

VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 115-SGS-G
<i>Valve type</i>	Ball Valve - SUPER STAR - Full bore - 3 pce bolted body Inside (enclosed) body bolting
<i>Press/temp rating</i>	Pressure Class 600lb (8)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged steel epoxy coated (6) c/w Locking Device (9)
<i>End connections</i>	Integral flanges to ASME/ANSI 600RF smooth finish/RTJ
<i>Body material</i>	Forged carbon steel - ASTM A350 LF2 (4) (7)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	CGPTFE (20% Carbon 5% Graphite) (Encapsulated Seats)
<i>Seal material 1st Body Seal</i>	CGPTFE (20% Carbon 5% Graphite)
<i>Seal material Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	A320 L7 Galvanised - (NACE MR-01-75 class III) (Dual conforms A193 B7)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available
100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Body protected against corrosion by phosphating treatment
- 5 - Valves fitted with antistatic device
- 6 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 7 - 0.22% maximum carbon content. LF2 Class 1,-46°C charpies tested.
Dual certified A105N
- 8 - Temp Rating -46°C min, 280°C max pressure limitations apply at max temp
- 9 - ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested.

by MT	Checked LT	approved BT	rev. 0
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SIPM APPROVED		Tech. File N° ST01 ATEX		AD-W0	P10228 P10227	MAC/10699/3/10/99 MAC/10699/1/10/99	6D-0233	TYPE APPROVED SIL3

VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 115-SGS-G
<i>Valve type</i>	Ball Valve - SUPER STAR - Full bore - 3 pce bolted body Inside (enclosed) body bolting
<i>Press/temp rating</i>	ANSI Class 900LB (2220PSI) (8)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged steel epoxy coated (6) c/w Locking Device (9)
<i>End connections</i>	Scrd NPT/F to ANSI B1.20.1, Socketweld to ANSI B16.11
<i>Body material</i>	Forged carbon steel - ASTM A350 LF2 (4) (7)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	CGPTFE (20% Carbon 5% Graphite) (Encapsulated Seats)
<i>Seal material 1st Body Seal</i>	CGPTFE (20% Carbon 5% Graphite)
<i>Seal material Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	A320 L7 Galvanised - (NACE MR-01-75 class III) (Dual conforms A193 B7)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available, 100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Body protected against corrosion by phosphating treatment
- 5 - Valves fitted with antistatic device
- 6 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 7 - 0.22% maximum carbon content. LF2 Class 1, -46°C charpies tested.
Dual certified A105N
- 8 - Temp Rating -46°C min, 280°C max pressure limitations apply at max temp
- 9 - Locking device optional, ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested.

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 SIPM APPROVED	 PED 97/23 EC RPS 0160304/01 0038	 ATEX 94/9 CE Tech. File N° ST01 ATEX	 AS4617-2004, 7571	 AD-W0	 P10228 P10227	 MAC/10699/3/TO/99 MAC/10699/1/TO/99	 6D-0233	 TYPE APPROVED SIL3
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VALVE DATA SHEET

