End Cover

End Cover

General Description

End covers are components to be fitted in the housing bores where no input/output shaft is located and to plug and seal service bores. Standard end covers are manufactured in accordance with bore tolerances recommended by DIN 3760 and ISO 6194/1 for Radial Oil Seals.

Two different types of end covers are available as described in the following chapters. The type YJ38 is fully rubber covered and the type YJ39 has a "half-half" design.

Type YJ 38

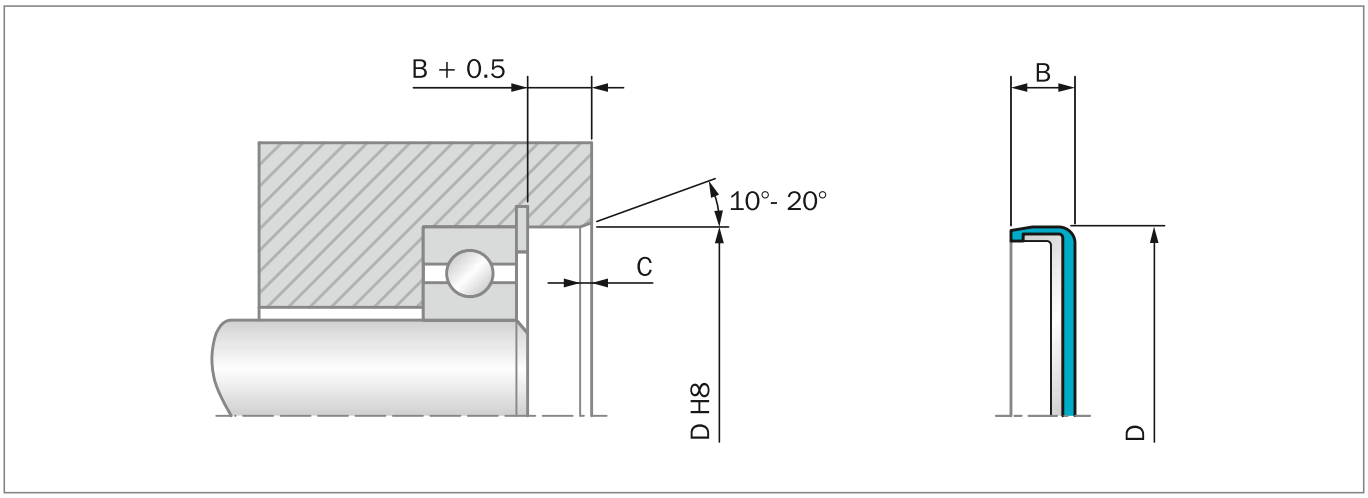

Figure 67: Installation Drawing

ADVANTAGES

- Good static sealing
- Compensation of different thermal expansion
- No risk of fretting corrosion
- Effective protection against air side contaminants
- Higher bore surface roughness is allowed
- Mounting in split-housings

APPLICATION EXAMPLES

- Transmission systems (e.g. gearboxes)
- Machine tool

OPERATING CONDITIONS

Pressure:	Up to 0.05 MPa
Temperature:	-40 °C to +200 °C depending on material
Media:	Mineral and synthetic lubricants (CLP, HLP, APGL etc.)

Trelleborg Sealing Solutions has carried out several thousands compatibility tests. Please ask for details.

IMPORTANT NOTE

The above data are maximum values and cannot be used at the same time, e.g. the maximum operating speed depends on material type, pressure and temperature.

Table 43: Materials

Standard Material*	TSS Material Code	Standard Metal Insert**
NBR (70 Shore A)	N7MMN	Carbon steel
NBR (75 Shore A)	4N01	Carbon steel
FKM (75 Shore A)	VCBV	Carbon steel
FKM (75 Shore A)	4V01	Carbon steel

* Special grades and other materials (ACM, EACM, EPDM, HNBR, VMQ) on request.
** Metal insert can also be supplied in different materials on request

ORDERING EXAMPLE END COVER TSS TYPE

TSS Type:	YJ	
Code:	YJ38	
Dimensions:	Housing diameter	50 mm
	Width	10 mm
Material:	NBR	
Material Code:	N7MMN	

Trelleborg Sealing Solutions has carried out several thousand compatibility tests. Please ask your local Trelleborg Sealing Solutions marketing company for details.

