

Type Approval Certificate Extension

This is to certify that Certificate No. 01/00095(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Starline S.p.A.		
PLACE OF PRODUCTION	Via Dei Livelli Di Sopra 11 24060 Costa Di Mezzate (BG) Italy		
DESCRIPTION	Ball Valve		
TYPE	Super Star		
APPLICATION	Marine, Offshore and Industrial piping systems.		
SPECIFIED STANDARDS	LR 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 4 th Edition ISO 17292 ASME B16.5	API 6D EN 12266 ASME B 16.10	API 6FA EN 1092-1 ASME B16.34
RATINGS	Sizes (inch) Pressure Rating (ANSI Class): (PN): Temperature range (°C):	½ to 4 150 to 900 16, to 150 -55 to +260	
Certificate No.	01/00095(E2)		
Issue Date	15 November 2012		
Expiry Date	7 June 2016		
Sheet	1 of 2		



W.H. Chan
London Design Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

"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 attached Design Appraisal Document No. 01/00095(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 01/00095(E1) to which this extension should be attached.

Certificate No.	01/00095(E2)
Issue Date	15 November 2012
Expiry Date	7 June 2016
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W.H. Chan
London Design Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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Document number 01/00095(E2)
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 15 November 2012	Quote this reference on all future communications LDSO/ENG/WHC/WP10694944/W03015298
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.**Issued to: STARLINE S.P.A.****for: BALL VALVES, TYPE SUPER STAR****TYPE APPROVAL CERTIFICATE No. 01/00095(E2)**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

ADDITIONAL APPROVAL DOCUMENTATION

Request Form
LR Milan, visit report, ref MLN 1290838

27-Sep-2011
14-Nov-2012

Previous documentation as listed in Design Appraisal Documents 01/00095 and 01/00095(E1)

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.



Warren Chan
Senior Surveyor
London Design Support Office

Part 1A
Subject: Valves
Product: Ball Valves (Part 1A)

Description of Product				Cert. No.	
Producer/Licence No.	Type	Details of Approval	Application		Remarks
Starline S.p.A., Via Dei Livelli Di Sopra 11, 24060 Costa Di Mezzate (BG), Italy.	Super Star	Fire tested, soft seated ball valves in carbon steel and stainless steel Sizes (inch): ½ to 4 Pressure Rating (ANSI Class): 150 to 900 (PN): 16 to 150 Temperature range (°C): -55 to +260	Marine, Offshore and Industrial piping systems.	Expires: 7 June 2016 Complies with: API 607 4 th Edition API 6D API 6FA ISO 17292 EN 12266 EN 1092-1 ASME B16.5 ASME B 16.10 ASME B16.34	01/00095(E2)



Type Approval Certificate Extension

This is to certify that Certificate No. 01/00096(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Starline S.p.A.		
PLACE OF PRODUCTION	Via Dei Livelli Di Sopra 11 24060 Costa Di Mezzate (BG) Italy		
DESCRIPTION	Ball Valve		
TYPE	Standard		
APPLICATION	Marine, Offshore and Industrial piping systems.		
SPECIFIED STANDARDS	LR 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		
RATINGS	Sizes (inch):		½ to 2
	Pressure Rating	(ANSI Class):	150 to 800
		(PN):	16 to 100
	Temperature range (°C):		-55 to +260

Certificate No.	01/00096(E2)
Issue Date	15 November 2012
Expiry Date	7 June 2016
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W.H. Chan
London Design Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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All other details remain as the previous Certificate No. 01/00096(E1) to which this extension should be attached.

