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KNIFE GATE VALVE WITH DOUBLE ACTING PNEUMATIC ACTUATOR

VGA 3430-03



Tecofi
VALVE DESIGNER - FRANCE

APPLICATION

General use : Pulp production, water, water treatment, waste water, chemical industry (powdery or crystallizing products), wine-producing, pulverized products (cement work, pneumatic transport, stocking).

GENERAL CHARACTERISTICS

Function ON/OFF or regulation.
Wafer threaded mounting ASA 150.
Unidirectional tightness, direction indication thanks to the arrow on the body.
Small retention zone: the gate is guided in the body and has little clearance.
Gland assembly: packing and O-ring (same material as seat joint) to assure the elasticity and decrease the operating force.
Small head loss.
Possibility to regulate thick fluids the adaptation of a diaphragm ring .

CONSTRUCTION

11	2	Protection plate	Stainless steel 304	DIN : X5CrNi 18-10 ASTM : AISI 304 BS : 304 S15
10	1	O-ring	Nitril	
9**	1	Support ring	Stainless steel 316	DIN : X5CrNiMo18 10 ASTM : A 182 AIS 3 16 BS : 316 S16
8**	1	Gasket	Nitril	
7	1	Packing gland	Aluminium DN50-450 Steel DN500-1200	
6	1	Pneumatic actuator	Aluminium	
5*	2	Support plate	Steel + epoxy	
4	1	Stern	Stainless steel 13%Cr	
3	1	Knife gate	X5CrNi 18-10	DIN : X5CrNi 18-10 ASTM : AISI 304 BS : 304 S15
2	2	Packing	PTFE	
1	1	Body	EN-GJL-250	DIN : GG 25 ASTM : A48 class 40B BS : 1452 Grade 250
Pos.	Qty.	Description	Material	

* Pre-shaped parts up to DN 300.
** Missing parts on metal / metal tightness.

DIMENSIONS

DN		A	B	C	D	Ø F	Ø P	H	Ø K	n	Ø M	Weight (kg)
mm	inch								(inch)			
50	2"	40	240	124	83	1/4"	80	412	4.75	4	4 - 0.75	8
65	2 1/2"	40	265	139	83	1/4"	80	458	5.50	4	4 - 0.75	9
80	3"	50	290	154	83	1/4"	80	502	6.00	4	4 - 0.75	10
100	4"	50	335	174	83	1/4"	100	562	7.50	8	4 - 0.75	13
125	5"	50	373	189	93	1/4"	125	642	8.50	8	4 - 0.88	18
150	6"	60	424	220	93	1/4"	125	718	9.50	8	4 - 0.88	23
200	8"	60	533	275	108	1/4"	160	882	11.75	8	4 - 0.88	39
250	10"	70	625	326	108	1/4"	200	1044	14.25	12	8 - 1.00	57
300	12"	70	732	380	108	1/4"	200	1164	17.00	12	8 - 1.00	74
350	14"	96	835	438	290	3/8"	250	1362	18.75	12	10 - 1.12	127
400	16"	100	945	494	290	3/8"	250	1542	21.25	16	10 - 1.12	138
450	18"	106	1040	547	290	3/8"	250	1677	22.75	16	14 - 1.25	176

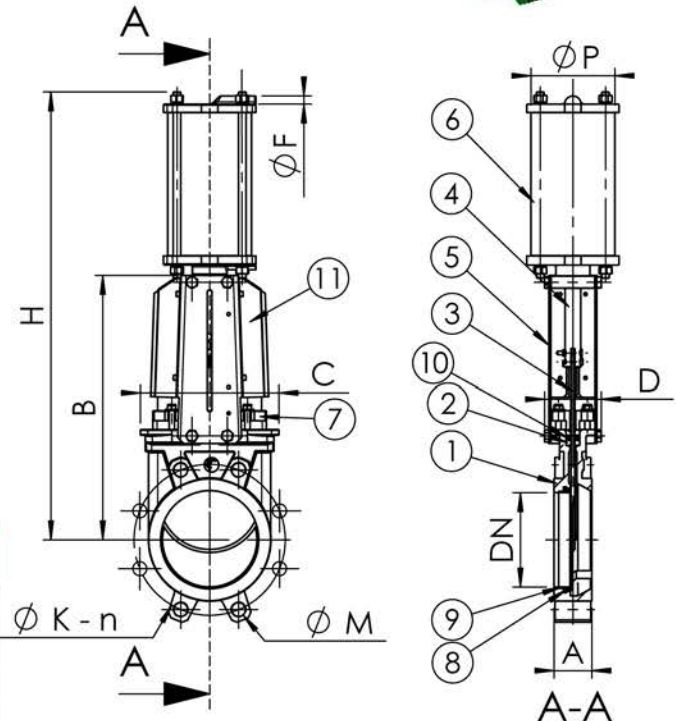
WORKING CONDITIONS

Maximum working pressure : DN 50-250 : 10 bar
DN 300-450 : 7 bar

Maximum temperature : -10°C / +80°C

Others materials on request (if marked)	Maximum temperature	
Metal / metal	T max : -10°C / +80°C.	<input type="checkbox"/>
White NBR	T max : -10°C / +80°C.	<input type="checkbox"/>
EPDM	T max : -10°C / +130°C.	<input type="checkbox"/>
Silicone	T max : -10°C / +170°C.	<input type="checkbox"/>
FPM (Type Viton®)	T max : -10°C / +170°C.	<input type="checkbox"/>
PTFE***	T max : +4°C / +170°C.	<input type="checkbox"/>
CSM (Type Hypalon®)	T max : +4°C / +80°C.	<input type="checkbox"/>

*** Minimum working pressure : 1 bar



Standard tightness



Tightness metal/metal

STANDARDS

Manufacture according to the requirements of the European directive 2014/68/UE «Equipments under pressure» : modulate H.
On request : Product in accordance to european directive "Potentially explosive atmospheres" N° 94/9/EC : ATEX II 2 GD c and ATEX II 3 GD c.
Test procedures are established according to standard EN 12266-1, DIN 3230, BS 5154 and ISO 5208.
Connections according to standard ASME B16.5 Classe ASA 150.

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