



AEROSPACE STANDARD	AS5782™	REV. C
	Issued 2007-07 Reaffirmed 2013-11 Revised 2023-08	
Superseding AS5782B		
Retainers (Backup Rings), Hydraulic and Pneumatic, Polytetrafluoroethylene Resin, Solid, Un-Cut, for Use in AS4716 Glands		

RATIONALE

In Table 2A part number AS5782R(XX)-119 was missing. In Table 2B, the ID dimension for part number AS5782R(XX)-331 was incorrect. Also in Table 2B, part numbers AS5782P(XX)-435 through AS5782P(XX)-460 and AS5782R(XX)-435 through AS5782R(XX)-460 were missing. This revision corrects the errors and minor format improvements are included.

1. SCOPE

This SAE Aerospace Standard (AS) specifies solid, un-cut polytetrafluoroethylene (PTFE) retainers (backup rings) for use in glands in accordance with AS4716. They are usually used in hydraulic and pneumatic system components as anti-extrusion devices in conjunction with O-rings and other seals for static and dynamic applications.

1.1 Field of Application

Backup rings to the dimensions in AS5782 are for use in glands to AS4716 only. They shall not be used in glands to MIL-G-5514 or AS5857.

NOTE: Parts standard MS27595 (solid, un-cut backup rings) for use in glands to MIL-G-5514 and parts standard AS5861 (solid un-cut backup rings) for use in AS5857 glands have been published.

This specification includes material tests but does not include hydraulic or pneumatic performance tests.

2. APPLICABLE DOCUMENTS

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

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<https://www.sae.org/standards/content/AS5782C/>

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AMS3678	Polytetrafluoroethylene (PTFE) Moldings and Extrusions Unfilled, Pigmented, and Filled
AMS3678/1	Type 1 - Virgin Polytetrafluoroethylene (PTFE) Moldings and Extrusions
AMS3678/2	Type 2 - 15% Graphite Filled Virgin Polytetrafluoroethylene (PTFE) Moldings or Extrusions
AMS3678/3	Type 3 - 15% Glass, 5% Molybdenum Disulfide Filled Virgin Polytetrafluoroethylene (PTFE) Moldings or Extrusions
AMS3678/5	Type 5 - Virgin Polytetrafluoroethylene (PTFE) Moldings or Extrusions with Pigment
AMS3678/6	Type 6 - 60% Bronze Filled Virgin Polytetrafluoroethylene (PTFE) Moldings or Extrusions
AMS3678/7	Type 7 - Virgin Polytetrafluoroethylene (PTFE) Moldings or Extrusions with 25% Carbon and Graphite
AMS3678/8	Type 8 - Virgin Polytetrafluoroethylene (PTFE) Moldings or Extrusions with 10% Carbon Fiber
AMS3678/9	Type 9 - Virgin Polytetrafluoroethylene (PTFE) Moldings with Pigment for AS4716 and AS5857 Backup Rings
AMS3678/10	Type 10 - Virgin Polytetrafluoroethylene (PTFE) Moldings or Extrusions with 15% Carbon Fiber
AS4716	Gland Design, O-Ring and Other Seals
AS5857	Gland Design, O-Ring and Other Elastomeric Seals, Static Applications
AS5860	Retainers (Backup Rings), Hydraulic and Pneumatic, Polytetrafluoroethylene Resin, Single Turn, Scarf-Cut, For Use in AS5857 Static Glands
AS5861	Retainers (Backup Rings), Hydraulic and Pneumatic, Polytetrafluoroethylene Resin, Solid, Un-Cut, for Use in Static Glands to AS5857

2.2 U.S. Government Publications

Copies of these documents are available online at <https://quicksearch.dla.mil>.

MIL-G-5514	Gland Design; Packing, Hydraulic, General Requirements For (inactive for new design)
MIL-STD-2073-1	Standard Practice for Military Packaging
MS27595	Retainer, Packing Backup, Continuous Ring, Polytetrafluoroethylene (inactive for new design)

2.3 ASME Publications

Available from ASME, P.O. Box 2900, 22 Law Drive, Fairfield, NJ 07007-2900, Tel: 800-843-2763 (U.S./Canada), 001-800-843-2763 (Mexico), 973-882-1170 (outside North America), www.asme.org.

ASME Y14.5-2009 Dimensioning and Tolerancing

3. TECHNICAL REQUIREMENTS

3.1 Design

Backup rings specified herein have been designed for a temperature range of -65 to 275 °F (-54 to 135 °C) and a nominal operating pressure of 3000 psi (20684 kPa) for code 09 material (AMS3678/9). Alternate materials to AMS3678 are offered for more arduous operating conditions.

Because of the construction of groove dimensions, backup rings specific to piston applications are designated “P” (piston, male). Backup rings specific to rod applications are designated “R” (rod, female).

3.2 Materials and Applications

3.2.1 Primary Material

Code 09, virgin PTFE with pigment: For operating pressures up to 3000 psi (20684 kPa) parts shall be made from material code 09 of this standard shall conform to AMS3678/9.

- Parts made from material code 09 of this standard for “R” (rod) applications shall be blue per AMS3678/9.
- Parts made from material code 09 of this standard for “P” (piston) applications shall be yellow per AMS3678/9.

NOTE: Green pigmented material to AMS3678/9 is for use for “R” (rod) backup rings to AS5860 and AS5861. Brown pigmented material to AMS3678/9 is for use for “P” (piston) backup rings to AS5860 and AS5861.

Details of material specification, material code, color, composition, application, and pressures for code 09 material applicable to this document are listed in Table 1. Other data is for alternate materials or for reference only.

3.2.2 Alternate Materials

Alternate materials to AMS3678 offer improved physical properties for more arduous operating conditions.

The alternate materials listed in Table 1 (except AMS3678/1 and AMS3678/4) can also be ordered by using the part identification numbers of this standard (see 3.3.1).

NOTE: When alternate materials are selected, it is recommended that adequate performance for the application be verified by operational testing.

