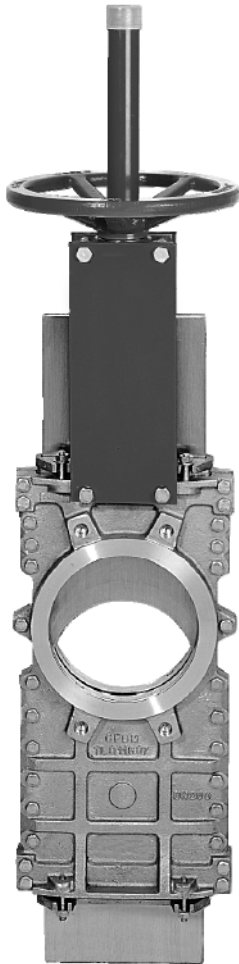


AFC-50

M O D E L

THROUGH CONDUIT KNIFE GATE VALVE



The **AFC-50** model knife gate is a bi-directional wafer valve designed for media with high consistency. The double seat design assures a non-clogging shut off on either normal or reverse flow. The valve is used in a wide range of demanding applications in industries such as:

- Pulp & Paper
- Power Plants
- etc.
- Wastewater Treatment Plants
- Chemical plants

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

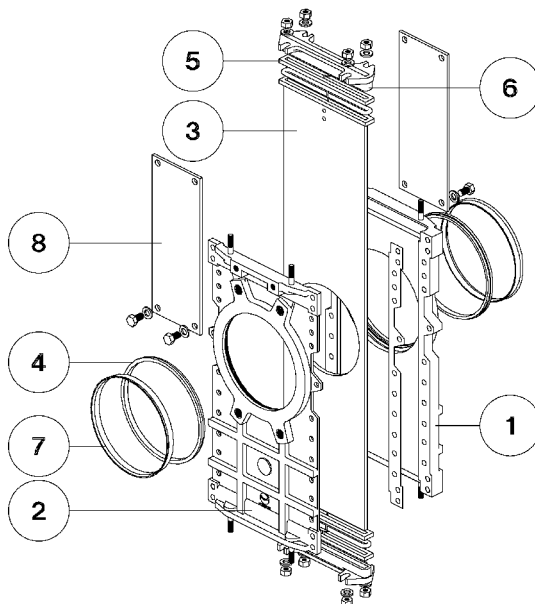
Working pressure:

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)

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

Note: other flange connections are available on request such as:

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



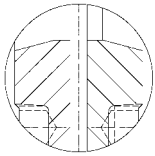
STANDARD PARTS LIST

Part:	Cast Iron:	Stainless Steel:
1- Body	GG25	CF8M
2- Body	GG25	CF8M
3- Gate	AISI 304	AISI 316
4- Seat	Metal or Resilient	
5- Packing	AH	NT
6- Gland Follower	Aluminum (DN 50 to DN 300) S.G. Iron (DN 350 to DN 1000)	CF8M
7- Seat Retainer Ring	AISI 304	AISI 316
8- Support Plates	Carbon Steel - Epoxy Coated	

SEAT / SEALS			PACKING		
Material	Max.Temp.(°C)	Applications	Material	Max. Temp. (°C)	pH
Metal/Metal	>250	High temp. Low tightness.	Tallowd cotton (AH)	50	6 - 8
EPDM (E)	120	Acids and non mineral oils.	Dry cotton (AS)	50	6 - 8
Nitrile (N)	120	Resistance to petroleum products.	PTFE impregn. natural fibre (NT)	120	4 - 12
Viton (V)	200	General chemical service.	PTFE impregn. synth. fibre (ST)	240	2 - 13
		High temperature.	Braided PTFE (TH)	260	0 - 14
Silicone (S)	250	Food service. / High temperature.	Graphited (AG)	300	4 - 12
PTFE (T)	250	Corrosion resistance.	Ceramic fibre (FC)	1200	—
More details and other materials under request.			NOTE: all types include an elastomere O-ring (same material as seal), excluding TH, AG and FC.		

SEAT TYPES

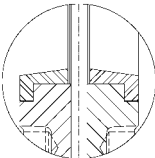
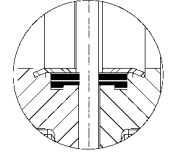
Cast Iron



METAL / METAL

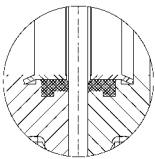
Used for high temperature or in applications where tight shutoff is not required. UHMW polyethylene seat sliders for smoother gate travel (stainless steel version only).

Stainless Steel



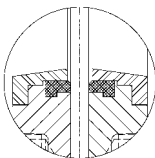
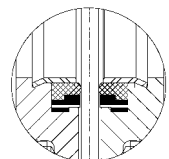
METAL / METAL, TYPE "B"

Two replaceable reinforced "B" type rings (available in AISI 316, Ni-hard, CA-15,...) protect the seat in abrasive services.



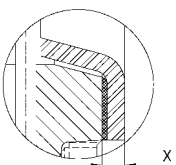
RESILIENT, TYPE "A"

The standard resilient seat design consists of an elastomer seal locked to the valve body with a replaceable stainless steel retainer ring. Temperature limitations according to seat material selected. Consult the above chart or our technical department for more information. UHMW polyethylene seat sliders for smoother gate travel (stainless steel version only).



RESILIENT, TYPE "B"

The two replaceable reinforced seal retainer rings (available in AISI 316, Ni-hard, CA-15,...) protect the seat in abrasive services. Temperature limitations according to seat material selected. Consult the above chart or our technical department for more information.



