

AFC-60

M O D E L

RUBBER SLEEVE SLURRY KNIFE GATE VALVE



The **AFC-60** model knife gate is a wafer valve designed for a wide range of industrial applications. The double-seated design provides bi-directional shut off. The design of the valve body and the two rubber sleeves makes the **AFC-60** valve suited for use in handling abrasive slurries in industries such as:

- Mining
- Chemical plants
- etc.
- Power plants
- Wastewater treatment

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

Working pressure :

DN 50 to DN 125:	9 (kg/cm ²)
DN 150:	6 (kg/cm ²)
DN 200 to DN 250:	5 (kg/cm ²)
DN 300:	4 (kg/cm ²)
DN 350 to DN 400:	3 (kg/cm ²)
DN 450 to DN 600:	2,5 (kg/cm ²)

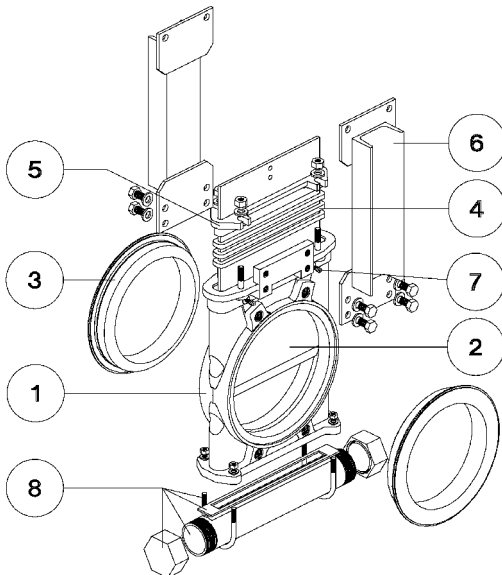
Note: Availability for gate manufacturing in other materials to achieve higher working pressures. Please consult our technical department.

Standard Flange connection: DIN PN 10 and ANSI B16.5 (class 150)

Other : (On request)

DIN PN 6	DIN PN 16	DIN PN 25
BS "D" and "E"	ANSI 125	

Standard face to face dimensions according to MSS SP-81



STANDARD PARTS LIST

Part:	Cast Iron:	Stainless Steel:
1- Body	GG25	CF8M
2- Gate	AISI 304	AISI 316
3- Sleeves	Natural rubber	
4- Packing	AH	NT
5- Gland Follower	S.G. Iron/ Carbon Steel	AISI 316
6- Support Plate	Carbon Steel - Epoxy coated	
7- Grease Nipple	acc. to DIN 3402	
8- Splash guard (optional)	see options	

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SEAT / SEALS

Material	Max. Temp(°C)	Aplicaciones
Natural rubber	75	General
EPDM	120	Acids and non mineral oils
Neoprene	90	Oils and solvents.
Chlorobutyl	125	High temperatures

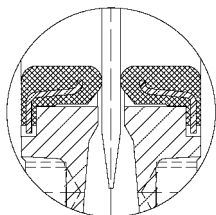
All of them are reinforced with a stainless steel core.

PACKINGS

Material	Max. Temp. (°C)	pH
Tallowed cotton (AH)	50	6 - 8
Dry cotton (AS)	50	6 - 8
PTFE impregn.natural fibre (NT)	120	4 - 12
PTFE impregn. synth. fibre (ST)	240	2 - 13
Braided PTFE (TH)	260	0 - 14

NOTE: All types include an elastomere O-ring, except TH.

SEAT



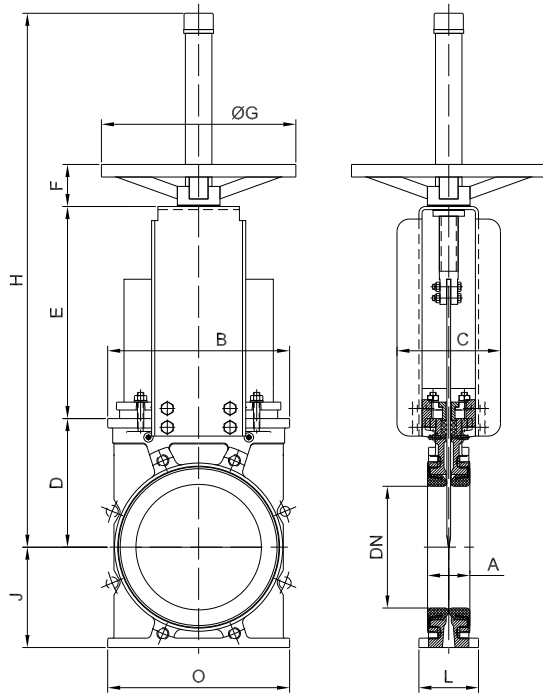
SEAT SYSTEM

Double-seated design, bi-directional. The easily replaceable moulded elastomer sleeves form a tight seal against each other when the valve is open (providing free port and protecting metal parts) and seal against the gate when the valve is closed.