Table 1 - Materials and applications

Material Specification	Material Code ⁽⁶⁾	Color	Composition	Application	Max Pressure ⁽⁵⁾	
					psi	kPa
AMS3678/1	N/A	White	Virgin PTFE ⁽¹⁾	Not to be used	N/A	
AMS3678/2	02	Black	15% graphite	Static & dynamic	3000	20684
AMS3678/3	03	Gray	15% glass, 5% MoS ₂	Static	4000	27579
AMS3678/4	N/A	White	25% glass ⁽²⁾	Not to be used	N/A	
AMS3678/5	05	Per supplier	Virgin, pigmented ⁽³⁾	Static & dynamic	2000	13790
AMS3678/6	06	Brown	60% bronze ⁽⁴⁾	Static	5000	34474
AMS3678/7	07	Black	25% carbon/graphite	Static	5000	34474
AMS3678/8	08	Black	10% carbon fiber	Static & dynamic	4000	27579
AMS3678/9	09	See 3.2.3	Virgin, pigmented	Static & dynamic	3000	20684
AMS3678/10	10	Black	15% carbon fiber	Static & dynamic	5000	34474

NOTES:

- (1) Material to AMS3678/1 Grade A and Grade B is not to be used because both have lower physical properties and, therefore, lower performance than AMS3678/9.
- (2) Glass fibers can be abrasive, particularly in dynamic applications and against soft surfaces such as aluminum and some grades of titanium and stainless steels.
- (3) Usually used for manufacturer's proprietary pigment colors.
- (4) Not usually recommended for hydraulic systems as bronze particles can clog filters.
- (5) Maximum pressures indicated are for guidance purposes only and for pressures above 3000 psi (20684 kPa) testing is recommended.
- (6) Material "designation codes" are derived from the appropriate slash sheets of AMS3678.

3.2.3 Color Identification for Materials Other Than Code 09

Color pigmentation for material to AMS3678/5 is usually proprietary per manufacturer but shall not be blue, yellow, brown, or green in order to avoid confusion with material per AMS3678/9.

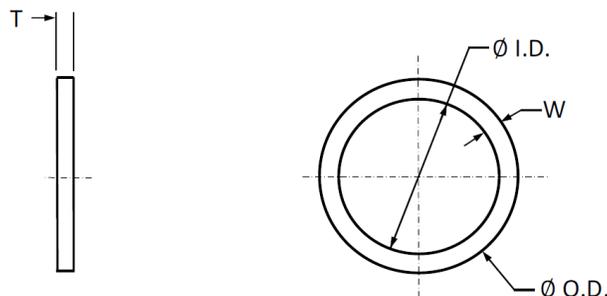
There is no color pigmentation applied to materials to AMS3678/1, AMS3678/2, AMS3678/3, AMS3678/4, AMS3678/6, AMS3678/7, AMS3678/8, and AMS3678/10.

3.3 Dimensional Requirements

See Figure 1.

See Tables 2A and 2B for dimensions.

Dimensions and tolerancing per ASME Y-14.5-2009.

**Figure 1 - Backup ring controlled features**

3.3.1 Part Number

The part number consists of the standard number, the piston (“P”) or rod (“R”) code, and the material code followed by the appropriate three digit dash number taken from Tables 2A and 2B as shown in Figure 2.

Example Part Number:

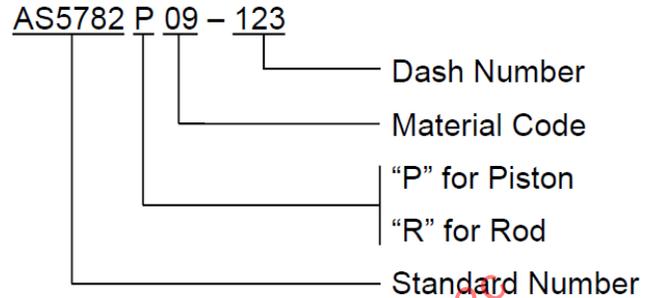


Figure 2 - Example part number

NOTES:

1. In Figure 2, “P” for piston, code 09 material, and dash 123 size are all used for example purposes only.
2. Spaces between characters in the above example part number are for illustration clarity only and are not used in the part number.

See Figures 1 and 2.

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Table 2A - AS5782 backup ring dimensions, in inches

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.001	T ±0.002	W ±0.001	Part No.	ID ±0.001	T ±0.002	W ±0.001
AS5782P(XX)-004	0.190	0.052	0.056	AS5782R(XX)-004	0.076	0.052	0.056
AS5782P(XX)-005	0.221	0.052	0.052	AS5782R(XX)-005	0.108	0.052	0.053
AS5782P(XX)-006	0.235	0.052	0.052	AS5782R(XX)-006	0.123	0.052	0.054
AS5782P(XX)-007	0.266	0.052	0.053	AS5782R(XX)-007	0.154	0.052	0.054
AS5782P(XX)-008	0.297	0.052	0.053	AS5782R(XX)-008	0.185	0.052	0.053
AS5782P(XX)-009	0.329	0.052	0.054	AS5782R(XX)-009	0.217	0.052	0.054
AS5782P(XX)-010	0.360	0.054	0.054	AS5782R(XX)-010	0.248	0.054	0.054
AS5782P(XX)-011	0.422	0.054	0.054	AS5782R(XX)-011	0.310	0.054	0.054
AS5782P(XX)-012	0.485	0.054	0.054	AS5782R(XX)-012	0.373	0.054	0.054
AS5782P(XX)-013	0.550	0.054	0.053	AS5782R(XX)-013	0.435	0.054	0.054
AS5782P(XX)-014	0.613	0.054	0.054	AS5782R(XX)-014	0.498	0.054	0.054
AS5782P(XX)-015	0.675	0.054	0.054	AS5782R(XX)-015	0.560	0.054	0.054
AS5782P(XX)-016	0.738	0.054	0.054	AS5782R(XX)-016	0.623	0.054	0.054
AS5782P(XX)-017	0.800	0.054	0.054	AS5782R(XX)-017	0.685	0.054	0.054
AS5782P(XX)-018	0.863	0.054	0.054	AS5782R(XX)-018	0.748	0.054	0.054
AS5782P(XX)-019	0.925	0.054	0.054	AS5782R(XX)-019	0.810	0.054	0.054
AS5782P(XX)-020	0.991	0.054	0.054	AS5782R(XX)-020	0.873	0.054	0.054
AS5782P(XX)-021	1.053	0.054	0.054	AS5782R(XX)-021	0.935	0.054	0.054
	OD ±0.002				ID ±0.002		
AS5782P(XX)-022	1.116	0.054	0.054	AS5782R(XX)-022	0.998	0.054	0.054
AS5782P(XX)-023	1.178	0.054	0.054	AS5782R(XX)-023	1.060	0.054	0.054
AS5782P(XX)-024	1.241	0.054	0.054	AS5782R(XX)-024	1.123	0.054	0.054
AS5782P(XX)-025	1.303	0.054	0.054	AS5782R(XX)-025	1.185	0.054	0.054
AS5782P(XX)-026	1.366	0.054	0.054	AS5782R(XX)-026	1.248	0.054	0.054
AS5782P(XX)-027	1.428	0.054	0.054	AS5782R(XX)-027	1.310	0.054	0.054
AS5782P(XX)-028	1.491	0.054	0.054	AS5782R(XX)-028	1.373	0.054	0.054

