



$R, R_1 \leq 0.2$

The surface of the rod should be finished by buffing (SPBF) to 0.8 to 1.6  $\mu$ mRz (0.2 to 0.4  $\mu$ mRa).

Model	$\phi d$	$\phi D$	H	R1max	Inner diameter O-ring	Extrusion gap: max*			KVK Part number
						10MPa	20MPa	40MPa	
RS-4	4	8.9	2.2	0.4	6 × 1.8	0.30	0.20	0.15	CS2001M0
RS-5	5	9.9	2.2	0.4	6.9 × 1.8	0.30	0.20	0.15	CS2002M0
RS-6	6	10.9	2.2	0.4	8 × 1.8	0.30	0.20	0.15	CS2003M0
RS-6A	6	13.3	3.2	0.4	9 × 2.65	0.30	0.20	0.15	
RS-7	7	11.9	2.2	0.4	8.75 × 1.8	0.30	0.20	0.15	CS2004M0
RS-7A	7	14.3	3.2	0.4	10 × 2.65	0.30	0.20	0.15	
RS-8	8	15.3	3.2	0.6	11.2 × 2.65	0.35	0.25	0.15	CS2005M0
RS-8A	8	12.9	2.2	0.6	9.5 × 1.8	0.35	0.25	0.15	
RS-10	10	17.3	3.2	0.6	13.2 × 2.65	0.35	0.25	0.15	CS2006M0
RS-10A	10	14.9	2.2	0.6	11.8 × 1.8	0.35	0.25	0.15	
RS-12	12	19.3	3.2	0.6	15 × 2.65	0.35	0.25	0.15	CS2007M0
RS-12A	12	16.9	2.2	0.6	14 × 1.8	0.35	0.25	0.15	
RS-14	14	21.3	3.2	0.6	17 × 2.65	0.35	0.25	0.15	CS2008M0
RS-14A	14	18.9	2.2	0.6	16 × 1.8	0.35	0.25	0.15	
RS-15	15	22.3	3.2	0.6	18 × 2.65	0.35	0.25	0.15	CS2009M0
RS-15A	15	19.9	2.2	0.6	17 × 1.8	0.35	0.25	0.15	
RS-16	16	23.3	3.2	0.6	19 × 2.65	0.35	0.25	0.15	CS2010M0
RS-16A	16	20.9	2.2	0.6	18 × 1.8	0.35	0.25	0.15	
RS-18	18	25.3	3.2	0.6	20.7 × 2.65	0.35	0.25	0.15	CS2011M0
RS-18A	18	22.9	2.2	0.6	20 × 1.8	0.35	0.25	0.15	
RS-18B	18	28.7	4.2	0.6	22.4 × 3.55	0.35	0.25	0.15	
RS-19	19	29.7	4.2	1.0	23.6 × 3.55	0.40	0.25	0.15	CS2012M0
RS-19A	19	26.3	3.2	1.0	21.2 × 2.65	0.40	0.25	0.15	
RS-20	20	30.7	4.2	1.0	25 × 3.55	0.40	0.25	0.15	CS2013M0
RS-20A	20	27.3	3.2	1.0	22.4 × 2.65	0.40	0.25	0.15	
RS-22	22	32.7	4.2	1.0	26.5 × 3.55	0.40	0.25	0.15	CS2014M0
RS-22A	22	29.3	3.2	1.0	25 × 2.65	0.40	0.25	0.15	
RS-24A	24	31.3	3.2	1.0	26.5 × 2.65	0.40	0.25	0.15	
RS-25	25	35.7	4.2	1.0	30 × 3.55	0.40	0.25	0.15	CS2015M0
RS-25A	25	32.3	3.2	1.0	28 × 2.65	0.40	0.25	0.15	
RS-28	28	38.7	4.2	1.0	32.5 × 3.55	0.40	0.25	0.15	CS2016M0
RS-28A	28	35.3	3.2	1.0	30 × 2.65	0.40	0.25	0.15	
RS-30	30	40.7	4.2	1.0	34.5 × 3.55	0.40	0.25	0.15	CS2017M0
RS-30A	30	37.3	3.2	1.0	32.5 × 2.65	0.40	0.25	0.15	



Model	φ d	φ D	H	R1max	Inner diameter O-ring	Extrusion gap: max*			KVK Part number
						10MPa	20MPa	40MPa	
