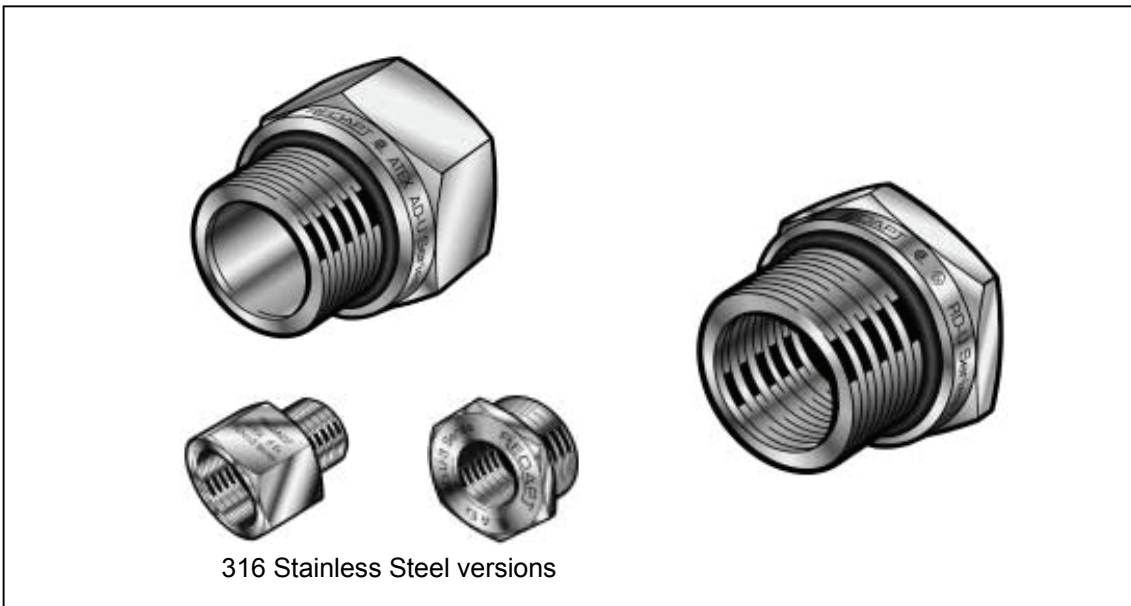


Dual Certified Adaptors & Reducers IP66 68 & 4X 6P

AD-U & RD-U Series Adaptors and Reducers provide a method of matching electrical threadforms on Ex Equipment while maintaining certification.

Adaptors are used where the thread size of the cable gland or connection device is larger than, or of an equivalent size to the entry thread of the enclosure.

Reducers are used to reduce the entry thread of an enclosure to accept a cable gland or connection device with a smaller thread.



- **Worldwide compatibility** - keeping pace with the rapidly changing approvals and to ensure worldwide compatibility, Redapt have North American Ex approvals for both methods of hazardous location classification, Zones and Divisions, in addition to our existing CENELEC approvals. Redapt can therefore offer Adaptors & Reducers Ex de I&IIC and/or Class I Division 1 ABCD
- **Captive 'O' Ring Seal** - this is located within a recess on the face of the product helping protect the 'O' ring from the environmental damage, ensuring the 'O' ring is not displaced during installation and to optimise ingress protection.

Please Note:

Tapered male thread options are not normally supplied c/w 'O' ring seal, thread sealant should be used to maintain the desired level of ingress protection. If an 'O' ring seal is required (Clearance holes) this can be available as an option.

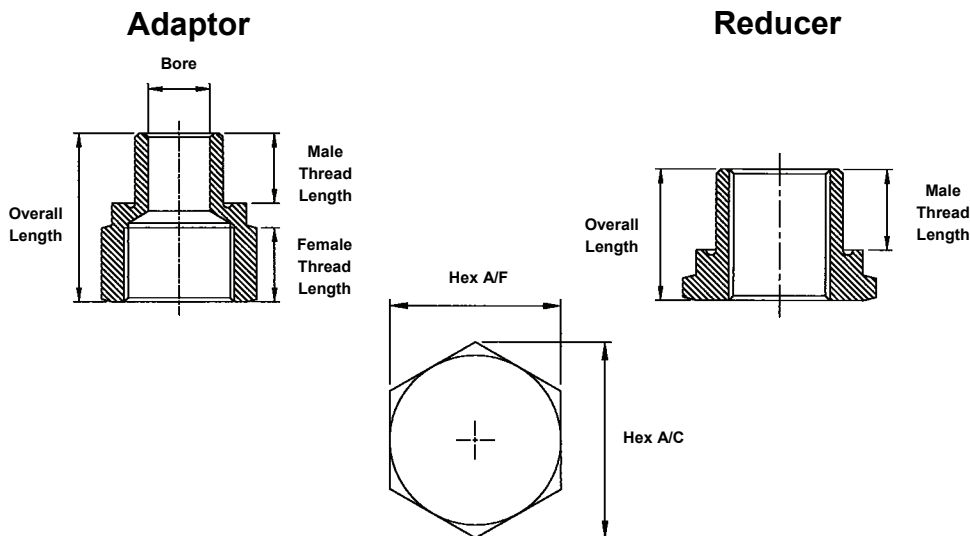
316 Stainless Steel versions do not feature a marking band. This reduces the overall length of Reducers by 5mm, it does not affect the overall length of Adaptors.