Table 2A - AS5782 backup ring dimensions, in inches (continued)

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.001	T ±0.002	W ±0.001	Part No.	ID ±0.001	T ±0.002	W ±0.001
AS5782P(XX)-104	0.297	0.056	0.084	AS5782R(XX)-104	0.123	0.056	0.085
AS5782P(XX)-105	0.329	0.056	0.085	AS5782R(XX)-105	0.154	0.056	0.085
AS5782P(XX)-106	0.360	0.056	0.086	AS5782R(XX)-106	0.185	0.056	0.086
AS5782P(XX)-107	0.391	0.056	0.087	AS5782R(XX)-107	0.217	0.056	0.086
AS5782P(XX)-108	0.422	0.056	0.087	AS5782R(XX)-108	0.248	0.056	0.086
AS5782P(XX)-109	0.485	0.056	0.088	AS5782R(XX)-109	0.310	0.056	0.087
AS5782P(XX)-110	0.550	0.056	0.085	AS5782R(XX)-110	0.373	0.056	0.085
AS5782P(XX)-111	0.613	0.056	0.086	AS5782R(XX)-111	0.435	0.056	0.086
AS5782P(XX)-112	0.675	0.056	0.085	AS5782R(XX)-112	0.498	0.056	0.086
AS5782P(XX)-113	0.738	0.056	0.085	AS5782R(XX)-113	0.560	0.056	0.086
AS5782P(XX)-114	0.800	0.056	0.085	AS5782R(XX)-114	0.623	0.056	0.086
AS5782P(XX)-115	0.863	0.056	0.086	AS5782R(XX)-115	0.685	0.056	0.086
AS5782P(XX)-116	0.925	0.056	0.086	AS5782R(XX)-116	0.748	0.056	0.086
AS5782P(XX)-117	0.991	0.056	0.086	AS5782R(XX)-117	0.810	0.056	0.086
AS5782P(XX)-118	1.053	0.056	0.086	AS5782R(XX)-118	0.873	0.056	0.086
AS5782P(XX)-119	1.116	0.056	0.086	AS5782R(XX)-119	0.935	0.056	0.086
AS5782P(XX)-120	1.178	0.056	0.086				
	OD ±0.002				ID ±0.002		
AS5782P(XX)-121	1.241	0.056	0.086	AS5782R(XX)-120	0.998	0.056	0.086
AS5782P(XX)-122	1.303	0.056	0.086	AS5782R(XX)-121	1.060	0.056	0.086
AS5782P(XX)-123	1.366	0.056	0.086	AS5782R(XX)-122	1.123	0.056	0.086
AS5782P(XX)-124	1.428	0.056	0.086	AS5782R(XX)-123	1.185	0.056	0.086
AS5782P(XX)-125	1.491	0.056	0.086	AS5782R(XX)-124	1.248	0.056	0.086
AS5782P(XX)-126	1.553	0.056	0.086	AS5782R(XX)-125	1.310	0.056	0.086
AS5782P(XX)-127	1.616	0.056	0.086	AS5782R(XX)-126	1.373	0.056	0.086
AS5782P(XX)-128	1.678	0.056	0.086	AS5782R(XX)-127	1.435	0.056	0.086
AS5782P(XX)-129	1.741	0.056	0.086	AS5782R(XX)-128	1.498	0.056	0.086
AS5782P(XX)-130	1.805	0.056	0.086	AS5782R(XX)-129	1.560	0.056	0.086
AS5782P(XX)-131	1.867	0.056	0.086	AS5782R(XX)-130	1.623	0.056	0.086
AS5782P(XX)-132	1.930	0.056	0.086	AS5782R(XX)-131	1.685	0.056	0.086
AS5782P(XX)-133	1.992	0.056	0.086	AS5782R(XX)-132	1.748	0.056	0.086
AS5782P(XX)-134	2.055	0.056	0.086	AS5782R(XX)-133	1.810	0.056	0.086
				AS5782R(XX)-134	1.873	0.056	0.086

Table 2A - AS5782 backup ring dimensions, in inches (continued)