RS-30B	30	45.1	6.3	1.0	34.5×5.3	0.40	0.25	0.15	
RS-31.5A	31.5	38.8	3.2	1.0	34.5×2.65	0.40	0.25	0.15	
RS-31.5B	31.5	42.2	4.2	1.0	36.5×3.55	0.40	0.25	0.15	
RS-32	32	42.7	4.2	1.0	36.5×3.55	0.40	0.25	0.15	CS2018M0
RS-32A	32	39.3	3.2	1.0	34.5×2.65	0.40	0.25	0.15	
RS-35	35	45.7	4.2	1.0	40×3.55	0.40	0.25	0.15	CS2019M0
RS-35A	35	42.3	3.2	1.0	37.5×2.65	0.40	0.25	0.15	
RS-35C	35	50.1	6.3	1.0	40×5.3	0.40	0.25	0.15	
RS-36	36	46.7	4.2	1.0	41.2×3.55	0.40	0.25	0.15	CS2020M0
RS-36A	36	43.3	3.2	1.0	38.5×2.65	0.40	0.25	0.15	
RS-38	38	53.1	6.3	1.2	43.7×5.3	0.40	0.30	0.20	CS2021M0
RS-38A	38	45.3	3.2	1.2	40×2.65	0.40	0.30	0.20	
RS-38B	38	48.7	4.2	1.2	42.5×3.55	0.40	0.30	0.20	
RS-39A	39	46.3	3.2	1.2	41.2×2.65	0.40	0.30	0.20	
RS-39B	39	49.7	4.2	1.2	43.7×3.55	0.40	0.30	0.20	
RS-40	40	55.1	6.3	1.2	46.2×5.3	0.40	0.30	0.20	CS2022M0
RS-40A	40	47.3	3.2	1.2	42.5×2.65	0.40	0.30	0.20	
RS-40B	40	50.7	4.2	1.2	45×3.55	0.40	0.30	0.20	
RS-42	42	57.1	6.3	1.2	48.7×5.3	0.40	0.30	0.20	CS2023M0
RS-42A	42	52.7	4.2	1.2	46.2×3.55	0.40	0.30	0.20	
RS-43.5A	43.5	54.2	4.2	1.2	48.5×3.55	0.40	0.30	0.20	
RS-45	45	60.1	6.3	1.2	51.5×5.3	0.40	0.30	0.20	CS2024M0
RS-45A	45	52.3	3.2	1.2	47.5×2.65	0.40	0.30	0.20	
RS-48	48	63.1	6.3	1.2	54.5×5.3	0.40	0.30	0.20	
RS-48A	48	58.7	4.2	1.2	53×3.55	0.40	0.30	0.20	
RS-50	50	65.1	6.3	1.2	56×5.3	0.40	0.30	0.20	CS2025M0
RS-50A	50	60.7	4.2	1.2	54.5×3.55	0.40	0.30	0.20	
RS-52	52	67.1	6.3	1.2	58×5.3	0.40	0.30	0.20	
RS-52A	52	62.7	4.2	1.2	56×3.55	0.40	0.30	0.20	
RS-55	55	70.1	6.3	1.2	61.5×5.3	0.40	0.30	0.20	CS2026M0
RS-55A	55	65.7	4.2	1.2	60×3.55	0.40	0.30	0.20	
RS-56	56	71.1	6.3	1.2	61.5×5.3	0.40	0.30	0.20	CS2027M0
RS-56A	56	66.7	4.2	1.2	60×3.55	0.40	0.30	0.20	
RS-60	60	75.1	6.3	1.2	65×5.3	0.40	0.30	0.20	CS2028M0
RS-60A	60	70.7	4.2	1.2	65×3.55	0.40	0.30	0.20	
RS-63	63	78.1	6.3	1.2	69×5.3	0.40	0.30	0.20	CS2029M0
RS-63A	63	73.7	4.2	1.2	67×3.55	0.40	0.30	0.20	
RS-65	65	80.1	6.3	1.2	71×5.3	0.40	0.30	0.20	CS2030M0
RS-65A	65	75.7	4.2	1.2	69×3.55	0.40	0.30	0.20	
RS-70	70	85.1	6.3	1.2	76×5.3	0.40	0.30	0.20	CS2031M0
RS-70A	70	80.7	4.2	1.2	75×3.55	0.40	0.30	0.20	
RS-75	75	90.1	6.3	1.2	80×5.3	0.40	0.30	0.20	CS2032M0
