

TABLES OF AMERICAN STANDARDS (AS SERIES)

AS-0XX Size : Cross-section W = 1.78 mm							
AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm
-001*	0.74	-016	15.60	-031	44.17	-046	107.67
-002*	1.07	-017	17.17	-032	47.35	-047	114.02
-003*	1.42	-018	18.77	-033	50.52	-048	120.37
-004	1.78	-019	20.35	-034	53.70	-049	126.72
-005	2.57	-020	21.95	-035	56.87	-050	133.07
-006	2.90	-021	23.52	-036	60.05		
-007	3.68	-022	25.12	-037	63.22		
-008	4.47	-023	26.70	-038	66.40		
-009	5.28	-024	28.30	-039	69.57		
-010	6.07	-025	29.87	-040	72.75		
-011	7.65	-026	31.47	-041	75.92		
-012	9.25	-027	33.05	-042	82.27		
-013	10.82	-028	34.65	-043	88.62		
-014	12.42	-029	37.82	-044	94.97		
-015	14.00	-030	41.00	-045	101.32		

*Please note : for AS-001 cross-section W = 1.02 mm
for AS-002 cross-section W = 1.27 mm
for AS-003 cross-section W = 1.52 mm

AS-1XX Size : Cross-section W = 2.62 mm							
AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm
-102	1.24	-112	12.37	-122	28.24	-132	44.12
-103	2.06	-113	13.94	-123	29.82	-133	45.69
-104	2.84	-114	15.54	-124	31.42	-134	47.29
-105	3.63	-115	17.12	-125	32.99	-135	48.90
-106	4.42	-116	18.72	-126	34.59	-136	50.47
-107	5.23	-117	20.29	-127	36.17	-137	52.07
-108	6.02	-118	21.89	-128	37.77	-138	53.64
-109	7.59	-119	23.47	-129	39.34	-139	55.25
-110	9.19	-120	25.07	-130	40.94	-140	56.82
-111	10.77	-121	26.64	-131	42.52	-141	58.42

AS-1XX Size : Cross-section W = 2.62 mm							
AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm
-142	59.99	-152	82.22	-162	145.72	-172	209.22
-143	61.60	-153	88.57	-163	152.07	-173	215.57
-144	63.17	-154	94.92	-164	158.42	-174	221.92
-145	64.77	-155	101.27	-165	164.77	-175	228.27
-146	66.34	-156	107.62	-166	171.12	-176	234.62
-147	67.95	-157	113.97	-167	177.47	-177	240.97
-148	69.52	-158	120.32	-168	183.82	-178	247.32
-149	71.12	-159	126.67	-169	190.17		
-150	72.69	-160	133.02	-170	196.52		
-151	75.87	-161	139.37	-171	202.87		

AS-2XX Size : Cross-section W = 3.53 mm							
AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm
-201	4.34	-222	37.69	-243	104.37	-264	190.09
-202	5.94	-223	40.87	-244	107.54	-265	196.44
-203	7.52	-224	44.04	-245	110.72	-266	202.79
-204	9.12	-225	47.22	-246	113.89	-267	209.14
-205	10.69	-226	50.39	-247	117.07	-268	215.49
-206	12.29	-227	53.57	-248	120.24	-269	221.84
-207	13.87	-228	56.74	-249	123.42	-270	228.19
-208	15.47	-229	59.92	-250	126.59	-271	234.54
-209	17.04	-230	63.09	-251	129.77	-272	240.89
-210	18.64	-231	66.27	-252	132.94	-273	247.24
-211	20.22	-232	69.44	-253	136.12	-274	253.59
-212	21.82	-233	72.62	-254	139.29	-275	266.29
-213	23.39	-234	75.79	-255	142.47	-276	278.99
-214	24.99	-235	78.97	-256	145.64	-277	291.69
-215	26.57	-236	82.14	-257	148.82	-278	304.39
-216	28.17	-237	85.32	-258	151.99	-279	329.79
-217	29.74	-238	88.49	-259	158.34	-280	355.19
-218	31.34	-239	91.67	-260	164.69	-281	380.59
-219	32.92	-240	94.84	-261	171.04	-282	405.26
-220	34.52	-241	98.02	-262	177.39	-283	430.66
-221	36.09	-242	101.19	-263	183.74	-284	456.06

