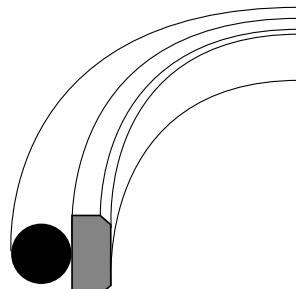


## Rod Seals

SP-55-111

(Metric Size)

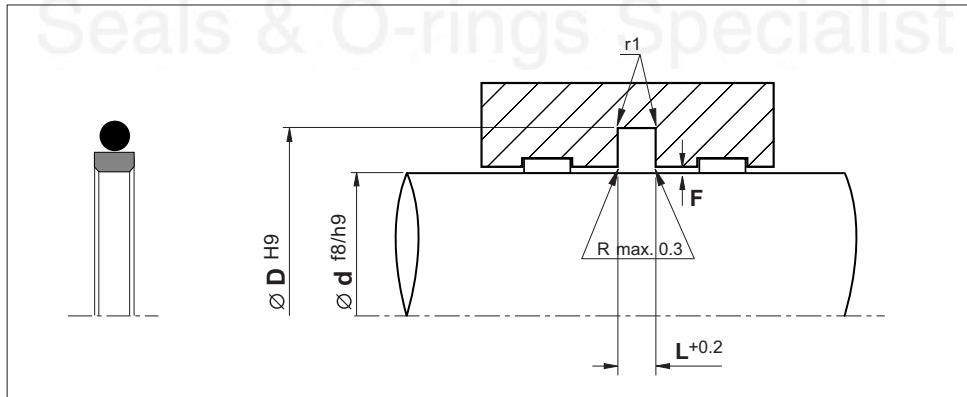


SP-55-111

Material	Pressure (Bar)	Temp. (°C)	Speed (m/s)
PTFE+Bronze - O Ring	400	-40 +200	15

- No stick-slip effect when starting for smooth operation.
- Suitable for non lubricating fluids.
- High wear resistance.
- Installation grooves according to ISO 7425/3.

## Installation Recommendation



Surface roughness	R <sub>a</sub>	R <sub>t</sub>
Sliding surface	≤ 0.3 µm	≤ 4 µm
Surface of housing	≤ 1.8 µm	≤ 10 µm
Sides of housing	≤ 3.0 µm	≤ 16 µm

# PTFE Seal - 111

## Installation Dimensions

Series No.	Rod Dia.			Groove Dia.	Groove Width.	Radius	Radial Clearance F max.			O-Ring Cross-Section
	Standard Application	Light Application	Heavy-Duty Application	D	L	r1	100 Bar	200 Bar	400 Bar	
A	-	8 - 18.9	-	d + 4.9	2.2	0.4	0.40	0.30	0.20	1.78
B	8 - 18.9	19 - 37.9	-	d + 7.3	3.2	0.6	0.60	0.50	0.30	2.62
C	19 - 37.9	38 - 199.9	8 - 18.9	d + 10.7	4.2	1.0	0.70	0.50	0.30	3.53
D	38 - 199.9	200 - 255.9	19 - 37.9	d + 15.1	6.3	1.3	0.80	0.60	0.40	5.33
E	200 - 255.9	256 - 649.9	38 - 199.9	d + 20.5	8.1	1.8	0.80	0.60	0.40	7.00
F	256 - 649.9	650 - 999.9	200 - 255.9	d + 24.0	8.1	1.8	0.90	0.70	0.50	7.00
G	650 - 999.9	≥ 1000	256 - 649.9	d + 27.3	9.5	2.5	1.00	0.80	0.60	8.40
H	≥ 1000	-	650 - 999.9	d + 38.0	13.8	3.0	1.20	0.90	0.70	12.00

