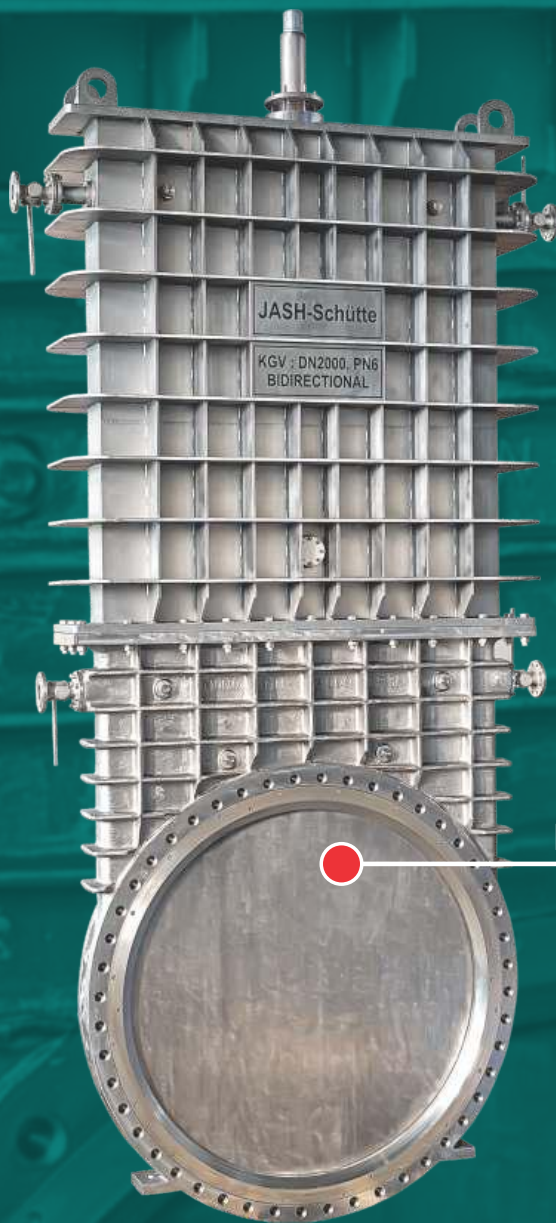


# JASH Schütte

VALVES FOR BULK SOLIDS & LIQUID - SOLID MIXES



MODEL: ZFI



MODEL: MONO

- Water & Waste Water ■ Sea Water ■ Power ■ Cement
- Steel ■ Paper & Pulp ■ Chemical ■ Petrochemical
- Food Processing ■ Pharmaceuticals ■ Biogas ■ Agriculture

### ENGINEERING EXCELLENCE AND EXPERIENCE

Since 1964, Schütte group Germany has been a pioneer in developing technologies for environmental friendly shutoff of critical bulk solid & liquid-solid mixes. Jash started offering these technologies in collaboration with Schütte from 1996. Together Jash-Schütte now brings the combined experience of around 80 years in meeting varied application of the industry in Europe, USA and Asia. Development of application specific products using German engineering excellence has enabled Jash-Schütte to offer the most innovative valve range in the industry – a range that has ensured complete dominance for many critical applications related to shut-off and metering within the industry.

### SUPERIOR QUALITY

We bring exceptional quality to every product with our proven design, manufacturing and rigorous testing procedures. We offer one of the most flexible and comprehensive cast, metal fabrication, machining, assembly and testing operations at our in-house facility in India (ISO 9001:2015, ISO:14001:2015 & BS OHSAS 18001:2007 certified). This allows us to monitor and ensure quality in all aspects of production and to provide consistent, reliable and superior products.

### COMPREHENSIVE PRODUCT OFFERING

Our product offering for knife gate valve is vast with unmatched features and options. For nearly all types of applications Jash-Schütte can offer knife gate valves in a wide variety of sizes, material options and modes of operation. The breadth of our product offering enables us to bring an unequalled impressive range of expertise to your decision-making process.

### RESPONSIVE SERVICE

We pride ourselves on providing professional responsiveness to your needs throughout the design, manufacturing & installation processes. Our engineering team is available for consultation and dedicated project manager serve as a single point of contact throughout the order execution phase. Our experienced field service team is always ready to provide onsite support.



DN 2000 (80"), Bidirectional, PN10 rated, tandem spindle operated knife gate valve.

<b>PRODUCT OFFERING</b>	<b>01</b>
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DRAWINGS & DATASHEET ■ SERIES: C-201, C-211, C-202, C-212 ■ SIZE: DN 50 MM (2") - DN 600 MM (24")	<b>07-08</b>
DRAWINGS & DATASHEET ■ SERIES: C-201, C-211, C-202, C-212, C-203, C-213, C-204, C-214 ■ SIZE: DN 700 MM (28") - DN 2400 MM (96")	<b>09-10</b>
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# PRODUCT OFFERING

## MODEL: ZFI

### SERIES: C-201 (DI), C-211 (Cast SS / WCB)

- **Valve type:** *Unidirectional*
- **Seating:** *Resilient seated with metallic band*
- Bonnet: Bolt on type (Optional)
- Size range: DN 50 (2") – DN 1200 (48")
- Pressure rating: As per table below\*
- Manufacturing standard: AWWA C520-14 / MSS SP-81

### SERIES: C-202 (DI), C-212 (Cast SS / WCB)

- **Valve type:** *Unidirectional*
- **Seating:** *Integral metal seated*
- Bonnet: Bolt on type (Optional)
- Size range: DN 50 (2") – DN 1200 (48")
- Pressure rating: As per table below\*
- Manufacturing standard: AWWA C520-14 / MSS SP-81

### SERIES: C-203 (DI), C-213 (Cast SS / WCB)

- **Valve type:** *Unidirectional*
- **Seating:** *Resilient seat with replaceable metal ring*
- Bonnet: Bolt on type (Optional)
- Size range: DN 1400 (56") – DN 2400 (96")
- Pressure rating: As per table below\*
- Manufacturing standard: AWWA C520-14 / MSS SP-81

### SERIES: C-204 (DI), C-214 (Cast SS / WCB)

- **Valve type:** *Unidirectional*
- **Seating:** *Metal seat with replaceable metal ring*
- Bonnet: Bolt on type (Optional)
- Size range: DN 1400 (56") – DN 2400 (96")
- Pressure rating: As per table below\*
- Manufacturing standard: AWWA C520-14 / MSS SP-81

### SERIES: C-205 (DI), C-215 (Cast SS / WCB)

- **Valve type:** *Bidirectional*
- **Seating:** *Resilient seat with replaceable metal ring on both sides*
- Bonnet: Bolt on type (Optional) above DN 150
- Size range: DN 50 (2") – DN 2400 (96")
- Pressure rating: As per table below\*
- Manufacturing standard: AWWA C520-14 / MSS SP-81

## MODEL: MONO

### SERIES: C-102 (DI)

- **Valve type:** *Unidirectional*
- **Seating:** *Resilient seat with replaceable metal ring*
- **Bonnet:** *Integral with body up to DN 350*
- Size range: DN 50 (2") – DN 1200 (48")
- Pressure rating: As per table below\*
- Manufacturing standard: AWWA C520-14

### SERIES: C-112 (Cast SS)

- **Valve type:** *Unidirectional*
- **Seating:** *Resilient seat with replaceable metal ring*
- **Bonnet:** *Integral with body up to DN 150*
- Size range: DN 50 (2") – DN 1200 (48")
- Pressure rating: As per table below\*
- Manufacturing standard: AWWA C520-14

SERIES	C-201, C-211, C-202, C-212, C-205, C-215		C-203, C-213, C-204 C-214, C-205, C-215	C-102, C-112	
	DN 50 (2") - 600 (24")	DN 700 (28") - 1200 (48")	DN 1400 (56") - 2400 (96")	DN 50 (2") - 600 (24")	DN 700 (28") - 1200 (48")
BODY MATERIAL	WORKING PRESSURE				
Ductile Iron (DI)	PN10 (150 PSI)	PN10 (150 PSI) / PN6 (90 PSI)	PN3 (45 PSI) / PN6 (90 PSI) / PN10 (150 PSI)	PN10 (150 PSI)	PN6 (90 PSI) / PN10 (150 PSI)
Cast Stainless Steel (SS) / WCB	PN10 (150 PSI)	PN6 (90 PSI)	PN3 (45 PSI) / PN6 (90 PSI) / PN10 (150 PSI)	PN10 (150 PSI)	PN6 (90 PSI)

Customized sizes up to DN 4000 (160") and valves to suit higher pressure rating of PN16 (232 PSI) and above can be offered on request.

## UNIDIRECTIONAL SERIES:

- C-201, C-211
- C-202, C-212
- C-203, C-213
- C-204, C-214

## BIDIRECTIONAL SERIES:

- C-205, C-215

## SIZE RANGE:

- DN 50 (2") - DN 2400 (96")

## PRESSURE RATING

- PN3 (45 PSI)
- PN6 (90 PSI)
- PN10 (150 PSI)

## STANDARD

- AWWA C520-14
- MSS SP-81

## SEATING

- Resilient seat with metallic band
- Integral metal seat
- Resilient seat with replaceable metal ring
- Metal seat with replaceable metal ring
- Resilient seat with replaceable metal ring on both sides

## BONNET (OPTIONAL)

- Bolt on type

## OPERATION

- Manual
- Gear Operated
- Pneumatic
- Electric Actuator
- Hydraulic



Bidirectional Knife Gate Valve, DN 2400 (96").

## GENERAL SPECIFICATIONS

### MODEL: ZFI

ZFI model knife gate valves are manufactured under technical collaboration with Schütte group, Germany. These valves can be used for shut-off applications of liquid, liquid-solid mixes / slurry & dry bulk solids. These valves can be installed in vertical / horizontal / inclined position & depending upon the type of sealing can have area of opening varying from 90 to 100 percent of the nominal valve size.

#### SALIENT FEATURES OF KNIFE GATE VALVE, MODEL: ZFI

- A full lug type design up to DN 600 (24") and full flange type design above DN 600 (24").
  - Valve mounting drilling to suit ASME B16.5 / ASME B16.47 #150 / BS-EN 1092 PN 10 / PN 16 standards.
  - Pressure rating ranging from PN3 (45 PSI) to PN10 (150 PSI) dependent on materials of construction of the valve housing.
  - Gate having beveled knife-edge at its front to cut through solid particles settled at bottom of the body so as to achieve full closure.
  - Sealing is achieved by means of the welded jams pushing the gate on to the seat for full contact between the gate & the seat.
  - Valve suitable for unidirectional flow is provided with sealing on one side only. Valve suitable for bidirectional flow is provided with sealing on both the sides.
  - Varied sealing configurations are available particularly resilient seat with replaceable band (Series C-201, C-211), integral metal seated (Series C-202, C-212), resilient seat with replaceable seat retainer ring (Series C-203, C-213), metal seated with replaceable seat retainer ring (Series C-204, C-214), resilient seat with replaceable seat retainer ring at both ends (Series C-205, C-215).
  - Resilient seated valve offers zero leakage at applicable pressure.
  - The metal seated valves offer leakage within permissible limits as per AWWA C520-14 / MSS SP-81 standards.
  - Packing of synthetic yarn with PTFE impregnation for a better life.
  - Rising stem with single / double start thread offered as per requirement. Non-rising stem offered as optional.
  - Valves offered with varied operating options such as Hand Wheel / Hand Lever / Bevel Gear / Pneumatic Cylinder / Electric Actuator / Hydraulic Cylinder.
  - For abrasive applications, valve can be optionally offered with hardening on valve bore face, edge of the gate, seat face or entire gate.
  - Depending upon the size of the valve, purging and drain ports can be provided.
  - General compliance to requirements of AWWA C-520-14 and MSS SP-81 standards.
  - Varied material of construction options for all valve components as stated on page No. 4, 5 & 6.
- **Painting:** Epoxy paint with total dry film thickness of minimum 100 microns offered as standard. Higher film thickness of 250 microns and fusion bonded epoxy paint can be offered as optional.
  - **Testing:** In accordance with AWWA C-520-14 and MSS SP-81 standards.