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HANDWHEEL (RISING STEM)



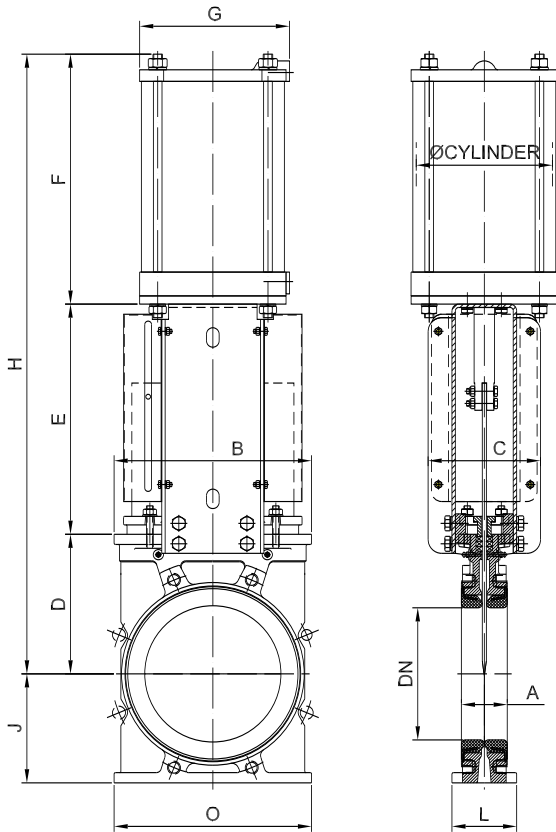
- Standard handwheel actuator
- Consists on:
 - Handwheel: Epoxy coated Cast Iron
 - Stem
 - Stem nut
 - Stem protector
- Available from DN 50 to DN 600
 - Higher DN on request
- Options (on request):
 - Locking Device
 - Extensions and floor stand

DN	A	B	C	D	E	F	ØG	H	J	L	O	WEIGHT (KG.)
50	48	139	100	105	162	47	225	456	63	69	180	10
65	48	154	100	115	187	47	225	495	70	69	195	13
80	51	174	100	124	211	47	225	575	90	82	195	14,5
100	51	178	100	140	255	67	310	670	100	82	225	22
125	57	206	100	150	278	67	310	733	123	82	215	24
150	57	231	100	175	309	67	310	789	130	82	245	26
200	70	290	270	205	363	68	410	971	160	95	290	39,5
250	70	346	270	245	439	70	410	1103	200	95	350	63
300	76	398	270	280	492	70	410	1271	232	95	405	72
350	76	447	290	325	548	70	550	1372	258	118	460	96
400	89	503	290	350	628	97	800	1617	292	118	510	188
450	89	556	290	420	681	97	800	1795	318	118	570	216
500	114	618	290	462	755	97	800	1951	345	130	630	274
600	114	724	290	510	866	97	800	2220	400	130	740	318

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PNEUMATIC CYLINDER



- The standard pneumatic actuator (double acting on-off cylinder) consists of:
 - Aluminium jacket and covers
 - Stainless Steel (AISI 304) piston rod
 - Nitrile coated steel piston
- Available from DN 50 to DN 600
- Supply Pressure: minimum 3.5 kg/cm² - maximum 10 kg/cm²
- Reinforced design of support plates (U-type) is standard starting from DN 200.
- Options (on request):
 - Hard anodized jacket and covers
 - Over / Undersized cylinder
 - Stainless Steel jacket and covers
 - Manual override
 - Fail safe system
 - Travel stops
- Instrumentation (on request):
 - Positioners
 - Flow regulators
 - Solenoid valves
 - Air preparation units

DN	A	B	C	D	E	F	G	H	J	L	O	WEIGHT(kg.)	STANDARD CYL.	CONNECT.
50	48	139	100	105	162	203	115	476	63	69	180	12	C100/95	1/4" G
65	48	154	100	115	187	222	115	530	70	69	195	15	C100/110	1/4" G
80	51	174	100	124	211	249	140	590	90	82	195	17	C125/125	1/4" G
100	51	178	100	140	255	283	175	678	100	82	225	25	C160/150	1/4" G
125	57	206	100	150	278	308	175	736	123	82	215	28	C160/175	1/4" G
150	57	231	100	175	309	338	175	822	130	82	245	31	C160/205	1/4" G
200	70	290	270	205	363	408	220	976	160	95	290	50	C200/260	3/8" G
250	70	346	270	245	445	490	277	1180	200	95	350	78	C250/320	3/8" G
300	76	398	270	280	497	565	382	1342	232	95	405	88	C300/365	1/2" G
350	76	447	270	325	553	610	382	1488	258	118	460	132	C300/415	1/2" G
400	89	503	290	350	613	704	444	1667	292	118	510	232	C350/475	3/4" G
450	89	556	290	420	666	754	444	1840	318	118	570	268	C350/525	3/4" G
500	114	618	290	462	742	823	515	2027	345	130	630	340	C400/575	3/4" G
600	114	724	290	510	853	933	515	2296	400	130	740	396	C400/685	3/4" G
750	152	980	430	650	1190	1062	483	2902	535	140	965	340	C450/880	3/4" G
900	203	1176	320	700	1400	1190	535	3290	635	170	1176	396	C500/1000	3/4" G