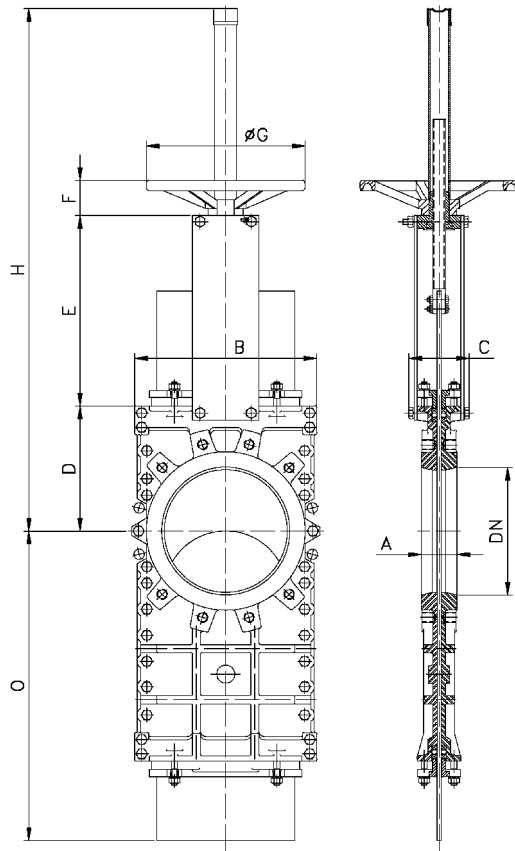
DEFLECTION CONE "C"

Deflects the media away from any internal exposed parts of the valve such as gate guides, seat, etc.... Different types of material available such as AISI 316 stainless, CA15, Ni-Hard, etc.... Face to face dimensions increase: DN 50 to DN 250 = 9mm
DN 300 to DN 600 = 12mm

AFC-50

M O D E L

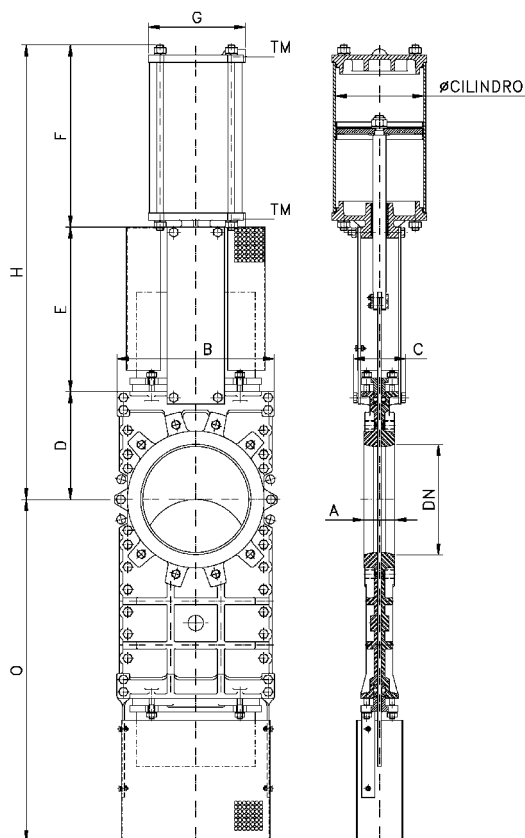
HANDWHEEL (RISING STEM)



- 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 (on request):
 - Locking Device
 - Extensions

DN	A	B	C	D	E	F	ØG	H	O MAX.	WEIGHT (KG.)
50	40	152	90	110	135	48	200	429	230	12
65	40	167	90	115	152	48	200	456	270	14
80	50	182	90	124	168	48	200	481	310	16
100	50	202	90	140	193	48	200	522	365	20
125	50	216	104	150	217	52	250	606	430	29
150	60	241	104	175	243	52	250	657	495	35
200	60	294	118	205	318	63	300	830	635	62
250	70	356	118	245	373	63	300	1025	775	89
300	70	410	118	280	423	63	300	1110	905	110
350	96	473	193	300	503	68	410	1303	1045	174
400	100	538	193	350	553	68	410	1403	1170	266
450	106	588	197	420	603	68	550	1598	1300	326
500	110	646	197	450	663	68	550	1688	1460	372
600	110	754	197	530	763	68	550	1978	1710	445

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
- For valves installed in a horizontal position, we recommend U-type support plates and/or actuator support.
- 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	O MAX.	E	F	G	H	WEIGHT (KG.)	STANDARD CYL. CONNECT.
50	40	152	90	110	230	135	170	95	410	14	C80/62 1/4" G
65	40	167	90	115	270	152	186	95	453	16	C80/77 1/4" G
80	50	182	90	124	310	168	204	95	496	18	C80/95 1/4" G
100	50	202	90	140	365	193	225	115	558	23	C100/115 1/4" G
125	50	216	104	150	430	217	268	140	635	34	C125/143 1/4" G
150	60	241	104	175	495	243	292	140	710	41	C125/168 1/4" G
200	60	294	118	205	635	318	355	175	878	73	C160/220 1/4" G
250	70	356	118	245	775	373	413	220	1036	105	C200/270 3/8" G
300	70	410	118	280	905	423	463	220	1166	128	C200/320 3/8" G
350	96	473	193	300	1045	503	541	277	1344	207	C250/375 3/8" G
400	100	538	193	350	1170	553	591	277	1494	300	C250/425 3/8" G
450	106	588	197	420	1300	603	669	382	1692	378	C300/475 1/2" G
500	110	646	197	450	1460	663	719	382	1832	445	C300/525 1/2" G
600	110	754	197	530	1710	763	819	382	2112	619	C350/625 1/2" G