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.002	T ±0.002	W ±0.001	Part No.	ID ±0.002	T ±0.002	W ±0.001
AS5782P(XX)-135	2.118	0.056	0.086	AS5782R(XX)-135	1.936	0.056	0.086
AS5782P(XX)-136	2.180	0.056	0.086	AS5782R(XX)-136	1.998	0.056	0.086
AS5782P(XX)-137	2.243	0.056	0.086	AS5782R(XX)-137	2.061	0.056	0.086
AS5782P(XX)-138	2.305	0.056	0.086	AS5782R(XX)-138	2.123	0.056	0.086
AS5782P(XX)-139	2.368	0.056	0.086	AS5782R(XX)-139	2.186	0.056	0.086
AS5782P(XX)-140	2.430	0.056	0.086	AS5782R(XX)-140	2.248	0.056	0.086
AS5782P(XX)-141	2.493	0.056	0.086	AS5782R(XX)-141	2.311	0.056	0.086
AS5782P(XX)-142	2.555	0.056	0.086	AS5782R(XX)-142	2.373	0.056	0.086
AS5782P(XX)-143	2.618	0.056	0.086	AS5782R(XX)-143	2.436	0.056	0.086
AS5782P(XX)-144	2.680	0.056	0.086	AS5782R(XX)-144	2.498	0.056	0.086
AS5782P(XX)-145	2.743	0.056	0.086	AS5782R(XX)-145	2.561	0.056	0.086
AS5782P(XX)-146	2.805	0.056	0.086	AS5782R(XX)-146	2.623	0.056	0.086
AS5782P(XX)-147	2.868	0.056	0.086	AS5782R(XX)-147	2.686	0.056	0.086
AS5782P(XX)-148	2.930	0.056	0.086	AS5782R(XX)-148	2.748	0.056	0.086
AS5782P(XX)-149	2.993	0.056	0.086	AS5782R(XX)-149	2.811	0.056	0.086
	OD ±0.001				ID ±0.001		
AS5782P(XX)-210	0.991	0.062	0.120	AS5782R(XX)-210	0.748	0.062	0.120
AS5782P(XX)-211	1.053	0.062	0.120	AS5782R(XX)-211	0.810	0.062	0.120
AS5782P(XX)-212	1.116	0.062	0.120	AS5782R(XX)-212	0.873	0.062	0.120
AS5782P(XX)-213	1.178	0.062	0.120	AS5782R(XX)-213	0.935	0.062	0.120
	OD ±0.002				ID ±0.002		
AS5782P(XX)-214	1.241	0.062	0.120	AS5782R(XX)-214	0.998	0.062	0.120
AS5782P(XX)-215	1.303	0.062	0.120	AS5782R(XX)-215	1.060	0.062	0.120
AS5782P(XX)-216	1.366	0.062	0.120	AS5782R(XX)-216	1.123	0.062	0.120
AS5782P(XX)-217	1.428	0.062	0.120	AS5782R(XX)-217	1.185	0.062	0.120
AS5782P(XX)-218	1.491	0.062	0.120	AS5782R(XX)-218	1.248	0.062	0.120
AS5782P(XX)-219	1.553	0.062	0.120	AS5782R(XX)-219	1.310	0.062	0.120
AS5782P(XX)-220	1.616	0.062	0.120	AS5782R(XX)-220	1.373	0.062	0.120
AS5782P(XX)-221	1.678	0.062	0.120	AS5782R(XX)-221	1.435	0.062	0.120
AS5782P(XX)-222	1.741	0.062	0.120	AS5782R(XX)-222	1.498	0.062	0.120
AS5782P(XX)-223	1.803	0.062	0.120	AS5782R(XX)-223	1.560	0.062	0.120

Table 2A - AS5782 backup ring dimensions, in inches (continued)

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.002	T ±0.002	W ±0.001	Part No.	ID ±0.002	T ±0.002	W ±0.001
AS5782P(XX)-224	1.992	0.062	0.120	AS5782R(XX)-224	1.748	0.062	0.120
AS5782P(XX)-225	2.118	0.062	0.120	AS5782R(XX)-225	1.873	0.062	0.120
AS5782P(XX)-226	2.243	0.062	0.120	AS5782R(XX)-226	1.998	0.062	0.120
AS5782P(XX)-227	2.368	0.062	0.120	AS5782R(XX)-227	2.123	0.062	0.120
AS5782P(XX)-228	2.493	0.062	0.120	AS5782R(XX)-228	2.248	0.062	0.120
AS5782P(XX)-229	2.618	0.062	0.120	AS5782R(XX)-229	2.373	0.062	0.120
AS5782P(XX)-230	2.743	0.062	0.120	AS5782R(XX)-230	2.498	0.062	0.120
AS5782P(XX)-231	2.868	0.062	0.120	AS5782R(XX)-231	2.623	0.062	0.120
AS5782P(XX)-232	2.993	0.062	0.120	AS5782R(XX)-232	2.748	0.062	0.120
AS5782P(XX)-233	3.118	0.062	0.120	AS5782R(XX)-233	2.873	0.062	0.120
AS5782P(XX)-234	3.243	0.062	0.120	AS5782R(XX)-234	2.997	0.062	0.120
AS5782P(XX)-235	3.368	0.062	0.120	AS5782R(XX)-235	3.122	0.062	0.120
AS5782P(XX)-236	3.493	0.062	0.120	AS5782R(XX)-236	3.247	0.062	0.120
AS5782P(XX)-237	3.618	0.062	0.120	AS5782R(XX)-237	3.372	0.062	0.120
AS5782P(XX)-238	3.743	0.062	0.120	AS5782R(XX)-238	3.497	0.062	0.120
AS5782P(XX)-239	3.868	0.062	0.120	AS5782R(XX)-239	3.622	0.062	0.120
AS5782P(XX)-240	3.993	0.062	0.120	AS5782R(XX)-240	3.747	0.062	0.120
AS5782P(XX)-241	4.118	0.062	0.120	AS5782R(XX)-241	3.872	0.062	0.120
AS5782P(XX)-242	4.243	0.062	0.120	AS5782R(XX)-242	3.997	0.062	0.120
AS5782P(XX)-243	4.368	0.062	0.120	AS5782R(XX)-243	4.122	0.062	0.120
AS5782P(XX)-244	4.493	0.062	0.120	AS5782R(XX)-244	4.247	0.062	0.120
AS5782P(XX)-245	4.618	0.062	0.120	AS5782R(XX)-245	4.372	0.062	0.120
AS5782P(XX)-246	4.743	0.062	0.120	AS5782R(XX)-246	4.497	0.062	0.120
AS5782P(XX)-247	4.868	0.062	0.120	AS5782R(XX)-247	4.622	0.062	0.120
AS5782P(XX)-325	1.867	0.088	0.185	AS5782R(XX)-325	1.498	0.088	0.185
AS5782P(XX)-326	1.992	0.088	0.185	AS5782R(XX)-326	1.623	0.088	0.185
AS5782P(XX)-327	2.118	0.088	0.185	AS5782R(XX)-327	1.748	0.088	0.185
AS5782P(XX)-328	2.243	0.088	0.185	AS5782R(XX)-328	1.873	0.088	0.185
AS5782P(XX)-329	2.368	0.088	0.185	AS5782R(XX)-329	1.998	0.088	0.185

Table 2A - AS5782 backup ring dimensions, in inches (continued)

