	930	900	835	440	300	250	260	185	200	PN10
250	400	225	205	1180	1130	1120	470	400	300	360	230	250	PN10
300	480	257	240	1360	1300	1280	525	400	300	410	276	300	PN10
350	530	257	260	1470	1405	1400	615	500	400	410	320	345	PN10
400	590	280	300	1610	1570	1500	690	500	400	480	380	400	PN10
450	630	316	315	1740	1670	1690	720	700	500	480	410	450	PN10
500	690	364	360	2300	2210	1800	800	700	500	516	470	495	PN10
600	800	378	400	-	2370	2100	800	1000	500	516	555	580	PN10

ACV SKG SLURRY KNIFE GATE VALVE KEY FEATURES

- **RIISING SPINDLE.**
- **MOUNTING PLATE** - SUPPORTS MANUAL, PNEUMATIC, OR ELECTRIC ACTUATION FOR FLEXIBILITY.
- **SELF-CLEANING ACTION** - STOPS MATERIAL ACCUMULATION AND GUARANTEES CONSISTENT PERFORMANCE.
- **BI-DIRECTIONAL** FLOW WITH SHUT-OFF, ENSURING NO DOWNSTREAM LEAKAGE.
- WHEN THE VALVE IS FULLY OPEN, NO METAL PARTS COME INTO CONTACT WITH THE FLOWING MEDIA.
- **NO SEAT CAVITY** FOR UNWANTED SOLIDS TO BUILD-UP AND PREVENT FULL GATE CLOSURE.
- FIELD REPLACEABLE **HEAVY DUTY ELASTOMER SLEEVES.**
- **LOCKOUT** - PROVISION FOR LOCKOUTS IN THE OPEN AND CLOSED POSITION.
- **WIPER BLADE** - PRESERVES INTERNAL LUBRICANTS.
- SUITABLE FOR **WET OR DRY SERVICE.**
- **SPINDLE COVER** DESIGNED TO PROTECT THE SPINDLE FROM SLURRY SPLATTER.
- **ACTUATORS** - PNEUMATIC, ELECTRIC, AND HYDRAULIC CYLINDERS; MANUAL BEVEL GEAR; AND HANDWHEEL WITH RISING STEM.
- **THRUST HOUSING ASSEMBLY** - GENEROUS OVERSIZING OF THE THREAD LENGTH OF THE GUNMETAL (LG2) THRUST NUT ENSURES LOWEST POSSIBLE THREAD LOADING FOR LONGEVITY.
- **HEAVY DUTY FRAME** - A ROBUST FRAME DESIGNED TO WITHSTAND THE HIGHER THRUST DEMANDS OF LARGE BORE INSTALLATIONS.
- **RETAINER FLANGE** - STANDARD ON THE SKG.
- **WASHOUT CHAMBER** - CLOSURE PLATE WITH FLUSH-OUT CONNECTION (ON REQUEST)

ACV SKG SLURRY KNIFE GATE VALVE USER GUIDE

SKG OPERATION LUBRICATION

THE GATE SLEEVES OF THE VALVE HAS ALREADY BEEN LUBRICATED WITH SYNTHETIC LUBRICANT COMPATIBLE WITH THE RUBBER SLEEVES. THE VALVE SHOULD BE LUBRICATED WITH SYNTHETIC GREASE REGULARLY TO ENSURE OPTIMUM OPERATION.

SKG BLADE SETTING

THE DISTANCE FROM THE TOP OF THE BODY CASTING TO THE TOP BLADE IN BOTH OPEN & CLOSED POSITION, HAVE BEEN FACTORY PRE SET. SHOULD IT BE NECESSARY TO ADJUST THESE SETTINGS DURING MAINTENANCE THE SETTING MUST BE RESTORED BACK TO FACTORY SETTINGS.

ACV SKG FLANGED KNIFE GATE VALVE USER GUIDE

1. THE VALVE SHOULD ONLY BE OPERATEING IN THE FULLY CLOSED OR FULLY OPENED POSITION. DO NOT ATTEMPT TO USE THE VALVE TO THROTTLE THE FLOW.
2. WHEN STORING THE VALVE FOR ANY LENGTH OF TIME THE GATE MUST BE LEFT IN THE OPEN POSITION AND KEPT OUT OF ANY HEAT, DIRECT SUNLIGHT AND OZONE EXPOSURE.
3. IT IS NORMAL FOR THE VALVE TO FLUSH SOME QUANTITY OF FLOW MEDIA DURING THE OPEN/CLOSE CYCLES OF THE VALVE.
4. BLADE REPLACEMENT CAN BE AFFECTED WITH THE VALVE (IN OPEN POSITION) UNDER PRESSURE BY REMOVING THE YOLK ASSEMBLY / TOP WORKS. CARE SHOULD BE TAKEN TO BE TO MAINTAIN THE BODY CLOSURE.
5. THE SLEEVES OF THE VALVE SHOULD BE REPLACED IN PAIRS(RECOMMENDED). THE BLADE MUST BE IN THE OPEN POSITION WHEN FITTING THE SLEEVES.
6. WHEN REMOVING THE VALVE, IN ORDER TO REPLACE THE SEAL SLEEVES OF THE VALVE, THE VALVE SHOULD BE REMOVED WITH THE BLADE IN OPEN POSITION. (RECOMMENDED) REMOVE THE CAP SCREWS SECURING THE COUNTER FLANGES TO ENABLE THE REMOVAL OF THE OLD SLEEVES.
7. COUNTER FLANGES SHOULD BE REPLACED WHEN WORN.
8. IF THE VALVE CANNOT BE REMOVED AND THE SLEEVES NEEDS TO BE REPLACED, DURING THE DESIGN AND INSTALLATION STAGE A DISTANCE PIECE SHOULD BE INSTALLED BEFORE AND AFTER THE VALVE WHICH CAN BE REMOVED TO GAIN ACCESS TO THE COUNTER FLANGE AND SLEEVES. THE DISTANCE PIECE SHOULD BE EQUAL TO THE SLEEVE WITDTH OR LONGER. AN ADDITIONAL 200MM FOR ACCESS TO THE COUNTER FLANGES SCREWS.
9. ENSURE THAT THE COUNTER FLANGES SCREWS ARE TIGHTENED EVENLY AND THAT THEY ARE AT LEAST MINIMUM OF 2MM BENEATH THE COUNTER FLANGES WHEN FULLY TIGHTENED. TEMPORARY USE OF FLANGE BOLTS WILL ENSURE THAT THE COUNTER FLANGES IS ADEQUATELY 'PULLED UP' TO EASE THE TIGHTENING OF RETAINING CAP SCREWS.