Marine & Offshore

Certificate number: 01328/J0 BV
File number: ACM 145/1915/001
Product code: 2223I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

SOCLA SAS

VIREY LE GRAND - FRANCE

for the type of product

CHECK VALVES, NON-RETURN VALVES

Antipollution non return & foot valves: 02, 04, 05, M, W, B, TJO, FL, TJ systems

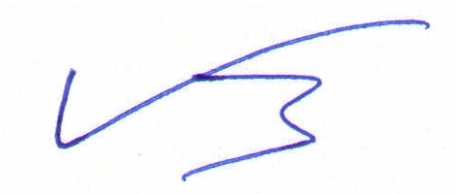
Requirements:
- BUREAU VERITAS Rules for the Classification of Steel Ships
- BUREAU VERITAS Rules for the Classification of Offshore Units
- BUREAU VERITAS Rules for the Classification of Naval Ships

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate is a renewal of certificate N° 01328/I1 BV expiring on 25/11/2021

This certificate will expire on: 25 Nov 2026

For Bureau Veritas Marine & Offshore,
At BV LYON, on 09 Jun 2021,
Yann Kremplewicz





This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Antipollution non return valves & foot valves: 02, 04, 05, M, W, B, TJO, FL, TJ systems

1.1 Types

- Non return valves - 202, 202B, 202S, 202TT, 202TTP, 202V, 202W, 207, 207V, 212,212S, 212Z, 402, 402AC, 402B, 402S, 402T, 402X, 402RR, 402TTP, 402V, 402W, 402Z, 407, 407B, 407T, 407RR, 412, 412S, 412Z, 417, 422, 462, 802, 802B, 802S, 802T,802Z, 812, 812X, 812XB, 812XS, 812XT, 882, 892, 50, 50F, 208P, 408, 408F, 408V, 408X, 418, 418F, 418V, 418D, 508, 508F, 405, 405L, 615, 627E, 635E, 635V, 627V/627V1B,805, 805V, 815, 825, 895, 895V, 290, 290D, 290P, 290X, 297, 297D

- Foot valves - 102, 102P, 102PV, 302, 302P, 302PV, 302X, 302Z, 312, 322, 30, 308, 318, 60S, 104, 104P, 114, 144, 144DG, 190, 190D, 190P, 190X, 193, 193D

1.2 Technical Description

Type	**Non-return valves** **Foot valves**	**Non-return valves** **Foot valves**	**Non-return valves**
System	02	M	W
Size	1-1/2" to 20" (DN 40 to DN 500)	3/8" to 8" (DN 15 to DN 200)	1/2" to 8" (DN 15 to DN 200)
Max. Pressure (bar)	40	16	40
Max. Temperature (°C)	140	100	350
Connection	Flanged / threaded	Flanged / threaded	Flanged / threaded

Type	**Non-return valves**	**Foot valves**	**Non-return valves**
System	B	B	05
Size	1" to 14"	2" to 14" (308, 318); 1" to 3" (30)	1-1/2" to 24" (DN 40 to DN 600)
Max. Pressure (bar)	10	10	25
Max. Temperature (°C)	80	80	150
Connection	Flanged / threaded	Flanged / threaded	Flanged / threaded / wafer

Type	**Non-return valves**	**Foot valves**
System	TJO+FL+04	TJO+FL+04, TJ
Size	1/4" to 2" (DN 10 to DN 50)	3/8" to 4" (DN 15 to DN 100) DN 200 to DN 600 (TJ)
Max. Pressure (bar)	10	10
Max. Temperature (°C)	80	80
Connection	Threaded	Threaded / flanged (TJ)

1.3 Material specification

1.3.1 For 02, M & W systems

System	02	M	W
Body	Ductile/cast iron with epoxy coating/ Brass/ Stainless steel	Ductile/cast iron with epoxy coating	Ductile/cast iron with epoxy coating/ Brass/ Stainless steel
Closing system	Ductile/cast iron / Brass/ Stainless steel (disc)	Rubber NR/EPDM (membrane)	Stainless steel/ Brass (disc)
Seat	EPDM/ Fluoridated elastomer	EPDM/ FEP	EPDM/ Stainless steel