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.002	T ±0.002	W ±0.001	Part No.	ID ±0.002	T ±0.002	W ±0.001
AS5782P(XX)-330	2.493	0.088	0.185	AS5782R(XX)-330	2.123	0.088	0.185
AS5782P(XX)-331	2.618	0.088	0.185	AS5782R(XX)-331	2.248	0.088	0.185
AS5782P(XX)-332	2.743	0.088	0.185	AS5782R(XX)-332	2.373	0.088	0.185
AS5782P(XX)-333	2.868	0.088	0.185	AS5782R(XX)-333	2.498	0.088	0.185
AS5782P(XX)-334	2.993	0.088	0.185	AS5782R(XX)-334	2.623	0.088	0.185
AS5782P(XX)-335	3.118	0.088	0.185	AS5782R(XX)-335	2.748	0.088	0.185
AS5782P(XX)-336	3.243	0.088	0.185	AS5782R(XX)-336	2.873	0.088	0.185
AS5782P(XX)-337	3.368	0.088	0.185	AS5782R(XX)-337	2.997	0.088	0.185
AS5782P(XX)-338	3.493	0.088	0.185	AS5782R(XX)-338	3.122	0.088	0.185
AS5782P(XX)-339	3.618	0.088	0.185	AS5782R(XX)-339	3.247	0.088	0.185
AS5782P(XX)-340	3.743	0.088	0.185	AS5782R(XX)-340	3.372	0.088	0.185
AS5782P(XX)-341	3.868	0.088	0.185	AS5782R(XX)-341	3.497	0.088	0.185
AS5782P(XX)-342	3.993	0.088	0.185	AS5782R(XX)-342	3.622	0.088	0.185
AS5782P(XX)-343	4.118	0.088	0.185	AS5782R(XX)-343	3.747	0.088	0.185
AS5782P(XX)-344	4.243	0.088	0.185	AS5782R(XX)-344	3.872	0.088	0.185
AS5782P(XX)-345	4.368	0.088	0.185	AS5782R(XX)-345	3.997	0.088	0.185
AS5782P(XX)-346	4.493	0.088	0.185	AS5782R(XX)-346	4.122	0.088	0.185
AS5782P(XX)-347	4.618	0.088	0.185	AS5782R(XX)-347	4.247	0.088	0.185
AS5782P(XX)-348	4.743	0.088	0.185	AS5782R(XX)-348	4.372	0.088	0.185
AS5782P(XX)-349	4.868	0.088	0.185	AS5782R(XX)-349	4.497	0.088	0.185
AS5782P(XX)-425	4.974	0.120	0.237	AS5782R(XX)-425	4.497	0.120	0.237
AS5782P(XX)-426	5.099	0.120	0.237	AS5782R(XX)-426	4.622	0.120	0.237
AS5782P(XX)-427	5.224	0.120	0.237	AS5782R(XX)-427	4.747	0.120	0.237
AS5782P(XX)-428	5.349	0.120	0.237	AS5782R(XX)-428	4.872	0.120	0.237
AS5782P(XX)-429	5.474	0.120	0.237	AS5782R(XX)-429	4.997	0.120	0.237
AS5782P(XX)-430	5.599	0.120	0.237	AS5782R(XX)-430	5.122	0.120	0.237
AS5782P(XX)-431	5.724	0.120	0.237	AS5782R(XX)-431	5.247	0.120	0.237
AS5782P(XX)-432	5.849	0.120	0.237	AS5782R(XX)-432	5.372	0.120	0.237
AS5782P(XX)-433	5.974	0.120	0.237	AS5782R(XX)-433	5.497	0.120	0.237
AS5782P(XX)-434	6.099	0.120	0.237	AS5782R(XX)-434	5.622	0.120	0.237

Table 2A - AS5782 backup ring dimensions, in inches (continued)

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.002	T ±0.002	W ±0.001	Part No.	ID ±0.002	T ±0.002	W ±0.001
AS5782P(XX)-435	6.224	0.120	0.237	AS5782R(XX)-435	5.747	0.120	0.237
AS5782P(XX)-436	6.349	0.120	0.237	AS5782R(XX)-436	5.872	0.120	0.237
AS5782P(XX)-437	6.474	0.120	0.237	AS5782R(XX)-437	5.997	0.120	0.237
AS5782P(XX)-438	6.724	0.120	0.237	AS5782R(XX)-438	6.247	0.120	0.237
AS5782P(XX)-439	6.974	0.120	0.237	AS5782R(XX)-439	6.497	0.120	0.237
AS5782P(XX)-440	7.224	0.120	0.237	AS5782R(XX)-440	6.747	0.120	0.237
AS5782P(XX)-441	7.474	0.120	0.237	AS5782R(XX)-441	6.997	0.120	0.237
AS5782P(XX)-442	7.724	0.120	0.237	AS5782R(XX)-442	7.247	0.120	0.237
AS5782P(XX)-443	7.974	0.120	0.237	AS5782R(XX)-443	7.497	0.120	0.237
AS5782P(XX)-444	8.224	0.120	0.237	AS5782R(XX)-444	7.747	0.120	0.237
AS5782P(XX)-445	8.474	0.120	0.237	AS5782R(XX)-445	7.997	0.120	0.237
	OD ±0.003				ID ±0.003		
AS5782P(XX)-446	8.974	0.120	0.237	AS5782R(XX)-446	8.497	0.120	0.237
AS5782P(XX)-447	9.474	0.120	0.237	AS5782R(XX)-447	8.997	0.120	0.237
AS5782P(XX)-448	9.974	0.120	0.237	AS5782R(XX)-448	9.497	0.120	0.237
AS5782P(XX)-449	10.474	0.120	0.237	AS5782R(XX)-449	9.997	0.120	0.237
AS5782P(XX)-450	10.974	0.120	0.237	AS5782R(XX)-450	10.497	0.120	0.237
	OD ±0.004				ID ±0.004		
AS5782P(XX)-451	11.474	0.120	0.237	AS5782R(XX)-451	10.997	0.120	0.237
AS5782P(XX)-452	11.974	0.120	0.237	AS5782R(XX)-452	11.497	0.120	0.237
AS5782P(XX)-453	12.474	0.120	0.237	AS5782R(XX)-453	11.997	0.120	0.237
AS5782P(XX)-454	12.974	0.120	0.237	AS5782R(XX)-454	12.497	0.120	0.237
AS5782P(XX)-455	13.474	0.120	0.237	AS5782R(XX)-455	12.997	0.120	0.237
	OD ±0.005				ID ±0.005		
AS5782P(XX)-456	13.974	0.120	0.237	AS5782R(XX)-456	13.497	0.120	0.237
AS5782P(XX)-457	14.474	0.120	0.237	AS5782R(XX)-457	13.997	0.120	0.237
AS5782P(XX)-458	14.974	0.120	0.237	AS5782R(XX)-458	14.497	0.120	0.237
AS5782P(XX)-459	15.474	0.120	0.237	AS5782R(XX)-459	14.997	0.120	0.237
AS5782P(XX)-460	15.974	0.120	0.237	AS5782R(XX)-460	15.497	0.120	0.237