AS-XXX SERIES

AS-3XX Size : Cross-section W = 5.33 mm							
AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm
-309	10.46	-334	66.04	-359	145.42	-384	380.37
-310	12.07	-335	69.22	-360	148.59	-385	405.26
-311	13.64	-336	72.39	-361	151.77	-386	430.66
-312	15.24	-337	75.57	-362	158.12	-387	456.06
-313	16.81	-338	78.74	-363	164.47	-388	481.41
-314	18.42	-339	81.92	-364	170.82	-389	506.81
-315	19.99	-340	85.09	-365	177.17	-390	532.21
-316	21.59	-341	88.27	-366	183.52	-391	557.61
-317	23.16	-342	91.44	-367	189.87	-392	582.68
-318	24.77	-343	94.62	-368	196.22	-393	608.08
-319	26.34	-344	97.79	-369	202.57	-394	633.48
-320	27.94	-345	100.97	-370	208.92	-395	658.88
-321	29.51	-346	104.14	-371	215.27		
-322	31.12	-347	107.32	-372	221.62		
-323	32.69	-348	110.49	-373	227.97		
-324	34.29	-349	113.67	-374	234.32		
-325	37.47	-350	116.84	-375	240.67		
-326	40.64	-351	120.02	-376	247.02		
-327	43.82	-352	123.19	-377	253.37		
-328	46.99	-353	126.37	-378	266.07		
-329	50.17	-354	129.54	-379	278.77		
-330	53.34	-355	132.72	-380	291.47		
-331	56.52	-356	135.89	-381	304.17		
-332	59.69	-357	139.07	-382	329.57		
-333	62.87	-358	142.24	-383	354.97		

AS-XXX SERIES

AS-4XX Size : Cross-section W = 6.99 mm					
AS Nr.	ID. mm	AS Nr.	ID. mm	AS Nr.	ID. mm
-425	113.67	-447A	234.90	-467	481.46
-426	116.84	-448	240.67	-468	494.16
-427	120.02	-448A	247.65	-469	506.86
-428	123.19	-449	253.37	-470	532.26
-429	126.37	-449A	260.35	-471	557.66
-430	129.54	-450	266.07	-472	582.68
-431	132.72	-450A	273.05	-473	608.08
-432	135.89	-451	278.77	-474	633.48
-433	139.07	-451A	285.75	-475	658.88
-434	142.24	-452	291.47		
-435	145.42	-452A	298.45		
-436	148.59	-453	304.17		
-437	151.77	-454	316.87		
-438	158.12	-455	329.57		
-439	164.47	-456	342.27		
-440	170.82	-457	354.97		
-441	177.17	-458	367.67		
-442	183.52	-459	380.37		
-443	189.87	-460	393.07		
-444	196.22	-461	405.26		
-445	202.57	-462	417.96		
-445A	209.55	-463	430.66		
-446	215.27	-464	443.36		
-446A	222.25	-465	456.06		
-447	227.97	-466	468.76		

O-RING SIZE CROSS REFERENCE TABLE

These O-rings are intended for use with internal straight thread fluid connection bosses and tube fittings.

AS568A Dash No.	Dash No.	Tube O.D. (Ref.)	Metric O-Ring Size per AS568A (Units are in Millimeters)		O-Ring Size - Actual per AS568A (Units are in inches)	
			I.D.	W	I.D.	W
AS-901	-01	3/32	4.70	1.42	.185	.056
AS-902	-02	1/8	6.07	1.63	.239	.064
AS-903	-03	3/16	7.65	1.63	.301	.064
AS-904	-04	1/4	8.92	1.83	.351	.072
AS-905	-05	5/16	10.52	1.83	.414	.072
AS-906	-06	3/8	11.89	1.98	.468	.078
AS-907	-07	7/16	13.46	2.08	.530	.082
AS-908	-08	1/2	16.36	2.21	.644	.087
AS-909	-09	9/16	17.93	2.46	.706	.097
AS-910	-10	5/8	19.18	2.46	.755	.097
AS-911	-11	11/16	21.92	2.95	.863	.116
AS-912	-12	3/4	23.47	2.95	.924	.116
AS-913	-13	13/16	25.04	2.95	.986	.116
AS-914	-14	7/8	26.59	2.95	1.047	.116
AS-916	-16	1	29.74	2.95	1.171	.116
AS-918	-18	1 1/8	34.42	2.95	1.355	.116
AS-920	-20	1 1/4	37.47	3.00	1.475	.118
AS-924	-24	1 1/2	43.69	3.00	1.720	.118
AS-928	-28	1 3/4	53.09	3.00	2.090	.118
AS-932	-32	2	59.36	3.00	2.337	.118