RS-75A	75	85.7	4.2	1.2	80×3.55	0.40	0.30	0.20	
RS-80	80	95.1	6.3	1.2	85×5.3	0.40	0.30	0.20	CS2033M0
RS-80A	80	90.7	4.2	1.2	85×3.55	0.40	0.30	0.20	
RS-80B	80	100.5	8.1	1.2	87×7	0.40	0.30	0.20	
RS-82A	82	97.1	6.3	1.2	87.5×5.3	0.40	0.30	0.20	
RS-85	85	100.1	6.3	1.2	90×5.3	0.40	0.30	0.20	CS2034M0
RS-85A	85	95.7	4.2	1.2	90×3.55	0.40	0.30	0.20	



Model	φ d	φ D	H	R1 <sub>max</sub>	Inner diameter O-ring	Extrusion gap: max*			KVK Part number
						10MPa	20MPa	40MPa	
RS-85B	85	105.5	8.1	1.2	92 × 7	0.40	0.30	0.20	
RS-90	90	105.1	6.3	1.2	95 × 5.3	0.40	0.30	0.20	CS2035M0
RS-90A	90	100.7	4.2	1.2	95 × 3.55	0.40	0.30	0.20	
RS-90B	90	110.5	8.1	1.2	97 × 7	0.40	0.30	0.20	
RS-95	95	110.1	6.3	1.2	100 × 5.3	0.40	0.30	0.20	
RS-95A	95	105.7	4.2	1.2	100 × 3.55	0.40	0.30	0.20	
RS-95B	95	115.5	8.1	1.2	103 × 7	0.40	0.30	0.20	
RS-100	100	115.1	6.3	1.2	105 × 5.3	0.40	0.30	0.20	CS2036M0
RS-100A	100	110.7	4.2	1.2	103 × 3.55	0.40	0.30	0.20	
RS-100B	100	120.5	8.1	1.2	109 × 7	0.40	0.30	0.20	
RS-105	105	120.1	6.3	1.2	109 × 5.3	0.40	0.30	0.20	CS2037M0
RS-105A	105	115.7	4.2	1.2	109 × 3.55	0.40	0.30	0.20	
RS-110	110	125.1	6.3	1.2	115 × 5.3	0.40	0.30	0.20	CS2038M0
RS-110A	110	120.7	4.2	1.2	115 × 3.55	0.40	0.30	0.20	
RS-110B	110	130.5	8.1	1.2	118 × 7	0.40	0.30	0.20	
RS-115	115	130.1	6.3	1.2	122 × 5.3	0.40	0.30	0.20	CS2039M0
RS-115A	115	125.7	4.2	1.2	120 × 3.55	0.40	0.30	0.20	
RS-120	120	135.1	6.3	1.2	125 × 5.3	0.40	0.30	0.20	CS2040M0
RS-120A	120	130.7	4.2	1.2	125 × 3.55	0.40	0.30	0.20	
RS-120B	120	140.5	8.1	1.2	128 × 7	0.40	0.30	0.20	
RS-125	125	140.1	6.3	1.2	132 × 5.3	0.40	0.30	0.20	CS2041M0
RS-125A	125	135.7	4.2	1.2	128 × 3.55	0.40	0.30	0.20	
RS-125B	125	145.5	8.1	1.2	132 × 7	0.40	0.30	0.20	
RS-130	130	145.1	6.3	1.2	136 × 5.3	0.40	0.30	0.20	CS2042M0
RS-135	135	150.1	6.3	1.2	140 × 5.3	0.40	0.30	0.20	
RS-135A	135	155.5	8.1	1.2	145 × 7	0.40	0.30	0.20	
RS-140	140	155.1	6.3	1.2	145 × 5.3	0.40	0.30	0.20	CS2043M0
RS-140A	140	160.5	8.1	1.2	150 × 7	0.40	0.30	0.20	
RS-145	145	160.1	6.3	1.2	150 × 5.3	0.40	0.30	0.20	
RS-150	150	165.1	6.3	1.2	155 × 5.3	0.40	0.30	0.20	CS2044M0
RS-150A	150	160.7	4.2	1.2	155 × 3.55	0.40	0.30	0.20	
RS-155	155	170.1	6.3	1.2	160 × 5.3	0.40	0.30	0.20	