ATEX / IECEx	CSA / A Ex
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Sira 00ATEX1094X
 IECEx SIR 12.0016X
 I M2 II 2DG Ex de I&IIC Mb Gb
 II 2DG E Ex de IIC (Aluminium) Mb Gb
 Ex tb IIIC Db

Class I, Zone 1, Ex de I&IIC
 Class I Division 1&2 ABCD
 Class II EFG, Class III

Ingress Protection:	IP66 68, CSA Enclosure Type (NEMA) 4X 6P
Impact Resistance:	20Nm (7Nm Aluminium)
Ambient Temperature:	-50°C to +80°C (with standard O Ring)
Materials:	Brass, 316 Stainless Steel, Aluminium
O Ring Material:	Nitrile (others on request)
Plating:	Nickel, Zinc, other on application
Part Number:	Please refer to <i>Part Numbering System</i>



Please see pages 3 & 4 for dimension tables

Available Thread Sizes and Corresponding Bore Size									
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Metric	Bore	NPT	Bore	ISO Pipe	Bore	ET	Bore	PG	Bore
M16	10.0			3/8"	10.0	5/8"	10.0	PG7	8.0
M20	14.0	1/2"	15.0	1/2"	15.0	3/4"	14.0	PG9	10.0
M25	18.0	3/4"	19.0	3/4"	19.0	1"	18.0	PG11	13.5
M32	24.0	1"	25.0	1"	25.0	1 1/4"	24.0	PG13.5	14.0
M40	32.0	1 1/4"	32.0	1 1/4"	32.0	1 1/2"	32.0	PG16	16.0
M50	41.0	1 1/2"	38.0	1 1/2"	38.0	2"	41.0	PG21	21.0
M63	53.0	2"	49.0	2"	49.0	2 1/2"	53.0	PG29	29.0
M75	64.0	2 1/2"	60.0	2 1/2"	60.0	3"	64.0	PG36	38.0
M80x2.0	69.0	3"	75.0	3"	75.0			PG42	45.0
M85x2.0	73.0	3 1/2"	88.0	3 1/2"	88.0			PG48	50.0
M90x2.0	78.0	4"	100.0	4"	100.0				
M100x2.0	88.0								

For full material specifications and options, please refer to *Material Specifications*

STEP 1 – To obtain the correct reference number select the male size from the left hand column, then refer horizontally across the page to the female size. i.e. M32 (Male) x M40 (Female) = 208. Reference numbers in red are Adaptors, other references are Reducers.

Male	Female Size																																				
	Metric												NPT								PG																
Metric	M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100	M110	M120	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	PG7&9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48				
M16	201	201													216																						
M20	301	202	203												217	218																					
M25	303	303	257	206											303	219	221																				
M32	305	305	305	206	208										305	305	221	223																			
M40	307	307	307	307	208	209									307	307	307	223	224																		
M50	309	309	309	309	309	259	211								309	309	309	309	225	226																	
M63	310	310	310	310	310	310	211	212							310	310	310	310	310	226	227																
M75	311	311	311	311	311	311	311	212	261	213	213				311	311	311	311	311	311	360	228															
M80	311	311	311	311	311	311	311	261	261	214	214																										
M85	312	312	312	312	312	312	312	214	214	214	214																										
M90	312	312	312	312	312	312	312	312	214	214	214	215			312	312	312	312	312	312	312	312	229	230	231												
M100	313	313	313	313	313	313	313	313	313	313	215	215	262	263	313	313	313	313	313	313	313	313	230	231													
M110	325	325	325	325	325	325	325	325	325	325	325	262	262	263																							
M120	326	326	326	326	326	326	326	326	326	326	326	326	262	263	263																						

Male	Female Size																																					
	Metric												NPT								PG																	
NPT	M16	M20	M25	M32	M40	M50	M63	M75	M90	M100	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	PG7&9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48								
1/2"	314	232	234								245	246																										
3/4"	315	315	234	235							315	246	247																									
1"	316	316	316	236	237						316	316	248	249																								
1 1/4"	317	317	317	317	237	238					317	317	317	249	250																							
1 1/2"	318	318	318	318	318	238	240				318	318	318	318	250	251																						
2"	319	319	319	319	319	319	240	241			319	319	319	319	319	251	252																					
2 1/2"	320	320	320	320	320	320	242	243			320	320	320	320	320	320	253	254																				
3"	321	321	321	321	321	321	321	321	243	244	321	321	321	321	321	321	321	254	255																			
3 1/2"	322	322	322	322	322	322	322	322	322	244	322	322	322	322	322	322	322	322	255	256																		
4"	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	256	264																
5"	-	-	-	-	-	-	-	-	-	-	327	327	327	327	327	327	327	327	327	327	327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Male	Female Size																																			
	Metric												NPT								PG															
PG	M16	M20	M25	M32	M40	M50	M63	M75	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	PG7&9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48												
PG7&9	201	201							216							201	201	201																		
PG11	202	202	203						217	218						301/202	202	202	202																	
PG13.5	301	202	203						217	218						301	202	202	202	203																
PG16	302	203	203						218	218	221					302	302	203	203	257																
PG21	304	304	205	206	208				304	220	221					304	304	304	304	205	258															
PG29	306	306	306	306	208	209			306	306	223	223	224			306	306	306	306	306	208	209														
PG36	308	308	308	308	308	209	211		308	308	308	224	224			308	308	308	308	308	209	210	211													
PG42	324	324	324	324	324	210	211		324	324	324	324	324	226		324	324	324	324	324	324	324	210	211												
PG48	310	310	310	310	310	211	211		310	310	310	310	310	226	227	310	310	310	310	310	310	310	211													