TABLES OF JAPANESE STANDARDS (P SERIES)

Table of dimensions of O-rings for dynamic sealing and static sealing of cylindrical surface and flat surface (JIS B2401) (JIS B2406) (JASO 6605) all dimensions in mm.

O-Ring thickness (w) = 1.9 ± 0.07			
Nominal size by JIS B 2401	Nominal size by JASO 6605 (automobile standards)	Dimensions of O-Rings	
		Inside diameter (ID.)	
P 3	1003	2.8	
P 4	1004	3.8	
P 5	1005	4.8	
P 6	1006	5.8	
P 7	1007	6.8	
P 8	1008	7.8	
P 9	1009	8.8	
P 10	1010	9.8	0±0.12
	1011	11.0	
	1012	12.3	
	1013	13.0	
	1014	13.8	
	1015	14.8	
	1016	15.8	
	1017	16.8	
	1018	17.8	
	1019	18.8	
	1020	19.8	
	1021	21.0	
	1022	22.1	
	1023	23.3	
	1025	24.7	0±0.15
	1026	26.2	
	1028	27.7	
	1030	29.7	
	1031	31.2	
	1033	33.2	
	1035	35.2	

O-Ring thickness (w) = 2.4 ± 0.07			
Nominal size by JIS B 2401	Nominal size by JASO 6605 (automobile standards)	Dimensions of O-Rings	
		Inside diameter (ID.)	
P 10A	2010	9.8	
P 11	-	10.8	
P 11.2	2011	11.0	
P 12	-	11.8	
P 12.5	2012	12.3	
-	2013	13.0	±0.12
P 14	2014	13.8	
P 15	2015	14.8	
P 16	2016	15.8	
-	2017	16.8	
P 18	2018	17.8	
-	2019	18.8	
P 20	2020	19.8	
P 21	2021	20.8	
P 22	-	21.8	
-	2022	22.1	
-	2023	23.3	
-	2025	24.7	
-	2026	26.2	±0.15
-	2028	27.7	
-	2030	29.7	
-	2031	31.2	
-	2033	33.2	
-	2035	35.2	
-	2037	37.2	
-	2040	39.7	
-	2042	42.2	
-	2045	44.7	
-	2047	47.2	
-	2050	49.7	
-	2053	52.6	±0.25
-	2056	55.5	
-	2060	59.6	
-	2063	62.6	
-	2067	66.6	
-	2071	70.6	±0.4

TABLES OF JAPANESE STANDARDS (P SERIES)

O-Ring thickness (w) = 3.5 ± 0.1			
Nominal size by JIS B 2401	Nominal size by JASO 6605 (automobile standards)	Dimensions of O-Rings	
		Inside diameter (ID.)	
P 22A	-	21.7	
P 22.4	3022	22.1	
P 24	3024	23.7	
P 25	3025	24.7	
P 25.5	-	25.2	
P 26	3026	25.7	
P 28	3028	27.7	
P 29	-	28.7	
P 29.5	-	29.2	
P 30	3030	29.7	±0.15
P 31	-	30.7	
P 31.5	3031	31.2	
P 32	-	31.7	
P 34	3034	33.7	
P 35	-	34.7	
P 35.5	3035	35.2	
P 36	-	35.7	
P 38	3038	37.7	
P 39	3039	38.7	
P 40	3040	39.7	
P 41	-	40.7	
P 42	3042	41.7	
P 44	3044	43.7	
P 45	3045	44.7	
P 46	-	45.7	
P 48	3048	47.7	
P 49	-	48.7	±0.25
P 50	3050	49.7	
-	3053	52.6	
-	3056	55.6	
-	3060	59.6	
-	3063	62.6	
-	3067	66.6	
-	3071	70.6	±0.4
-	3075	74.6	