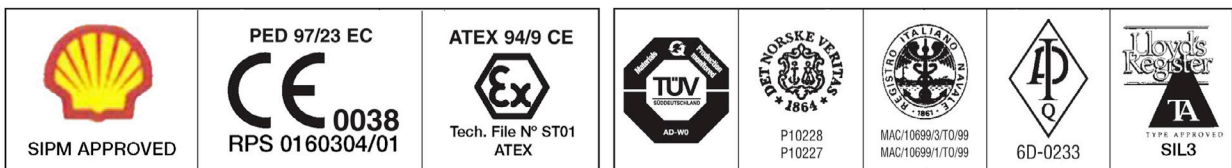


Manufacturer: Starline S.p.a	Valve code 165-NGV-G
<i>Valve type</i>	Ball Valve - MEGA STAR - Full bore (9) - 3pce bolted body Inside (enclosed) body bolting
<i>Pressure/temp Rating</i>	ASME ANSI 1500 CLASS (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged steel Galvanised c/w Locking Device (8)
<i>End connections</i>	Integral flanges to ASME/ANSI 1500 RF smooth finish or RTJ
<i>Body material</i>	Forged carbon steel - ASTM A350 LF2 (4) (6)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	DEVLON - V (Encapsulated seats)
<i>Seal material 1st Body Seal</i>	VITON FR58/90 A.E.D.
<i>Seal material Fireseals</i>	Graphite Stem Packing and Outside Body Seal
<i>Bolting material</i>	A320 L7M - Galvanised - (NACE MR-01-75) (Dual conforms A193 B7M)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs available, 100% Western European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Body protected against corrosion by phosphating treatment
- 5 - Valves fitted with antistatic device
- 6 - 0.22% maximum carbon content. LF2 Class I, -46°C charpies tested.
Dual certified A105N
- 7 - Temperature: -46°C min, 155°C max (pressure limitations apply at maximum temp)
- 8 - ISO mount pad
- 9 - Full Bore to schedule 160 ID
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified



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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code T215-NGV-G		
<i>Valve type</i>	Ball valve - THREADED STAR - Full Bore (10)		
<i>Press/temp rating</i>	ASME/ANSI CLASS 1500 (9)		
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats		
<i>Valve operator</i>	Lever operated - Forged Steel Epoxy Coated (7) c/w Locking Device (8)		
<i>End connections</i>	Extended integral pup ends - special length (4" pups), Scrd NPT/F to ANSI B1.20.1, Buttweld to ANSI B16.25, Socketweld to ANSI B16.11		
<i>Body material</i>	Forged carbon steel - ASTM A350 LF2 (5) (6) Monoblock construction		
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)		
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)		
<i>Seat material</i>	Devlon V		
<i>Primary Body seal material</i>	Graphite		
<i>Stem Seal</i>	Graphite		
<p>Notes: (All notes apply whether referenced or not)</p> <p>1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497</p> <p>2 - Certification according to EN 10204/3.1 Full traceable body & trim certs available 100% European manufacture</p> <p>3 - Materials of construction according to NACE MR-01-75</p> <p>4 - Valves fitted with antistatic device</p> <p>5 - Body protected against corrosion by phosphating treatment</p> <p>6 - 0.22% maximum carbon content, LF2 Class I, -46°C charpies tested, dual certified A105N</p> <p>7 - 1000 micron Epoxy Coated for offshore salt spray resistance</p> <p>8 - Locking device optional, ISO mount pad</p> <p>9 - Temp rating -46°C to 155°C (pressure limitations apply at max temp)</p> <p>10 - Tack weld secured body joint not required, but can be arranged prior to despatch to ensure unintended disassembly during installation</p>			
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<p>PED 97/23 EC</p>  <p>Certificate N°: RPS 0160304/01</p>	<p>ATEX 94/9 CE</p>  <p>Tech. File N° ST01 ATEX</p>
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 <p>AD-WD</p>	 <p>P10228 P10227</p>	 <p>MAC/10699/3/TO/99 MAC/10699/1/TO/99</p>	 <p>6D-0233</p>	 <p>TYPE APPROVED SIL 3</p>
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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 116-SGS-G
<i>Valve type</i>	Ball Valve - SUPER STAR - Full bore - 3 pce bolted body Inside (enclosed) body bolting
<i>Press/temp rating</i>	2220PSI (900lb) (8)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged steel epoxy coated (6) c/w Locking Device (9)
<i>End connections</i>	Scrd NPT/F to ANSI B1.20.1, Socketweld to ANSI B16.11
<i>Body material</i>	Forged stainless steel - ASTM A182 F316/316L (dual certified) (4)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	CGPTFE (20% Carbon 5% Graphite) (Encapsulated Seats)
<i>Seal material 1st Body Seal</i>	CGPTFE (20% Carbon 5% Graphite)
<i>Seal material Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	A320 GR B8M bolts NACE (MR-01-75)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available
100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled and passivated
- 5 - Valves fitted with antistatic device
- 6 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 8 - Temp Rating -90°C min, 280°C max pressure limitations apply at max temp
(Extended stem recommended below -46°C)
- 9 - ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested.









