



# SEATS AB

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## TIGHTNESS

The sealing system of the knife gate valve type AB is bidirectional and it is reached by a soft seat placed along the periphery of the gate.

The soft seats used normally are EPDM, Nitrile, Viton, Sylicone.

## *EPDM*

This is the standard seat mounted in CMO valves and its price is included on the price lists.

It can be used in many applications, but generally is used for water and products diluted in water at a temperature not higher than 90 °C.

The EPDM rubber can also be used for abrasive products.

## *NITRIL*

It is used for greasy fluids or oils at temperatures not higher than 90 °C.

## *VITON*

Appropriate for acid products and high temperatures being able to support 190 °C in continuous and picks of 210 °C.

## *SYLICONE*

The use of the silicone is focused into the food and pharmaceutical products with temperatures not higher than 200 °C.

\*\* For other applications different rubbers are used as the hypalon, the butyl, the buna, the natural rubber, ... these special cases to be discussed.



## REPLACEMENT OF THE SEALING RING AB

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Once the valve has been removed from the pipeline, follow the next steps:

- 1.- Remove the actuator.
- 2.- Remove the packing gland.
- 3.- Remove the packing with care to avoid the damage of the O ring.
- 4.- Remove the gate carefully without loosing the slides.
- 5.- Clean the inside of the valve.
- 6.- With a tool of bronze give a few knocks at the base of the metallic ring till it comes off.
- 7.- Remove the sealing joint and clean the housing channel.
- 8.- Fix a joint similar to the replaced.
- 9.- Insert the sealing ring as follows:
  - Place the ring perfectly parallel to the sealing joint.
  - Push the ring towards the channel base all the surface at the same time.
  - Verify that all parts of the ring are perfectly inserted and in perfect contact with the valve.
- 10.- Mount the rest of the valve following the oposite steps of the dismounting.



# REPLACEMENT OF PACKINGS

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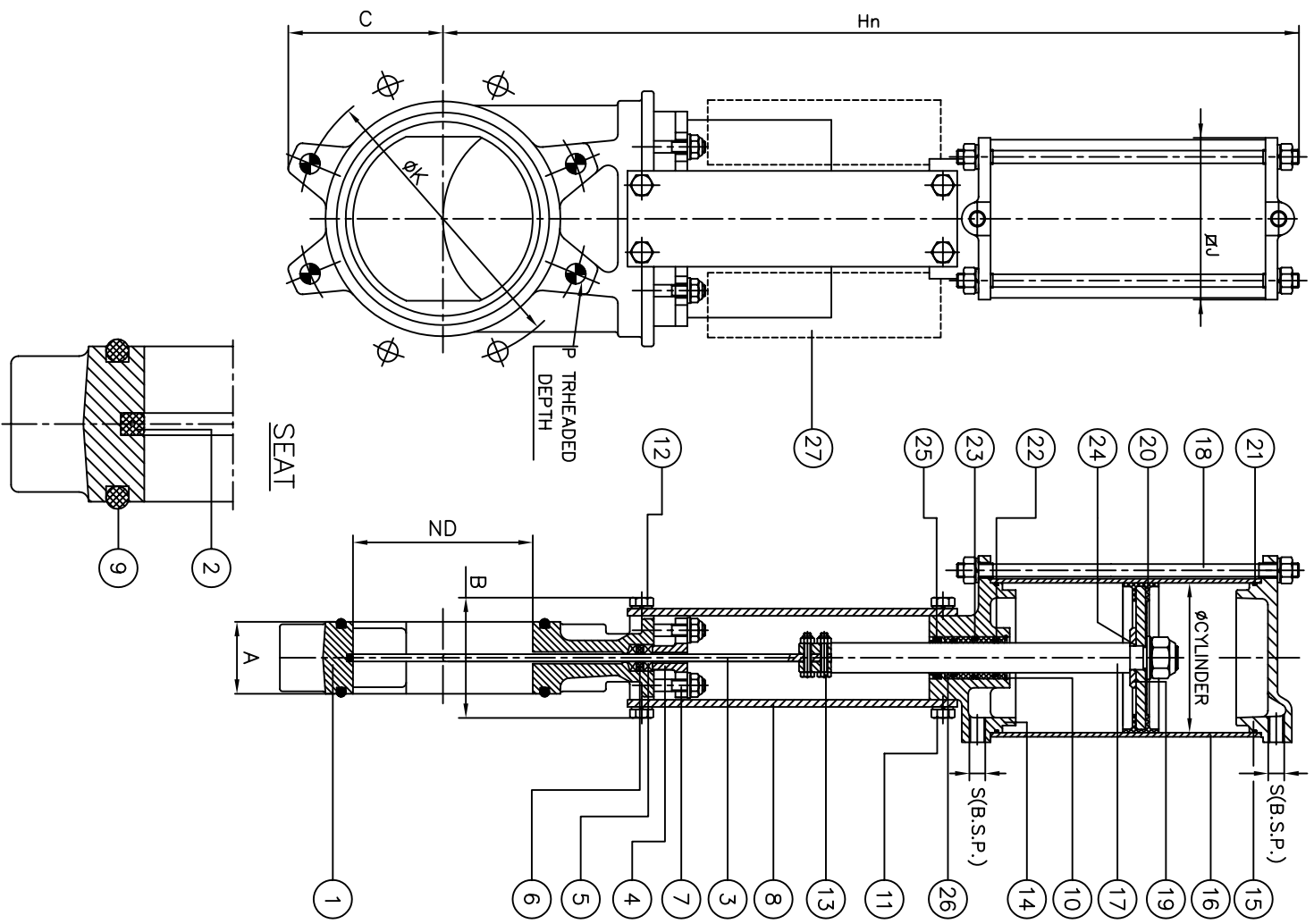
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A new packing from the factory allows several retightenings. As soon as a leakage is appreciated from the packing gland area, this must be retightened.