## (Metric Size)

Rod Dia.	Groove Dia.	Groove Width	O-RING No.	Reference (For order processing)	Reference	Reference
	d	D				
4.0	8.9	2.2	010	SP-55-111-0040	S55043-0040	ER-39-720-4
5.0	9.9	2.2	011	SP-55-111-0050	S55043-0050	ER-39-720-5
6.0	10.9	2.2	011	SP-55-111-0060	S55043-0060	ER-39-720-6
7.0	11.9	2.2	012	SP-55-111-0070	S55043-0070	ER-39-720-7
8.0	12.9	2.2	012	SP-55-111-0080A	S55043-0080	ER-39-721-8
8.0	15.3	3.2	111	SP-55-111-0080	S55043-0080	ER-39-720-9
10.0	14.9	2.2	014	SP-55-111-0100A	S55043-0100	ER-39-721-10
10.0	17.3	3.2	113	SP-55-111-0100	S55043-0100	ER-39-720-10
12.0	16.9	2.2	015	SP-55-111-0120A	S55043-0120	ER-39-721-12
12.0	19.3	3.2	114	SP-55-111-0120	S55043-0120	ER-39-720-12
14.0	18.9	2.2	016	SP-55-111-0140A	S55043-0140	ER-39-721-14
14.0	21.3	3.2	115	SP-55-111-0140	S55043-0140	ER-39-720-14
16.0	20.9	2.2	017	SP-55-111-0160A	S55043-0160	ER-39-721-16
16.0	23.3	3.2	116	SP-55-111-0160	S55043-0160	ER-39-720-16
18.0	22.9	2.2	019	SP-55-111-0180A	S55043-0180	ER-39-721-18
18.0	25.3	3.2	118	SP-55-111-0180	S55043-0180	ER-39-720-18
20.0	27.3	3.2	119	SP-55-111-0200B	S55043-0200	ER-39-721-20
20.0	30.7	4.2	214	SP-55-111-0200	S55043-0200	ER-39-720-20
22.0	29.3	3.2	120	SP-55-111-0220B	S55043-0220	ER-39-721-22
22.0	32.7	4.2	215	SP-55-111-0220	S55043-0220	ER-39-720-22
25.0	32.3	3.2	122	SP-55-111-0250B	S55043-0250	ER-39-721-25
25.0	35.7	4.2	217	SP-55-111-0250	S55043-0250	ER-39-720-25
30.0	37.3	3.2	125	SP-55-111-0300B	S55043-0300	ER-39-721-30
30.0	40.7	4.2	220	SP-55-111-0300	S55043-0300	ER-39-720-30
32.0	39.3	3.2	126	SP-55-111-0320B	S55043-0320	ER-39-721-32
32.0	42.7	4.2	221	SP-55-111-0320	S55043-0320	ER-39-720-32
36.0	43.3	3.2	129	SP-55-111-0360B	S55043-0360	ER-39-721-36
36.0	46.7	4.2	223	SP-55-111-0360	S55043-0360	ER-39-720-36
40.0	50.7	4.2	224	SP-55-111-0400C	S55043-0400	ER-39-721-40
40.0	55.1	6.3	328	SP-55-111-0400	S55043-0400	ER-39-720-40

(Metric Size)