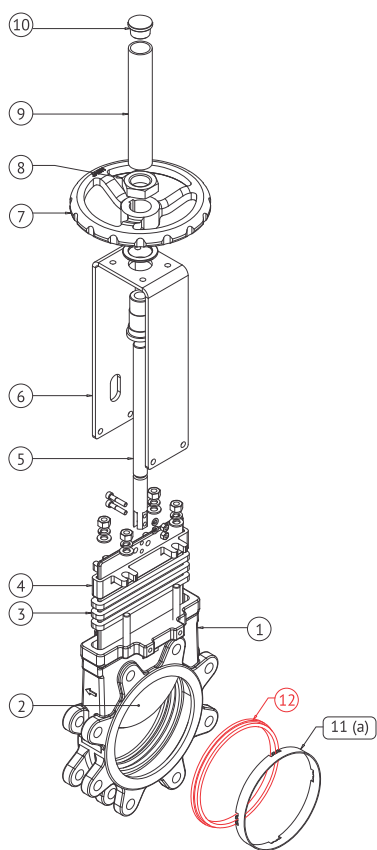


DN 1500 (60") valve as supplied to Yukon Energy Corporation, Canada.

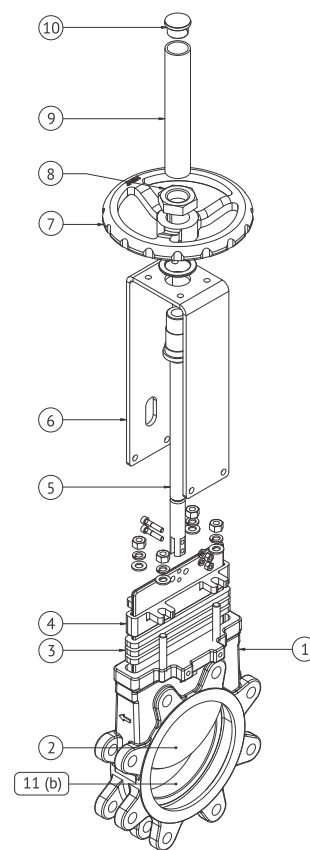
# PARTS NOMENCLATURE

# JASH Schütte

**SERIES: C-201, C-211**



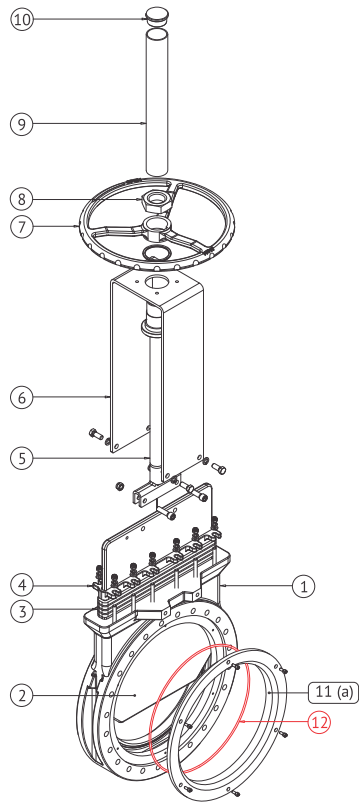
**SERIES: C-202, C-212**



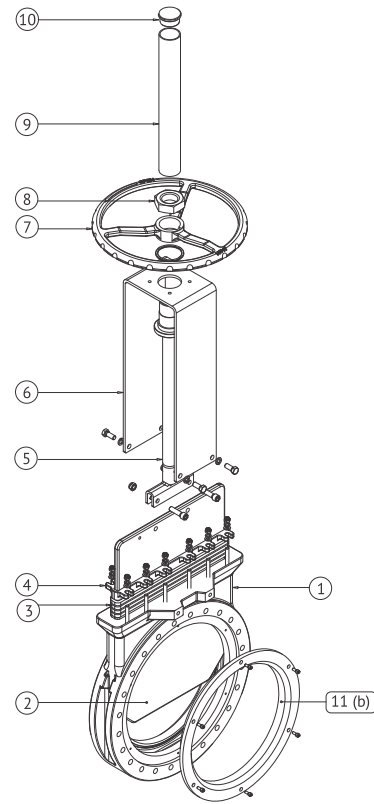
PART No.	DESCRIPTION	MATERIAL OF CONSTRUCTION
1	Housing	Cast ductile iron ASTMA 536 Gr.65-45-12 / Cast stainless steelASTMA 351 Gr.CF: 8 / CF: 8M / CF: 3M / CK: 20 / Super duplex / Cast carbon steelASTMA 216 Gr.WCB
2	Gate	Stainless steelASTMA 240 Gr. 304 / 316
3	Packing	Synthetic yarn with PTFE impregnation as standard. Graphite & ceramic offered as optional.
4	Gland	Cast carbon steelASTMA 216 Gr.WCB / Cast stainless steelASTMA 351 Gr.CF: 8 / CF: 8M
5	Stem / Spindle	Stainless steelASTMA 276 Gr.304 / 316
6	Yoke	Carbon Steel IS:2062 Gr.E250 / Stainless steelASTMA 240 Gr. 304 / 316
7	Hand wheel	Cast ductile iron ASTMA 536 Gr.65-45-12 / Carbon Steel IS:2062 Gr.E250
8	Lock nut	Stainless steelASTMA 240 Gr.304
9	Stem guard (Optional)	Carbon Steel / Polycarbonate
10	Cap (Optional)	PVC
11	Seat: (a) Resilient seat retained by replaceable metallic seat retainer band applicable for series C-201, C-211 (b) Integral metal seat applicable for series C-202, C-212	Stainless steelASTMA 240 Gr. 304 / 316  Same as housing material
12	Seal (Applicable for series C-201, C-211)	NBR / EPDM / Viton / White Neoprene

# PARTS NOMENCLATURE

**SERIES: C-203, C-213**



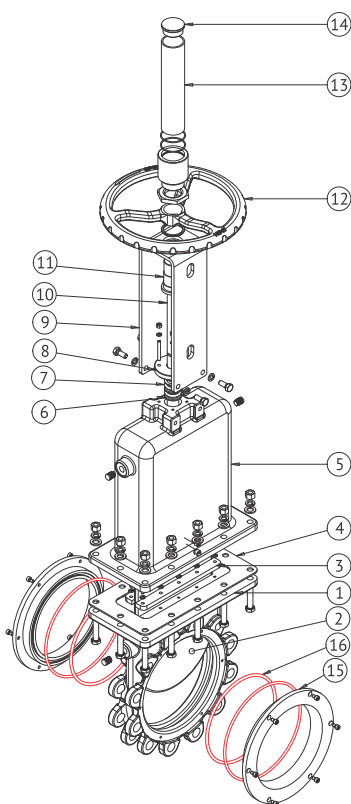
**SERIES: C-204, C-214**



PART No.	DESCRIPTION	MATERIAL OF CONSTRUCTION
1	Housing	Cast ductile iron ASTM A 536 Gr. 65-45-12 / Cast stainless steel ASTM A 351 Gr. CF: 8 / CF: 8M / CF: 3M / CK: 20 / Super duplex / Cast carbon steel ASTM A 216 Gr. WCB
2	Gate	Stainless steel ASTM A 240 Gr. 304 / 316
3	Packing	Synthetic yarn with PTFE impregnation as standard. Graphite and ceramic offered as optional.
4	Gland	Cast carbon steel ASTM A 216 Gr. WCB / Cast stainless steel ASTM A 351 Gr. CF: 8 / CF: 8M
5	Stem / Spindle	Stainless steel ASTM A 276 Gr. 304/ 316
6	Yoke	Carbon Steel IS:2062 Gr. E250 / Stainless steel ASTM A 240 Gr. 304 / 316
7	Hand wheel	Cast ductile iron ASTM A 536 Gr. 65-45-12 / Carbon Steel IS:2062 Gr. E250
8	Lock nut	Stainless steel ASTM A 240 Gr. 304
9	Stem guard (Optional)	Carbon Steel / Polycarbonate
10	Cap (Optional)	PVC
11	Seat: (a) Resilient seat retained with replaceable metallic seat retainer ring applicable for series C-203, C-213 (b) replaceable metal seat applicable for series C-204, C-214	Cast ductile iron ASTM A 536 Gr. 65-45-12 / Cast stainless steel ASTM A 351 Gr. CF: 8 / CF: 8M / CF: 3M / CK: 20 / Super duplex / Cast carbon steel ASTM A 216 Gr. WCB
12	Seal (Applicable for series C-203, C-213)	NBR / EPDM / Viton / White Neoprene



SERIES: C-205, C-215

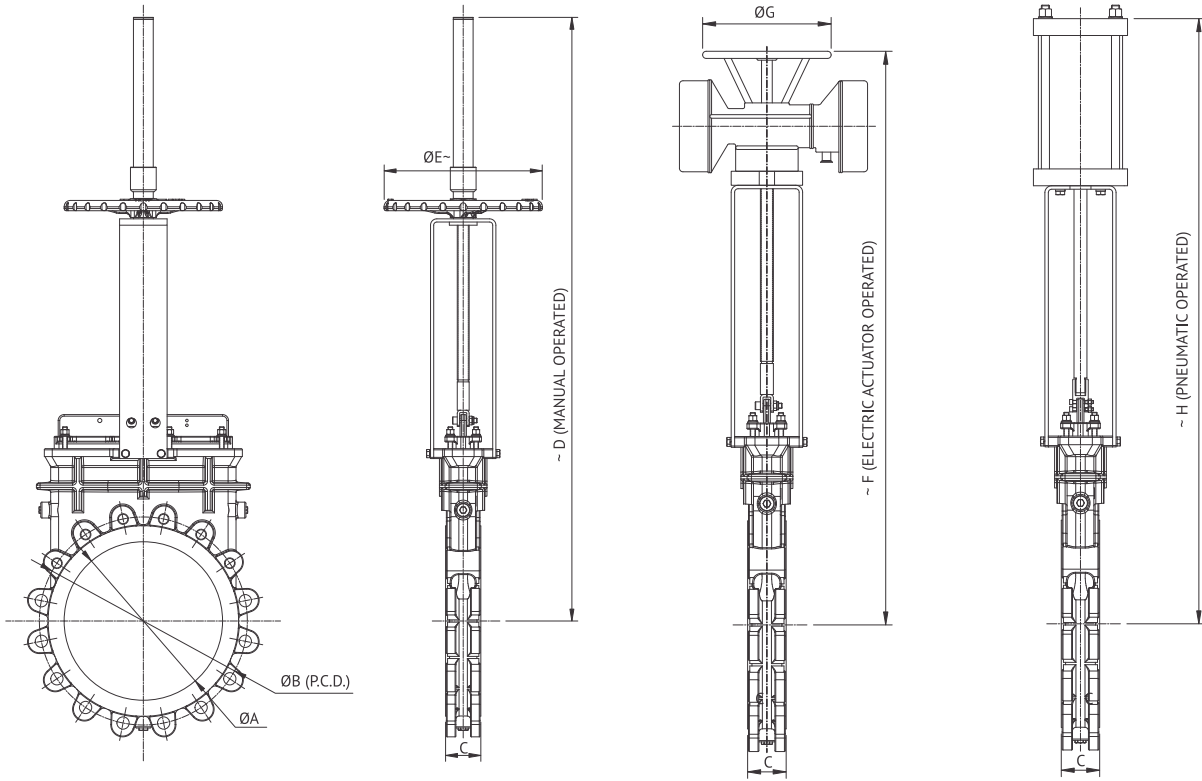


PART No.	DESCRIPTION	MATERIAL OF CONSTRUCTION
1	Housing	Cast ductile iron ASTM A 536 Gr.65-45-12 / Cast stainless steel ASTM A 351 Gr.CF: 8 / CF: 8M / CF: 3M / CK: 20 / Super duplex / Cast carbon steel ASTM A 216 Gr.WCB
2	Gate	Stainless steel ASTM A 240 Gr. 304 / 316
3	Gate Guide	UHMWPE
4	Bonnet Gasket (Optional)	EPDM
5	Bonnet (Optional)	Cast ductile iron ASTM A 536 Gr.65-45-12 / Cast stainless steel ASTM A 351 Gr.CF: 8 / CF: 8M / CF: 3M / CK: 20 / Super duplex / Cast carbon steel ASTM A 216 Gr.WCB / Carbon steel IS 2062 Gr.E250 / Stainless steel ASTM A 240 Gr. 304 / 316 / 310 / Super duplex
6	Spacer	Stainless steel ASTM A 240 Gr. 304 / 316 / 310
7	Gland O Ring	EPDM
8	Gland	Cast stainless steel ASTM A 351 Gr.CF: 8 / CF: 8M / CF: 3M / CK: 20 / Super duplex / Cast carbon steel ASTM A 216 Gr.WCB
9	Yoke	Carbon steel IS:2062 Gr.E250 / Stainless steel ASTM A 240 Gr. 304 / 316
10	Stem / Spindle	Stainless steel ASTM A 276 Gr. 304 / 316
11	Stem Nut	Brass
12	Hand wheel	Cast ductile iron ASTM A 536 Gr.65-45-12 / Carbon Steel IS:2062 Gr.E250
13	Stem guard (Optional)	Carbon Steel / Polycarbonate
14	Cap (Optional)	PVC
15	Resilient seat retained with replaceable metallic seat retainer ring	Cast ductile iron ASTM A 536 Gr.65-45-12 / Cast stainless steel ASTM A 351 Gr.CF: 8 / CF: 8M / CF: 3M / CK: 20 / Super duplex / Cast carbon steel ASTM A 216 Gr.WCB
16	Seal	NBR / EPDM / Viton / White Neoprene