The life of the packing material depends on the number of handlings and, of course, on its correct choosing, determined by the characteristics of the media.

## REPLACEMENT OF THE PACKING MATERIAL

- 1.- Remove all pressure and media from the inside of the installation.
- 2.- Place the valve in open position.
- 3.- Release the screws of the packing gland.
- 4.- Fasten the packing gland in the upper side.
- 5.- Take out the damaged packing using a sharp tool, with care to avoid any damage of the gate.
- 6.- Clean carefully the packing housing and make sure that no metallic remains get inside.
- 7.- Insert the new packing. Both ends must be perfectly joined.
- 8.- Place the packing gland in its first position, tighten slightly the screws, check if there is the same distance on both sides, between the gate and the packing gland.
- 9.- Make a cycle slowly, stop if you find any difficulty, if this happens is because the packing gland has not been correctly centered.
- 10.- Insert some pressure into the valve and retighten equally the packing gland, just enough to avoid any leakage to the outside.



POS.	DESCRIPTION	GG25	CF8M
1	BODY	GG25	CF8M
2	JOINT	EPDM	EPDM
3	KNIFE	304	316
4	PACKING GLAND	ALUMINIUM	CF8M
5	PACKING	SINT.+PTFE	SINT.+PTFE
6	O-RING	EPDM	EPDM
7	STUD	STEEL+ZINC	316
8	SUPPORT	STEEL	STEEL
9	O-RING	NITRILE	NITRILE
10	ELASTIC RING	STEEL	STEEL
11	BOLTS/NUTS/WASHERS	STEEL	STEEL
12	BOLTS/WASHERS	STEEL	316
13	BOLTS/NUTS/WASHERS	304	316
14	CILINDER HEAD	GG45	GG45
15	CYLINDER CAP	GG45	GG45
16	JACKET	ALUMINIUM	ALUMINIUM
17	PISTON ROD	304	304
18	TIE ROD	STEEL+ZINC	STEEL+ZINC
19	WASHER	STEEL	STEEL
20	PISTON	STEEL+NITRILE	STEEL+NITRILE
21	O-RING	NITRILE	NITRILE
22	O-RING	NITRILE	NITRILE
23	O-RING	NITRILE	NITRILE
24	O-RING	NITRILE	NITRILE
25	SCRAPER	STEEL+NITRILE	STEEL+NITRILE
26	GUIDE SLEEVE	NYLON	NYLON
27	PROTEC.(OPTIONAL)	STEEL	STEEL

ND	DIMENSIONS						
	A	B	C	Ø CYLINDER B.S.P.	S	J	Hh
50	40	92	63	80	1/4"	96	400
65	40	92	70	80	1/4"	96	442
80	50	92	80	1/4"	96	484	
100	50	92	105	100	1/4"	115	548
125	50	102	120	125	1/4"	138	630
150	60	102	130	125	1/4"	138	692
200	60	119	160	160	1/4"	175	869
250	70	119	198	200	3/8"	218	1032
300	70	119	234	200	3/8"	218	1181
350	96	290	256	250	3/8"	270	1379
400	100	290	292	250	3/8"	270	1535
450	106	290	308	300	1/2"	362	1677
500	110	290	340	300	1/2"	362	1839
600	110	290	400	300	1/2"	362	2145

ND	FLANGE DETAIL									
	DIN PN10					ANSI150				
Ø	Metric	M	P	ØK	Ø	R	UNC	P	ØK	
50	4	M16	8	125	4	5/8"	8	120.6		
65	4	M16	8	145	4	5/8"	8	139.7		
80	4	M16	9	160	4	5/8"	9	157.4		
100	4	M16	9	180	4	5/8"	9	180.5		
125	4	M16	9	210	4	3/4"	9	219.9		
150	4	M16	10	240	4	3/4"	10	241.3		
200	4	M20	10	295	4	3/4"	10	298.4		
250	6	M20	12	350	6	7/8"	12	361.9		
300	6	M20	12	400	6	7/8"	12	431.8		
350	10	M20	21	460	8	1"	21	476.2		
400	10	M24	21	515	10	1"	21	539.7		
450	14	M24	22	565	10	1 1/8"	22	577.8		
500	14	M24	22	620	14	1 1/8"	22	635		
600	14	M27	22	725	14	1 1/4"	22	749.3		

Dimensions and drawings without obligation. CMO S.L. reserves, at any moment, the right of their modification at its own discretion and without any previous notice.

Rev.	Modificación	Fecha	Descripción	
B			-AB- SERIE VALVE	
C			PN10/ANSI150	
D			PNEUMATIC	
E			Dibujado	Aprobado
F			KIKE	
G			Comprobado	Fecha
			6/7/99	
			Disk	Plano Nº
			879	AB-9001D3