O-Ring thickness (w) = 3.5 ± 0.1			
Nominal size by JIS B 2401	Nominal size by JASO 6605 (automobile standards)	Dimensions of O-Rings	
		Inside diameter (ID.)	
-	3080	79.6	
-	3085	84.6	
-	3090	89.6	
-	3095	94.6	±0.4
-	3100	99.6	
-	3106	105.6	
-	3112	111.6	

O-Ring thickness (w) = 5.7 ± 0.15			
Nominal size by JIS B 2401	Nominal size by JASO 6605 (automobile standards)	Dimensions of O-Rings	
		Inside diameter (ID.)	
-	3118	117.6	±0.4
-	3125	124.6	
-	3132	131.6	
-	3140	139.6	±0.6
-	3150	149.6	
P 48A		47.6	
P 50A		49.6	
P 52		51.6	
P 53		52.6	
P 55		54.6	
P 56		55.6	
P 58		57.6	±0.25
P 60		59.6	
P 62		61.6	
P 63		62.6	
P 65		64.6	
P 67		66.6	
P 70		69.6	
P 71		70.6	
P 75		74.6	±0.4
P 80		79.6	

TABLES OF JAPANESE STANDARDS (P SERIES)

O-Ring thickness (w) = 5.7 ± 0.15				
Nominal size by JIS B 2401	Nominal size by JIS B 2401	Dimensions of O-Rings		
		Inside diameter (ID.)		
P 85		84.6	±0.4	
P 90		89.6		
P 95		94.6		
P 100		99.6		
P 102		101.6		
P 105		104.6		
P 110		109.6		
P 112		111.6		
P 115		114.6		
P 120		119.6		
P 125		124.6		
P 130		129.6		±0.6
P 132		131.6		
P 135		134.6		
P 140		139.6		
P 145		144.6		
P 150		149.6		

O-Ring thickness (w) = 8.4 ± 0.15			
Nominal size by JIS B 2401	Nominal size by JASO 6605 (automobile standards)	Dimensions of O-Rings	
		Inside diameter (ID.)	
P 150A		149.5	±0.6
P 155		154.5	
P 160		159.5	
P 165		164.5	
P 170		169.5	
P 175		174.5	
P 180		179.5	
P 185		184.5	
P 190		189.5	
P 195		194.5	
P 200		199.5	

O-Ring thickness (w) = 8.4 ± 0.15				
Nominal size by JIS B 2401	Nominal size by JASO 6605 (automobile standards)	Dimensions of O-Rings		
		Inside diameter (ID.)		
P 205		204.5	±0.8	
P 209		208.5		
P 210		209.5		
P 215		214.5		
P 220		219.5		
P 225		224.5		
P 230		229.5		
P 235		234.5		
P 240		239.5		
P 245		244.5		
P 250		249.5		
P 255		254.5		
P 260		259.5		
P 265		264.5		
P 270		269.5		
P 275		274.5		
P 280		279.5		
P 285		284.5		
P 290		289.5		
P 295		294.5		
P 300		299.5		
P 315		314.5		±1.0
P 320		319.5		
P 335		334.5		
P 340		339.5		
P 355		354.5		
P 360		359.5		
P 375		374.5		
P 385		384.5		
P 400		399.5		

TABLES OF JAPANESE STANDARDS (G SERIES)

Table of dimensions of O-rings for static sealing of cylindrical surface and flat surface (JIS B2401) (JIS B2406) all dimensions in mm.

O-Ring thickness (w) = 3.1 ± 0.1		
Nominal size by JIS B 2401	Dimensions of O-Rings	
	Inside diameter (ID.)	
G 25	24.4	±0.15
G 30	29.4	
G 35	34.4	
G 40	39.4	
G 45	44.4	±0.25
G 50	49.4	
G 55	54.4	
G 60	59.4	
G 65	64.4	
G 70	69.4	±0.4
G 75	74.5	
G 80	79.4	
G 85	84.4	
G 90	89.4	
G 95	94.4	
G 100	99.4	
G 105	104.4	
G 110	109.4	
G 115	114.4	
G 120	119.4	±0.6
G 125	124.4	
G 130	129.4	
G 135	134.4	
G 140	139.4	
G 145	144.4	