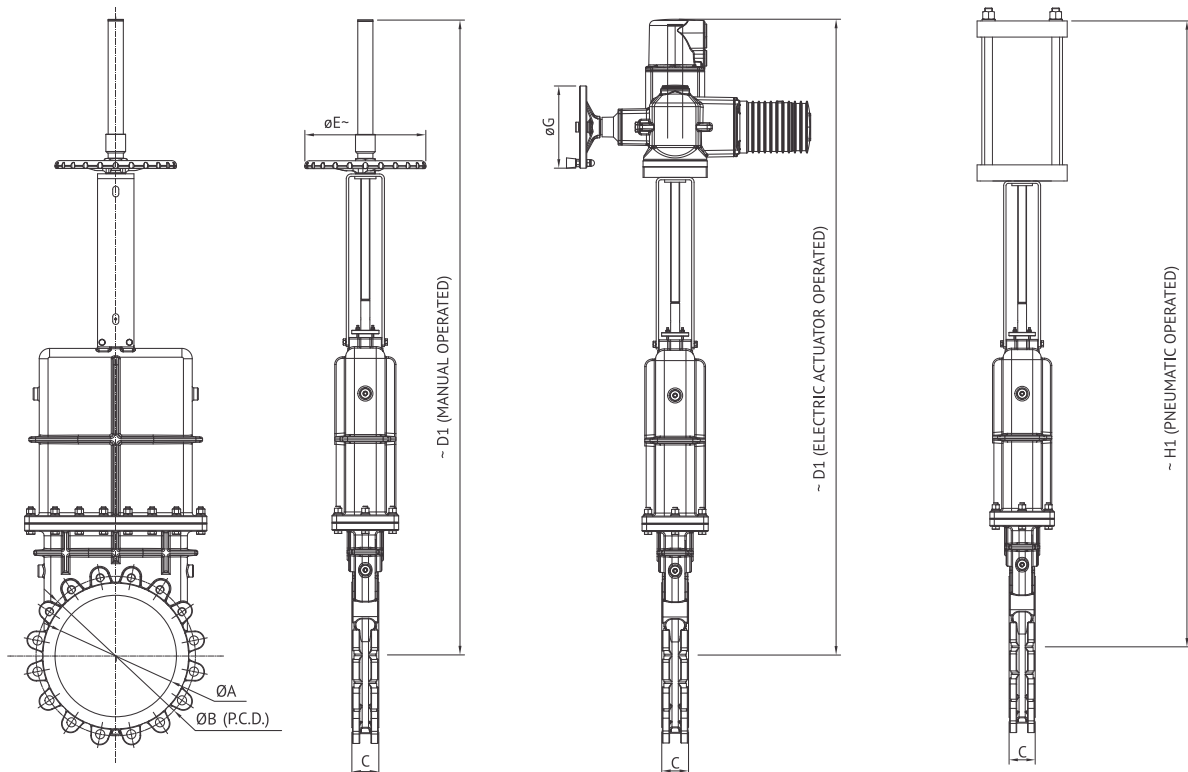
# DRAWINGS

## SERIES: C-201, C-211, C-202, C-212

NON-BONNETTED



BONNETTED



**DATASHEET**  
**SERIES: C-201, C-211,**  
**C-202, C-212**

**JASH Schütte**

**DIMENSIONS IN METRIC: DN 50 – DN 600**

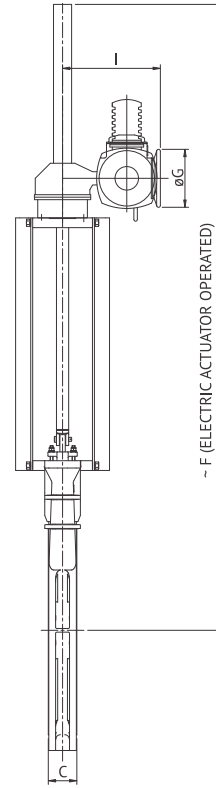
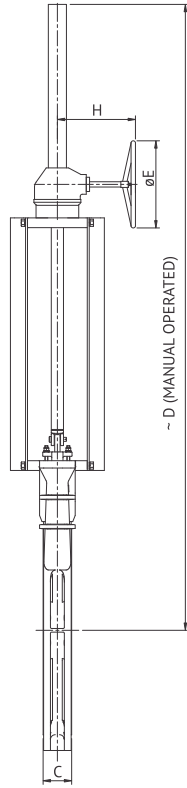
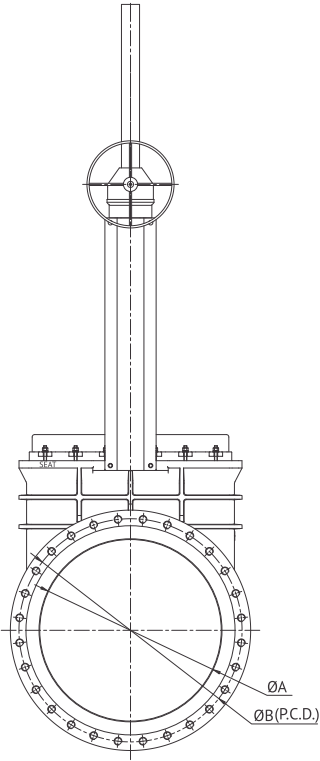
DN	FLANGE	A	B	C	~D	~E	~F	~G	~H	~D1	~H1
50	EN 1092 PN10	50	125	48	465	200	565	250	480	-	-
	EN 1092 PN16	50	125	48	465	200	565	250	480	-	-
	ASME B16.5 #150	50	121	48	465	200	565	250	480	-	-
65	EN 1092 PN10	65	145	51	490	200	595	250	540	-	-
	EN 1092 PN16	65	145	51	490	200	595	250	540	-	-
	ASME B16.47 #150	65	139	51	490	200	595	250	540	-	-
80	EN 1092 PN10	80	160	51	520	200	610	250	555	-	-
	EN 1092 PN16	80	160	51	520	200	610	250	555	-	-
	ASME B16.5 #150	80	152.5	51	520	200	610	250	555	-	-
100	EN 1092 PN10	100	180	51	580	200	655	250	675	-	-
	EN 1092 PN16	100	180	51	580	200	655	250	675	-	-
	ASME B16.5 #150	100	190.5	51	580	200	655	250	675	-	-
125	EN 1092 PN10	125	210	57	655	200	695	250	740	-	-
	EN 1092 PN16	125	210	57	655	200	695	250	740	-	-
	ASME B16.5 #150	125	216	57	655	200	695	250	740	-	-
150	EN 1092 PN10	150	240	57	715	200	730	250	780	-	-
	EN 1092 PN16	150	240	57	715	200	730	250	780	-	-
	ASME B16.5 #150	150	241.5	57	715	200	730	250	780	-	-
200	EN 1092 PN10	200	295	70	895	315	910	250	1030	1250	1500
	EN 1092 PN16	200	295	70	895	315	910	250	1030	1250	1500
	ASME B16.5 #150	200	298.5	70	895	315	910	250	1030	1250	1500
250	EN 1092 PN10	250	350	70	1035	315	1050	250	1175	1430	1700
	EN 1092 PN16	250	355	70	1035	315	1050	250	1175	1430	1700
	ASME B16.5 #150	250	362	70	1035	315	1050	250	1175	1430	1700
300	EN 1092 PN10	300	400	76	1170	315	1200	250	1370	1650	1850
	EN 1092 PN16	300	410	76	1170	315	1200	250	1370	1650	1850
	ASME B16.5 #150	300	432	76	1170	315	1200	250	1370	1650	1850
350	EN 1092 PN10	350	460	76	1380	400	1400	250	1460	1900	2000
	EN 1092 PN16	350	470	76	1380	400	1400	250	1460	1900	2000
	ASME B16.5 #150	350	476.5	76	1380	400	1400	250	1460	1900	2000
400	EN 1092 PN10	400	515	89	1530	400	1550	250	1600	2110	2300
	EN 1092 PN16	400	525	89	1530	400	1550	250	1600	2110	2300
	ASME B16.5 #150	400	540	89	1530	400	1550	250	1600	2110	2300
450	EN 1092 PN10	450	565	89	1655	400	1670	250	1845	2310	2550
	EN 1092 PN16	450	585	89	1655	400	1670	250	1845	2310	2550
	ASME B16.5 #150	450	578	89	1655	400	1670	250	1845	2310	2550
500	EN 1092 PN10	500	620	114	1940	550	1950	360	1950	2520	2900
	EN 1092 PN16	500	650	114	1940	550	1950	360	1950	2520	2900
	ASME B16.5 #150	500	635	114	1940	550	1950	360	1950	2520	2900
600	EN 1092 PN10	600	725	114	2230	550	2260	360	#	2900	#
	EN 1092 PN16	600	770	114	2230	550	2260	360	#	2900	#
	ASME B16.5 #150	600	749.5	114	2230	550	2260	360	#	2900	#

**DIMENSIONS IN INCH: DN 2" - DN 24"**

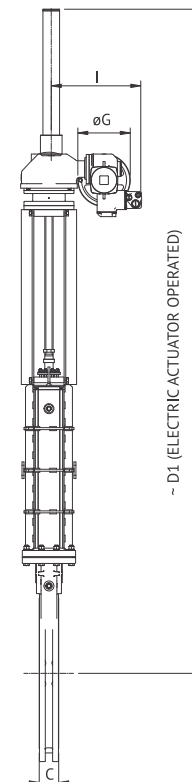
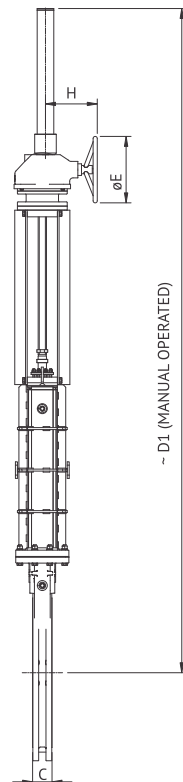
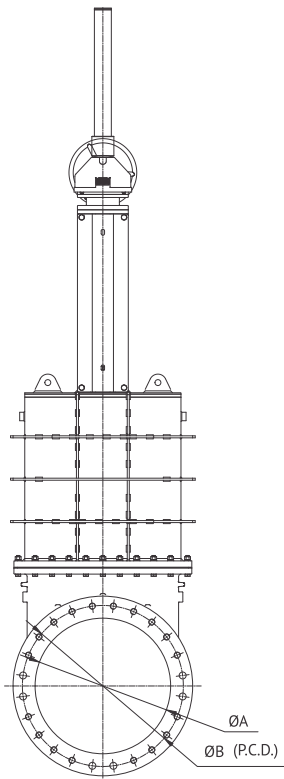
DN	FLANGE	A	B	C	~D	~E	~F	~G	~H	~D1	~H1
2	ASME B16.5 #150	2.0	4.8	1.9	18.3	7.9	22.2	9.8	18.9	-	-
2.5	ASME B16.5 #150	2.5	5.5	2.0	19.3	7.9	23.4	9.8	21.3	-	-
3	ASME B16.5 #150	3.0	6.0	2.0	20.5	7.9	24.0	9.8	21.9	-	-
4	ASME B16.5 #150	4.0	7.5	2.0	22.8	7.9	25.8	9.8	26.6	-	-
5	ASME B16.5 #150	5.0	8.5	2.2	25.8	7.9	27.4	9.8	29.1	-	-
6	ASME B16.5 #150	6.0	9.5	2.2	28.1	7.9	28.7	9.8	30.7	-	-
8	ASME B16.5 #150	8.0	11.8	2.8	35.2	12.4	35.8	9.8	40.6	49.2	59.1
10	ASME B16.5 #150	10.0	14.3	2.8	40.7	12.4	41.3	9.8	46.3	56.3	66.9
12	ASME B16.5 #150	12.0	17.0	3.0	46.1	12.4	47.2	9.8	53.9	65.0	72.8
14	ASME B16.5 #150	14.0	18.8	3.0	54.3	15.7	55.1	9.8	57.5	74.8	78.7
16	ASME B16.5 #150	16.0	21.3	3.5	60.2	15.7	61.0	9.8	63.0	83.1	90.6
18	ASME B16.5 #150	18.0	22.8	3.5	65.2	15.7	65.7	9.8	72.6	90.9	100.4
20	ASME B16.5 #150	20.0	25.0	4.5	76.4	21.7	76.8	14.2	76.8	99.2	114.2
24	ASME B16.5 #150	24.0	29.5	4.5	87.8	21.7	89.0	14.2	#	114.2	#

