

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

| | |
|----------------------------|---|
| Manufacturer | Starline SpA |
| Address | via dei Livelli di Sopra 11, Costa di Mezzate, 24060 Costa di Mezzate BG, Italy |
| Place of Production | Starline SpA via dei Livelli di Sopra 11, Costa di Mezzate, 24060 Costa di Mezzate BG, Italy |
| Type | Ball Valves |
| Description | Standard ball valves |
| Trade Name | STARLINE |
| Application | Marine, Offshore, and Industrial piping system |
| Specified Standard | Lloyd's Register's Rules and Regulations for the Classification of Ships LR rules and Regulations for the Classification of Mobile Offshore Units LR Rules and Regulations for the Classification of Fixed Offshore Installations ISO 17292 ASME B16.34 |

Type Approval Certificate

Ratings

| | |
|-------------------------------|--|
| Sizes (inch): | ½ to 2 |
| Pressure Rating (ANSI Class): | 150 to 800 |
| (PN): | 16 to 100 |
| Temperature range (°C): | -55 to +260 (Depending on materials) |
| Material specifications: | See the manufacturer's product catalogue |

Other Conditions

1. Valves are to be selected, installed and tested in accordance with the manufacturer's recommendations and Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12.
2. Valves are to be suitable for the internal fluid and external environment, intended for submerged installation are to be suitable for both internal and external media.
3. Material impact test and wed-non-destructive tests are to be carried out in accordance with the LR Rules for Materials.
4. Due care should be taken not to over stress the fittings when tightening the bolts.
5. Valves are not to be used in systems where fire resistance capability is required.
6. The valves are to be marked with the following information:
 - Manufacturer's name or trademark
 - Designation type reference.
 - Pressure rating
 - Temperature range
 - Size

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No.LR2201029TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

| | |
|----------------------------|---|
| Manufacturer | Starline SpA |
| Address | via dei Livelli di Sopra 11, Costa di Mezzate, 24060 Costa di Mezzate BG, Italy |
| Place of Production | Starline SpA via dei Livelli di Sopra 11, Costa di Mezzate, 24060 Costa di Mezzate BG, Italy |
| Type | Ball Valves |
| Description | Super star ball valves |
| Trade Name | STARLINE |
| Application | Marine,Offshore, and Industrial piping system |
| Specified Standard | Lloyd's Register's Rules and Regulations for the Classification of Ships LR rules and Regulations for the Classification of Mobile Offshore Units LR Rules and Regulations for the Classification of Fixed Offshore Installations API 607 4th Edition, API 6D & API 6FA ISO 17292, EN 12266 & EN 1092-1 ASME B16.5, ASME B 16.10 & ASME B16.34 |

Type Approval Certificate

Ratings

| | |
|-------------------------------|--|
| Sizes (inch): | ½ to 4 |
| Pressure Rating (ANSI Class): | 150 to 900 |
| (PN): | 16 to 150 |
| Temperature range (°C): | -55 to +260 (Depending on materials) |
| Material specifications: | See the manufacturer's product catalogue |

Other Conditions

1. Valves are to be selected, installed and tested in accordance with the manufacturer's recommendations and Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12.
2. Valves are to be suitable for the internal fluid and external environment, intended for submerged installation are to be suitable for both internal and external media.
3. Material impact test and wed-non-destructive tests are to be carried out in accordance with the LR Rules for Materials.
4. Due care should be taken not to over stress the fittings when tightening the bolts
5. The valves are to be marked with the following information:
 - Manufacturer's name or trademark
 - Designation type reference.
 - Pressure rating
 - Temperature range
 - Size

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No.LR2201032TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

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|----------------------------|---|
| Manufacturer | Starline SpA |
| Address | via dei Livelli di Sopra 11, Costa di Mezzate, 24060 Costa di Mezzate BG, Italy |
| Place of Production | Starline SpA via dei Livelli di Sopra 11, Costa di Mezzate, 24060 Costa di Mezzate BG, Italy |
| Type | Ball Valves |
| Description | Master star ball valves |
| Trade Name | STARLINE |
| Application | Marine,Offshore, and Industrial piping system |
| Specified Standard | Lloyd's Register's Rules and Regulations for the Classification of Ships LR rules and Regulations for the Classification of Mobile Offshore Units LR Rules and Regulations for the Classification of Fixed Offshore Installations API 607 4th Edition, API 6D & API 6FA ISO 17292, EN 12266 & EN 1092-1 ASME B16.5, ASME B 16.10 & ASME B16.34 |