Table 2B - AS5782 backup ring dimensions, in millimeters

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.03	T ±0.05	W ±0.03	Part No.	ID ±0.03	T ±0.05	W ±0.03
AS5782P(XX)-004	4.83	1.32	1.42	AS5782R(XX)-004	1.93	1.32	1.42
AS5782P(XX)-005	5.61	1.32	1.32	AS5782R(XX)-005	2.74	1.32	1.35
AS5782P(XX)-006	5.97	1.32	1.32	AS5782R(XX)-006	3.12	1.32	1.37
AS5782P(XX)-007	6.76	1.32	1.35	AS5782R(XX)-007	3.91	1.32	1.37
AS5782P(XX)-008	7.54	1.32	1.35	AS5782R(XX)-008	4.70	1.32	1.35
AS5782P(XX)-009	8.36	1.32	1.37	AS5782R(XX)-009	5.51	1.32	1.37
AS5782P(XX)-010	9.14	1.37	1.37	AS5782R(XX)-010	6.30	1.37	1.37
AS5782P(XX)-011	10.72	1.37	1.37	AS5782R(XX)-011	7.87	1.37	1.37
AS5782P(XX)-012	12.32	1.37	1.37	AS5782R(XX)-012	9.47	1.37	1.37
AS5782P(XX)-013	13.97	1.37	1.35	AS5782R(XX)-013	11.05	1.37	1.37
AS5782P(XX)-014	15.57	1.37	1.37	AS5782R(XX)-014	12.65	1.37	1.37
AS5782P(XX)-015	17.15	1.37	1.37	AS5782R(XX)-015	14.22	1.37	1.37
AS5782P(XX)-016	18.75	1.37	1.37	AS5782R(XX)-016	15.82	1.37	1.37
AS5782P(XX)-017	20.32	1.37	1.37	AS5782R(XX)-017	17.40	1.37	1.37
AS5782P(XX)-018	21.92	1.37	1.37	AS5782R(XX)-018	19.00	1.37	1.37
AS5782P(XX)-019	23.50	1.37	1.37	AS5782R(XX)-019	20.57	1.37	1.37
AS5782P(XX)-020	25.17	1.37	1.37	AS5782R(XX)-020	22.17	1.37	1.37
AS5782P(XX)-021	26.75	1.37	1.37	AS5782R(XX)-021	23.75	1.37	1.37
	OD ±0.05				ID ±0.05		
AS5782P(XX)-022	28.35	1.37	1.37	AS5782R(XX)-022	25.35	1.37	1.37
AS5782P(XX)-023	29.92	1.37	1.37	AS5782R(XX)-023	26.92	1.37	1.37
AS5782P(XX)-024	31.52	1.37	1.37	AS5782R(XX)-024	28.52	1.37	1.37
AS5782P(XX)-025	33.10	1.37	1.37	AS5782R(XX)-025	30.10	1.37	1.37
AS5782P(XX)-026	34.70	1.37	1.37	AS5782R(XX)-026	31.70	1.37	1.37
AS5782P(XX)-027	36.27	1.37	1.37	AS5782R(XX)-027	33.27	1.37	1.37
AS5782P(XX)-028	37.87	1.37	1.37	AS5782R(XX)-028	34.87	1.37	1.37

Table 2B - AS5782 backup ring dimensions, in millimeters (continued)

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.03	T ±0.05	W ±0.03	Part No.	ID ±0.03	T ±0.05	W ±0.03
AS5782P(XX)-104	7.54	1.42	2.13	AS5782R(XX)-104	3.12	1.42	2.16
AS5782P(XX)-105	8.36	1.42	2.16	AS5782R(XX)-105	3.91	1.42	2.16
AS5782P(XX)-106	9.14	1.42	2.18	AS5782R(XX)-106	4.70	1.42	2.18
AS5782P(XX)-107	9.93	1.42	2.21	AS5782R(XX)-107	5.51	1.42	2.18
AS5782P(XX)-108	10.72	1.42	2.21	AS5782R(XX)-108	6.30	1.42	2.18
AS5782P(XX)-109	12.32	1.42	2.24	AS5782R(XX)-109	7.87	1.42	2.21
AS5782P(XX)-110	13.97	1.42	2.16	AS5782R(XX)-110	9.47	1.42	2.16
AS5782P(XX)-111	15.57	1.42	2.18	AS5782R(XX)-111	11.05	1.42	2.18
AS5782P(XX)-112	17.15	1.42	2.16	AS5782R(XX)-112	12.65	1.42	2.18
AS5782P(XX)-113	18.75	1.42	2.16	AS5782R(XX)-113	14.22	1.42	2.18
AS5782P(XX)-114	20.32	1.42	2.16	AS5782R(XX)-114	15.82	1.42	2.18
AS5782P(XX)-115	21.92	1.42	2.18	AS5782R(XX)-115	17.40	1.42	2.18
AS5782P(XX)-116	23.50	1.42	2.18	AS5782R(XX)-116	19.00	1.42	2.18
AS5782P(XX)-117	25.17	1.42	2.18	AS5782R(XX)-117	20.57	1.42	2.18
AS5782P(XX)-118	26.75	1.42	2.18	AS5782R(XX)-118	22.17	1.42	2.18
AS5782P(XX)-119	28.35	1.42	2.18	AS5782R(XX)-119	23.75	1.42	2.18
AS5782P(XX)-120	29.92	1.42	2.18				
	OD ±0.05				ID ±0.05		
AS5782P(XX)-121	31.52	1.42	2.18	AS5782R(XX)-120	25.35	1.42	2.18
AS5782P(XX)-122	33.10	1.42	2.18	AS5782R(XX)-121	26.92	1.42	2.18
AS5782P(XX)-123	34.70	1.42	2.18	AS5782R(XX)-122	28.52	1.42	2.18
AS5782P(XX)-124	36.27	1.42	2.18	AS5782R(XX)-123	30.10	1.42	2.18
AS5782P(XX)-125	37.87	1.42	2.18	AS5782R(XX)-124	31.70	1.42	2.18
AS5782P(XX)-126	39.45	1.42	2.18	AS5782R(XX)-125	33.27	1.42	2.18
AS5782P(XX)-127	41.05	1.42	2.18	AS5782R(XX)-126	34.87	1.42	2.18
AS5782P(XX)-128	42.62	1.42	2.18	AS5782R(XX)-127	36.45	1.42	2.18
AS5782P(XX)-129	44.22	1.42	2.18	AS5782R(XX)-128	38.05	1.42	2.18
AS5782P(XX)-130	45.85	1.42	2.18	AS5782R(XX)-129	39.62	1.42	2.18
AS5782P(XX)-131	47.42	1.42	2.18	AS5782R(XX)-130	41.22	1.42	2.18
AS5782P(XX)-132	49.02	1.42	2.18	AS5782R(XX)-131	42.80	1.42	2.18
AS5782P(XX)-133	50.60	1.42	2.18	AS5782R(XX)-132	44.40	1.42	2.18
AS5782P(XX)-134	52.20	1.42	2.18	AS5782R(XX)-133	45.97	1.42	2.18
				AS5782R(XX)-134	47.57	1.42	2.18