**DRAWINGS**  
**SERIES: C-201, C-211, C-202,**  
**C-212, C-203, C-213, C-204,**  
**C-214**

NON-BONNETED



BONNETED



**DATASHEET**  
**SERIES: C-201, C-211, C-202, C-212**  
**C-203, C-213, C-204, C-214**

**JASH Schütte**

**DIMENSIONS IN METRIC: DN 700 – DN 2400**

DN	FLANGE	A	B	C	~D	E	~F	~G	~H	~I	~D1
700	EN 1092 PN10	700	840	117	2490	400	2490	250	400	420	3320
	EN 1092 PN16	700	840	117	2490	400	2490	250	400	420	3320
	ASME B16.47 #150	700	864	117	2490	400	2490	250	400	420	3320
750	EN 1092 PN10	#	#	#	#	#	#	#	#	#	#
	EN 1092 PN16	#	#	#	#	#	#	#	#	#	#
	ASME B16.47 #150	750	915	117	2670	400	2670	250	400	420	3490
800	EN 1092 PN10	800	950	117	3100	400	3100	250	400	420	3750
	EN 1092 PN16	800	950	117	3100	400	3100	250	400	420	3750
	ASME B16.47 #150	800	978	117	3100	400	3100	250	400	420	3750
900	EN 1092 PN10	900	1050	117	3250	640	3250	250	400	450	4300
	EN 1092 PN16	900	1050	117	3250	640	3250	250	400	450	4300
	ASME B16.47 #150	900	1086	117	3250	640	3250	250	400	450	4300
1000	EN 1092 PN10	1000	1160	130	3400	640	3400	360	400	500	4680
	EN 1092 PN16	1000	1170	130	3400	640	3400	360	400	500	4680
	ASME B16.47 #150	1000	1200	130	3400	640	3400	360	400	500	4680
1200	EN 1092 PN10	1200	1380	160	4000	640	4000	360	400	575	5100
	EN 1092 PN16	1200	1390	160	4000	640	4000	360	400	575	5100
	ASME B16.47 #150	1200	1422.5	160	4000	640	4000	360	400	575	5100
1400	EN 1092 PN10	-	1590	220	4800	800	4800	640	450	600	6200
	EN 1092 PN16	-	1590	220	4800	800	4800	640	450	600	6200
	ASME B16.47 #150	-	1651	220	4800	800	4800	640	450	600	6200
1500	EN 1092 PN10	-	1700	230	5000	800	5000	640	450	600	7150
	EN 1092 PN16	-	1710	230	5000	800	5000	640	450	600	7150
	ASME B16.47 #150	-	1759	230	5000	800	5000	640	450	600	7150
1600	EN 1092 PN10	-	1820	230	5200	800	5200	640	450	600	8200
	EN 1092 PN16	-	1820	230	5200	800	5200	640	450	600	8200
1800	EN 1092 PN10	-	2020	230	6200	800	6200	800	600	800	9000
	EN 1092 PN16	-	2020	230	6200	800	6200	800	600	800	9000
2000	EN 1092 PN10	-	2230	230	7000	800	7000	800	600	800	10000
	EN 1092 PN16	-	2230	230	7000	800	7000	800	600	800	10000
2400	EN 1092 PN10	-	2650	270	8200	800	8200	800	600	800	11500

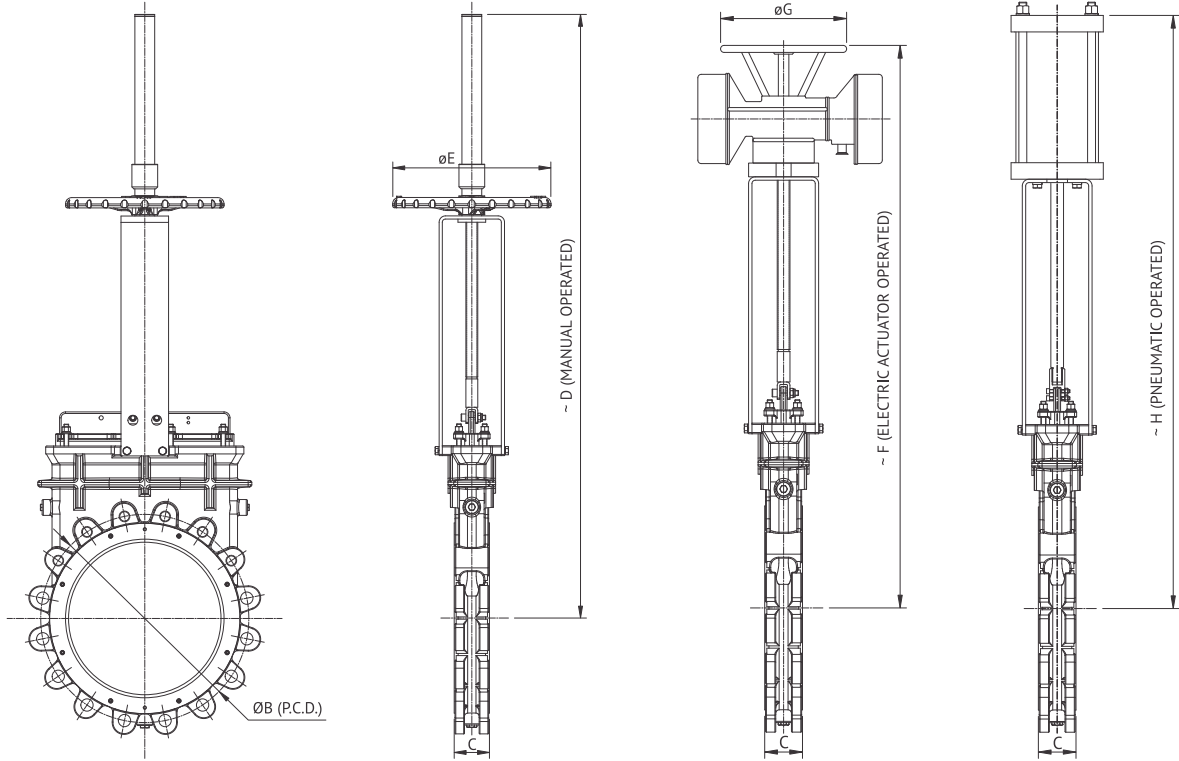
**DIMENSIONS IN INCHES: DN 28" - DN 96"**

DN	FLANGE	A	B	C	~D	E	~F	~G	~H	~I	~D1
28	ASME B16.47 #150	28.0	34.0	4.6	98.0	15.7	98.0	9.8	15.7	16.5	130.7
30	ASME B16.47 #150	30.0	36.0	4.6	105.0	15.7	105.0	9.8	15.7	16.5	137.0
32	ASME B16.47 #150	32.0	38.5	4.6	122.0	15.7	122.0	9.8	15.7	16.5	147.6
36	ASME B16.47 #150	36.0	42.8	4.6	128.0	25.2	128.0	9.8	15.7	17.7	169.3
40	ASME B16.47 #150	40.0	47.2	5.1	133.9	25.2	133.9	14.2	15.7	19.7	184.3
48	ASME B16.47 #150	48.0	56.0	6.3	157.5	25.2	157.5	14.2	15.7	22.6	200.8
56	ASME B16.47 #150	-	65.0	8.7	189.0	31.5	189.0	25.2	17.7	23.6	244.1
60	ASME B16.47 #150	-	69.3	9.1	196.9	31.5	196.9	25.2	17.7	23.6	281.5
66	AWWAC207CLASS D	-	76.0	9.1	208.7	31.5	208.7	25.2	17.7	23.6	330.8
72	AWWAC207CLASS D	-	82.5	9.1	244.1	31.5	244.1	31.5	23.6	31.5	354.3
84	AWWAC207CLASS D	-	95.5	9.1	283.6	31.5	283.6	31.5	23.6	31.5	409.7
96	AWWAC207CLASS D	-	108.5	10.8	328.0	32.0	328.0	32.0	24.0	32.0	460.0