Type Approval Certificate

Ratings

| | |
|-------------------------------|--|
| Sizes (inch): | ½ to 2 |
| Pressure Rating (ANSI Class): | 150 to 800 |
| (PN): | 16 to 100 |
| Temperature range (°C): | -55 to +260 (Depending on materials) |
| Material specifications: | See the manufacturer's product catalogue |

Other Conditions

1. Valves are to be selected, installed and tested in accordance with the manufacturer's recommendations and Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12.
2. Valves are to be suitable for the internal fluid and external environment, intended for submerged installation are to be suitable for both internal and external media.
3. Material impact test and wed-non-destructive tests are to be carried out in accordance with the LR Rules for Materials.
4. Due care should be taken not to over stress the fittings when tightening the bolts.
5. The valves are to be marked with the following information:
 - Manufacturer's name or trademark
 - Designation type reference.
 - Pressure rating
 - Temperature range
 - Size

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No.LR2201034TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Type Approval Certificate

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|----------------------------|---|
| Manufacturer | Starline SpA |
| Address | via dei Livelli di Sopra 11, Costa di Mezzate, 24060 Costa di Mezzate BG, Italy |
| Place of Production | Starline SpA via dei Livelli di Sopra 11, Costa di Mezzate, 24060 Costa di Mezzate BG, Italy |
| Type | Ball Valves |
| Description | Split star ball valves |
| Trade Name | STARLINE |
| Application | Marine, Offshore, and Industrial piping system |
| Specified Standard | Lloyd's Register's Rules and Regulations for the Classification of Ships LR rules and Regulations for the Classification of Mobile Offshore Units LR Rules and Regulations for the Classification of Fixed Offshore Installations API 607 4th Edition, API 6D & API 6FA ISO 17292, EN 12266 & EN 1092-1 ASME B16.5, ASME B 16.10 & ASME B16.34 |

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M.H.M. Rila
Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Type Approval Certificate

Ratings

| | |
|-------------------------------|--|
| Sizes (inch): | ½ to 8 |
| Pressure Rating (ANSI Class): | 150 & 300 |
| (PN): | 16, 25 & 40 |
| Temperature range (°C): | -55 to +260 (Depending on materials) |
| Material specifications: | See the manufacturer's product catalogue |

Other Conditions

1. Valves are to be selected, installed and tested in accordance with the manufacturer's recommendations and Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12.
2. Valves are to be suitable for the internal fluid and external environment, intended for submerged installation are to be suitable for both internal and external media.
3. Material impact test and wed-non-destructive tests are to be carried out in accordance with the LR Rules for Materials.
4. Due care should be taken not to over stress the fittings when tightening the bolts.
5. The valves are to be marked with the following information:
 - Manufacturer's name or trademark
 - Designation type reference.
 - Pressure rating
 - Temperature range
 - Size

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| Manufacturer | Starline SpA |
| Address | via dei Livelli di Sopra 11, Costa di Mezzate, 24060 Costa di Mezzate BG, Italy |
| Place of Production | Starline SpA via dei Livelli di Sopra 11, Costa di Mezzate, 24060 Costa di Mezzate BG, Italy |
| Type | Ball Valves |
| Description | Multiport ball valves |
| Trade Name | STARLINE |
| Application | Marine,Offshore, and Industrial piping system |
| Specified Standard | Lloyd's Register's Rules and Regulations for the Classification of Ships LR rules and Regulations for the Classification of Mobile Offshore Units LR Rules and Regulations for the Classification of Fixed Offshore Installations EN 12266 & EN 1092-1 ASME B16.34 |

Type Approval Certificate

Ratings

| | |
|-------------------------------|--|
| Sizes (inch): | ½ to 3 |
| Pressure Rating (ANSI Class): | 150 to 600 |
| (PN): | 16 to 100 |
| Temperature range (°C): | -55 to +260 (Depending on materials) |
| Material specifications: | See the manufacturer's product catalogue |

Other Conditions

1. Valves are to be selected, installed and tested in accordance with the manufacturer's recommendations and Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12.
2. Valves are to be suitable for the internal fluid and external environment, intended for submerged installation are to be suitable for both internal and external media.
3. Material impact test and wed-non-destructive tests are to be carried out in accordance with the LR Rules for Materials.
4. Due care should be taken not to over stress the fittings when tightening the bolts.
5. Valves are not to be used in systems where fire resistance capability is required.
6. The valves are to be marked with the following information:
 - Manufacturer's name or trademark
 - Designation type reference.
 - Pressure rating
 - Temperature range
 - Size

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No.LR2201048TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.