Table 2B - AS5782 backup ring dimensions, in millimeters (continued)

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.05	T ±0.05	W ±0.03	Part No.	ID ±0.05	T ±0.05	W ±0.03
AS5782P(XX)-135	53.80	1.42	2.18	AS5782R(XX)-135	49.17	1.42	2.18
AS5782P(XX)-136	55.37	1.42	2.18	AS5782R(XX)-136	50.75	1.42	2.18
AS5782P(XX)-137	56.97	1.42	2.18	AS5782R(XX)-137	52.35	1.42	2.18
AS5782P(XX)-138	58.55	1.42	2.18	AS5782R(XX)-138	53.92	1.42	2.18
AS5782P(XX)-139	60.15	1.42	2.18	AS5782R(XX)-139	55.52	1.42	2.18
AS5782P(XX)-140	61.72	1.42	2.18	AS5782R(XX)-140	57.10	1.42	2.18
AS5782P(XX)-141	63.32	1.42	2.18	AS5782R(XX)-141	58.70	1.42	2.18
AS5782P(XX)-142	64.90	1.42	2.18	AS5782R(XX)-142	60.27	1.42	2.18
AS5782P(XX)-143	66.50	1.42	2.18	AS5782R(XX)-143	61.87	1.42	2.18
AS5782P(XX)-144	68.07	1.42	2.18	AS5782R(XX)-144	63.45	1.42	2.18
AS5782P(XX)-145	69.67	1.42	2.18	AS5782R(XX)-145	65.05	1.42	2.18
AS5782P(XX)-146	71.25	1.42	2.18	AS5782R(XX)-146	66.62	1.42	2.18
AS5782P(XX)-147	72.85	1.42	2.18	AS5782R(XX)-147	68.22	1.42	2.18
AS5782P(XX)-148	74.42	1.42	2.18	AS5782R(XX)-148	69.80	1.42	2.18
AS5782P(XX)-149	76.02	1.42	2.18	AS5782R(XX)-149	71.40	1.42	2.18
	OD ±0.03				ID ±0.03		
AS5782P(XX)-210	25.17	1.58	3.05	AS5782R(XX)-210	19.00	1.58	3.05
AS5782P(XX)-211	26.75	1.58	3.05	AS5782R(XX)-211	20.57	1.58	3.05
AS5782P(XX)-212	28.35	1.58	3.05	AS5782R(XX)-212	22.17	1.58	3.05
AS5782P(XX)-213	29.92	1.58	3.05	AS5782R(XX)-213	23.75	1.58	3.05
	OD ±0.05				ID ±0.05		
AS5782P(XX)-214	31.52	1.58	3.05	AS5782R(XX)-214	25.35	1.58	3.05
AS5782P(XX)-215	33.10	1.58	3.05	AS5782R(XX)-215	26.92	1.58	3.05
AS5782P(XX)-216	34.70	1.58	3.05	AS5782R(XX)-216	28.52	1.58	3.05
AS5782P(XX)-217	36.27	1.58	3.05	AS5782R(XX)-217	30.10	1.58	3.05
AS5782P(XX)-218	37.87	1.58	3.05	AS5782R(XX)-218	31.70	1.58	3.05
AS5782P(XX)-219	39.45	1.58	3.05	AS5782R(XX)-219	33.27	1.58	3.05
AS5782P(XX)-220	41.05	1.58	3.05	AS5782R(XX)-220	34.87	1.58	3.05
AS5782P(XX)-221	42.62	1.58	3.05	AS5782R(XX)-221	36.45	1.58	3.05
AS5782P(XX)-222	44.22	1.58	3.05	AS5782R(XX)-222	38.05	1.58	3.05
AS5782P(XX)-223	45.82	1.58	3.05	AS5782R(XX)-223	39.65	1.58	3.05

Table 2B - AS5782 backup ring dimensions, in millimeters (continued)