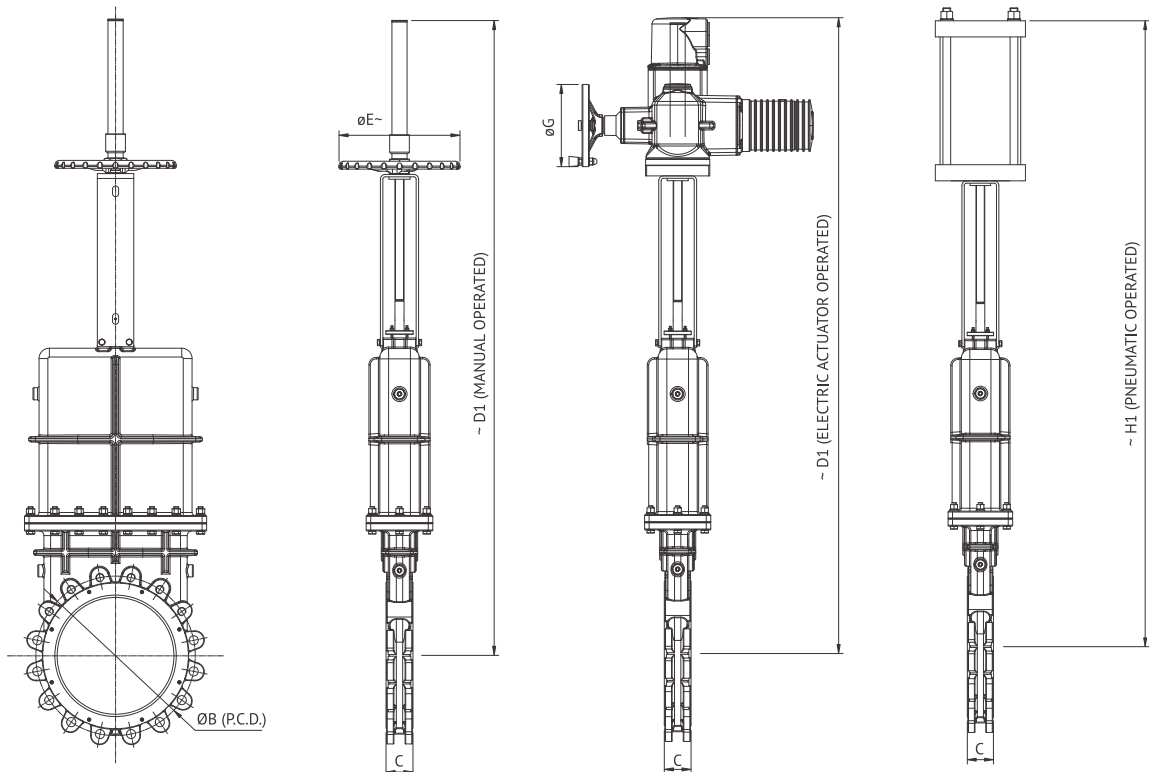
# DRAWINGS

## SERIES: C-205, C-215

NON-BONNETED



BONNETED



**DIMENSIONS IN METRIC: DN 50 - DN 600**

DN	FLANGE	B	C	~D	~E	~F	~G	~H	~D1	~H1
50	EN 1092 PN10	125	48	465	200	565	250	480	-	-
	EN 1092 PN16	125	48	465	200	565	250	480	-	-
	ASME B16.5 #150	121	48	465	200	565	250	480	-	-
65	EN 1092 PN10	145	51	490	200	595	250	540	-	-
	EN 1092 PN16	145	51	490	200	595	250	540	-	-
	ASME B16.5 #150	139	51	490	200	595	250	540	-	-
80	EN 1092 PN10	160	51	520	200	610	250	555	-	-
	EN 1092 PN16	160	51	520	200	610	250	555	-	-
	ASME B16.5 #150	152.5	51	520	200	610	250	555	-	-
100	EN 1092 PN10	180	51	580	200	655	250	675	-	-
	EN 1092 PN16	180	51	580	200	655	250	675	-	-
	ASME B16.5 #150	190.5	51	580	200	655	250	675	-	-
125	EN 1092 PN10	210	57	655	200	695	250	740	-	-
	EN 1092 PN16	210	57	655	200	695	250	740	-	-
	ASME B16.5 #150	216	57	655	200	695	250	740	-	-
150	EN 1092 PN10	240	57	715	200	730	250	780	-	-
	EN 1092 PN16	240	57	715	200	730	250	780	-	-
	ASME B16.5 #150	241.5	57	715	200	730	250	780	-	-
200	EN 1092 PN10	295	70	895	315	910	250	1030	1250	1500
	EN 1092 PN16	295	70	895	315	910	250	1030	1250	1500
	ASME B16.5 #150	298.5	70	895	315	910	250	1030	1250	1500
250	EN 1092 PN10	350	70	1035	315	1050	250	1175	1430	1700
	EN 1092 PN16	355	70	1035	315	1050	250	1175	1430	1700
	ASME B16.5 #150	362	70	1035	315	1050	250	1175	1430	1700
300	EN 1092 PN10	400	76	1170	315	1200	250	1370	1650	1850
	EN 1092 PN16	410	76	1170	315	1200	250	1370	1650	1850
	ASME B16.5 #150	432	76	1170	315	1200	250	1370	1650	1850
350	EN 1092 PN10	460	76	1380	400	1400	250	1460	1900	2000
	EN 1092 PN16	470	76	1380	400	1400	250	1460	1900	2000
	ASME B16.5 #150	476.5	76	1380	400	1400	250	1460	1900	2000
400	EN 1092 PN10	515	89	1530	400	1550	250	1600	2110	2300
	EN 1092 PN16	525	89	1530	400	1550	250	1600	2110	2300
	ASME B16.5 #150	540	89	1530	400	1550	250	1600	2110	2300
450	EN 1092 PN10	565	89	1655	400	1670	250	1845	2310	2550
	EN 1092 PN16	585	89	1655	400	1670	250	1845	2310	2550
	ASME B16.5 #150	578	89	1655	400	1670	250	1845	2310	2550
500	EN 1092 PN10	620	114	1940	550	1950	360	1950	2520	2900
	EN 1092 PN16	650	114	1940	550	1950	360	1950	2520	2900
	ASME B16.5 #150	635	114	1940	550	1950	360	1950	2520	2900
600	EN 1092 PN10	725	114	2230	550	2260	360	#	2900	#
	EN 1092 PN16	770	114	2230	550	2260	360	#	2900	#
	ASME B16.5 #150	749.5	114	2230	550	2260	360	#	2900	#

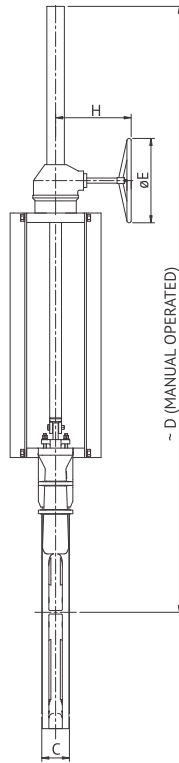
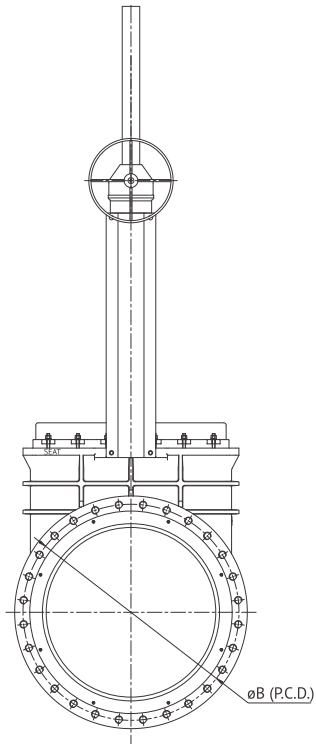
**DIMENSIONS IN INCHES: DN 2" - DN 24"**

DN	FLANGE	B	C	~D	~E	~F	~G	~H	~D1	~H1
2	ASME B16.5 #150	4.8	1.9	18.3	7.9	22.2	9.8	18.9	-	-
2.5	ASME B16.5 #150	5.5	2.0	19.3	7.9	23.4	9.8	21.3	-	-
3	ASME B16.5 #150	6.0	2.0	20.5	7.9	24.0	9.8	21.9	-	-
4	ASME B16.5 #150	7.5	2.0	22.8	7.9	25.8	9.8	26.6	-	-
5	ASME B16.5 #150	8.5	2.2	25.8	7.9	27.4	9.8	29.1	-	-
6	ASME B16.5 #150	9.5	2.2	28.1	7.9	28.7	9.8	30.7	-	-
8	ASME B16.5 #150	11.8	2.8	35.2	12.4	35.8	9.8	40.6	49.2	59.1
10	ASME B16.5 #150	14.3	2.8	40.7	12.4	41.3	9.8	46.3	56.3	66.9
12	ASME B16.5 #150	17.0	3.0	46.1	12.4	47.2	9.8	53.9	65.0	72.8
14	ASME B16.5 #150	18.8	3.0	54.3	15.7	55.1	9.8	57.5	74.8	78.7
16	ASME B16.5 #150	21.3	3.5	60.2	15.7	61.0	9.8	63.0	83.1	90.6
18	ASME B16.5 #150	22.8	3.5	65.2	15.7	65.7	9.8	72.6	90.9	100.4
20	ASME B16.5 #150	25.0	4.5	76.4	21.7	76.8	14.2	76.8	99.2	114.2
24	ASME B16.5 #150	29.5	4.5	87.8	21.7	89.0	14.2	#	114.2	#

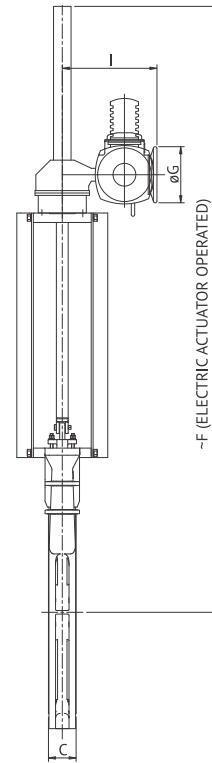
# DRAWINGS

## SERIES: C-205, C-215

NON-BONNETED

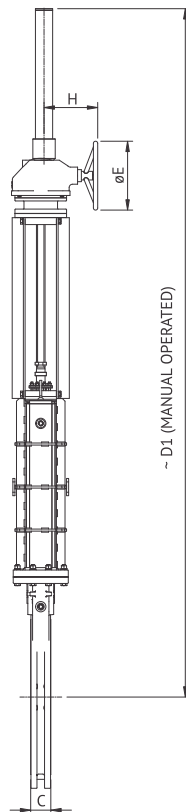
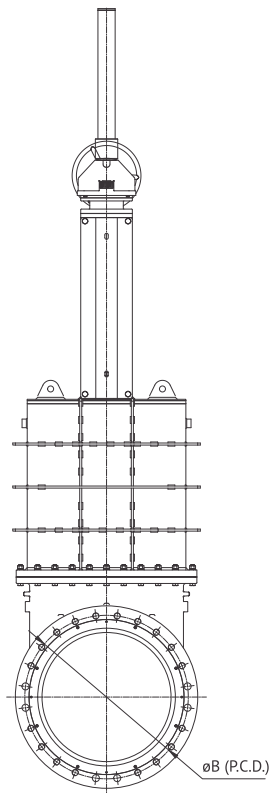


~ D (MANUAL OPERATED)

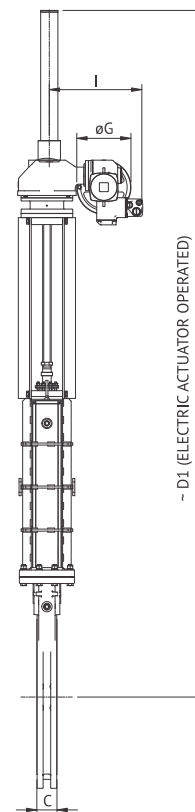


~ F (ELECTRIC ACTUATOR OPERATED)

BONNETED



~ D1 (MANUAL OPERATED)



~ D1 (ELECTRIC ACTUATOR OPERATED)



**DIMENSIONS IN METRIC: DN 700 - DN 2400**

DN	FLANGE	B	C	~D	E	~F	~G	~H	~I	~D1
700	EN 1092 PN10	840	117	2490	400	2490	250	400	420	3320
	EN 1092 PN16	840	117	2490	400	2490	250	400	420	3320
	ASME B16.47 #150	864	117	2490	400	2490	250	400	420	3320
750	EN 1092 PN10	#	#	#	#	#	#	#	#	#
	EN 1092 PN16	#	#	#	#	#	#	#	#	#
	ASME B16.47 #150	915	117	2670	400	2670	250	400	420	3490
800	EN 1092 PN10	950	117	3100	400	3100	250	400	420	3750
	EN 1092 PN16	950	117	3100	400	3100	250	400	420	3750
	ASME B16.47 #150	978	117	3100	400	3100	250	400	420	3750
900	EN 1092 PN10	1050	117	3250	640	3250	250	400	450	4300
	EN 1092 PN16	1050	117	3250	640	3250	250	400	450	4300
	ASME B16.47 #150	1086	117	3250	640	3250	250	400	450	4300
1000	EN 1092 PN10	1160	130	3400	640	3400	360	400	500	4680
	EN 1092 PN16	1170	130	3400	640	3400	360	400	500	4680
	ASME B16.47 #150	1200	130	3400	640	3400	360	400	500	4680
1200	EN 1092 PN10	1380	160	4000	640	4000	360	400	575	5100
	EN 1092 PN16	1390	160	4000	640	4000	360	400	575	5100
	ASME B16.47 #150	1422.5	160	4000	640	4000	360	400	575	5100
1400	EN 1092 PN10	1590	220	4800	800	4800	640	450	600	6200
	EN 1092 PN16	1590	220	4800	800	4800	640	450	600	6200
	ASME B16.47 #150	1651	220	4800	800	4800	640	450	600	6200
1500	EN 1092 PN10	1700	230	5000	800	5000	640	450	600	7150
	EN 1092 PN16	1710	230	5000	800	5000	640	450	600	7150
	ASME B16.47 #150	1759	230	5000	800	5000	640	450	600	7150
1600	EN 1092 PN10	1820	230	5200	800	5200	640	450	600	8200
	EN 1092 PN16	1820	230	5200	800	5200	640	450	600	8200
1800	EN 1092 PN10	2020	230	6200	800	6200	800	600	800	9000
	EN 1092 PN16	2020	230	6200	800	6200	800	600	800	9000
2000	EN 1092 PN10	2230	230	7000	800	7000	800	600	800	10000
	EN 1092 PN16	2230	230	7000	800	7000	800	600	800	10000
2400	EN 1092 PN10	2650	270	8200	800	8200	800	600	800	11500

**DIMENSIONS IN INCHES : DN 28" - DN 96"**

DN	FLANGE	B	C	~D	E	~F	~G	~H	~I	~D1
28	ASME B16.47 #150	34.0	4.6	98.0	15.7	98.0	9.8	15.7	16.5	130.7
30	ASME B16.47 #150	36.0	4.6	105.0	15.7	105.0	9.8	15.7	16.5	137.0
32	ASME B16.47 #150	38.5	4.6	122.0	15.7	122.0	9.8	15.7	16.5	147.6
36	ASME B16.47 #150	42.8	4.6	128.0	25.2	128.0	9.8	15.7	17.7	169.3
40	ASME B16.47 #150	47.2	5.1	133.9	25.2	133.9	14.2	15.7	19.7	184.3
48	ASME B16.47 #150	56.0	6.3	157.5	25.2	157.5	14.2	15.7	22.6	200.8
56	ASME B16.47 #150	65.0	8.7	189.0	31.5	189.0	25.2	17.7	23.6	244.1
60	ASME B16.47 #150	69.3	9.1	196.9	31.5	196.9	25.2	17.7	23.6	281.5
66	AWWA C207 CLASS D	76.0	9.1	208.7	31.5	208.7	25.2	17.7	23.6	330.8
72	AWWA C207 CLASS D	82.5	9.1	244.1	31.5	244.1	31.5	23.6	31.5	354.3
84	AWWA C207 CLASS D	95.5	9.1	283.6	31.5	283.6	31.5	23.6	31.5	409.7
96	AWWA C207 CLASS D	108.5	10.8	328.0	32.0	328.0	32.0	24.0	32.0	460.0

**Notes:**

- All dimensions are for rising stem / spindle knife gate valves.
- Electric and pneumatic actuator selection is done considering working pressure at 3 Bar as standard.
- For "#" marked please consult manufacturer.
- Dimensions are approximate and subject to change. Consult manufacturer for actual drawings.