1.3.2 For B system

Body	Cast iron FGL 250, FGS 400/ GJS Cast Iron / Stainless steel grade 304/ PVC (Fig. 208P)
Ball	Cast iron/ Aluminium/ resin/ Aluminium NBR (nitrile) coated/ Steel with NR (natural rubber) coated/ Floating, epoxy resin coated/ FKM coated
Seat	NR/ CR/ NBR/ FKM (Viton)

1.3.3 for TJO, FL, 04, TJ & 05 systems

System	TJO+FL+04	TJ	05
Body	Stainless steel/ POM (polyacetal)/ PP/ Brass	Cast iron with epoxy coating	Ductile/cast iron with epoxy coating/ Steel/ Stainless steel
Closing system	POM (polyacetal)/ PP	Cast iron with epoxy coating	Ductile/cast iron / Brass/Steel/ Stainless steel (disc)
Seat	EPDM/ NBR/ Fluoridated elastomer	EPDM/ NBR	EPDM/ NBR/Fluoridated elastomer

When other material combinations are used according to manufacturer's instructions, the BV agreement will be obtained.

2. DOCUMENTS AND DRAWINGS

- Manufacturer's catalogue 2010 issue - French version
- Technical data sheet Type 30, Reference N° uk30 dated 09/08/2007
- Technical data sheet Type 50, Reference N° uk50 dated 02/09/2013
- Technical data sheet Type 50F, Reference N° uk50f dated 22/04/2004
- Technical data sheet Type 208P, Reference N° uk208p dated 02/09/2013
- Technical data sheet Type 408X, Reference N° uk408x dated 02/09/2013
- Technical data sheet Type 418, Reference N° uk418 dated 02/12/2013
- Technical data sheet Type 418D, Reference N° uk418D dated 02/09/2013
- Technical data sheet Type 418F, Reference N° uk418F dated 02/02/2011
- Technical data sheet Type 418V, Reference N° uk418v dated 02/09/2013
- Technical data sheet Type 508, Reference N° uk508 dated 02/09/2013
- Technical data sheet Type 508F, Reference N° uk508f dated 30/11/2009

No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.

3. TEST REPORTS

Not required.

4. APPLICATION / LIMITATION

4.1 - May be used for the following services on board:

- Ballast and bilge, sea water and fresh water, compressed air, domestic and sanitary systems.

4.2 - The valves belong to Class I, Class II and Class III according to the relevant requirements stated in NR 467, Part C, Chapter 1, Sec 10 of the Bureau Veritas Rules.

4.3 - The material is to be selected according to the nature of the fluid to be conveyed, taking into account the service conditions indicated in the manufacturer's catalogue for each type.

4.4 - Installation on board ships where a fire safe design is required remains to be approved on a case by case basis.

4.5 - The use of ordinary cast iron and stainless steel is restricted as per BUREAU VERITAS rules.

4.6 - The valves are not to be used where their deterioration, in case of fire, would risk to jeopardize the subdivision integrity or the safety of the ship.

4.7 - The non-return valves are not to be used as shipside valves.

4.8 - The valves are to be installed according to the manufacturer's instructions and Society's Rule requirements.

5. PRODUCTION SURVEY REQUIREMENTS

5.1 - The products are to be supplied by **SOCLA SAS** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - Bureau Veritas Certificates are required for materials of valve housings of Class I (DN≥50) & Class II (DN≥100). Materials of valve housings of Class I (DN<50) or Class II (DN<100) and for other parts are to be provided with Work's certificates.

5.5 - Each valve housing for Class I and Class II is to be hydraulically pressure tested to 1.5 times the design pressure.

5.6 - For information, **SOCLA SAS** has declared to Bureau Veritas the following production site:

SOCLA SAS
365 Rue du Lieutenant Putier,
71530 VIREY LE GRAND
FRANCE

6. MARKING OF PRODUCT

The product shall be marked with at least:

- Manufacturer's name or logo
- Type designation and size
- Max. working pressure
- Society's brand as relevant

7. OTHERS

It is **SOCLA SAS**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

This certificate supersedes the Type Approval Certificate N° 01328/I1 BV issued by the Society.

***** END OF CERTIFICATE *****