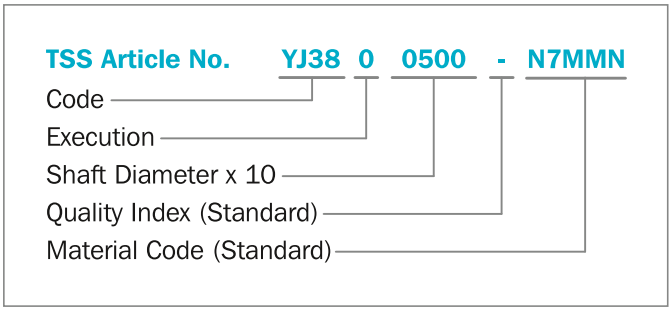

Table 44: Preferred Series/ Dimension, TSS Part Numbers

Bore	Width	Chamfer	TSS Part No.	TSS	
D H8	B	C		NBR	FKM
10	4	1.0	YJ3800100	●	
16	4	1.0	YJ3800160	●	
19	6	1.3	YJ3810190	●	
20	4	1.0	YJ3800200	●	
22	7	1.3	YJ3800220	●	
24	7	1.3	YJ3800240	●	
25	7	1.3	YJ3800250	●	
26	6.5	1.3	YJ3800260	●	
28	7	1.3	YJ3800280	●	●
28	9	1.5	YJ3810280	●	
30	6	1.3	YJ3810300	●	
30	8	1.5	YJ3800300	●	
32	5	1.0	YJ3820320	●	●
32	7	1.3	YJ3810320	●	
32	9.5	1.5	YJ3800320	●	
35	8	1.5	YJ3800350	●	
37	5	1.0	YJ3810370	●	
37	10	1.8	YJ3800370	●	
40	7	1.3	YJ3800400	●	
42	7	1.3	YJ3810420	●	
42	9.5	1.5	YJ3800420	●	
47	6.5	1.3	YJ3800470	●	●
47	7	1.3	YJ3830470	●	
47	8	1.5	YJ3810470	●	
47	10	1.8	YJ3820470	●	●
50	10	1.8	YJ3800500	●	●
52	6.5	1.3	YJ3800520	●	
52	10	1.8	YJ3810520	●	
55	6	1.3	YJ3820550	●	
55	9	1.5	YJ3800550	●	
55	10	1.8	YJ3810550	●	
60	10	1.8	YJ3800600	●	
62	7	1.3	YJ3820620	●	
62	8	1.5	YJ3800620	●	●
65	10	1.8	YJ3800650	●	
68	8	1.5	YJ3800680	●	
70	10	1.8	YJ3800700	●	
72	9	1.5	YJ3800720	●	●
75	7	1.3	YJ3800750	●	
75	10	1.8	YJ3810750	●	
75	12	2.0	YJ3820750	●	●
80	8	1.5	YJ3800800	●	

Bore	Width	Chamfer	TSS Part No.	TSS	
D H8	B	C		NBR	FKM
80	10	1.8	YJ3820800	●	
80	12	2.0	YJ3830800	●	
85	10	1.8	YJ3810850	●	
85	12	2.0	YJ3800850	●	
90	8	1.5	YJ3800900	●	
90	12	2.0	YJ3810900	●	
95	10	1.8	YJ3800950	●	
100	10	1.8	YJ3811000	●	●
100	12	2.0	YJ3801000	●	●
110	8	1.5	YJ3811100	●	
110	12	2.0	YJ3801100	●	
115	12	2.0	YJ3801150	●	
120	12	2.0	YJ3801200	●	
125	12	2.0	YJ3801250	●	
130	10	1.8	YJ3811300	●	
130	12	2.0	YJ3801300	●	
140	15	2.0	YJ3801400	●	
150	15	2.0	YJ3801500	●	
160	15	2.0	YJ3801600	●	
168	11	1.8	YJ3801680	●	
170	15	2.0	YJ3801700	●	
180	12	2.0	YJ3801800	●	
190	12	2.0	YJ3801900	●	
200	13	2.0	YJ3802000	●	
210	15	2.0	YJ3802100	●	
230	14	2.0	YJ3802300	●	