# KNIFE GATE VALVE- MODEL: MONO

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## UNIDIRECTIONAL SERIES:

- C-102
- C-112

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## SIZE RANGE:

- DN 50 (2") - DN 1200 (48")

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## PRESSURE RATING

- PN6 (90 PSI)
- PN10 (150 PSI)

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## STANDARD

- AWWA C520-14

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## SEATING

- Resilient seat with replaceable metal ring
- Metal seat with replaceable metal ring

---

## BONNET

- Integral with body
- Split body design

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## OPERATION

- Manual
  - Gear operated
  - Pneumatic
  - Electric actuator
  - Hydraulic
- 



Unidirectional Knife Gate Valve, DN 500 (20").

# GENERAL SPECIFICATIONS MODEL: MONO

# JASH Schütte

MONO model knife gate valves are manufactured under technical collaboration with WECO Armaturen GmbH, Germany. These are bonneted glandless valves and offer very low operating torque as compared to conventional knife gate valves and can be used for shut-off applications of clear liquid and liquid solid mixes. These valves can be installed in horizontal / inclined position including in upside down position and have area of opening up to 90% of the nominal valve size.

## SALIENT FEATURES OF KNIFE GATE VALVE, MODEL: MONO-

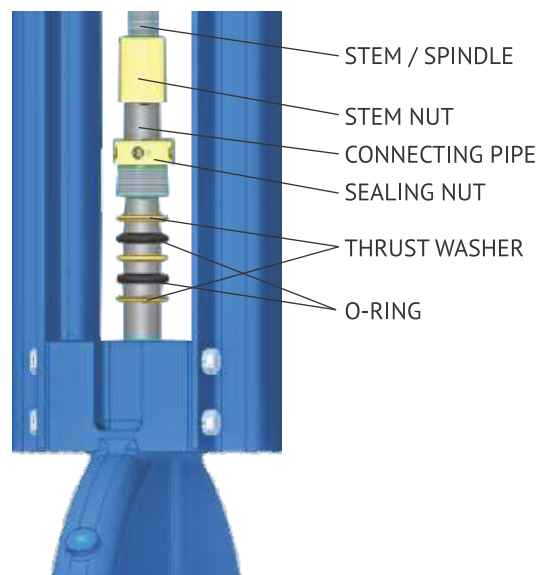
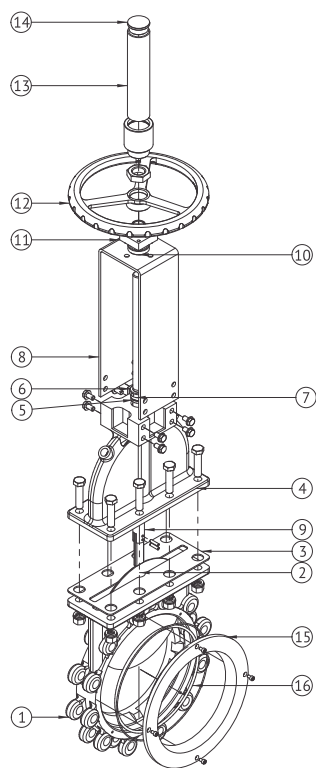
- Full lug type design up to DN 600 (24") and full flange type design above DN 600 (24").
- Valve mounting drilling to suit ASME B16.5 / ASME B16.47 #150 / BS-EN 1092 PN 10 / PN 16 standards.
- Pressure rating PN6 (90 PSI) and PN10 (150 PSI) can be offered depending upon materials of construction of the valve housing.
- Gate having beveled knife-edge at its front to cut through the solid particles settled at bottom of the body so as to achieve full closure.
- Sealing achieved by means of tapered wedges pushing the gate on to the seat for full contact between gate and the seat.
- Floating gate design ensures that the gate does not slide tightly on the seal during opening & closing thereby increasing seal life and reducing operational torque.
- Valves suitable to withstand full pressure from preferred direction and partial pressure from non-preferred direction of flow. Refer table below.
- Resilient seat retained with replaceable retainer ring is offered as standard. Metal seated valve can be provided on request.
- Resilient seated valve to offer zero leakage at applicable pressure.
- Metal seated valves to offer leakage within permissible limits as per AWWA C520-14 / MSS SP-81 standards.
- Patented glandless sealing system at top of bonnet offering zero leakage even for high frequency operation. This design ensures very low operating torque thereby ensuring manual operation, even for large sized valves and allowing use of smaller size mechanized actuation system.
- Rising stem with single / double start thread offered as per requirement. Non-rising stem offered as optional.
- Valves offered with varied operating options such as Hand Wheel / Hand Lever / Bevel Gear / Pneumatic Cylinder / Electric Actuator / Hydraulic Cylinder.
- Depending upon the size of the valve, purging and drain ports can be provided.
- General compliance to requirements of AWWA C-520-14.
- Varied material of construction options for all valve components as stated on page No 17.
- **Painting:** Epoxy paint with total dry film thickness of minimum 100 microns offered as standard. Higher film thickness of 250 microns and fusion bonded epoxy paint can be offered as optional.
- **Testing:** In accordance with AWWA C-520-14 and MSS SP-81 standards.

## ■ TESTING STANDARD FOR KNIFE GATE VALVE ■ MODEL: MONO ■ SERIES: C-102, C-112

SIZE (DN)		BODY TEST		SEAT TEST							
				HIGH PRESSURE TEST (PREFERRED DIRECTION OF FLOW)		LOW PRESSURE TEST (PREFERRED DIRECTION OF FLOW)		HIGH PRESSURE TEST (NON-PREFERRED DIRECTION OF FLOW)		LOW PRESSURE TEST (NON-PREFERRED DIRECTION OF FLOW)	
METRIC	INCH	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI
80	3"	15	225	10	150	0.34	5	10	150	0.34	5
100	4"	15	225	10	150	0.34	5	10	150	0.34	5
150	6"	15	225	10	150	0.34	5	8	115	0.34	5
200	8"	15	225	10	150	0.34	5	6	90	0.34	5
250	10"	15	225	10	150	0.34	5	4	60	0.34	5
300	12"	15	225	10	150	0.34	5	3	45	0.34	5
350	14"	15	225	10	150	0.34	5	2	30	0.34	5
400	16"	15	225	10	150	0.34	5	2	30	0.34	5
450	18"	15	225	10	150	0.34	5	2	30	0.34	5
500	20"	15	225	10	150	0.34	5	1.5	20	0.34	5
600	24"	15	225	10	150	0.34	5	1.5	20	0.34	5

# PARTS NOMENCLATURE

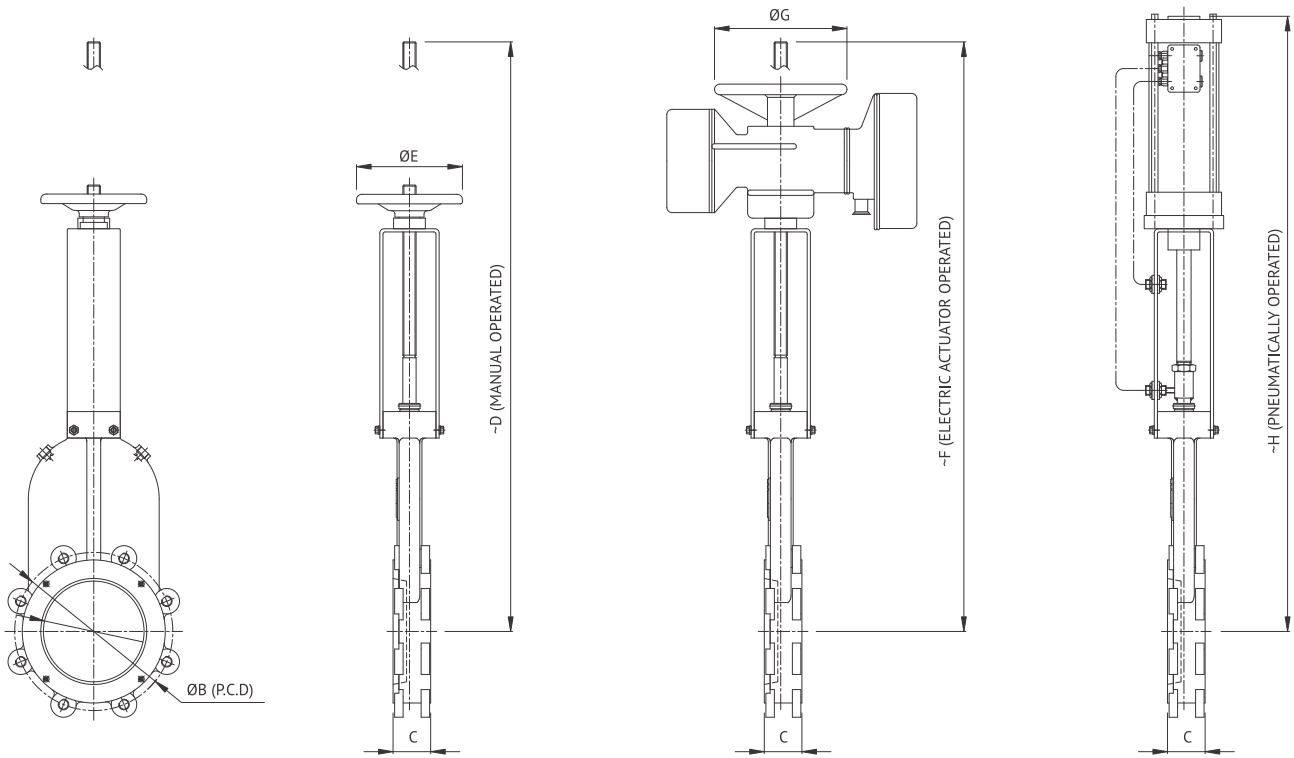
SERIES: C-102, C-112



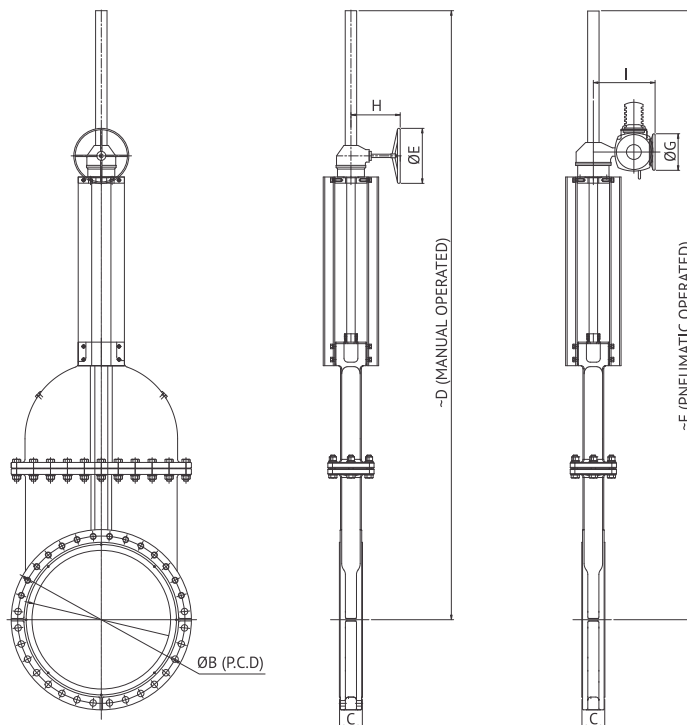
- Patent No. 12 / 391960 (for USA, Canada)
- Patent No. IN 187285 ( for Asia, India)

