

| New Type | Old Type | Dimension (mm) | | | | | | Reference Dimension (mm) | | | | | |
|----------------|----------|----------------|----|------|------------|-----------|------------|--------------------------|-----|-----|-----|-----|-----|
| | | D | H | d | 2 α | 2 β | 2 γ | h | h1 | h2 | R | e | E |
| A-0100812-0.30 | A10-0.30 | 10 | 8 | 0.30 | 12° | 90° | 90° | ≤0.1 | 1.6 | 3.7 | 5.0 | 1.0 | 45° |
| A-0100812-0.35 | A10-0.35 | 10 | 8 | 0.35 | 12° | 90° | 90° | ≤0.1 | 1.6 | 3.7 | 5.0 | 1.0 | 45° |
| A-0100812-0.40 | A10-0.4 | 10 | 8 | 0.40 | 12° | 90° | 90° | ≤0.1 | 1.6 | 3.7 | 5.0 | 1.0 | 45° |
| A-0100812-0.60 | A10-0.6 | 10 | 8 | 0.6 | 12° | 90° | 90° | 0.5 | 1.6 | 3.5 | — | 0.5 | 45° |
| A-0100812-0.80 | A10-0.8 | 10 | 8 | 0.8 | 12° | 90° | 90° | 0.6 | 1.6 | 3.5 | — | 0.5 | 45° |
| A-0100812-1.0 | A10-1.0 | 10 | 8 | 1.0 | 12° | 90° | 90° | 0.6 | 1.6 | 3.5 | — | 0.5 | 45° |
| A-0100816-0.4D | | 10 | 8 | 0.4 | 16 | 60 | 90 | 0.6 | 1.6 | 2.5 | 2.5 | 1 | 45° |
| A-0100816-0.6D | | 10 | 8 | 0.6 | 16 | 60 | 90 | 0.6 | 1.6 | 2.5 | 2.5 | 1 | 45° |
| A-0100816-1.0D | | 10 | 8 | 1.0 | 16 | 60 | 90 | 0.6 | 1.6 | 2.5 | 2.5 | 1 | 45° |
| A-0121012-0.20 | A12-0.2 | 12 | 10 | 0.20 | 12° | 90° | 90° | ≤0.1 | 1.2 | 2.9 | 6.5 | 1.2 | 15° |
| A-0121012-0.25 | A12-0.25 | 12 | 10 | 0.25 | 12° | 90° | 90° | ≤0.1 | 1.2 | 2.9 | 6.5 | 1.2 | 15° |
| A-0121012-0.30 | A12-0.3 | 12 | 10 | 0.30 | 12° | 90° | 90° | ≤0.1 | 1.2 | 2.9 | 6.5 | 1.2 | 15° |
| A-0121012-0.35 | A12-0.35 | 12 | 10 | 0.35 | 12° | 90° | 90° | ≤0.1 | 1.2 | 2.9 | 6.5 | 1.2 | 15° |
| A-0121012-0.40 | A12-0.4 | 12 | 10 | 0.40 | 12° | 90° | 90° | 0.4 | 2.0 | 5.0 | — | 1.0 | 45° |
| A-0121012-0.60 | A12-0.6 | 12 | 10 | 0.60 | 12° | 90° | 90° | 0.5 | 2.0 | 5.0 | — | 1.0 | 45° |
| A-0121012-0.80 | A12-0.8 | 12 | 10 | 0.80 | 12° | 90° | 90° | 0.6 | 2.0 | 5.0 | — | 1.0 | 45° |
| A-0121012-1.0 | A12-1.0 | 12 | 10 | 1.0 | 12° | 90° | 90° | 0.7 | 1.8 | 4.8 | — | 1.0 | 45° |
| A-0121012-1.4 | A12-1.4 | 12 | 10 | 1.4 | 12° | 90° | 90° | 1.0 | 1.8 | 4.8 | — | 1.0 | 45° |
| A-0121012-1.6 | A12-1.6 | 12 | 10 | 1.6 | 12° | 90° | 90° | 1.1 | 1.8 | 4.8 | — | 1.0 | 45° |
| A-0121012-1.8 | A12-1.8 | 12 | 10 | 1.8 | 12° | 90° | 90° | 1.2 | 1.8 | 4.8 | — | 1.0 | 45° |
| A-0141212-0.40 | A14-0.4 | 14 | 12 | 0.4 | 12° | 60° | 75° | 0.4 | 2.0 | 5.0 | — | 1.0 | 45° |
| A-0141212-0.60 | A14-0.6 | 14 | 12 | 0.6 | 12° | 60° | 75° | 0.5 | 2.0 | 5.0 | — | 1.0 | 45° |
| A-0141212-0.80 | A14-0.8 | 14 | 12 | 0.8 | 12° | 60° | 75° | 0.6 | 2.0 | 5.0 | — | 1.0 | 45° |
| A-0141212-1.0 | A14-1.0 | 14 | 12 | 1.0 | 12° | 60° | 75° | 0.7 | 2.0 | 5.0 | — | 1.0 | 45° |