RS-155A	155	175.5	8.1	1.2	165 × 7	0.40	0.30	0.20	
RS-160	160	175.1	6.3	1.2	165 × 5.3	0.40	0.30	0.20	CS2045M0
RS-160A	160	180.5	8.1	1.2	170 × 7	0.40	0.30	0.20	
RS-165	165	180.1	6.3	1.2	170 × 5.3	0.40	0.30	0.20	
RS-170	170	185.1	6.3	1.2	175 × 5.3	0.40	0.30	0.20	CS2046M0
RS-170A	170	190.5	8.1	1.2	180 × 7	0.40	0.30	0.20	
RS-175	175	190.1	6.3	1.2	180 × 5.3	0.40	0.30	0.20	
RS-180	180	195.1	6.3	1.2	185 × 5.3	0.40	0.30	0.20	CS2047M0
RS-180A	180	200.5	8.1	1.2	190 × 7	0.40	0.30	0.20	
RS-185	185	200.1	6.3	1.2	190 × 5.3	0.40	0.30	0.20	
RS-190	190	205.1	6.3	1.2	195 × 5.3	0.40	0.30	0.20	CS2048M0
RS-190A	190	210.5	8.1	1.2	200 × 7	0.40	0.30	0.20	
RS-200	200	220.5	8.1	1.5	207 × 7	0.50	0.35	0.25	CS2049M0
RS-200A	200	215.1	6.3	1.5	206 × 5.3	0.50	0.35	0.25	
RS-210	210	230.5	8.1	1.5	218 × 7	0.50	0.35	0.25	CS2050M0
RS-210A	210	225.1	6.3	1.5	212 × 5.3	0.50	0.35	0.25	
RS-215	215	235.5	8.1	1.5	224 × 7	0.50	0.35	0.25	



Model	φ d	φ D	H	R1max	Inner diameter O-ring	Extrusion gap: max*			KVK Part number
						10MPa	20MPa	40MPa	
RS-220	220	240.5	8.1	1.5	230 × 7	0.50	0.35	0.25	CS2051M0
RS-220A	220	235.1	6.3	1.5	224 × 5.3	0.50	0.35	0.25	
RS-225	225	245.5	8.1	1.5	235 × 7	0.50	0.35	0.25	
RS-230	230	250.5	8.1	1.5	236 × 7	0.50	0.35	0.25	CS2052M0
RS-235	235	255.5	8.1	1.5	243 × 7	0.50	0.35	0.25	
RS-240	240	260.5	8.1	1.5	250 × 7	0.50	0.35	0.25	CS2095M0
RS-245	245	265.5	8.1	1.5	250 × 7	0.50	0.35	0.25	
RS-250	250	270.5	8.1	1.5	258 × 7	0.50	0.35	0.25	CS2053M0
RS-250A	250	265.1	6.3	1.5	258 × 5.3	0.50	0.35	0.25	
RS-256	256	280	8.1	1.5	265 × 7	0.55	0.40	0.25	CS2054M0
RS-260	260	284	8.1	1.5	272 × 7	0.55	0.40	0.25	CS2055M0
RS-265A	265	285.5	8.1	1.5	272 × 7	0.55	0.40	0.25	
RS-270	270	294	8.1	1.5	280 × 7	0.55	0.40	0.25	CS2096M0
RS-280	280	304	8.1	1.5	290 × 7	0.55	0.40	0.25	CS2056M0
RS-290	290	314	8.1	1.5	300 × 7	0.55	0.40	0.25	CS2057M0
RS-300	300	324	8.1	1.5	307 × 7	0.55	0.40	0.25	CS2058M0
RS-310	310	334	8.1	1.5	315 × 7	0.55	0.40	0.25	CS2097M0
RS-315A	315	335.5	8.1	1.5	325 × 7	0.55	0.40	0.25	
RS-320	320	344	8.1	1.5	325 × 7	0.55	0.40	0.25	CS2059M0
RS-330	330	354	8.1	1.5	335 × 7	0.55	0.40	0.25	CS2098M0
RS-340	340	364	8.1	1.5	345 × 7	0.55	0.40	0.25	CS2099M0