PART No.	DESCRIPTION	MATERIAL OF CONSTRUCTION
1	Housing	Cast ductile iron ASTM A 536 Gr. 65-45-12 / Cast stainless steel ASTM A 351 Gr. CF: 8 / CF: 8M / CF: 3M / CK: 20 / Super duplex
2	Gate	Stainless steel ASTM A 240 Gr. 304 / 316
3	Bonnet Gasket	EPDM
4	Bonnet	Cast ductile iron ASTM A 536 Gr. 65-45-12 / Cast stainless steel ASTM A 351 Gr. CF: 8 / CF: 8M / CF3M / CK: 20 / Super duplex
5	Spacer	Stainless steel ASTM A 240 Gr. 304 / 316 / 310
6	Gland O Ring	EPDM
7	Sealing Nut (Gland)	Stainless steel ASTM A 240 Gr. 304 / 316 / 310
8	Yoke	Carbon steel IS:2062 Gr. E250 / Stainless steel ASTM A 240 Gr. 304 / 316
9	Stem / Spindle	Stainless steel ASTM A 276 Gr. 304 / 316
10	Stem Nut	Brass
11	Adapter Plate	Carbon Steel IS:2062 Gr. E250 / Stainless steel ASTM A 240 Gr. 304 / 316
12	Hand wheel	Cast ductile iron ASTM A 536 Gr. 65-45-12 / Carbon Steel IS:2062 Gr. E250
13	Stem guard (Optional)	Carbon Steel / Polycarbonate
14	Cap (Optional)	PVC
15	Seat: (a) Resilient seat retained by replaceable metallic seat retainer ring (b) Replaceable metal seat	Cast ductile iron ASTM A 536 Gr. 65-45-12 / Cast stainless steel ASTM A 351 Gr. CF: 8 / CF: 8 M / CF: 3M / CK: 20 / Super duplex
16	Seal	NBR / EPDM / Viton / White Neoprene

**SIZE: DN 50 (2") - DN 600 (24")**



**SIZE: DN 700 (28") - DN 1200 (48")**



# DATASHEET

## SERIES: C-102, C-112

### DIMENSIONS IN METRIC: DN 50 - DN 600

DN	FLANGE	B	C	~D	~E	~F	~G	~H
50	EN 1092 PN10	125	48	465	200	565	250	480
	EN 1092 PN16	125	48	465	200	565	250	480
	ASME B16.5 #150	121	48	465	200	565	250	480
80	EN 1092 PN10	160	51	600	205	600	250	665
	EN 1092 PN16	160	51	600	205	600	250	665
	ASME B16.5 #150	152.5	51	600	205	600	250	665
100	EN 1092 PN10	180	51	670	205	670	250	750
	EN 1092 PN16	180	51	670	205	670	250	750
	ASME B16.5 #150	190.5	51	670	205	670	250	750
125	EN 1092 PN10	210	57	750	205	750	250	870
	EN 1092 PN16	210	57	750	205	750	250	870
	ASME B16.5 #150	216	57	750	205	750	250	870
150	EN 1092 PN10	240	57	840	205	840	250	930
	EN 1092 PN16	240	57	840	205	840	250	930
	ASME B16.5 #150	241.5	57	840	205	840	250	930
200	EN 1092 PN10	295	70	1005	205	1005	250	1170
	EN 1092 PN16	295	70	1005	205	1005	250	1170
	ASME B16.5 #150	298.5	70	1005	205	1005	250	1170
250	EN 1092 PN10	350	70	1200	315	1200	250	1390
	EN 1092 PN16	355	70	1200	315	1200	250	1390
	ASME B16.5 #150	362	70	1200	315	1200	250	1390
300	EN 1092 PN10	400	76	1450	315	1450	250	1640
	EN 1092 PN16	410	76	1450	315	1450	250	1640
	ASME B16.5 #150	432	76	1450	315	1450	250	1640
350	EN 1092 PN10	460	76	1600	400	1600	250	1850
	EN 1092 PN16	470	76	1600	400	1600	250	1850
	ASME B16.5 #150	476.5	76	1600	400	1600	250	1850
400	EN 1092 PN10	515	89	1770	400	1770	250	2080
	EN 1092 PN16	525	89	1770	400	1770	250	2080
	ASME B16.5 #150	540	89	1770	400	1770	250	2080
450	EN 1092 PN10	565	89	2010	400	2010	250	2270
	EN 1092 PN16	585	89	2010	400	2010	250	2270
	ASME B16.5 #150	578	89	2010	400	2010	250	2270
500	EN 1092 PN10	620	114	2150	550	2150	360	2400
	EN 1092 PN16	650	114	2150	550	2150	360	2400
	ASME B16.5 #150	635	114	2150	550	2150	360	2400
600	EN 1092 PN10	725	114	2570	550	2570	360	2680
	EN 1092 PN16	770	114	2570	550	2570	360	2680
	ASME B16.5 #150	749.5	114	2570	550	2570	360	2680

### DIMENSIONS IN INCHES: DN 2" - DN 24"

DN	FLANGE	B	C	~D	~E	~F	~G	~H
2	ASME B16.5 #150	4.8	1.9	18.3	7.9	22.2	9.8	18.9
3	ASME B16.5 #150	6.0	2.0	23.6	8.1	23.6	9.8	26.2
4	ASME B16.5 #150	7.5	2.0	26.4	8.1	26.4	9.8	29.5
5	ASME B16.5 #150	8.5	2.2	29.5	8.1	29.5	9.8	34.3
6	ASME B16.5 #150	9.5	2.2	33.1	8.1	33.1	9.8	36.6
8	ASME B16.5 #150	11.8	2.8	39.6	8.1	39.6	9.8	46.1
10	ASME B16.5 #150	14.3	2.8	47.2	12.4	47.2	9.8	54.7
12	ASME B16.5 #150	17.0	3.0	57.1	12.4	57.1	9.8	64.6
14	ASME B16.5 #150	18.8	3.0	63.0	15.7	63.0	9.8	72.8
16	ASME B16.5 #150	21.3	3.5	69.7	15.7	69.7	9.8	81.9
18	ASME B16.5 #150	22.8	3.5	79.1	15.7	79.1	9.8	89.4
20	ASME B16.5 #150	25.0	4.5	84.6	21.7	84.6	14.2	94.5
24	ASME B16.5 #150	29.5	4.5	101.2	21.7	101.2	14.2	#

**DIMENSIONS IN METRIC: DN 700 - DN 1200**

DN	FLANGE	B	C	~D	~E	~F	~G	~H	~I
700	EN 1092 PN10	840	117	3500	400	3500	250	400	420
	EN 1092 PN16	840	117	3500	400	3500	250	400	420
	ASME B16.47 #150	864	117	3500	400	3500	250	400	420
800	EN 1092 PN10	950	117	3670	400	3670	250	400	420
	EN 1092 PN16	950	117	3670	400	3670	250	400	420
	ASME B16.47 #150	978	117	3670	400	3670	250	400	420
900	EN 1092 PN10	1050	117	3950	640	3950	250	400	450
	EN 1092 PN16	1050	117	3950	640	3950	250	400	450
	ASME B16.47 #150	1086	117	3950	640	3950	250	400	450
1000	EN 1092 PN10	1160	130	4350	640	4350	360	400	500
	EN 1092 PN16	1170	130	4350	640	4350	360	400	500
	ASME B16.47 #150	1200	130	4350	640	4350	360	400	500
1200	EN 1092 PN10	1380	160	5150	640	5150	360	400	575
	EN 1092 PN16	1390	160	5150	640	5150	360	400	575
	ASME B16.47 #150	1422.5	160	5150	640	5150	360	400	575

**DIMENSIONS IN INCHES: DN 28" - DN 48"**

DN	FLANGE	B	C	~D	~E	~F	~G	~H	~I
28	ASME B16.47 #150	34.0	4.6	137.8	15.7	137.8	9.8	15.7	16.5
32	ASME B16.47 #150	38.5	4.6	144.5	15.7	144.5	9.8	15.7	16.5
36	ASME B16.47 #150	42.8	4.6	155.5	25.2	155.5	9.8	15.7	17.7
40	ASME B16.47 #150	47.2	5.1	171.3	25.2	171.3	14.2	15.7	19.7
48	ASME B16.47 #150	56.0	6.3	202.8	25.2	202.8	14.2	15.7	22.6

**Notes:**

- All dimensions are for rising stem / spindle knife gate valves.
- Electric and pneumatic actuator selection is done considering working pressure at 3 Bar as standard.
- For '#' marked please consult manufacturer.
- Dimensions are approximate and subject to change. Consult manufacturer for actual drawings.

## OPTIONAL FEATURES

### DEFLECTION CONE

Deflection cone is put in the material flow area to prevent erosion of the valve housing in abrasive application. In such cases there is no need to change the complete valve and only wear out deflection cone can be replaced thereby saving expense for replacement of complete valve. Deflection cones are available in EN8 hardened /Alloy cast iron construction.



### BOLT ON BONNET:

Non bonneted valves can be provided with bolt on cast or fabricated bonnet to ensure tight sealing to the atmosphere. Bonnet can be pressurized and non-pressurized. Pressurized bonnet provided with glandless sealing system offering zero leakage over high frequency operation cycle & reduced operational torque. Non-pressurized bonnet has packing gland in valve housing, which isolate the bonnet.



### FLUSH / PURGING PORTS:

Flush / purging ports are provided for cleaning of material trapped in the body cavity. These ports are typically placed on the valve chest / bottom of the valves or as required.



### V-PORT DESIGN:

These are used for throttling applications. "V" notch is welded in the material flow area.





# JASH Schütte

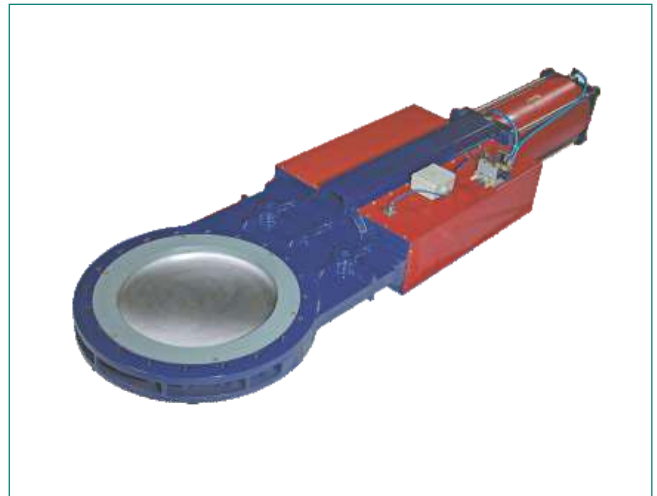
## HARDENING ON FLOW AREA, SEAT & GATE:

Depending upon application and service conditions, valve components can go through additional processes to increase their life. Process like hard stellite facing on flow bore area, seat and gate edge is done to prevent surface erosion from abrasive media. Similarly, nitriding, galvanizing, hard chrome plating, nylon coating etc. can also be provided on gate plate for extended life.



## PROTECTION COVER FOR PNEUMATIC / HYDRAULIC ACTUATED VALVES:

Non bonneted valves can be provided with gate guards to prevent any accidental injury due to the fast-moving gate in pneumatically & hydraulically actuated valve.