Rod Dia.	Groove Dia.	Groove Width	O-RING No.	Reference (For order processing)	Reference	Reference
d	D	L				
45.0	55.7	4.2	226	SP-55-111-0450C	S55045-0450	ER-39-721-45
45.0	60.1	6.3	329	SP-55-111-0450	S55043-0450	ER-39-720-45
50.0	60.7	4.2	227	SP-55-111-0500C	S55045-0500	ER-39-721-50
50.0	65.1	6.3	331	SP-55-111-0500	S55043-0500	ER-39-720-50
55.0	65.7	4.2	229	SP-55-111-0550C	S55045-0550	ER-39-721-55
55.0	70.1	6.3	332	SP-55-111-0550	S55043-0550	ER-39-720-55
56.0	66.7	4.2	229	SP-55-111-0560C	S55045-0560	ER-39-721-56
56.0	71.1	6.3	333	SP-55-111-0560	S55043-0560	ER-39-720-56
60.0	70.7	4.2	230	SP-55-111-0600C	S55045-0600	ER-39-721-60
60.0	75.1	6.3	334	SP-55-111-0600	S55043-0600	ER-39-720-60
63.0	78.1	6.3	335	SP-55-111-0630	S55043-0630	ER-39-720-63
65.0	80.1	6.3	336	SP-55-111-0650	S55043-0650	ER-39-720-65
70.0	85.1	6.3	337	SP-55-111-0700	S55043-0700	ER-39-720-70
75.0	90.1	6.3	339	SP-55-111-0750	S55043-0750	ER-39-720-75
80.0	95.1	6.3	340	SP-55-111-0800	S55043-0800	ER-39-720-80
85.0	100.1	6.3	342	SP-55-111-0850	S55043-0850	ER-39-720-85
90.0	105.1	6.3	344	SP-55-111-0900	S55043-0900	ER-39-720-90
95.0	110.1	6.3	345	SP-55-111-0950	S55043-0950	ER-39-720-95
100.0	115.1	6.3	347	SP-55-111-1000	S55043-1000	ER-39-720-100
105.0	120.1	6.3	348	SP-55-111-1050	S55043-1050	ER-39-720-105
110.0	125.1	6.3	350	SP-55-111-1100	S55043-1100	ER-39-720-110
115.0	130.1	6.3	351	SP-55-111-1150	S55043-1150	ER-39-720-115
120.0	135.1	6.3	353	SP-55-111-1200	S55043-1200	ER-39-720-120
125.0	140.1	6.3	355	SP-55-111-1250	S55043-1250	ER-39-720-125
130.0	145.1	6.3	356	SP-55-111-1300	S55043-1300	ER-39-720-130
135.0	150.1	6.3	358	SP-55-111-1350	S55043-1350	ER-39-720-135
140.0	155.1	6.3	359	SP-55-111-1400	S55043-1400	ER-39-720-140
150.0	165.1	6.3	362	SP-55-111-1500	S55043-1500	ER-39-720-150
160.0	175.1	6.3	363	SP-55-111-1600	S55043-1600	ER-39-720-160
170.0	185.1	6.3	365	SP-55-111-1700	S55043-1700	ER-39-720-170
180.0	195.1	6.3	366	SP-55-111-1800	S55043-1800	ER-39-720-180
190.0	205.1	6.3	368	SP-55-111-1900	S55043-1900	ER-39-720-190
200.0	220.5	8.1	445	SP-55-111-2000	S55043-2000	ER-39-720-200
210.0	230.5	8.1	446	SP-55-111-2100	S55043-2100	ER-39-720-210
220.0	240.5	8.1	447	SP-55-111-2200	S55043-2200	ER-39-720-220
230.0	250.5	8.1	448	SP-55-111-2300	S55043-2300	ER-39-720-230
240.0	260.5	8.1	449	SP-55-111-2400	S55043-2400	ER-39-720-240
250.0	270.5	8.1	449	SP-55-111-2500	S55043-2500	ER-39-720-250
260.0	284.0	8.1	450	SP-55-111-2600	S55043-2600	ER-39-720-260
270.0	294.0	8.1	451	SP-55-111-2700	S55043-2700	ER-39-720-270
280.0	304.0	8.1	452	SP-55-111-2800	S55043-2800	ER-39-720-280
290.0	314.0	8.1	453	SP-55-111-2900	S55043-2900	ER-39-720-290
300.0	324.0	8.1	454	SP-55-111-3000	S55043-3000	ER-39-720-300
310.0	334.0	8.1	454	SP-55-111-3100	S55043-3100	ER-39-720-310
320.0	344.0	8.1	455	SP-55-111-3200	S55043-3200	ER-39-720-320

Select the material of seal ring and o-ring from Compounds for Fluid Technology (page 8)

