

# **STAR LINE<sup>®</sup>**



APPROVAL CERTIFICATE No. LRC 160047



## STANDARD N. 2

3 Pieces floating ball valves ISO 5211 - TA-LUFT  
Size range: 1/4" to 1.1/2" full bore – 1/2" to 2" reduced bore  
Carbon steel ASTM A105  
Stainless steel ASTM A182 F316  
CLASS 150 to 800 Lbs – PN 16 to PN 100 – 1000 to 2000 WOG



## MASTER STAR N. 3

3 Pieces floating ball valves "FIRE SAFE" ISO 5211 - TA-LUFT  
Size range: 1/4" to 1.1/2" full bore – 1/2" to 2" reduced bore  
Carbon steel ASTM A105 – ASTM A350 LF2  
Stainless steel ASTM A182 F316 and special materials  
CLASS 150 to 800 Lbs – PN 16 to PN 100 – 1000 to 2000 WOG



## SUPER STAR N. 1

3 Pieces floating ball valves "FIRE SAFE" ISO 5211 - TA-LUFT  
Size range: 1/4" to 3" full bore – 1/2" to 4" reduced bore  
Carbon steel ASTM A105 – ASTM A350 LF2  
Stainless steel ASTM A182 F316 and special materials  
CLASS 150 to 900 Lbs – PN 16 to PN 160 – 1000 to 2200 WOG



## THREADED STAR N. T1

3 Pieces floating ball valves screwed construction "FIRE SAFE" ISO 5211 - TA-LUFT  
Size range: 1/4" to 3" full bore – 1/2" to 4" reduced bore  
Carbon steel ASTM A105 – ASTM A350 LF2  
Stainless steel ASTM A182 F316 and special materials  
CLASS 150 to 1500 Lbs – PN 16 to PN 250 – 1000 to 3600 WOG



## SPLIT STAR N. 7

Split body floating ball valves "FIRE SAFE" ISO 5211 - TA-LUFT  
Size range: 1/2" to 6" full bore 6" - 8" reduced bore  
Carbon steel ASTM A105 – ASTM A350 LF2  
Carbon steel ASTM A182 F316 and special materials  
CLASS 150 to 300 Lbs – PN 10 to PN 40



## THREE AND FOUR WAYS N. 8-9

Three and four ways floating ball valves ISO 5211  
Size range: 1/4" to 2.1/2" full bore – 1/2" to 3" reduced bore  
Carbon steel ASTM A105 – ASTM A 350 LF2  
Stainless steel ASTM A182 F316 and special materials  
CLASS 150 to 600 Lbs – PN 10 to PN 40 - 1000 to 1440 WOG





**MEGA STAR N. 6**

3 Pieces floating ball valves "FIRE SAFE" ISO 5211  
 Size range: 1/4" to 2" full bore  
 Carbon steel ASTM A105 – ASTM A350 LF2  
 Stainless steel ASTM A182 F316 and special materials  
 CLASS 1500 to 2500 Lbs – PN 250 to PN 420 – 3000 to 6000 WOG



**ULTRA STAR N. 0**

3 Pieces bolted construction trunnion mounted "FIRE SAFE" ISO 5211 - TA-LUFT  
 Size range: 1/2" to 6" full bore 3/4" to 8" reduced bore  
 Carbon steel ASTM A105 – ASTM A350 LF2  
 Stainless steel ASTM A182 F316 and special materials  
 CLASS 150 to 2500 Lbs - PN16 to PN420 - 1000 to 6000 WOG



**SEAL WELDED FLOATING**

2 Pieces "seal welded" floating ball metal seated in accordance with KN 251-005  
 Specific for gas storage  
 Size range: 1/2" - 1" - 2" full bore  
 Carbon steel ASTM A105 (C22.8)  
 CLASS 600 - 1500 Lbs - PN100 - PN250 - 1440 to 3600 WOG



**SEAL WELDED TRUNNION**

3 Pieces "seal welded" trunnion mounted ball valves "FIRE SAFE" ISO 5211 - TA-LUFT  
 Size: 1/2" to 4" full bore – 3/4" to 6" reduced bore  
 Carbon steel ASTM A105 – ASTM A350 LF2  
 Stainless steel ASTM A182 F316 and special materials  
 CLASS 150 to 600 Lbs - PN 16 to PN 100 - 1000 to 1440 WOG