Type YJ 39

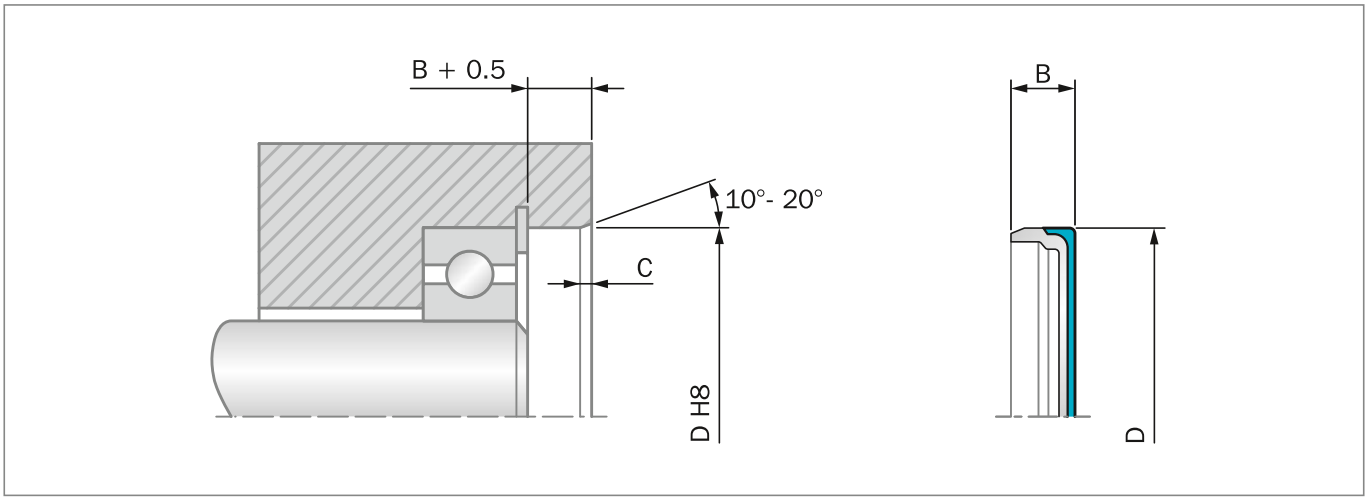

Figure 68: Installation Drawing

ADVANTAGES

- Good static sealing and stiffness (no pop-out effect)
- Compensation of different thermal expansion
- No risk of fretting corrosion
- Effective protection against air side contaminants
- Higher bore surface roughness is allowed
- Mounting in split-housings
- Good heat transfer

APPLICATION EXAMPLES

- Transmission systems (e.g. gearboxes)
- Machine tools

OPERATING CONDITIONS

Pressure:	Up to 0.5 MPa
Temperature:	-40 °C to +200 °C depending on material
Media:	Mineral and synthetic lubricants (CLP, HLP, APGL etc.)

Trelleborg Sealing Solutions has carried out several thousands compatibility tests. Please ask your local Trelleborg Sealing Solutions marketing company for details.

IMPORTANT NOTE

The above data are maximum values and cannot be used at the same time, e.g. the maximum operating speed depends on material type, pressure and temperature.

Table 45: Materials

Standard Material*	TSS Material Code	Standard Metal Insert**
NBR (70 Shore A)	N7MM	Carbon steel

* Special grades and other materials (ACM, EACM, EPDM, HNBR, VMQ) on request.
** Metal insert can also be supplied in different materials on request

ORDERING EXAMPLE END COVER TSS TYPE

TSS Type:	YJ
Code:	YJ39
Dimensions:	Housing diameter 52 mm Width 6 mm
Material:	NBR
Material Code:	N7MM

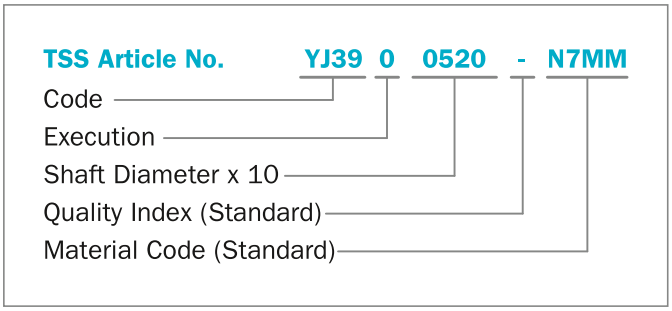

Table 46: Preferred Series / Dimension, TSS Part Numbers

Bore	Width	Chamfer	TSS Part No.	TSS
D H8	**B**	**C**		**NBR**
20	5	1.3	YJ3900200	●
22	7	1.3	YJ3900220	●
25	7	1.3	YJ3900250	●
26	7	1.3	YJ3900260	●
28	7	1.3	YJ3900280	●
35	7	1.3	YJ3900350	●
40	7	1.3	YJ3900400	●
42	7	1.3	YJ3900420	●
47	7	1.3	YJ3900470	●
52	6	1.3	YJ3900520	●
62	8	1.5	YJ3900620	●
65	10	1.8	YJ3900650	●
72	9	1.5	YJ3900720	●
75	8	1.5	YJ3900750	●
80	8	1.5	YJ3900800	●
90	10	1.8	YJ3900900	●
100	10	1.8	YJ3901000	●
100	12	2.0	YJ3911000	●
115	12	2.0	YJ3901150	●
140	15	2.0	YJ3901400	●
145	12	2.0	YJ3901450	●
210	15	2.0	YJ3902100	●