

Simmerring B2PT

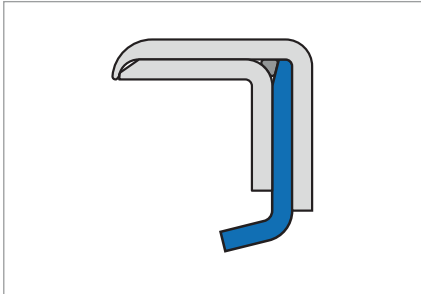


Fig. 1 Simmerring B2PT PTFE

Product description

- Outer casing: metal housing
- Sealing lip made of PTFE.

Product advantages

- Special range of applications in general mechanical engineering and in the chemical industry
- High temperature resistance
- For dry running and insufficient lubrication
- High chemical resistance
- In case of requirements for stick/slip-free behaviour
(Note: for limited requirements on dynamic sealing behaviour! Static sealing at the outer casing limited with low viscosity and gaseous media).

Application

- Rotary joints
- Centrifuges
- Pumps
- Mixers.

Material

Sealing lip	PTFE 10/F56101 carbon-filled, exactly centred and pre-stretched
Metal housing	Stainless steel as per material No. 1.4571
O-ring	Fluoro elastomer

Operating conditions

Media	Mineral oils, synthetic oils, greases, water, acids, alkalis, solvents, gases
T	-80 ... +200 °C
v	to 30 m/s
P	to 1 MPa/10 bar

Max. permissible values depend on the other operating conditions.

Fitting & installation

Shaft

Tolerance	ISO h 11
Runout	IT 8
Roughness	$R_a = 0,2 \dots 0,4 \mu\text{m}$
	$R_z = 1,0 \dots 5,0 \mu\text{m}$
	$R_{max} = <6,3 \mu\text{m}$
Hardness	45 ... 60 HRC
Finish	No lead; preferably plunge ground

Housing bore

Tolerance	ISO H8
Roughness	$R_z = 6,3 \dots 16 \mu\text{m}$

Careful fitting according to DIN 3760 is a prerequisite for the correct function of the seal → Technical Manual.

Range of dimensions for shafts-Ø d₁

Simmerring B2PT	10 ... 125 mm
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Article list

d ₁	d ₂	b	DIN 3761	Outer surface	Pressure	Material	Article No.	
10	22	7	C	metal	up to 1 MPa	PTFE F56101	406518	●
12	22	7	C	metal	up to 1 MPa	PTFE F56101	406519	●
12	25	7	C	metal	up to 1 MPa	PTFE F56101	406523	●
14	30	7	C	metal	up to 1 MPa	PTFE F56101	406526	●
15	30	7	C	metal	up to 1 MPa	PTFE F56101	406529	●
15	32	7	C	metal	up to 1 MPa	PTFE F56101	406530	●
16	35	7	C	metal	up to 1 MPa	PTFE F56101	406531	●
17	35	7	C	metal	up to 1 MPa	PTFE F56101	406532	●
18	32	7	C	metal	up to 1 MPa	PTFE F56101	406533	●
20	30	7	C	metal	up to 1 MPa	PTFE F56101	406536	●
20	32	7	C	metal	up to 1 MPa	PTFE F56101	406537	●
20	35	7	C	metal	up to 1 MPa	PTFE F56101	406538	●
20	40	7	C	metal	up to 1 MPa	PTFE F56101	406539	●
20	47	7	C	metal	up to 1 MPa	PTFE F56101	406540	●
25	38	7	C	metal	up to 1 MPa	PTFE F56101	406568	●
25	40	7	C	metal	up to 1 MPa	PTFE F56101	406569	●
25	42	7	C	metal	up to 1 MPa	PTFE F56101	406570	●
25	47	7	C	metal	up to 1 MPa	PTFE F56101	406571	●
25	52	7	C	metal	up to 1 MPa	PTFE F56101	406572	●
28	47	7	C	metal	up to 1 MPa	PTFE F56101	406616	●
30	40	7	C	metal	up to 1 MPa	PTFE F56101	406617	●
30	45	7	C	metal	up to 1 MPa	PTFE F56101	406619	●
30	47	7	C	metal	up to 1 MPa	PTFE F56101	406620	●
30	50	7	C	metal	up to 1 MPa	PTFE F56101	406621	●
32	47	8	C	metal	up to 1 MPa	PTFE F56101	406650	●
35	47	8	C	metal	up to 1 MPa	PTFE F56101	406651	●
35	50	8	C	metal	up to 1 MPa	PTFE F56101	406652	●
35	52	8	C	metal	up to 1 MPa	PTFE F56101	406653	●
35	55	8	C	metal	up to 1 MPa	PTFE F56101	406698	●
35	62	8	C	metal	up to 1 MPa	PTFE F56101	406699	●
38	55	8	C	metal	up to 1 MPa	PTFE F56101	406700	●
40	52	8	C	metal	up to 1 MPa	PTFE F56101	406701	●
40	55	8	C	metal	up to 1 MPa	PTFE F56101	406702	●
40	60	8	C	metal	up to 1 MPa	PTFE F56101	406713	●
40	62	8	C	metal	up to 1 MPa	PTFE F56101	406715	●
42	55	8	C	metal	up to 1 MPa	PTFE F56101	406716	●
42	62	8	C	metal	up to 1 MPa	PTFE F56101	415465	○
45	60	8	C	metal	up to 1 MPa	PTFE F56101	406717	●
45	62	8	C	metal	up to 1 MPa	PTFE F56101	406789	●
45	62	8	C	metal	up to 1 MPa	PTFE F56101	529449	○
45	65	8	C	metal	up to 1 MPa	PTFE F56101	406792	●
48	62	8	C	metal	up to 1 MPa	PTFE F56101	374565	○
50	62	8	C	metal	up to 1 MPa	PTFE F56101	406798	●
50	68	8	C	metal	up to 1 MPa	PTFE F56101	406801	●
50	70	8	C	metal	up to 1 MPa	PTFE F56101	406802	●
50	72	8	C	metal	up to 1 MPa	PTFE F56101	406804	●
50	72	8	C	metal	up to 1 MPa	PTFE F56101	529450	○
52	72	8	C	metal	up to 1 MPa	PTFE F56101	362508	○
52	72	8	C	metal	up to 1 MPa	PTFE F56101	406805	●

