



Max. Operating Conditions *

Temperature (°C)	- 30 / + 110 / + 200
Speed (m/s)	≤ 15 (2)**
Media:	Hydraulic fluids upon oil-basis, hardly inflaming hydraulic fluids, HFA-, HFB-Liquids

Recommended Surface Finish

Surface roughness	R_a	R_t
Groove bottom	≤ 1,6 μm	≤ 16 μm
Groove flanks	≤ 1,6 μm	≤ 16 μm
Running surface	≤ 0,3 μm	≤ 3 μm

Material

PTFE-bronze / -carbon / glass fiber (+MoS ₂)	PB/PK/PG(M)
PTFE-compound turquoise	PT
PTFE-Econol	PEK
Polyurethane	PU **

Technical Description

The wiper/scraper ring **W6** is a double lipped wiper consisting of a wiping element energised by an elastomer ring.

The PTFE material stands out for excellent sliding characteristics, low attrition rate as well as high extrusion resistance.

The thermal and chemical stability of the PTFE material allows for the use in a wide range of applications.

The wiper/scraper ring **W6** is also available in polyurethane with a hardness of app. 72° shore D. It is appropriate for exceptionally rough duty applications to wipe off even strongly adherent dirt.

The standard material of the **W6** is PTFE bronze filled with an O-ring in NBR 70° shore A.

***Max. operating conditions:**

The instance of application and service conditions are decisive for the choice of the PTFE-compound, respectively of the material qualities. Temperature range and chemical stability depending on chosen O-ring material.

Type designation	∅ d	∅ D	L	∅ D ₁	O-ring
W6 - 20 - PB	20	27,6	4,2	21,5	118
W6 - 22 - PB	22	29,6	4,2	23,5	120
W6 - 25 - PB	25	32,6	4,2	26,5	122
W6 - 28 - PB	28	35,6	4,2	29,5	123
W6 - 30 - PB	30	37,6	4,2	31,5	125
W6 - 32 - PB	32	39,6	4,2	33,5	126
W6 - 35 - PB	35	42,6	4,2	36,5	128
W6 - 36 - PB	36	43,6	4,2	37,5	129
W6 - 38 - PB	38	45,6	4,2	39,5	130
W6 - 40 - PB	40	48,8	6,3	41,5	132
W6 - 42 - PB	42	50,8	6,3	43,5	133
W6 - 45 - PB	45	53,8	6,3	46,5	135
W6 - 48 - PB	48	56,8	6,3	49,5	137
W6 - 50 - PB	50	58,8	6,3	51,5	138
W6 - 52 - PB	52	60,8	6,3	53,5	139
W6 - 54 - PB	54	62,8	6,3	55,5	141
W6 - 55 - PB	55	63,8	6,3	56,5	141
W6 - 56 - PB	56	64,8	6,3	57,5	142
W6 - 57 - PB	57	65,8	6,3	58,5	142
W6 - 60 - PB	60	68,8	6,3	61,5	144
W6 - 63 - PB	63	71,8	6,3	64,5	146
W6 - 65 - PB	65	73,8	6,3	66,5	147
W6 - 70 - PB	70	82,2	8,1	72,0	234
W6 - 75 - PB	75	87,2	8,1	77,0	235
W6 - 80 - PB	80	92,2	8,1	82,0	237
W6 - 85 - PB	85	97,2	8,1	87,0	239
W6 - 90 - PB	90	102,2	8,1	92,0	240
W6 - 95 - PB	95	107,2	8,1	97,0	242

Wiper/Scraper ring Type

Dimension

Material/Type

Ordering example: **Wiper/Scraper Ring** ∅ d 70 x 82,2 x 8,1 **PTFE-bronze**
Order designation: **W6 - 70 x 82,2 x 8,1 - PB**
Designation of material:
PB - PTFE-bronze

PU - Polyurethane

(Standard O-ring: NBR, Viton,

PK - PTFE-carbon

PT - PTFE compound turquoise

EPDM, Silicone feasible)

PEK - PTFE-Econol

PG(M) - PTFE-glass fiber (+MoS₂)

Type designation	∅ d	∅ D	L	∅ D ₁	O-ring
W6 - 100 - PB	100	112,2	8,1	102,0	243
W6 - 105 - PB	105	117,2	8,1	107,0	245
W6 - 110 - PB	110	122,2	8,1	112,0	246
W6 - 115 - PB	115	127,2	8,1	117,0	248
W6 - 120 - PB	120	132,2	8,1	122,0	249
W6 - 125 - PB	125	137,2	8,1	127,0	251
W6 - 130 - PB	130	142,2	8,1	132,0	253
W6 - 135 - PB	135	147,2	8,1	137,0	254
W6 - 140 - PB	140	156,0	9,5	142,5	359
W6 - 150 - PB	150	166,0	9,5	152,5	361
W6 - 160 - PB	160	176,0	9,5	162,5	363
W6 - 170 - PB	170	186,0	9,5	172,5	365
W6 - 180 - PB	180	196,0	9,5	182,5	366
W6 - 190 - PB	190	206,0	9,5	192,5	368
W6 - 200 - PB	200	216,0	9,5	202,5	369
W6 - 205 - PB	205	221,0	9,5	207,5	370
W6 - 210 - PB	210	226,0	9,5	212,5	371
W6 - 220 - PB	220	236,0	9,5	222,5	373
W6 - 230 - PB	230	246,0	9,5	232,5	374
W6 - 235 - PB	235	251,0	9,5	237,5	375
W6 - 240 - PB	240	256,0	9,5	242,5	376
W6 - 250 - PB	250	266,0	9,5	252,5	377
W6 - 260 - PB	260	276,0	9,5	262,5	378
W6 - 270 - PB	270	286,0	9,5	272,5	379
W6 - 280 - PB	280	296,0	9,5	282,5	379
W6 - 290 - PB	290	306,0	9,5	292,5	380
W6 - 300 - PB	300	316,0	9,5	302,5	381
W6 - 310 - PB	310	326,0	9,5	312,5	381
W6 - 320 - PB	320	336,0	9,5	322,5	382
W6 - 350 - PB	350	366,0	9,5	352,5	383
W6 - 360 - PB	360	376,0	9,5	362,5	383
W6 - 370 - PB	370	386,0	9,5	372,5	384
W6 - 400 - PB	400	424,0	14,0	402,5	461
W6 - 440 - PB	440	464,0	14,0	442,5	464
W6 - 500 - PB	500	524,0	14,0	502,5	469
W6 - 550 - PB	550	574,0	14,0	552,5	471

Further dimension and in-between sizes upon request.