| A-0141212-1.3 | A14-1.3 | 14 | 12 | 1.3 | 12° | 60° | 75° | 1.0 | 2.0 | 5.0 | — | 1.0 | 45° |
| A-0141212-1.8 | A14-1.8 | 14 | 12 | 1.8 | 12° | 60° | 75° | 1.2 | 2.0 | 5.0 | — | 1.0 | 45° |
| A-0141214-2.3 | A14-2.3 | 14 | 12 | 2.3 | 14° | 60° | 75° | 1.3 | 2.0 | 5.0 | — | 1.0 | 45° |
| A-0161312-0.6 | A16-0.6 | 16 | 13 | 0.6 | 12° | 60° | 75° | 0.5 | 2.5 | 4.5 | — | 1.0 | 45° |
| A-0161312-0.8 | A16-0.8 | 16 | 13 | 0.8 | 12° | 60° | 75° | 0.6 | 2.5 | 4.5 | — | 1.0 | 45° |
| A-0161312-1.0 | A16-1.0 | 16 | 13 | 1.0 | 12° | 60° | 75° | 0.7 | 2.5 | 4.5 | — | 1.0 | 45° |
| A-0161312-1.4 | A16-1.4 | 16 | 13 | 1.4 | 12° | 60° | 75° | 1.0 | 2.5 | 4.5 | — | 1.0 | 45° |
| A-0161312-1.8 | A16-1.8 | 16 | 13 | 1.8 | 12° | 60° | 75° | 1.2 | 2.5 | 4.0 | — | 1.0 | 45° |
| A-0161314-2.2 | A16-2.2 | 16 | 13 | 2.2 | 14° | 60° | 75° | 1.3 | 2.5 | 4.0 | — | 1.0 | 45° |
| A-0161314-2.4 | A16-2.4 | 16 | 13 | 2.4 | 14° | 60° | 75° | 1.3 | 2.5 | 4.0 | — | 1.0 | 45° |
| A-0161314-2.6 | A16-2.4 | 16 | 13 | 2.6 | 14° | 60° | 75° | 1.3 | 2.5 | 4.0 | — | 1.0 | 45° |
| A-0161314-3.0 | A16-3.0 | 16 | 13 | 3.0 | 14° | 60° | 75° | 1.4 | 2.5 | 4.0 | — | 1.0 | 45° |
| A-0201712-1.0 | A20-1.0 | 20 | 17 | 1.0 | 12° | 60° | 60° | 0.7 | 3.0 | 8.0 | — | 1.2 | 45° |
| A-0201712-1.3 | A20-1.3 | 20 | 17 | 1.3 | 12° | 60° | 60° | 1.0 | 3.0 | 8.0 | — | 1.2 | 45° |
| A-0201714-2.0 | A20-2.0 | 20 | 17 | 2.0 | 14° | 60° | 60° | 1.3 | 3.0 | 7.0 | — | 1.2 | 45° |
| A-0201714-2.2 | A20-2.2 | 20 | 17 | 2.2 | 14° | 60° | 60° | 1.3 | 3.0 | 7.0 | — | 1.2 | 45° |
| A-0201714-2.3 | A20-2.3 | 20 | 17 | 2.3 | 14° | 60° | 60° | 1.3 | 3.0 | 7.0 | — | 1.2 | 45° |

| | | | | | | | | | | | | | |
|---------------|---------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| A-0201714-2.8 | A20-2.8 | 20 | 17 | 2.8 | 14° | 60° | 60° | 1.4 | 3.0 | 7.0 | — | 1.2 | 45° |
| A-0201714-3.3 | A20-3.3 | 20 | 17 | 3.3 | 14° | 60° | 60° | 1.6 | 3.0 | 7.0 | — | 1.2 | 45° |
| A-0201714-3.8 | A20-3.8 | 20 | 17 | 3.8 | 14° | 60° | 60° | 1.9 | 3.0 | 7.0 | — | 1.2 | 45° |
| A-0201714-4.2 | A20-4.2 | 20 | 17 | 4.2 | 14° | 60° | 60° | 1.9 | 3.0 | 7.0 | — | 1.2 | 45° |
| A-0201714-4.7 | A20-4.7 | 20 | 17 | 4.7 | 14° | 60° | 60° | 1.9 | 3.0 | 7.0 | — | 1.2 | 45° |
| A-0201714-4.8 | A20-4.8 | 20 | 17 | 4.8 | 14° | 60° | 60° | 2.0 | 3.0 | 7.0 | — | 1.2 | 45° |
| A-0252014-2.3 | A25-2.3 | 25 | 20 | 2.3 | 14° | 60° | 60° | 1.3 | 4.0 | 8.5 | — | 1.2 | 45° |
| A-0252014-2.8 | A25-2.8 | 25 | 20 | 2.8 | 14° | 60° | 60° | 1.4 | 4.0 | 8.5 | — | 1.2 | 45° |