**API 3000 - 5000 - 10000**

API 3000 - 5000 - 10000 "FIRE SAFE" ISO 5211  
 New line of valves according to API 6A  
 Trunnion mounted - All materials available  
 Contact factory to have more details on this valve design





**METAL TO METAL FLOATING**

2 pieces bolted construction floating ball for high temperature or abrasive service application  
 Size range: 1/2" to 2" full bore 3/4" to 3" reduced bore  
 Carbon steel ASTM A105 – ASTM A 350 LF2  
 Stainless steel ASTM A182 F316 – Alloy steel F22 and other special materials  
 VARIOUS COMBINATIONS OF COATINGS: chrome carbide - tungsten carbide - stellite coating - etc.  
 CLASS 150 to 600 LBS - PN16 to PN100 - 1000 to 1440 WOG



**METAL TO METAL TRUNNION**

3 pieces bolted construction trunnion mounted for high temperature or abrasive service application  
 Size range: 1/2" to 6" full bore 3/4" to 8" reduced bore  
 Carbon Steel ASTM A105 – ASTM A 350 LF2  
 Stainless steel ASTM A182 F316 – Alloy steel F22 and other special materials  
 VARIOUS COMBINATIONS OF COATINGS: chrome carbide - tungsten carbide - stellite coating - etc.  
 CLASS 150 to 2500 LBS - PN16 to PN420 - 1000 to 6000 WOG



**CRYOSTAR FLOATING**

2 pieces bolted construction floating ball for cryogenic service  
 Lloyd's type approval certificate  
 Size range: 1/2" to 4" full bore 3/4" to 6" reduced bore  
 Stainless Steel ASTM A182 F316 and other special materials  
 CLASS 150 to 600 LBS - PN16 to PN100 - 1000 to 1440 WOG



**CRYOSTAR TRUNNION**

3 pieces bolted construction trunnion mounted with drain needle valve  
 Also with lip seal design  
 Size range: 1/2" to 6" full bore 3/4" to 8" reduced bore  
 Stainless Steel ASTM A182 F316 and other special materials  
 CLASS 150 to 2500 LBS - PN16 to PN420 - 1000 to 6000 WOG



**SINGLE BLOCK & BLEED**

2 pieces bolted construction, floating or trunnion mounted with drain needle valve  
 Also with lip seal design  
 Size range: 1/2" to 6" full bore 3/4" to 8" reduced bore  
 Carbon Steel ASTM A105 - ASTM A350 LF2  
 Stainless Steel ASTM A182 F316 - and ALLOY materials  
 CLASS 150 to 2500 LBS - PN16 to PN420 - 1000 to 6000 WOG



**DOUBLE BLOCK & BLEED**

3 pieces bolted construction, floating or trunnion mounted with drain needle valve  
 Also with lip seal design  
 Size range: 1/2" to 6" full bore 3/4" to 8" reduced bore  
 Carbon Steel ASTM A105 - ASTM A350 LF2  
 Stainless Steel ASTM A182 F316 - and ALLOY materials  
 CLASS 150 to 2500 LBS - PN16 to PN420 - 1000 to 6000 WOG