● Available from stock ○ On request: Tool is available, delivery at short notice

d ₁	d ₂	b	DIN 3761	Outer surface	Pressure	Material	Article No.	
55	70	8	C	metal	up to 1 MPa	PTFE F56101	406820	●
55	72	10	C	metal	up to 1 MPa	PTFE F56101	353545	●
55	80	8	C	metal	up to 1 MPa	PTFE F56101	406821	●
60	75	8	C	metal	up to 1 MPa	PTFE F56101	406823	●
60	80	8	C	metal	up to 1 MPa	PTFE F56101	406825	●
60	80	8	C	metal	up to 1 MPa	PTFE F56101	529451	○
60	80	10	C	metal	up to 1 MPa	PTFE F56101	353546	○
65	80	10	C	metal	up to 1 MPa	PTFE F56101	406826	●
65	85	10	C	metal	up to 1 MPa	PTFE F56101	406827	●
70	90	10	C	metal	up to 1 MPa	PTFE F56101	406771	●
70	100	10	C	metal	up to 1 MPa	PTFE F56101	406829	●
72	100	10	C	metal	up to 1 MPa	PTFE F56101	406831	●
75	95	10	C	metal	up to 1 MPa	PTFE F56101	406832	●
75	100	10	C	metal	up to 1 MPa	PTFE F56101	526214	●
75	100	10	C	metal	up to 1 MPa	PTFE F56101	529452	○
80	100	10	C	metal	up to 1 MPa	PTFE F56101	406772	●
80	110	10	C	metal	up to 1 MPa	PTFE F56101	406833	●
85	110	10	C	metal	up to 1 MPa	PTFE F56101	406834	●
85	110	10	C	metal	up to 1 MPa	PTFE F56101	529453	○
90	110	10	C	metal	up to 1 MPa	PTFE F56101	406773	●
95	120	12	C	metal	up to 1 MPa	PTFE F56101	406835	●
100	120	12	C	metal	up to 1 MPa	PTFE F56101	406774	●
100	130	12	C	metal	up to 1 MPa	PTFE F56101	406837	●
105	130	12	C	metal	up to 1 MPa	PTFE F56101	406839	●
110	130	12	C	metal	up to 1 MPa	PTFE F56101	406775	●
110	140	12	C	metal	up to 1 MPa	PTFE F56101	406840	●
115	140	12	C	metal	up to 1 MPa	PTFE F56101	406841	●
120	140	12	C	metal	up to 1 MPa	PTFE F56101	406842	●
125	150	12	C	metal	up to 1 MPa	PTFE F56101	406838	●
140	170	15	C	metal	up to 1 MPa	PTFE F56101	365200	○
175	205	15	C	metal	up to 1 MPa	PTFE F56101	471887	○

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