

AFC-70

M O D E L

HOPPER SHAPE KNIFE GATE VALVE



The **AFC-70** model knife gate is a uni-directional wafer valve designed for industrial bulk handling service applications (powdered and granular products). The special design of the body allows for easy passage of the fluid and makes it ideal for use as silo outlet valve. Widely used in industries such as:

- Power plants
- Chemical plants
- etc.
- Food and Beverage
- Mining

The valve is normally installed in the reverse position (seat upstream) in order to avoid problems like build-up in valve body, seat wear, difficult closing,...

Sizes: DN 50 to DN 600 (larger diameters on request)

Working pressure:

DN 50 to DN 250	10 (kg/cm ²)
DN 300 to DN 400	6 (kg/cm ²)
DN 450	5 (kg/cm ²)
DN 500 to DN 600	4 (kg/cm ²)

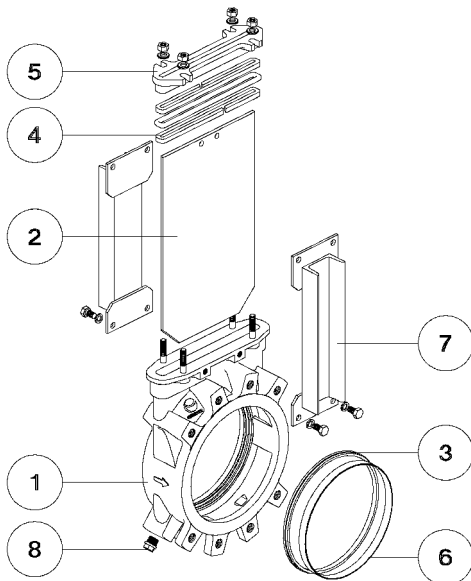
SEAT OPPOSITE PRESSURE

DN 50 to DN 250	3 (kg/cm ²)
DN 300 to DN 400	2 (kg/cm ²)
DN 450	1.5 (kg/cm ²)
DN 500 to DN 600	1 (kg/cm ²)

Standard flange connection:

DIN PN 10 and ANSI B16.5 (class 150)

Note: other flange connections are available on request.



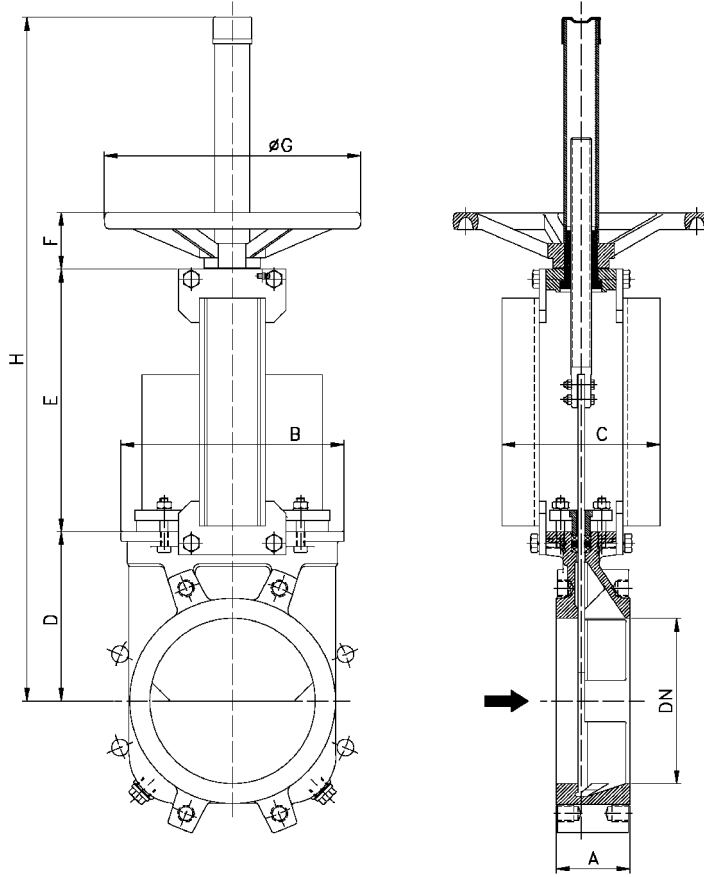
STANDARD PARTS LIST

Part:	Cast Iron:	Stainless Steel:
1- Body	GG25	CF8M
2- Gate	AISI 304	AISI 316
3- Seat	Metal or EPDM	
4- Packing	AH	NT
5- Gland Follower	Aluminum (DN 50 to DN 300) S.G. Iron (DN 350 to DN 600)	CF8M
6- Seat retainer ring	AISI 304	AISI 316
7- Support Plates	Carbon Steel - Epoxy coated	
8- Cap	Carbon Steel	