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 SIPM APPROVED	 PED 97/23 EC 0038 RPS 0160304/01	 ATEX 94/9 CE Tech. File N° ST01 ATEX	 AS4617-2004, 7571 AGA	 TUV AD-WD	 DNV NORSCKE VERITAS 1864 P10228 P10227	 ITALIANO MAC/10699/G/TO/99 MAC/10699/I/TO/99	 AP Q 6D-0233	 Lloyd's Register TA TYPE APPROVED SIL3
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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 176-TGT-G		
<i>Valve type</i>	Ball Valve -SPLIT STAR - Full bore - 2 pc bolted body Low temperature service		
<i>Press/temp rating</i>	ASME/ANSI CLASS 150 (5)		
<i>Trim Construction</i>	Floating ball - anti blowout - split body- encapsulated seats c/w hole drilled in ball upstream for low temp service		
<i>Valve operator</i>	Extended stem (100mm) Lever operated - forged 316SS (6) c/w Locking Device (9)		
<i>End connections</i>	Integral flanges to ASME/ANSI 150 RF smooth finish		
<i>Body material</i>	Forged Stainless Steel - A182 F316/316L (dual certified) (7)		
<i>Trim material</i>	Ball - stainless steel A182 F316/316L (dual certified)		
	Stem - stainless steel A182 F316/316L (dual certified)		
<i>Seat material</i>	PTFE (Encapsulated Seats)		
<i>Seal material 1st Body Seal</i>	PTFE		
<i>Seal material Fireseals</i>	Graphite Stem Packing and outside #2 body seal		
<i>Bolting material</i>	A320 B8M + XYLAN Coated (PTFE) - (NACE MR-01-75)		
<p>Notes: (All notes apply whether referenced or not)</p> <p>1 - Certified Fire safe to API 607 - API 6FA - ISO 10497</p> <p>2 - Certification according to EN 10204/3.1b. Full traceable body & trim certs available 100% European manufacture</p> <p>3 - Materials of construction according to NACE MR-01-75</p> <p>4 - Valves fitted with antistatic device</p> <p>5 - Temp Rating -101°C min, 280°C max. Pressure limitations apply at max temp.</p> <p>6 - 316SS Lever, nut & stop pin</p> <p>7 - Pickled & passivated body. Subzero heat treated body.</p> <p>9 - ISO mount pad</p> <p>10 - Fugitive emission prototype certified & witness tested. SIL3 certified.</p>			
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 SIPM APPROVED	PED 97/23 EC  0038 RPS 0160304/01	ATEX 94/9 CE  Tech. File N° ST01 ATEX	 AD-W0	 P10228 P10227	 MAC/10699/3/10/99 MAC/10699/1/10/99	 6D-0233	 TYPE APPROVED SIL3
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VALVE DATA SHEET

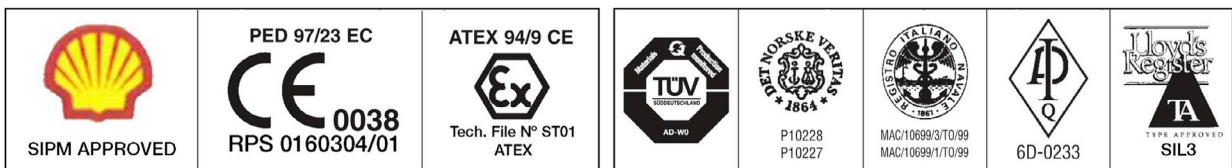


Manufacturer: Starline S.p.a	Valve code 166-NGV-G
<i>Valve type</i>	Ball Valve - MEGA STAR - Full bore - 3pce bolted body Inside (enclosed) body bolting
<i>Pressure/temp Rating</i>	ASME ANSI 2500 CLASS (6000PSI) (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - stainless steel 17-4PH c/w Locking Device (8)
<i>End connections</i>	Scrd NPT/F to ANSI B1.20.1 Socketweld to ANSI B16.11
<i>Body material</i>	Forged stainless steel - ASTM A182 316/316L (dual certified) (4)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	DEVLON - V (Encapsulated seats)
<i>Seal material 1st Body Seal</i>	VITON FR58/90 A.E.D.
<i>Seal material Fireseals</i>	Graphite Stem Packing and Outside Body Seal
<i>Bolting material</i>	A320 GR B8M - (NACE MR-01-75)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs available, 100% Western European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled passivated body
- 5 - Valves fitted with antistatic device
- 6 - Tested.
- 7 - Temperature: -90°C min, 155°C max (pressure limitations apply at maximum temp)
(Extended stem recommended below -46°C)
- 8 - Nut & stop pin 316SS, lever 17-4PHSS, ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified

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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code T5-286SGG-S
<i>Valve type</i>	Ball Valve - Three Way T-port - Standard Bore - 4 pce bolted body
<i>Press/temp rating</i>	ANSI 600 Class (1500PSI) (8)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated -forged steel epoxy coated (7) (9)
<i>End connections</i>	Scrd BSPT (F) to BS21 Female socketweld to ANSI B16.11
<i>Body material</i>	Forged stainless steel - ASTM A182 F316/316L (dual certified) (4)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	PTFE reinforced (20% carbon - 5% graphite) (4 seats) (Encapsulated seats)
<i>Seal material</i> <i>Inside Body Seal</i>	CGPTFE (20% Carbon 5% graphite)
<i>Seal material</i> <i>Fireseals</i>	Graphite stem packing, and outside Body Seal
<i>Bolting material</i>	A320 Gr B8

Notes: (All notes apply whether referenced or not)

- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available
100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled and passivated body
- 5 - Firesafe fitted with antistatic device
- 7 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 8 - Temperature 260°C max, -90°C min (pressure limitations apply at max temp)
(Extended stem recommended -46°C)
- 9 - Locking device optional, ISO mount pad
- 10 - SIL3 certified

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<p>PED 97/23 EC</p>  <p>Certificate N°: RPS 0160304/01</p>	<p>ATEX 94/9 CE</p>  <p>Tech. File N° ST01 ATEX</p>		 <p>P10228 P10227</p>	 <p>MAC/10699/3/TO/99 MAC/10699/1/TO/99</p>	 <p>6D-0233</p>	 <p>TYPE APPROVED</p>
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VALVE DATA SHEET










Manufacturer: Starline S.p.a	Valve code T115-NGV-G
<i>Valve type</i>	Ball valve - THREADED STAR - Threaded Body Full Bore (10)
<i>Press/temp rating</i>	ASME/ANSI CLASS 1500 (9)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - Forged Steel Epoxy Coated (7) c/w Locking Device (8)
<i>End connections</i>	Scrd NPT/F to ANSI B1.20.1, Buttweld to ANSI B16.25 Socketweld to ANSI B16.11, BSPT/F to BS21
<i>Body material</i>	Forged carbon steel - ASTM A350 LF2 (5) (6) Monoblock construction
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	Devlon V
<i>Primary Body seal material</i>	Graphite
<i>Stem Seal</i>	Graphite

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs available
100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Valves fitted with antistatic device
- 5 - Body protected against corrosion by phosphating treatment
- 6 - 0.22% maximum carbon content, LF2 Class I, -46°C charpies tested,
dual certified A105N
- 7 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 8 - Locking device optional, ISO mount pad
- 9 - Temp rating -46°C to 155°C (pressure limitations apply at max temp)
- 10 - Tack weld secured body joint not required, but can be arranged prior to despatch
to ensure unintended disassembly during installation

