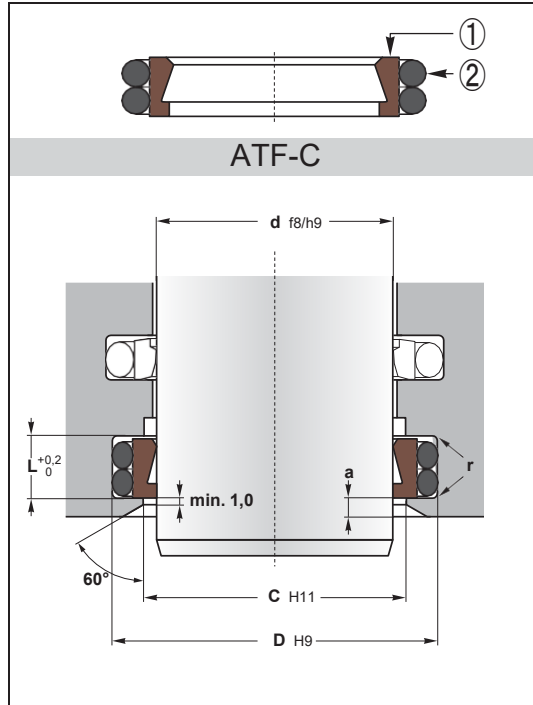
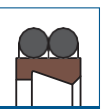


ATF-C

PTFE double acting wiper with two energising rings



ATF-C wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back. The wiper is always installed with two O-rings in one groove.

PTFE material assures low friction and high speed performance and has also **high compatibility** with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

Both elastomer O-rings on the static side work as an energising rings and pressurise the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod.

If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

Operating conditions

Temperature	-30°C to 100°C
Speed	≤ 5 m/s

Materials

Dynamic sealing element ①	PT55
Energising element ②	NBR 70 Sh A

Assembly

O-ring and PTFE-ring may easily be mounted into the grooved housing (above 30 mm)

Advantages

- High speed performance
- Low static and dynamic friction
- No stick-slip
- Can compensate rod deflections
- Very good scraping effect against impurities and from the inside against the residual oil film
- High chemical compatibility with the right O-rings
- Large temperature range -45°C up to 200°C with the right O-rings
- Extended service life
- Simple groove construction

Please contact us for applications approaching maximum values.

d (mm)	L (mm)	D (mm)	C (mm)	a _{min.} (mm)	O-ring C/S ②
20 → 39,9	4,2	d + 7,6	d + 1	4	1,78
40 → 69,9	6,3	d + 8,8	d + 1,5	4	2,62
70 → 139,9	8,1	d + 12,2	d + 2	4	3,53
140 → 399,9	11,5	d + 16	d + 2	5	5,34
400 → 649,9	15,5	d + 24	d + 2,5	6	7
650 → 999,9	18	d + 27,3	d + 2,5	8	8,4

d	D	L	C	r	a _{min.}	O-ring 2 pcs NBR 70 Sh A	ISO 6195D	Reference
20	27,6	4,2	21	0,4	3	23,52 x 1,78		• ATF-C-20
25	32,6	4,2	26	0,4	3	28,3 x 1,78		• ATF-C-25
28	35,6	4,2	29	0,4	3	31,47 x 1,78		• ATF-C-28
30	37,6	4,2	31	0,4	3	34,65 x 1,78		ATF-C-30
32	39,6	4,2	33	0,4	3	36,27 x 1,78		• ATF-C-32
36	43,6	4,2	37	0,4	3	39,45 x 1,78		• ATF-C-36
40	48,8	6,3	41,5	1,2	3	44,12 x 2,62		• ATF-C-40
45	53,8	6,3	46,5	1,2	3	48,9 x 2,62		• ATF-C-45
50	58,8	6,3	51,5	1,2	3	53,64 x 2,62		• ATF-C-50
55	63,8	6,3	56,5	1,2	3	58,42 x 2,62		ATF-C-55
56	64,8	6,3	57,5	1,2	3	59,99 x 2,62		• ATF-C-56
60	68,8	6,3	61,5	1,2	3	64,77 x 2,62		ATF-C-60
63	71,8	6,3	64,5	1,2	3	67,95 x 2,62		• ATF-C-63
65	73,8	6,3	66,5	1,2	3	69,52 x 2,62		ATF-C-65
70	82,2	8,1	72	2	4	75,79 x 3,53		• ATF-C-70
75	87,2	8,1	77	2	4	78,97 x 3,53		ATF-C-75
80	92,2	8,1	82	2	4	85,32 x 3,53		• ATF-C-80
85	97,2	8,1	87		4	88,49 x 3,53		ATF-C-85
90	102,2	8,1	92	2	4	94,84 x 3,53		• ATF-C-90
100	112,2	8,1	102	2	4	107,54 x 3,53		• ATF-C-100
105	117,2	8,1	107	2	4	110,72 x 3,53		ATF-C-105
110	122,2	8,1	112	2	4	113,89 x 3,53		• ATF-C-110
115	127,2	8,1	117	2	4	120,24 x 3,53		ATF-C-115
120	132,2	8,1	122	2	4	123,42 x 3,53		ATF-C-120
125	137,2	8,1	127	2	4	129,77 x 3,53		• ATF-C-125
130	142,2	8,1	132	2	4	136,12 x 3,53		ATF-C-130
140	156	11,5	142	2	5	145,42 x 5,34		ATF-C-140
150	166	11,5	152	2	5	151,77 x 5,34		ATF-C-150
160	176	11,5	162	2	5	164,47 x 5,34		ATF-C-160
170	186	11,5	172	2	5	177,17 x 5,34		ATF-C-170
180	196	11,5	182	2	5	183,52 x 5,34		ATF-C-180
190	206	11,5	192	2	5	196,22 x 5,34		ATF-C-190
200	216	11,5	202	2	5	202,57 x 5,34		ATF-C-200
220	236	11,5	222	2	5	221,62 x 5,34		ATF-C-220
230	246	11,5	232	2	5	234,32 x 5,34		ATF-C-230
240	256	11,5	242	2	5	247,02 x 5,34		ATF-C-240
250	266	11,5	252	2	5	253,37 x 5,34		ATF-C-250
260	276	11,5	262	2	5	266,07 x 5,34		ATF-C-260
280	296	11,5	282	2	5	278,77 x 5,34		ATF-C-280
300	316	11,5	302	2	5	304,17 x 5,34		ATF-C-300
310	326	11,5	312	2	5	315 x 5,34		ATF-C-310
320	336	11,5	322	2	5	329,57 x 5,34		ATF-C-320
350	366	11,5	352	2	5	354,97 x 5,34		ATF-C-350
360	376	11,5	362	2	5	365 x 5,3		ATF-C-360
400	424	15,5	402,5	2	6	405,26 x 7		ATF-C-400