| A-0252014-3.3 | A25-3.3 | 25 | 20 | 3.3 | 14° | 60° | 60° | 1.6 | 4.0 | 8.5 | — | 1.2 | 45° |
| A-0252014-3.8 | A25-3.8 | 25 | 20 | 3.8 | 14° | 60° | 60° | 1.9 | 4.0 | 8.0 | — | 1.2 | 45° |
| A-0252014-4.2 | A25-4.2 | 25 | 20 | 4.2 | 14° | 60° | 60° | 1.9 | 4.0 | 8.0 | — | 1.2 | 45° |
| A-0252016-4.7 | A25-4.7 | 25 | 20 | 4.7 | 16° | 60° | 60° | 1.9 | 4.0 | 8.0 | — | 1.2 | 45° |
| A-0252016-4.8 | A25-4.8 | 25 | 20 | 4.8 | 16° | 60° | 60° | 1.9 | 4.0 | 8.0 | — | 1.2 | 45° |
| A-0252016-5.2 | A25-5.2 | 25 | 20 | 5.2 | 16° | 60° | 60° | 1.9 | 4.0 | 8.0 | — | 1.2 | 45° |
| A-0252016-5.5 | A25-5.5 | 25 | 20 | 5.5 | 16° | 60° | 60° | 2.2 | 4.0 | 7.5 | — | 1.2 | 45° |
| A-0252016-5.7 | A25-5.7 | 25 | 20 | 5.7 | 16° | 60° | 60° | 2.4 | 4.0 | 7.5 | — | 1.2 | 45° |
| A-0252016-6.2 | A25-6.2 | 25 | 20 | 6.2 | 16° | 60° | 60° | 2.6 | 4.0 | 7.5 | — | 1.2 | 45° |
| A-0252118-6.5 | A25-6.5 | 25 | 21 | 6.5 | 18° | 60° | 60° | 2.1 | 3.0 | 9.6 | — | 1.2 | 45° |
| A-0252118-7.0 | A25-7.0 | 25 | 21 | 7.0 | 18° | 60° | 60° | 2.5 | 3.0 | 9.6 | — | 1.2 | 45° |
| A-0252118-7.5 | A25-7.0 | 25 | 21 | 7.5 | 18° | 60° | 60° | 2.5 | 3.0 | 9.6 | — | 1.2 | 45° |
| A-0252118-8.5 | A25-8.5 | 25 | 21 | 8.5 | 18° | 60° | 60° | 2.5 | 3.0 | 9.6 | — | 1.2 | 45° |
| A-0292014-6.9 | A29-6.9 | 29 | 20 | 6.9 | 14° | 60° | 60° | 2.5 | 4.0 | 8.0 | — | 1.2 | 45° |
| A-0302416-3.8 | A30-3.8 | 30 | 24 | 3.8 | 16° | 60° | 60° | 2.5 | 5.0 | 8.0 | — | 1.2 | 45° |
| A-0302416-4.2 | A30-4.2 | 30 | 24 | 4.2 | 16° | 60° | 60° | 2.5 | 5.0 | 8.0 | — | 1.2 | 45° |
| A-0302416-4.7 | A30-4.7 | 30 | 24 | 4.7 | 16° | 60° | 60° | 2.5 | 4.0 | 8.0 | — | 1.2 | 45° |
| A-0302416-5.2 | A30-5.2 | 30 | 24 | 5.2 | 16° | 60° | 60° | 2.5 | 4.0 | 8.0 | — | 1.2 | 45° |
| A-0302416-5.5 | A30-5.5 | 30 | 24 | 5.5 | 16° | 60° | 60° | 2.5 | 3.0 | 8.0 | 5.0 | 1.2 | 45° |
| A-0302416-5.7 | A30-5.7 | 30 | 24 | 5.7 | 16° | 60° | 60° | 2.6 | 5.0 | 8.0 | — | 1.2 | 45° |
| A-0302416-6.2 | A30-6.2 | 30 | 24 | 6.2 | 16° | 60° | 60° | 2.6 | 5.0 | 8.0 | 5.0 | 1.2 | 45° |
| A-0302416-6.5 | A30-6.5 | 30 | 24 | 6.5 | 16° | 60° | 60° | 2.5 | 5.0 | 8.0 | — | 1.2 | 45° |
| A-0302416-6.7 | A30-6.7 | 30 | 24 | 6.7 | 16° | 60° | 60° | 2.6 | 5.0 | 8.5 | — | 1.2 | 45° |
| A-0302416-7.7 | A30-7.7 | 30 | 24 | 7.7 | 16° | 60° | 60° | 3.0 | 5.0 | 8.5 | — | 1.2 | 45° |
| A-0302416-8.7 | A30-8.7 | 30 | 24 | 8.7 | 16° | 60° | 60° | 3.3 | 5.0 | 8.5 | — | 1.2 | 45° |
| A-0302416-9.0 | A30-9.0 | 30 | 24 | 9.0 | 16° | 60° | 60° | 3.5 | 3.0 | 8.5 | 5.0 | 1.2 | 45° |
| A-0302416-9.7 | A30-9.7 | 30 | 24 | 9.7 | 16° | 60° | 60° | 3.5 | 3.0 | 8.0 | — | 1.2 | 45° |