Certificate No.	01/00096(E2)
Issue Date	15 November 2012
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W.H. Chan
London Design Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS



Lloyd's Register EMEA (London Office)

LONDON DESIGN SUPPORT OFFICE

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7709 9166 Fax 020 7488 4796

Email tad@lr.org

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DESIGN APPRAISAL DOCUMENT

Date 15 November 2012	Quote this reference on all future communications LDSO/ENG/WHC/WP10694944/W03015298
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: STARLINE S.P.A.

for: BALL VALVES, STANDARD

TYPE APPROVAL CERTIFICATE No. 01/00096(E2)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

ADDITIONAL APPROVAL DOCUMENTATION

Request Form
LR Milan, visit report, ref MLN 1290838

27-Sep-2011
14-Nov-2012

Previous documentation as listed in Design Appraisal Documents 01/00096 and 01/00096(E1)

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

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Warren Chan
Engineering
London Design Support Office

Part 1A
Subject: Valves
Product: Ball Valves (Part 1A)

Producer/Licence No.	Description of Product			Cert. No.	
	Type	Details of Approval	Application		Remarks
Starline S.p.A., Via Dei Livelli Di Sopra 11, 24060 Costa Di Mezzate (BG), Italy.	Standard	Soft seated ball valves in carbon steel and stainless steel Sizes (inch): ½ to 2 Pressure Rating (ANSI Class): 150 to 800 (PN): 16 to 100 Temperature range (°C): -55 to +260	Marine, Offshore and Industrial piping systems.	Expires: 7 June 2016 Complies with: ISO 17292 ASME B16.34	01/00096(E2)



Type Approval Certificate Extension

This is to certify that Certificate No. 01/00097(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Starline S.p.A.		
PLACE OF PRODUCTION	Via Dei Livelli Di Sopra 11 24060 Costa Di Mezzate (BG) Italy		
DESCRIPTION	Ball Valve		
TYPE	Master Star		
APPLICATION	Marine, Offshore and Industrial piping systems.		
SPECIFIED STANDARDS	LR 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 4 th Edition ISO 17292 ASME B16.5	API 6D EN 12266 ASME B 16.10	API 6FA EN 1092-1 ASME B16.34
RATINGS	Sizes (inch): Pressure Rating (ANSI Class): (PN): Temperature range (°C):	½ to 2 150 to 800 16 to 100 -55 to +260	

Certificate No.	01/00097(E2)
Issue Date	15 November 2012
Expiry Date	7 June 2016
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W.H. Chan
London Design Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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The attached Design Appraisal Document No. 01/00097(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 01/00097(E1) to which this extension should be attached.

Certificate No.	01/00097(E2)
Issue Date	15 November 2012
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W.H. Chan
London Design Support Office
Lloyd's Register EMEA

*Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS*



Lloyd's Register EMEA (London Office)

LONDON DESIGN SUPPORT OFFICE

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7709 9166 Fax 020 7488 4796

Email tad@lr.org

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DESIGN APPRAISAL DOCUMENT

Date 15 November 2012	Quote this reference on all future communications LDSO/ENG/WHC/WP10694944/W03015298
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: STARLINE S.P.A.

for: MASTER STAR

TYPE APPROVAL CERTIFICATE No. 01/00097(E2)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

ADDITIONAL APPROVAL DOCUMENTATION

Request Form
LR Milan, visit report, ref MLN 1290838

27-Sep-2011
14-Nov-1012

Previous documentation as listed in Design Appraisal Documents 01/00097 and 01/00097(E1)

Supplementary Type Approval Terms and Conditions

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Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

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Warren Chan
Engineering
London Design Support Office

Part 1A
Subject: Valves
Product: Ball Valves (Part 1A)

Description of Product				Cert. No.	
Producer/Licence No.	Type	Details of Approval	Application		Remarks
Starline S.p.A., Via Dei Livelli Di Sopra 11, 24060 Costa Di Mezzate (BG), Italy.	Master Star	Fire tested, soft seated ball valves in carbon steel and stainless steel Sizes (inch): ¼ to 2 Pressure Rating (ANSI Class): 150 to 800 (PN): 16 to 100 Temperature range (°C): -55 to +260	Marine, Offshore and Industrial piping systems.	Expires: 7 June 2016 Complies with: API 607 4 th Edition API 6D API 6FA ISO 17292 EN 12266 EN 1092-1 ASME B16.5 ASME B 16.10 ASME B16.34	01/00097(E2)