O-Ring thickness (w) = 5.7 ± 0.15		
Nominal size by JIS B 2401	Dimensions of O-Rings	
	Inside diameter (ID.)	
G 150	149.3	±0.6
G 155	154.3	
G 160	159.3	
G 165	164.3	
G 170	169.3	
G 175	174.3	
G 180	179.3	
G 185	184.3	
G 190	189.3	
G 195	194.3	
G 200	199.3	
G 210	209.3	
G 220	219.3	
G 230	229.3	
G 240	239.3	
G 250	249.3	
G 260	259.3	
G 270	269.3	
G 280	279.3	
G 290	289.3	
G 300	299.3	

TABLES OF JAPANESE STANDARDS (S SERIES)

Table of dimensions of O-rings for static sealing (S Standard : rubber materials : nitrile rubber) all dimensions in mm.

O-Ring thickness (w) = 1.5 ± 0.1		
Nominal size	Dimensions of O-Rings	
	Inside diameter (ID.)	
S 3	2.5	
S 4	3.5	
S 5	4.5	
S 6	5.5	
S 7	6.5	
S 8	7.5	
S 9	8.5	
S 10	9.5	
S 11.2	10.7	±0.15
S 12	11.5	
S 12.5	12.0	
S 14	13.5	
S 15	14.5	
S 16	15.5	
S 18	17.5	
S 20	19.5	
S 22	21.5	

O-Ring thickness (w) = 2.0 ± 0.1		
Nominal size	Dimensions of O-Rings	
	Inside diameter (ID.)	
S 36	35.5	
S 38	37.5	±0.15
S 39	38.5	
S 40	39.5	
S 42	41.5	
S 44	43.5	
S 45	44.5	
S 46	45.5	
S 48	47.5	
S 50	49.5	
S 53	52.5	±0.25
S 55	54.5	
S 56	55.5	
S 60	59.5	
S 63	62.5	
S 65	64.5	
S 67	66.5	
S 70	69.5	
S 71	70.5	
S 75	74.5	
S 80	79.5	
S 85	84.5	
S 90	89.5	
S 95	94.5	
S 100	99.5	±0.4
S 105	104.5	
S 110	109.5	
S 112	111.5	
S 115	114.5	
S 120	119.5	
S 125	124.5	
S 130	129.5	
S 132	131.5	
S 135	134.5	±0.6
S 140	139.5	
S 145	144.5	
S 150	149.5	

O-Ring thickness (w) = 2.0 ± 0.1		
Nominal size	Dimensions of O-Rings	
	Inside diameter (ID.)	
S 22.4	21.9	
S 24	23.5	
S 25	24.5	
S 26	25.5	
S 28	27.5	
S 29	28.5	±0.15
S 30	29.5	
S 31.5	31.0	
S 32	31.5	
S 34	33.5	
S 35	34.5	
S 35.5	35.0	

TABLES OF JAPANESE STANDARDS (V SERIES)

Table of dimensions of O-rings for vacuum flange (JIS B2401) (JIS B2290) all dimensions in mm.

O-Ring thickness (w) = 4.0 ± 0.1		
Nominal size by JIS B 2401	Dimensions of O-Rings	
	Inside diameter (ID.)	
V 15	14.5	±0.15
V 24	23.5	
V 34	33.5	
V 40	39.5	
V 55	54.5	±0.25
V 70	69.0	
V 85	84.0	±0.4
V 100	99.0	
V 120	119.0	
V 150	148.5	
V 175	173.0	±0.6

O-Ring thickness (w) = 10.0 ± 0.3		
Nominal size by JIS B 2401	Dimensions of O-Rings	
	Inside diameter (ID.)	
V 480	475.0	±1.2
V 530	524.5	±1.6
V 585	579.0	
V 640	633.5	
V 690	683.0	
V 740	732.5	±2.0
V 790	782.0	
V 845	836.5	
V 950	940.5	
V 1055	1044.0	±3.0

O-Ring thickness (w) = 6.0 ± 0.15*		
Nominal size by JIS B 2401	Dimensions of O-Rings	
	Inside diameter (ID.)	
V 225	222.5	±0.8
V 275	272.0	
V 325	321.5	±1.0
V 380	376.0	
V 430	425.5	±1.2