RS-350	350	374	8.1	1.5	355 × 7	0.55	0.40	0.25	CS2100M0
RS-360	360	384	8.1	1.5	365 × 7	0.55	0.40	0.25	CS2060M0
RS-370	370	394	8.1	1.5	380 × 7	0.55	0.40	0.25	CS2061M0
RS-380	380	404	8.1	1.5	387 × 7	0.55	0.40	0.25	CS2101M0
RS-390	390	414	8.1	1.5	400 × 7	0.55	0.40	0.25	CS2102M0
RS-400	400	424	8.1	1.5	412 × 7	0.55	0.40	0.25	CS2062M0
RS-410	410	434	8.1	1.5	425 × 7	0.55	0.40	0.25	CS2063M0
RS-420	420	444	8.1	1.5	430 × 7	0.55	0.40	0.25	CS2064M0
RS-430	430	454	8.1	1.5	437 × 7	0.55	0.40	0.25	CS2065M0
RS-440	440	464	8.1	1.5	450 × 7	0.55	0.40	0.25	CS2066M0
RS-450	450	474	8.1	1.5	462 × 7	0.55	0.40	0.25	CS2067M0
RS-460	460	484	8.1	1.5	475 × 7	0.55	0.40	0.25	CS2068M0
RS-470	470	494	8.1	1.5	475 × 7	0.55	0.40	0.25	CS2069M0
RS-480	480	504	8.1	1.5	487 × 7	0.55	0.40	0.25	CS2070M0
RS-490	490	514	8.1	1.5	500 × 7	0.55	0.40	0.25	CS2071M0
RS-500	500	524	8.1	1.5	515 × 7	0.55	0.40	0.25	CS2072M0
RS-510	510	534	8.1	1.5	515 × 7	0.55	0.40	0.25	CS2073M0
RS-520	520	544	8.1	1.5	530 × 7	0.55	0.40	0.25	CS2074M0
RS-530	530	554	8.1	1.5	545 × 7	0.55	0.40	0.25	CS2075M0
RS-540	540	564	8.1	1.5	545 × 7	0.55	0.40	0.25	CS2076M0
RS-550	550	574	8.1	1.5	560 × 7	0.55	0.40	0.25	CS2077M0
RS-560	560	584	8.1	1.5	580 × 7	0.55	0.40	0.25	CS2078M0
RS-580	580	604	8.1	1.5	580 × 7	0.55	0.40	0.25	CS2079M0
RS-600	600	624	8.1	1.5	615 × 7	0.55	0.40	0.25	CS2080M0
RS-610	610	634	8.1	1.5	615 × 7	0.55	0.40	0.25	CS2081M0
RS-620	620	644	8.1	1.5	630 × 7	0.55	0.40	0.25	CS2082M0
RS-630	630	654	8.1	1.5	640 × 7	0.55	0.40	0.25	CS2083M0
RS-640	640	664	8.1	1.5	650 × 7	0.55	0.40	0.25	CS2084M0



Model	φ d	φ D	H	R1max	Inner diameter O-ring	Extrusion gap: max*			KVK Part number
						10MPa	20MPa	40MPa	
RS-650	650	677.3	9.5	2.5	660 × 8.6	0.60	0.40	0.20	CS2085M0
RS-650A	650	674	8.1	2.5	660 × 7	0.60	0.40	0.20	CS2086M0
RS-656	656	683.3	9.5	2.5	670 × 8.6	0.60	0.40	0.20	CS2087M0
RS-660	660	687.3	9.5	2.5	670 × 8.6	0.60	0.40	0.20	CS2088M0
RS-670	670	697.3	9.5	2.5	680 × 8.6	0.60	0.40	0.20	CS2089M0
RS-680	680	707.3	9.5	2.5	690 × 8.6	0.60	0.40	0.20	CS2090M0
RS-685	685	712.3	9.5	2.5	690 × 8.6	0.60	0.40	0.20	CS2091M0
RS-690	690	717.3	9.5	2.5	700 × 8.6	0.60	0.40	0.20	CS2092M0