**PTFE Seal - 111**
**(Metric Size)**

Rod Dia.	Groove Dia.	Groove Width	O-RING No.	Reference (For order processing)	Reference	Reference
d	D	L				
330.0	354.0	8.1	456	SP-55-111-3300	S55043-3300	ER-39-720-330
340.0	364.0	8.1	457	SP-55-111-3400	S55043-3400	ER-39-720-340
350.0	374.0	8.1	458	SP-55-111-3500	S55043-3500	ER-39-720-350
360.0	384.0	8.1	458	SP-55-111-3600	S55043-3600	ER-39-720-360
370.0	394.0	8.1	459	SP-55-111-3700	S55043-3700	ER-39-720-370
380.0	404.0	8.1	460	SP-55-111-3800	S55043-3800	ER-39-720-380
390.0	414.0	8.1	461	SP-55-111-3900	S55043-3900	ER-39-720-390
400.0	424.0	8.1	461	SP-55-111-4000	S55043-4000	ER-39-720-400
410.0	434.0	8.1	462	SP-55-111-4100	S55043-4100	ER-39-720-410
420.0	444.0	8.1	463	SP-55-111-4200	S55043-4200	ER-39-720-420
430.0	454.0	8.1	464	SP-55-111-4300	S55043-4300	ER-39-720-430
440.0	464.0	8.1	464	SP-55-111-4400	S55043-4400	ER-39-720-440
450.0	474.0	8.1	466	SP-55-111-4500	S55043-4500	ER-39-720-450
460.0	484.0	8.1	466	SP-55-111-4600	S55043-4600	ER-39-720-460
470.0	494.0	8.1	467	SP-55-111-4700	S55043-4700	ER-39-720-470
480.0	504.0	8.1	468	SP-55-111-4800	S55043-4800	ER-39-720-480
490.0	514.0	8.1	469	SP-55-111-4900	S55043-4900	ER-39-720-490
500.0	524.0	8.1	469	SP-55-111-5000	S55043-5000	ER-39-720-500
510.0	534.0	8.1	469	SP-55-111-5100	S55043-5100	ER-39-720-510
520.0	544.0	8.1	470	SP-55-111-5200	S55043-5200	ER-39-720-520
530.0	554.0	8.1	470	SP-55-111-5300	S55043-5300	ER-39-720-530
540.0	564.0	8.1	471	SP-55-111-5400	S55043-5400	ER-39-720-540
550.0	574.0	8.1	471	SP-55-111-5500	S55043-5500	ER-39-720-550
560.0	584.0	8.1	471	SP-55-111-5600	S55043-5600	ER-39-720-560
570.0	594.0	8.1	472	SP-55-111-5700	S55043-5700	ER-39-720-570
580.0	604.0	8.1	472	SP-55-111-5800	S55043-5800	ER-39-720-580
590.0	614.0	8.1	473	SP-55-111-5900	S55043-5900	ER-39-720-590
600.0	624.0	8.1	473	SP-55-111-6000	S55043-6000	ER-39-720-600
610.0	634.0	8.1	473	SP-55-111-6100	S55043-6100	ER-39-720-610
620.0	644.0	8.1	474	SP-55-111-6200	S55043-6200	ER-39-720-620
630.0	654.0	8.1	474	SP-55-111-6300	S55043-6300	ER-39-720-630
640.0	664.0	8.1	475	SP-55-111-6400	S55043-6400	ER-39-720-640
650.0	677.3	9.5	665 * 8.4	SP-55-111-6500	S55043-6500	ER-39-720-650
660.0	687.3	9.5	675 * 8.4	SP-55-111-6600	S55043-6600	ER-39-720-660
670.0	697.3	9.5	685 * 8.4	SP-55-111-6700	S55043-6700	ER-39-720-670
680.0	707.3	9.5	695 * 8.4	SP-55-111-6800	S55043-6800	ER-39-720-680
690.0	717.3	9.5	705 * 8.4	SP-55-111-6900	S55043-6900	ER-39-720-690
700.0	727.3	9.5	715 * 8.4	SP-55-111-7000	S55043-7000	ER-39-720-700
710.0	737.3	9.5	725 * 8.4	SP-55-111-7100	S55043-7100	ER-39-720-710

Order No.

SP-55 - 111 - 0040

Seal ring material code \_\_\_\_\_

Rod diameter x 10

Seal profile \_\_\_\_\_

O ring material code