Type Approval Certificate Extension

This is to certify that Certificate No. 01/00098(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Starline S.p.A.		
PLACE OF PRODUCTION	Via Dei Livelli Di Sopra 11 24060 Costa Di Mezzate (BG) Italy		
DESCRIPTION	Ball Valve		
TYPE	Split Star		
APPLICATION	Marine, Offshore and Industrial piping systems.		
SPECIFIED STANDARDS	LR 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 4 th Edition	API 6D	API 6FA
	ISO 17292	EN 12266	EN 1092-1
	ASME B16.5	ASME B 16.10	ASME B16.34
RATINGS	Sizes (inch):	½ to 8	
	Pressure Rating (ANSI Class):	150 to 300	
	(PN):	16, 25 & 40	
	Temperature range (°C):	-55 to +260	

Certificate No.	01/00098(E2)
Issue Date	15 November 2012
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W.H. Chan
London Design Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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Document number 01/00098(E2)
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 15 November 2012	Quote this reference on all future communications LDSO/ENG/WHC/WP10694944/W03015298
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: STARLINE S.P.A.

for: BALL VALVE, SPLIT STAR

TYPE APPROVAL CERTIFICATE No. 01/00098(E2)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register

ADDITIONAL APPROVAL DOCUMENTATION

Request Form
LR Milan, visit report, ref MLN 1290838

27-Sep-2011
14-Nov-1012

Previous documentation as listed in Design Appraisal Documents 01/00098 and 01/00098(E1)

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

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Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

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Warren Chan
Engineering
London Design Support Office

Part 1A
Subject: Valves
Product: Ball Valves (Part 1A)

Product/Licence No.		Description of Product			Cert. No.
Type		Details of Approval	Application	Remarks	
Starline S.p.A., Via Dei Livelli Di Sopra 11, 24060 Costa Di Mezzate (BG), Italy.		Fire tested, soft seated ball valves in carbon steel and stainless steel Sizes (inch): ½ to 8 Pressure Rating (ANSI Class): 150 to 300 (PN): 16, 25 & 40 Temperature range (°C): -55 to +260	Marine, Offshore and Industrial piping systems.	Expires: 7 June 2016 Complies with: API 607 4 th Edition API 6D API 6FA ISO 17292 EN 12266 EN 1092-1 ASME B16.5 ASME B 16.10 ASME B16.34	01/00098(E2)



Type Approval Certificate Extension

This is to certify that Certificate No. 01/00099(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Starline S.p.A.
PLACE OF PRODUCTION	Via Dei Livelli Di Sopra 11 24060 Costa Di Mezzate (BG) Italy
DESCRIPTION	Ball Valve
TYPE	Multiport
APPLICATION	Marine, Offshore and Industrial piping systems.
SPECIFIED STANDARDS	LR 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
RATINGS	Sizes (inch): ½ to 3 Pressure Rating (ANSI Class): 150 to 600 (PN): 16 to 100 Temperature range (°C): -55 to +260

Certificate No.	01/00099(E2)
Issue Date	15 November 2012
Expiry Date	7 June 2016
Sheet	1 of 2



W.H. Chan
London Design Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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Document number 01/00099(E2)
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 15 November 2012	Quote this reference on all future communications LDSO/ENG/WHC/WP10694944/W03015298
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: STARLINE S.P.A.

for: BALL ALVE, MULTIPOINT

TYPE APPROVAL CERTIFICATE No. 01/00099(E2)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

ADDITIONAL APPROVAL DOCUMENTATION

Request Form
LR Milan, visit report, ref MLN 1290838

27-Sep-2011
14-Nov-2012

Previous documentation as listed in Design Appraisal Documents 01/00099 and 01/00099(E1)

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.



Warren Chan
Engineering
London Design Support Office

Part 1A

Subject: Valves

Product: Ball Valves (Part 1A)

Producer/Licence No.		Description of Product				Cert. No.
Type	Details of Approval	Application	Remarks			
Starline S.p.A., Via Dei Livelli Di Sopra 11, 24060 Costa Di Mezzate (BG), Italy.	Multiport Soft seated ball valves in carbon steel and stainless steel Sizes (inch): ½ to 3 Pressure Rating (ANSI Class): 150 to 600 16, to 100 Temperature range (°C): -55 to +260	Marine, Offshore and Industrial piping systems.	Expires: 7 June 2016 Complies with: ISO 17292 EN 1092-1 ASME B16.34		01/00099(E2)	

