



INA Shaft locating washer Series: WS

The WS locating washer is mounted on the shaft and serves as a raceway surface for the rolling elements with recommended operating temperatures from -20 degrees C to 120 C (-4 degrees F to 248 F) it is suited for a variety of applications. The WS series is manufactured in a low alloy and through-hardened chromium steel for durability with a high heat tolerance this range is manufactured to PN (normal) tolerances in accordance with DIN 620.

Characteristics

Series: WS

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Article
WS81102	15	28	2.75	11669425
WS81103	17	30	2.75	11669426
WS81104	20	35	2.75	11669427
WS81105	25	42	3	11669428
WS81106	30	47	3	11669429
WS81206	30	52	4.25	11669443
WS89306	30	60	6.25	11836021
WS81107	35	52	3.5	11669430
WS81207	35	62	5.25	11669444
WS89307	35	68	7	11836022
WS81108	40	60	3.5	11669431
WS81208	40	68	5	11669445
WS89308	40	78	7.5	11836023
WS87408	40	90	8.25	14176441
WS81109	45	65	4	11669432
WS81209	45	73	5.5	11669446
WS89309	45	85	8.25	23523259
WS87409	45	100	9	14176442
WS81110	50	70	4	11669433
WS81210	50	78	6.5	11669447
WS89310	50	95	9.5	23523257
WS87410	50	110	9.5	14176436
WS81111	55	78	5	11669434
WS81211	55	90	7	11669448
WS89311	55	105	10.5	11836024
WS87411	55	120	10.5	14176437
WS81112	60	85	4.75	11669435
WS81212	60	95	7.5	11669449
WS89312	60	110	10.5	11836025
WS89412	60	130	14	23997522
WS81113	65	90	5.25	11669436
WS81213	65	100	8	11669450
WS89313	65	115	10.5	23997063
WS87413	65	140	12	14176438
WS89413	65	140	15	23997523
WS81114	70	95	5.25	11669437
WS81214	70	105	8	11669451
WS89314	70	125	12	11836026
WS81115	75	100	5.75	11669438
WS81215	75	110	8	23523242
WS89315	75	135	12.5	23997069

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Manufacturer ID	Inner diameter	Outer diameter	Width	Article
	mm	mm	mm	
WS81116	80	105	5.75	11669439
WS81216	80	115	8.5	23195746
WS89316	80	140	12.5	23997048
WS89416	80	170	18	23997525
WS81117	85	110	5.75	11669440
WS81217	85	125	9.5	11669452
WS89317	85	150	13.5	23997070
WS89417	85	180	19.5	23997526
WS81118	90	120	6.5	11669441
WS81218	90	135	10.5	23195788
WS89318	90	155	13.5	23997057
WS89418	90	190	20	23997527
WS81120	100	135	7	11669442
WS81220	100	150	11.5	23523248
WS89320	100	170	14.5	11836027
WS89420	100	210	22.5	23997528
WS81122	110	145	7	11836010
WS81222	110	160	11.5	11836016
WS89322	110	190	16.5	23997071
WS89422	110	230	24.5	23997529
WS81124	120	155	7	11836011
WS81224	120	170	12	23997059
WS89324	120	210	18.5	23997072
WS81134	120	213	10	23997093
WS89424	120	250	26	23997530
WS81126	130	170	9	11836012
WS81226	130	187	13	11836017
WS89326	130	225	20	23997073
WS89426	130	270	28.5	23997531
WS81128	140	178	9.5	11836013
WS81228	140	197	13.5	23997088
WS89328	140	240	20.5	23997078
WS81130	150	188	9.5	23523256
WS81230	150	212	14.5	23997089
WS89330	150	250	20.5	23997079
WS81132	160	198	9.5	11836014
WS81232	160	220	15	11836018
WS89432	160	320	31.5	23997534
WS81234	170	237	16.5	23996994
WS81136	180	222	10	23996982
WS81236	180	247	17	23996995
WS81138	190	237	11	11836015
WS81140	200	250	11	23997086
WS81240	200	277	18	23996998
WS81144	220	267	11	23997085
WS81244	220	297	18.5	23996999
WS81148	240	297	13.5	23523150
WS81248	240	335	23	23997000
WS81152	260	317	13.5	23996984
WS81252	260	355	23.5	23997002
WS81156	280	347	15.5	23996985
WS81256	280	375	24	23997003
WS81160	300	376	18.5	23997092

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Manufacturer ID	Inner diameter	Outer diameter	Width	Article
	mm	mm	mm	
WS81260	300	415	28.5	23997004
WS81164	320	396	19	23996986

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