RS-700A	700	724	8.1	2.5	710 × 8.6	0.60	0.40	0.20	CS2093M0
RS-700	700	727.3	9.5	2.5	710 × 7	0.60	0.40	0.20	CS2094M0
RS-710	710	737.3	9.5	2.5	720 × 8.6	0.60	0.40	0.20	
RS-720	720	747.3	9.5	2.5	730 × 8.6	0.60	0.40	0.20	
RS-730	730	757.3	9.5	2.5	740 × 8.6	0.60	0.40	0.20	
RS-740	740	767.3	9.5	2.5	750 × 8.6	0.60	0.40	0.20	
RS-750	750	777.3	9.5	2.5	760 × 8.6	0.60	0.40	0.20	
RS-760	760	787.3	9.5	2.5	770 × 8.6	0.60	0.40	0.20	
RS-765	765	792.3	9.5	2.5	770 × 8.6	0.60	0.40	0.20	
RS-770	770	797.3	9.5	2.5	780 × 8.6	0.60	0.40	0.20	
RS-780	780	807.3	9.5	2.5	790 × 8.6	0.60	0.40	0.20	
RS-790	790	817.3	9.5	2.5	800 × 8.6	0.60	0.40	0.20	
RS-800	800	827.3	9.5	2.5	810 × 8.6	0.60	0.40	0.20	
RS-810	810	837.3	9.5	2.5	820 × 8.6	0.60	0.40	0.20	
RS-820	820	847.3	9.5	2.5	830 × 8.6	0.60	0.40	0.20	
RS-830	830	857.3	9.5	2.5	840 × 8.6	0.60	0.40	0.20	
RS-840	840	867.3	9.5	2.5	850 × 8.6	0.60	0.40	0.20	
RS-850	850	877.3	9.5	2.5	860 × 8.6	0.60	0.40	0.20	
RS-860	860	887.3	9.5	2.5	870 × 8.6	0.60	0.40	0.20	
RS-870	870	897.3	9.5	2.5	880 × 8.6	0.60	0.40	0.20	
RS-875	875	902.3	9.5	2.5	880 × 8.6	0.60	0.40	0.20	
RS-880	880	907.3	9.5	2.5	890 × 8.6	0.60	0.40	0.20	
RS-885	885	912.3	9.5	2.5	890 × 8.6	0.60	0.40	0.20	
RS-890	890	917.3	9.5	2.5	900 × 8.6	0.60	0.40	0.20	
RS-900	900	927.3	9.5	2.5	910 × 8.6	0.60	0.40	0.20	
RS-910	910	937.3	9.5	2.5	250 × 8.6	0.60	0.40	0.20	
RS-920	920	947.3	9.5	2.5	930 × 8.6	0.60	0.40	0.20	
RS-930	930	957.3	9.5	2.5	940 × 8.6	0.60	0.40	0.20	
RS-940	940	967.3	9.5	2.5	950 × 8.6	0.60	0.40	0.20	
RS-950	950	977.3	9.5	2.5	960 × 8.6	0.60	0.40	0.20	
RS-955	955	982.3	9.5	2.5	960 × 8.6	0.60	0.40	0.20	
RS-970	970	997.3	9.5	2.5	980 × 8.6	0.60	0.40	0.20	
RS-980	980	1007.3	9.5	2.5	990 × 8.6	0.60	0.40	0.20	
RS-990	990	1017.3	9.5	2.5	1000 × 8.6	0.60	0.40	0.20	
RS-1000	1000	1038	13.8	3.0	1015 × 12	0.85	0.65	0.45	
RS-1035	1035	1073	13.8	3.0	1050 × 12	0.85	0.65	0.45	
RS-1040	1040	1078	13.8	3.0	1055 × 12	0.85	0.65	0.45	
RS-1040A	1040	1067.3	9.5	3.0	1050 × 8.6	0.85	0.65	0.45	
RS-1050	1050	1088	13.8	3.0	1065 × 12	0.85	0.65	0.45	
RS-1050A	1050	1077.3	9.5	3.0	1060 × 8.6	0.85	0.65	0.45	
RS-1100	1100	1138	13.8	3.0	1115 × 12	0.85	0.65	0.45	