- 1- BUSINESS NAME ..... STARLINE SPA®
- 2- CAPITAL ..... 1.700.000,00 euro
- 3- HEAD OFFICE AND FACTORY SURFACE ..... 9.000 m<sup>2</sup>
- 4- THE COMPANY WAS FOUNDED ON ..... 1976
- 5- CAPACITY OF PRODUCTION ..... 20.000 BALL VALVES PER MONTH
- 6- PERSONNEL ..... N. 25+17
- 7- PRESIDENT OF SOCIETY ..... MR. SANTO ROTA
- 8- PRODUCTION RANGES ..... A - FORGED STEEL BALL VALVES. RANGE FROM 1/4 "UP TO 8" TEMPERATURE -200° C +600° C (TRUNNION AND FLOATING) MATERIALS: A105 - LF2 - 304 - 304L - 316 - 316L - F44 - F51 - MONEL AND SPECIAL MATERIALS.  
B - AUTOMATION: THE COMPANY ALSO PROVIDES A SERVICE TO ASSEMBLY PNEUMATIC, HYDRAULIC OR ELECTRIC ACTUATORS AND ALL ASSOCIATED COMPONENTS FOR REMOTE CONTROL
- 9- STANDARD DESIGN ..... ASME B16.34 - ASMEB31.1 - BS5351 - API 6A (ISO 10423) - API 6D (ISO14313) - P.E.D. 97/23/EC - ATEX 94/9 CE
- 10- TEST CERTIFICATE ..... ALWAYS SUPPLIED AS STANDARD ACCORDING TO UNI EN 10204/3.1 - EN10204/3.2 ON REQUEST
- 11- NEW PRODUCTS AND DEVELOPMENTS ..... A CONSTANT DEVELOPMENT PROGRAMME IS OPERATED IN RESPONSE TO THE NEW SPECIAL NEEDS OF THE MARKET AND TO MEET CUSTOMERS REQUIREMENTS.
- 12- HAD OFFICE & AFFILIATE COMPANY ..... SEE LAST PAGE OF THE COMPANY PROFILE



## APPROVALS

### COMPANY APPROVALS

- ISO 9001
- TUV AD MERKBLATT HP 0
- API SPEC Q1
- GOST R
- USSR Register of Shipping
- LLRR Liquefied Gas Shipping Approval
- Gas Approval Sweden
- USSR Register of Shipping Sweden

### PRODUCT APPROVALS

- API 6A (ISO10423)
- API 6D (ISO14313)
- P.E.D. 97/23/EC
- ATEX 94/9 CE
- LLOYD'S REGISTER Type Approval
- DNV Type Approval
- RINA Type Approval
- GOSTEHNADSOR Type Approval
- POLSKY REJESTER STATROW Type Approval
- TUV - TA LUFT Test - CERTIFICATE
- FIRE TEST to BS 6755/API 6FA - API 607
- CRYOGENIC TEST TO BS 6364
- TEST TO EN 161 - EN264
- RUHRGAS
- ISTITUTO GIORDANO
- DANISH GAS REGULATION

### CUSTOMER APPROVAL

- ARAMCO
- Australian Gas
- Canadian Registration Number
- DSM
- EIL
- ELF Atochem
- ENAGAS
- ENPPI
- KNPC
- KOC
- Ministero della Difesa
- NIOC
- Petroleum Development Oman
- SONATRAC
- Stoomwezen
- TECHNIP
- TOTAL - FINA - ELF

## MAIN CUSTOMERS

- ABB - ABB LUMMUS
- ADCO
- ADMA-OPCO
- AGA
- AIR LIQUIDE
- AIROIL FLAREGAS
- ALSTOM POWER
- AKZO NOBEL
- AMOCO
- AURAMARINE
- BOUYGUES OFFSHORE
- BP
- BRITISH GAS
- BROWN & ROOT
- BURTON CORBLIN
- CELLIER
- CERN
- CORUS
- DAEWOO
- DSM
- ENAGAS
- ENEL
- ENPPI
- FORSMARKS KRAFTS GROUP
- FOSTER WHEELER
- FLUXYS
- GASCO
- HENKEL
- HELLENIC PETROLEUM
- ILVA
- INITEC
- INTECSA
- JGC
- JOHN CRANE
- KBR
- KVAERNER PROCESS
- LARSEN & TOUBRO
- MC DERMOTT
- MOBIL OIL
- NIOC
- NORSOK
- NPCC
- NUOVO PIGNONE
- PANTOCHIM
- PDO
- PETROBEL
- PHILLIPS PETROLEUM
- PROCTER & GAMBLE
- PTTEP
- RAYTHEON
- RELIANCE
- REPSOL
- SADRA
- SAIPEM
- SAMSUNG
- SBM
- SMS DEMAG
- SPIE CAPAG
- STATOIL
- STORK
- TECHNIP
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- TOTAL - FINA - ELF
- ZADCO





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