STEP 2 – Having obtained the reference number, go to the relevant column within the dimension tables to obtain the Adaptor or Reducer’s dimensions. Please note that these dimensions refer to metallic products only.

Adaptors

Metric x Metric, Metric x PG, PG x Metric, PG x PG

Reference Numbers	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	257	258	259
Hex Across Flats	23.4	27	30.5	33	36	37.6	37.6	47.2	55.9	61.2	70.1	90.2	106.4	106.4	114.3	23.4	31.3	41.3	57.2
Hex Across Corners	26.8	31	35	38	41.5	43.2	43.2	53.4	64.3	70.4	81.8	103.7	122.4	122.4	131.4	26.8	36.1	47.7	66
Male Thread Length	16	16	16	16	16	16	16	16	16	16	16	16	16	20	20	16	16	16	16
Female Thread Length	17	17	17	17	17	17	17	17	17	17	17	17	22	22	22	20	17	17	17
Total Length	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	39.5	39.5	39.5	39.5	45	49	49	42	38.5	38.5	38.5

Metric x NPT, PG x NPT

Reference Numbers	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	261	262	263	
Hex Across Flats	27	30.5	32	37.6	37.6	41.3	47.2	55.9	57.2	70.1	80	106.4	106.4	114.3	127	90.2	120.7	139.7	
Hex Across Corners	31	35	36.7	43.2	43.2	47.5	53.4	64.3	66	81.8	92	122.4	122.4	131.4	147	104.1	139.4	161.3	
Male Thread Length	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	20	20		
Female Thread Length	20	20	20	20	25	25	25	25	25	25	35	35	35	35	35	22	22	22	
Total Length	42	42	42	42	47	47	47	48	48	48	58	58	62	62	62	48	48	49	

NPT x Metric, NPT x PG

Reference Numbers	232	233	234	235	236	237	238	239	240	241	242	243	244	260					
Hex Across Flats	23.4	28.6	30.5	37.6	37.6	44.5	55.9	61.2	70.1	90.2	90.2	106.4	114.3	90.2					
Hex Across Corners	26.8	32.9	35	43.2	43.2	51.1	64.3	70.4	81.8	103.7	103.7	122.4	131.4	103.7					
Male Thread Length	20	20	20	20	25	25	25	25	25	25	35	35	35	16					
Female Thread Length	17	17	17	17	17	17	17	17	17	17	17	22	22	35					
Total Length	43	43	43	43	48	48	49	49	49	49	59	64	64	58					

NPT x NPT

Reference Numbers	245	246	247	248	249	250	251	252	253	254	255	256	264						
Hex Across Flats	23.4	30.5	37.6	37.6	47.2	55.9	70.1	80	80	106.4	114.3	127	158.8						
Hex Across Corners	26.8	35	43.2	43.2	53.4	64.3	81.8	92	92	122.4	131.4	146	183.3						
Male Thread Length	20	20	20	25	25	25	25	25	35	35	35	35	35						
Female Thread Length	20	20	25	25	25	25	25	40	40	42	43	44	47						
Total Length	46	46	51	56	56	57	57	70	80	80	80	80	81						

Reducers

Metric and PG

Reference Numbers	301	302	303	304	305	306	307	308	309	310	311	312	313	324	325	326			
Hex Across Flats	27	30.5	31.8	36	37.6	44.5	47.2	55.9	57.2	70.1	90.2	106.4	114.3	61.2	120.7	127			
Hex Across Corners	31	35	36.7	41.5	43.2	51.1	53.4	64.3	66	81.8	103.7	122.4	131	70.7	139.4	146.6			
Male Thread Length	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16			
Total Length	26	26	26	26	26	26	26	27	27	27	27	28	28	27	28	28			

NPT

Reference Numbers	314	315	316	317	318	319	320	321	322	323	327								
Hex Across Flats	23.4	27.9	34.9	44.5	52.1	61.2	80	90.2	106.4	120.7	146								
Hex Across Corners	26.8	32.1	40.2	51.1	59.9	70.4	92	103.7	122.4	138.8	168.6								
Male Thread Length	20	20	25	25	25	26	35	35	35	35	35								
Total Length	30	30	35	35	35	36	46	46	46	47	47								