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HANDWHEEL (RISING STEM)



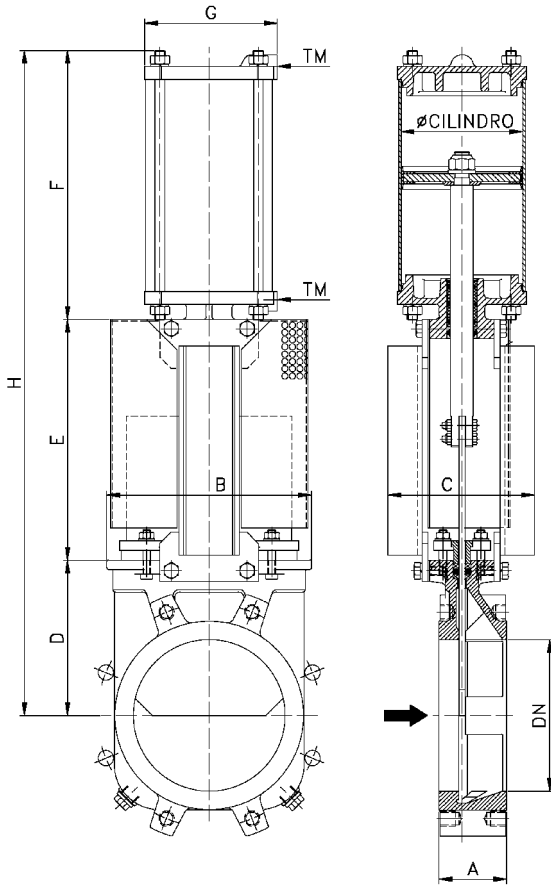
- Standard handwheel actuator.
- Consists of:
 - Handwheel: Epoxy coated Cast Iron or Steel (DN 50 to DN 300)
 - Stem
 - Stem nut
 - Stem protector
 - Grease nipple
- Available in DN 50 to DN 600
- Options:
 - Locking Device
 - Extensions

DN	A	B	C	D	E	F	ØG	H	WEIGHT (KG.)
50	46	124	90	105	135	48	200	429	7
65	46	139	90	115	152	48	200	455	8
80	64	154	90	124	168	48	200	481	9
100	64	174	90	140	193	48	200	522	11
125	70	192	104	150	217	52	250	605	15
150	76	217	104	170	243	52	250	652	18
200	89	270	187	205	318	63	300	830	30
250	114	326	187	240	373	63	300	1020	44
300	114	380	187	280	423	63	300	1110	58
350	127	438	290	320	503	68	410	1323	96
400	140	493	290	350	553	68	410	1395	124
450	152	546	290	420	603	68	550	1598	168
500	152	620	290	450	663	68	550	1688	192
600	178	714	290	530	763	68	550	1978	245

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PNEUMATIC CYLINDER



- The standard pneumatic actuator (double acting on-off cylinder) consists of:
 - Aluminium jacket and covers
 - Stainless (AISI 304) piston rod
 - Nitrile coated steel piston
- Available in DN 50 to DN 600
- Supply Pressure: minimum 3.5 kg/cm² - maximum 7 kg/cm²
- Reinforced design of support plates (U-type) is standard starting from DN 200.
- Options:
 - Hard anodised jacket and covers
 - Over / Under sized cylinder
 - Stainless jacket and covers
 - Manual override
 - Fail safe system
 - Travel stops
- Instrumentation (on request):
 - Positioners
 - Solenoid valves
 - Flow regulators
 - Air preparation units

DN	A	B	C	D	E	F	G	H	WEIGHT (KG.)	STANDARD CYL.	CONNECT.
50	46	124	90	105	135	170	95	410	9	C80/62	1/4" G
65	46	139	90	115	152	186	95	453	10	C80/77	1/4" G
80	64	154	90	124	168	204	95	496	11	C80/95	1/4" G
100	64	174	90	140	193	225	115	558	14	C100/115	1/4" G
125	70	192	104	150	217	268	140	635	20	C125/143	1/4" G
150	76	217	104	170	243	292	140	705	25	C125/168	1/4" G
200	89	270	187	205	318	355	175	878	44	C160/220	1/4" G
250	114	326	187	240	373	413	220	1026	67	C200/270	3/8" G
300	114	380	187	280	423	463	220	1166	82	C200/320	3/8" G
350	127	438	290	320	503	541	277	1364	135	C250/375	3/8" G
400	140	493	290	350	553	591	277	1494	165	C250/425	3/8" G
450	152	546	290	420	603	669	382	1692	220	C300/475	1/2" G
500	152	620	290	450	663	719	382	1832	280	C300/525	1/2" G
600	178	714	290	530	763	819	382	2112	330	C300/625	1/2" G