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.05	T ±0.05	W ±0.03	Part No.	ID ±0.051	T ±0.051	W ±0.025
AS5782P(XX)-224	50.60	1.58	3.05	AS5782R(XX)-224	44.40	1.58	3.05
AS5782P(XX)-225	53.80	1.58	3.05	AS5782R(XX)-225	47.57	1.58	3.05
AS5782P(XX)-226	56.97	1.58	3.05	AS5782R(XX)-226	50.75	1.58	3.05
AS5782P(XX)-227	60.15	1.58	3.05	AS5782R(XX)-227	53.92	1.58	3.05
AS5782P(XX)-228	63.32	1.58	3.05	AS5782R(XX)-228	57.10	1.58	3.05
AS5782P(XX)-229	66.50	1.58	3.05	AS5782R(XX)-229	60.27	1.58	3.05
AS5782P(XX)-230	69.67	1.58	3.05	AS5782R(XX)-230	63.45	1.58	3.05
AS5782P(XX)-231	72.85	1.58	3.05	AS5782R(XX)-231	66.62	1.58	3.05
AS5782P(XX)-232	76.02	1.58	3.05	AS5782R(XX)-232	69.80	1.58	3.05
AS5782P(XX)-233	79.20	1.58	3.05	AS5782R(XX)-233	72.97	1.58	3.05
AS5782P(XX)-234	82.37	1.58	3.05	AS5782R(XX)-234	76.12	1.58	3.05
AS5782P(XX)-235	85.55	1.58	3.05	AS5782R(XX)-235	79.30	1.58	3.05
AS5782P(XX)-236	88.72	1.58	3.05	AS5782R(XX)-236	82.47	1.58	3.05
AS5782P(XX)-237	91.90	1.58	3.05	AS5782R(XX)-237	85.65	1.58	3.05
AS5782P(XX)-238	95.07	1.58	3.05	AS5782R(XX)-238	88.82	1.58	3.05
AS5782P(XX)-239	98.25	1.58	3.05	AS5782R(XX)-239	92.00	1.58	3.05
AS5782P(XX)-240	101.42	1.58	3.05	AS5782R(XX)-240	95.17	1.58	3.05
AS5782P(XX)-241	104.60	1.58	3.05	AS5782R(XX)-241	98.35	1.58	3.05
AS5782P(XX)-242	107.77	1.58	3.05	AS5782R(XX)-242	101.52	1.58	3.05
AS5782P(XX)-243	110.95	1.58	3.05	AS5782R(XX)-243	104.70	1.58	3.05
AS5782P(XX)-244	114.12	1.58	3.05	AS5782R(XX)-244	107.87	1.58	3.05
AS5782P(XX)-245	117.30	1.58	3.05	AS5782R(XX)-245	111.05	1.58	3.05
AS5782P(XX)-246	120.47	1.58	3.05	AS5782R(XX)-246	114.22	1.58	3.05
AS5782P(XX)-247	123.65	1.58	3.05	AS5782R(XX)-247	117.40	1.58	3.05
AS5782P(XX)-325	47.42	2.24	4.70	AS5782R(XX)-325	38.05	2.24	4.70
AS5782P(XX)-326	50.60	2.24	4.70	AS5782R(XX)-326	41.22	2.24	4.70
AS5782P(XX)-327	53.80	2.24	4.70	AS5782R(XX)-327	44.40	2.24	4.70
AS5782P(XX)-328	56.97	2.24	4.70	AS5782R(XX)-328	47.57	2.24	4.70
AS5782P(XX)-329	60.15	2.24	4.70	AS5782R(XX)-329	50.75	2.24	4.70

Table 2B - AS5782 backup ring dimensions, in millimeters (continued)

Male (Piston) Applications				Female (Rod) Applications			
Part No.	OD ±0.05	T ±0.05	W ±0.03	Part No.	ID ±0.05	T ±0.05	W ±0.03
AS5782P(XX)-330	63.32	2.24	4.70	AS5782R(XX)-330	53.92	2.24	4.70
AS5782P(XX)-331	66.50	2.24	4.70	AS5782R(XX)-331	57.10	2.24	4.70
AS5782P(XX)-332	69.67	2.24	4.70	AS5782R(XX)-332	60.27	2.24	4.70
AS5782P(XX)-333	72.85	2.24	4.70	AS5782R(XX)-333	63.45	2.24	4.70
AS5782P(XX)-334	76.02	2.24	4.70	AS5782R(XX)-334	66.62	2.24	4.70
AS5782P(XX)-335	79.20	2.24	4.70	AS5782R(XX)-335	69.80	2.24	4.70
AS5782P(XX)-336	82.37	2.24	4.70	AS5782R(XX)-336	72.97	2.24	4.70
AS5782P(XX)-337	85.55	2.24	4.70	AS5782R(XX)-337	76.12	2.24	4.70
AS5782P(XX)-338	88.72	2.24	4.70	AS5782R(XX)-338	79.30	2.24	4.70
AS5782P(XX)-339	91.90	2.24	4.70	AS5782R(XX)-339	82.47	2.24	4.70
AS5782P(XX)-340	95.07	2.24	4.70	AS5782R(XX)-340	85.65	2.24	4.70
AS5782P(XX)-341	98.25	2.24	4.70	AS5782R(XX)-341	88.82	2.24	4.70
AS5782P(XX)-342	101.42	2.24	4.70	AS5782R(XX)-342	92.00	2.24	4.70
AS5782P(XX)-343	104.60	2.24	4.70	AS5782R(XX)-343	95.17	2.24	4.70
AS5782P(XX)-344	107.77	2.24	4.70	AS5782R(XX)-344	98.35	2.24	4.70
AS5782P(XX)-345	110.95	2.24	4.70	AS5782R(XX)-345	101.52	2.24	4.70
AS5782P(XX)-346	114.12	2.24	4.70	AS5782R(XX)-346	104.70	2.24	4.70
AS5782P(XX)-347	117.30	2.24	4.70	AS5782R(XX)-347	107.87	2.24	4.70
AS5782P(XX)-348	120.47	2.24	4.70	AS5782R(XX)-348	111.05	2.24	4.70
AS5782P(XX)-349	123.65	2.24	4.70	AS5782R(XX)-349	114.22	2.24	4.70
AS5782P(XX)-425	126.34	3.05	6.02	AS5782R(XX)-425	114.22	3.05	6.02
AS5782P(XX)-426	129.52	3.05	6.02	AS5782R(XX)-426	117.40	3.05	6.02
AS5782P(XX)-427	132.69	3.05	6.02	AS5782R(XX)-427	120.57	3.05	6.02
AS5782P(XX)-428	135.87	3.05	6.02	AS5782R(XX)-428	123.75	3.05	6.02
AS5782P(XX)-429	139.04	3.05	6.02	AS5782R(XX)-429	126.92	3.05	6.02
AS5782P(XX)-430	142.22	3.05	6.02	AS5782R(XX)-430	130.10	3.05	6.02
AS5782P(XX)-431	145.39	3.05	6.02	AS5782R(XX)-431	133.27	3.05	6.02
AS5782P(XX)-432	148.57	3.05	6.02	AS5782R(XX)-432	136.45	3.05	6.02
AS5782P(XX)-433	151.74	3.05	6.02	AS5782R(XX)-433	139.62	3.05	6.02
AS5782P(XX)-434	154.92	3.05	6.02	AS5782R(XX)-434	142.80	3.05	6.02