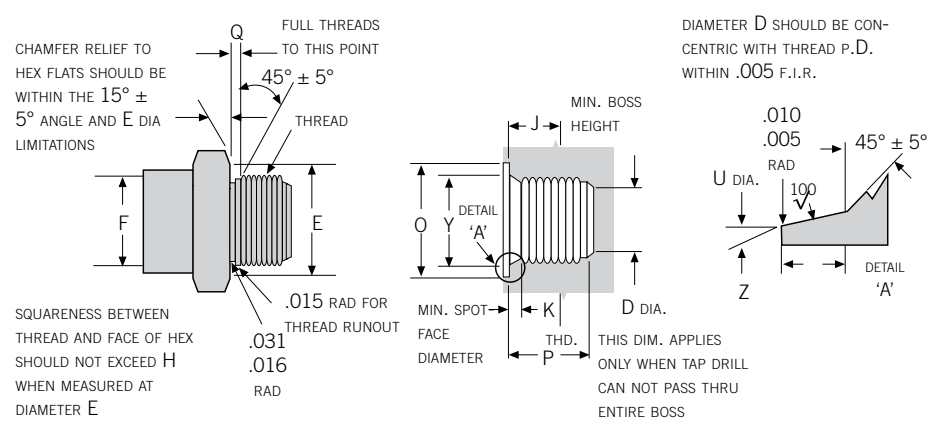
12. O-ring Gland Design

12 D. Gland Design for Static Boss Seals

O-ring boss Gaskets for Straight Thread Tube Fittings

The 900-series of dash numbers identify the size of boss seals. The digits after the 9 identify the nominal tube size in 16ths of an inch. The tube size is the outside diameter (OD). For example, size 903 is intended for use with 3/16-inch OD tube.



Boss Dimensions

AS 568 O-ring Size Nr.	Cross-section	I.D.	Tube Outside Ø	Thread	J min. THD Depth	D min.	U +.005 -.000	K +.015 -.000	Y min.	P min.	Z ±1°	0 min.
-902	.064 ± .003	.239 ± .005	1/8	5/16-24 UNF-2B	.390	.062	.358	.074	.672	.468	12°	.438
-903	.064 ± .003	.301 ± .005	3/16	3/8-24 UNF-2B	.390	.125	.421	.074	.750	.468	12°	.500
-904	.072 ± .003	.351 ± .005	1/4	7/16-20 UNF-2B	.454	.172	.487	.093	.828	.547	12°	.563
-905	.072 ± .003	.414 ± .005	5/16	1/2-20 UNF-2B	.454	.234	.550	.093	.906	.547	12°	.625
-906	.078 ± .003	.468 ± .005	3/8	9/16-20 UNF-2B	.500	.297	.616	.097	.909	.609	12°	.688
-908	.087 ± .003	.644 ± .009	1/2	3/4-16 UNF-2B	.562	.391	.811	.100	1.188	.688	15°	.875
-910	.097 ± .003	.755 ± .009	5/8	7/8-14 UNF-2B	.656	.484	.942	.100	1.344	.781	15°	1.000
-912	.116 ± .004	.924 ± .009	3/4	1 1/16-12 UN-2B	.750	.609	1.148	.130	1.625	.906	15°	1.250
-913	.116 ± .004	.986 ± .010	13/16									
-914	.116 ± .004	1.047 ± .010	7/8	1 3/16-12 UN-2B	.750	.719	1.273	.130	1.765	.906	15°	1.375
-916	.116 ± .004	1.171 ± .010	1	1 5/16-12 UN-2B	.750	.844	1.398	.130	1.910	.906	15°	1.500
-920	.118 ± .004	1.475 ± .014	1 1/4	1 5/8-12 UN-2B	.750	1.078	1.713	.132	2.270	.906	15°	1.875
-924	.118 ± .004	1.720 ± .014	1 1/2	1 7/8-12 UN-2B	.750	1.312	1.962	.132	2.560	.906	15°	2.125
-932	.118 ± .004	2.337 ± .018	2	2 1/2-12 UN-2B	.750	1.781	2.587	.132	3.480	.906	15°	2.750

Fitting End Dimensions (MS33656)

O-ring Size Nr.	Cross-section	I.D.	Tube Outside Ø	Thread	F + .002 - .003	D max.	U ± .010	K + .015 - .000
AS-902	.064 ± .003	.239 ± .005	1/8	5/16-24 UNF-2B	.250	.005	.549	.063
AS-903	.064 ± .003	.301 ± .005	3/16	3/8-24 UNF-2B	.312	.005	.611	.063
AS-904	.072 ± .003	.351 ± .005	1/4	7/16-20 UNF-2B	.364	.005	.674	.075
AS-905	.072 ± .003	.414 ± .005	5/16	1/2-20 UNF-2B	.426	.005	.736	.075
AS-906	.078 ± .003	.468 ± .005	3/8	9/16-18 UNF-2B	.481	.005	.799	.083
AS-908	.087 ± .003	.644 ± .009	1/2	3/4-16 UNF-2B	.660	.005	.986	.094
AS-910	.097 ± .003	.755 ± .009	5/8	7/8-14 UNF-2B	.773	.005	1.111	.107
AS-912	.116 ± .004	.924 ± .009	3/4	1 1/16-12 UN-2B	.945	.008	1.361	.125
AS-914	.116 ± .004	1.047 ± .010	7/8	1 3/16-12 UN-2B	1.070	.008	1.475	.125
AS-916	.116 ± .004	1.171 ± .010	1	1 5/16-12 UN-2B	1.195	.008	1.599	.125
AS-920	.118 ± .004	1.475 ± .014	1 1/4	1 5/8-12 UN-2B	1.507	.008	1.849	.125
AS-924	.118 ± .004	1.720 ± .014	1 1/2	1 7/8-12 UN-2B	1.756	.008	2.095	.125
AS-932	.118 ± .004	2.337 ± .018	2	2 1/2-12 UN-2B	2.381	.008	2.718	.125

All the information in this documentation has been compiled with the greatest of care.
Despite this we can bear no responsibility whatsoever for any errors present in the documentation. The recommendations are intended as guidelines.
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