## PIPE HOOD FOR STEM / SPINDLE:

Pipe hood arrangement can be provided to prevent accidental injury due to rising spindle / stem and to cover the spindle threads for protection against damage, dirt, dust, water, etc. Pipe hood can be made of transparent fracture resistant polycarbonate material / metallic pipe / plastic pipe.



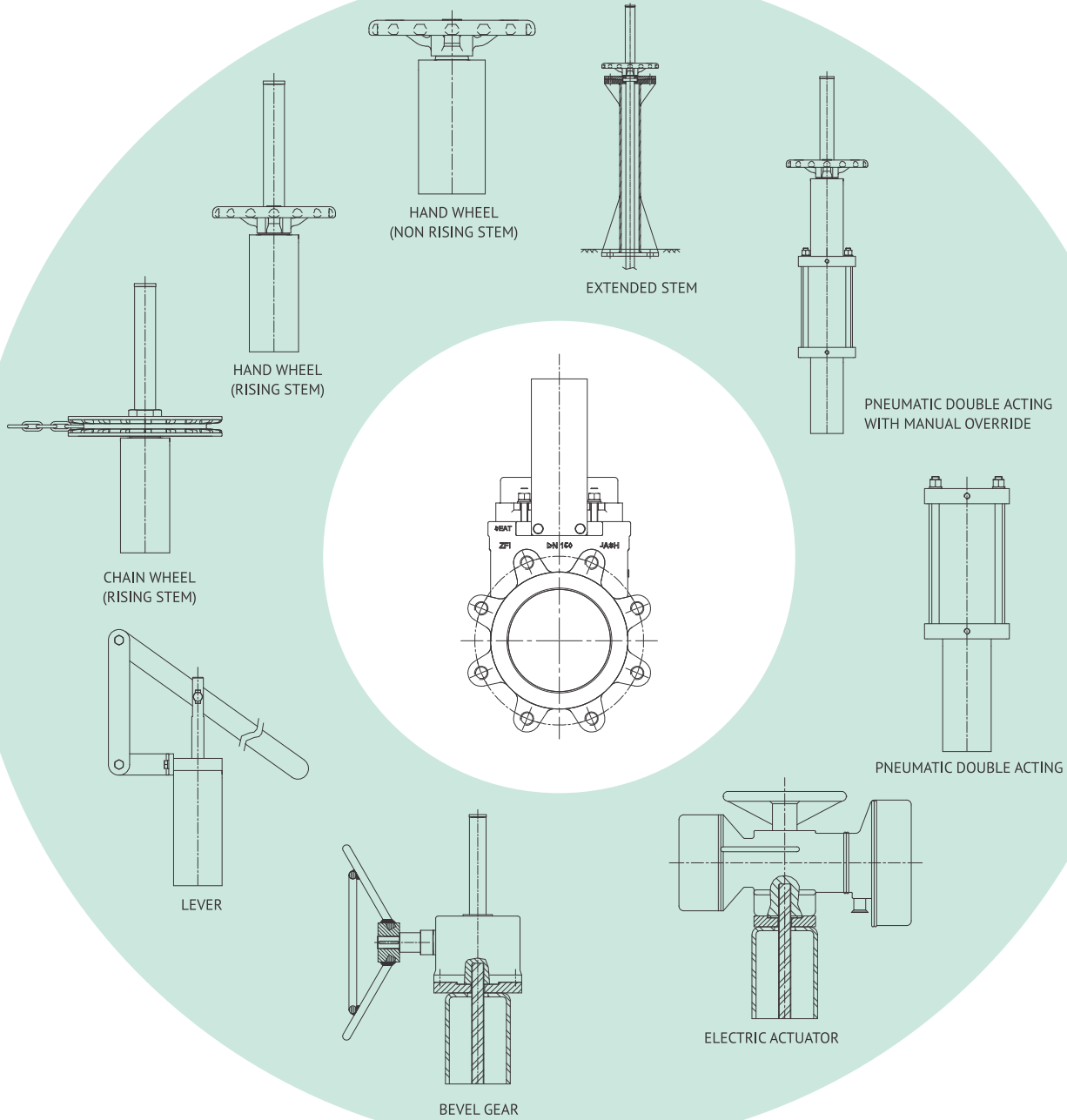
## EXTENDED STEM / SPINDLE ARRANGEMENT:

Extended spindle / stem allows the operator to open or close the valve from a specified distance. This arrangement includes couplings, stem guide bracket, pillars and necessary fasteners.



Other features can be offered on request. Please specify in valve specification form (VSF) while making an enquiry.

**MODES OF OPERATION  
MODEL: ZFI & MONO**



# VALVE SPECIFICATION FORM (VSF)

# JASH Schütte

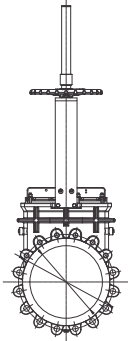
## VALVE SPECIFICATION FORM (VSF)

1. Brief description about type of system and application in which valve(s) will be installed.
2. Requested size of valve(s) (mm / inch).
3. Valve type (unidirectional / bidirectional).
4. Valve(s) installation (inside / outside).
5. Valve(s) to be used for isolation or flow control.
6. Description of the flow media, including types and percentages of any chemicals (including pH level), solids or gases (if any) which will be present.
7. The working temperature of valve in °C.
8. The design temperature of valve in °C.
9. Working in-line pressure of flow media (bar / psi).
10. Design in-line pressure of flow media (bar / psi).
11. Pressure rating required, PN3 (45 psi) / PN6 (90 psi) / PN10 (150) psi / others.
12. Valve(s) actuation details -

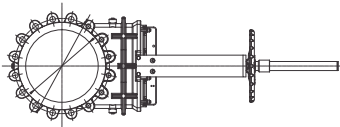
Hand wheel  
  Hand lever  
  Bevel gear  
  Pneumatic cylinder  
  Electric actuator  
  Hydraulic  
  Others (Specify)

Others:.....

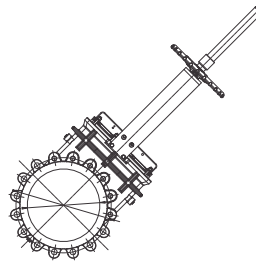
13. Compressed air pressure available for pneumatic cylinder (bar / psi).
14. Valve(s) actuation (times per hour / day / week).
15. Valve operating time per cycle (open or close) (secs / mins).
16. Valve(s) to be used for isolation or flow control.
17. Installed position of valve(s), please select as per illustration below.



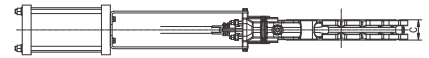
1



2



3



4

18. Bonnet required (yes / no).
19. Valve flange mounting standard (ASME B16.5 / B16.47 #150 / EN 1092 PN10 / PN16 / others).

ASME B16.5 / B16.47  
  EN 1092 PN10  
  EN 1092 PN16  
  Others (Specify)

Others:.....

20. Details of zone classification for valve installation.
  - Non-Hazardous
  - Hazardous (  Zone-0    Zone-1    Zone-2 )

21. Supply voltage rating (volts – Hz) .....
22. Control voltage rating (volts – Hz) .....
23. Optional features (please specify) .....

Please complete this form and email to [info@jashindia.com](mailto:info@jashindia.com), [salespg@jashindia.com](mailto:salespg@jashindia.com)

## MANUFACTURING FACILITIES



Unit 1, Indore with built up area spanning over 125,000 Sq. feet



Unit 2, Indore with built up area spanning over 155,000 Sq. feet



Unit 3 & 4, SEZ, Pithampur with built up area spanning over 100,000 Sq. feet

## IN-HOUSE CAPABILITIES TO MANUFACTURE VALVES UP TO DN 4000 (160") SIZE



Cast Iron foundry to cast 20 tons castings.



Shearing and bending machine to shear and bend up to 16 mm thick plates.



Water jet cutting machine to cut gate up to 100 mm thick.



CNC Laser cutting machine to cut gate up to 16 mm thick.



Large CNC milling machine for valves up to 2000 mm (80") size.



Large floor boring machine for valves up to 3000 mm (120") size.



Valve testing area.



Bath pickling for stainless steel valves.



Fusion bonded painting



Positive material identification (PMI)



Glass bead / shot blasting for stainless steel valves.

## INSTALLATION PHOTOGRAPHS



*Installation of Bidirectional DN 2000 (80"), supplied to PUB Singapore for Changi Water Reclamation Plant*



*Installation of unidirectional DN 600 (24"), supplied for Sewage treatment plant, Nerul, Mumbai*

## PRODUCT PHOTOGRAPHS

# JASH Schütte



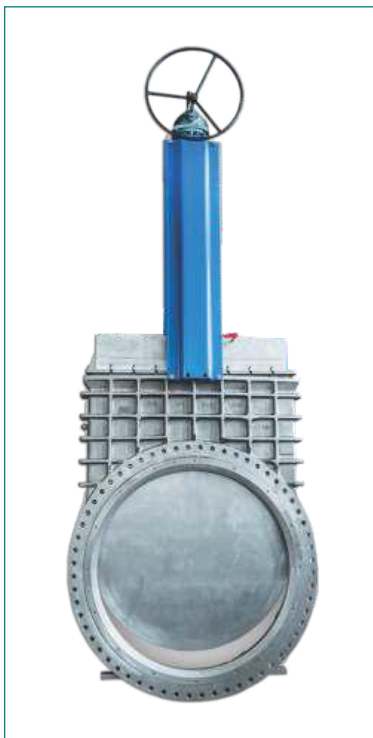
DN 1600 (64"), Super duplex steel knife gate valve for Vatech Wabhag, Nemmeli desalination project, Chennai, India



DN 750 (30"), Low operating torque, bonneted, Stainless steel knife gate valve for Raphael Valves, Israel



DN 1500 (60"), Bi-directional Stainless steel knife gate valve for Stealth Valves & Controls, Canada



DN 1800 (72"), Unidirectional stainless steel knife gate valve for Miami dade water & sewer department



DN 200 (8"), Stainless Steel knife gate valve for Thermax, Captive power plant of RIL, Dahej / Hazira, India

- Manufacturer reserves the right to depart from the catalogue specifications and illustrations at any time, with or without notice.
- Pictures shown are general, unless specific job names are listed.



The entire range of Jash-Schütte valves can be offered in varied material of construction viz cast iron / cast carbon steel / cast ductile iron / cast stainless steel / duplex / super duplex and any special alloy to suit the application.

For more information about our products or to contact our sales representative, visit our website [www.jashindia.com](http://www.jashindia.com) or call at our office.

## BULK SOLIDS VALVES RANGE



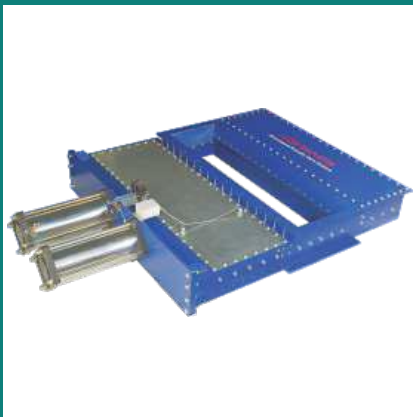
SLIDE GATE VALVE, MODEL: ZFB



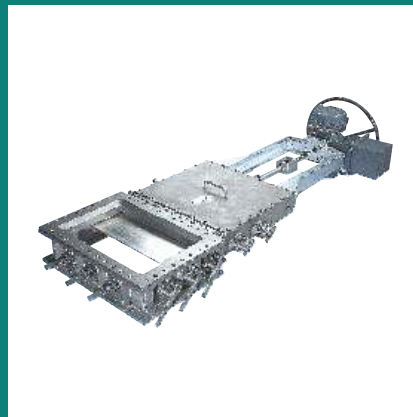
SWING GATE VALVE, MODEL: KU-STD



SWING GATE VALVE, MODEL: KU-PAM



FABRICATED SLIDE GATE VALVE  
MODEL: VEG



CUSTOMIZED SPECIAL PURPOSE VALVE



DOUBLE FLAP VALVE, MODEL: DFG



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### SUBSIDIARIES:

- Jash USA Inc., USA
- Rodney Hunt Inc., USA
- Mahr Maschinenbau GmbH, Austria
- Engineering & Manufacturing Jash Ltd., Hongkong
- Shivpad Engineers Pvt Ltd., India