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<p>PED 97/23 EC</p>  <p>Certificate N°: RPS 0160304/01</p>	<p>ATEX 94/9 CE</p>  <p>Tech. File N° ST01 ATEX</p>
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	 <p>P10228 P10227</p>	 <p>MAC/10669/3/TO/99 MAC/10669/1/TO/99</p>	 <p>6D-0233</p>	 <p>TYPE APPROVED SIL 3</p>
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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 175-SGS-G		
<i>Valve type</i>	Ball Valve -SPLIT STAR - Full bore - 2 pc bolted body		
<i>Press/temp rating</i>	ASME/ANSI CLASS 150 (5)		
<i>Trim Construction</i>	Floating ball - anti blowout - split body- encapsulated seats		
<i>Valve operator</i>	Lever operated - forged steel epoxy coated (6) c/w Locking Device (9)		
<i>End connections</i>	Integral flanges to ASME/ANSI 150 RF smooth finish		
<i>Body material</i>	Forged Carbon Steel - A350 LF2 (7) (8)		
<i>Trim material</i>	Ball - stainless steel A182 F316/316L (dual certified)		
	Stem - stainless steel A182 F316/316L (dual certified)		
<i>Seat material</i>	PTFE, reinforced (20% Carbon 5% Graphite) (Encapsulated Seats)		
<i>Seal material 1st Body Seal</i>	PTFE, reinforced (20% Carbon 5% Graphite)		
<i>Seal material Fireseals</i>	Graphite Stem Packing and outside #2 body seal		
<i>Bolting material</i>	A320 L7- Galvanised (NACE MR-01-75 Class III) (Dual conforms to A193 B7)		
<p>Notes: (All notes apply whether referenced or not)</p> <p>1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497</p> <p>2 - Certification according to EN 10204/3.1b. Full traceable body & trim certs available 100% European manufacture</p> <p>3 - Materials of construction according to NACE MR-01-75</p> <p>4 - Valves fitted with antistatic device</p> <p>5 - Temp Rating -46°C min, 280°C max. Pressure limitations apply at max temp.</p> <p>6 - 1000 micron epoxy coated for offshore salt spray resistance</p> <p>7 - 0.22% maximum carbon content. LF2 Class 1, -46°C charpies tested, dual conformance</p> <p>8 - Body protected against corrosion by phosphating treatment</p> <p>9 - ISO mount pad</p> <p>10 - Fugitive emission prototype certified & witness tested. SIL3 certified.</p>			
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 SIPM APPROVED	PED 97/23 EC  0038 RPS 0160304/01	ATEX 94/9 CE  Tech. File N° ST01 ATEX	 AD-WD	 P10228 P10227	 MAC/10699/3/0/99 MAC/10699/1/0/99	 6D-0233	 TYPE APPROVED SIL3
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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 116-NGS-G
<i>Valve type</i>	Ball Valve - SUPER STAR - Full bore - 3 pce bolted body Inside (enclosed) body bolting
<i>Press/temp rating</i>	2200PSI (900lb) (8)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged steel epoxy coated (6) c/w Locking Device (9)
<i>End connections</i>	Integral Long ends Female Socketweld to ANSI B16.11 (11)
<i>Body material</i>	Forged stainless steel - ASTM A182 F316/316L (dual certified) (4)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	DEVLON - V (Encapsulated Seats)
<i>Seal material 1st Body Seal</i>	CGPTFE (20% Carbon 5% Graphite)
<i>Seal material Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	A320 GR B8M bolts (NACE MR-01-75)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available, 100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled and passivated body
- 5 - Valves fitted with antistatic device
- 6 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 8 - Temp Rating -90°C min, 155°C max pressure limitations apply at max temp (extended sstem recommended below -46°C)
- 9 - ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested.
- 11 - Long ends, no disassembly required to weld, (191mm end to end dimension)

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VALVE DATA SHEET

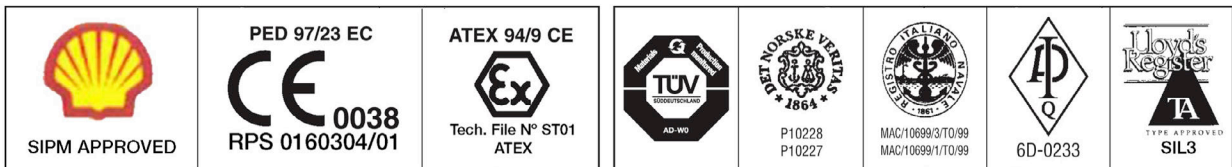


Manufacturer: Starline S.p.a	Valve code 169-NGV-G
<i>Valve type</i>	Ball Valve - MEGA STAR - Full bore - 3pce bolted body Inside (enclosed) body bolting
<i>Pressure/temp Rating</i>	ASME ANSI 2500 CLASS (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged stainless steel (17-4PH) c/w Locking Device (8)
<i>End connections</i>	Scrd NPT/F to ANSI B1.20.1, Socketweld to ANSI B16.11
<i>Body material</i>	Forged Duplex stainless steel - ASTM A182 F51 (4) (6)
<i>Trim material</i>	Ball - Duplex stainless steel - ASTM A182 F51
	Stem - Duplex stainless steel - ASTM A182 F51
<i>Seat material</i>	DEVLON - V (Encapsulated seats)
<i>Seal material</i> <i>1st Body Seal</i>	James Walker AED ELAST-O-LION 985 (7)
<i>Seal material</i> <i>Fireseals</i>	Graphite Stem Packing and Outside Body Seal
<i>Bolting material</i>	UNS 31803 (Duplex)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs, 100% Western European manufacture to Norsok standards
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled & passivated body
- 5 - Valves fitted with antistatic device
- 6 - Corrossion test & micrographic examination on all forgings. Dye penetrant test also performed all body forgings.
- 7 - Temperature: -51°C min, 155°C max (pressure limitations apply at maximum temp) (Extended stem recommended below -46°C) 1st body seal static - temp conforms
- 8 - 316SS nut & stop pin, 17-4PHSS lever, ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified

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VALVE DATA SHEET

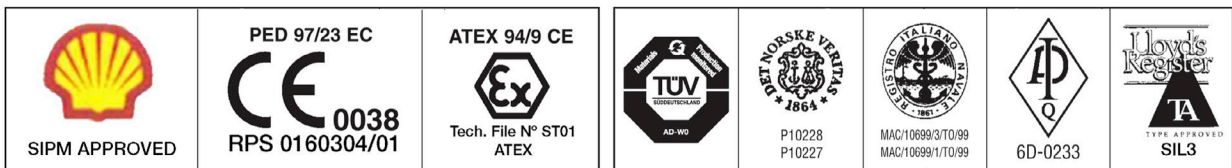


Manufacturer: Starline S.p.a	Valve code 169-NGV-G
<i>Valve type</i>	Ball Valve - MEGA STAR - Full bore (9) - 3pce bolted body Inside (enclosed) body bolting
<i>Pressure/temp Rating</i>	ASME ANSI 1500 CLASS (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged 316SS stainless steel c/w Locking Device (8)
<i>End connections</i>	Scrd NPT/F to ANSI B1.20.1, Socketweld to ANSI B16.11
<i>Body material</i>	Forged Duplex stainless steel - ASTM A182 F51 (4) (6)
<i>Trim material</i>	Ball - Duplex stainless steel - ASTM A182 F51
	Stem - Duplex stainless steel - ASTM A182 F51
<i>Seat material</i>	DEVLON - V (Encapsulated seats)
<i>Seal material</i> <i>1st Body Seal</i>	VITON FR58/90 A.E.D.
<i>Seal material</i> <i>Fireseals</i>	Graphite Stem Packing and Outside Body Seal
<i>Bolting material</i>	UNS 31803 (Duplex)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs, 100% Western European manufacture to Norsok standards
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled & passivated body
- 5 - Valves fitted with antistatic device
- 6 - Corrosion test, micrographic examination & dye penetrant test on all forgings
- 7 - Temperature: -51°C min, 155°C max (pressure limitations apply at maximum temp)
(Extended stem recommended below -46°C) 1st body seal static - temp conforms
- 8 - 316SS lever, nut & stop pin, ISO mount pad
- 9 - Full Bore to schedule 160
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified

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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code L2-285SGG-S
<i>Valve type</i>	Ball Valve - Three Way L-port - Standard Bore - 4 pce bolted body
<i>Press/temp rating</i>	ANSI 800 Class (2000PSI) (8)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated -forged steel epoxy coated (7) (9)
<i>End connections</i>	Scrd NPT/F to ANSI B1.20.1 Female socketweld to ANSI B16.11
<i>Body material</i>	Forged carbon steel - ASTM A350 LF2 (4) (6)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	PTFE reinforced (20% carbon - 5% graphite) (4 seats) (Encapsulated seats)
<i>Seal material</i> <i>Inside Body Seal</i>	CGPTFE (20% Carbon 5% graphite)
<i>Seal material</i> <i>Fireseals</i>	Graphite stem packing, and outside Body Seal
<i>Bolting material</i>	A320 L7 (Galvanised) - NACE MR 01-75 class III (Dual conforms to A193 B7)

Notes: (All notes apply whether referenced or not)

- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available
100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Body protected against corrosion by phosphating treatment
- 5 - Firesafe fitted with antistatic device
- 6 - 0.22% Maximum carbon content. LF2 Class 1 -46° charpies tested,
dual certified A105N
- 7 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 8 - Temperature 260°C max, -46°C min (pressure limitations apply at max temp)
- 9 - Locking device optional, ISO mount pad
- 10 - SIL3 certified

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<p>PED 97/23 EC</p>  <p>Certificate N°: RPS 0160304/01</p>	<p>ATEX 94/9 CE</p>  <p>Tech. File N° ST01 ATEX</p>	 <p>AD-WO</p>	 <p>P10228 P10227</p>	 <p>MAC/10699/3/TO/99 MAC/10699/1/TO/99</p>	 <p>6D-0233</p>	 <p>TA TYPE APPROVED</p>
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VALVE DATA SHEET

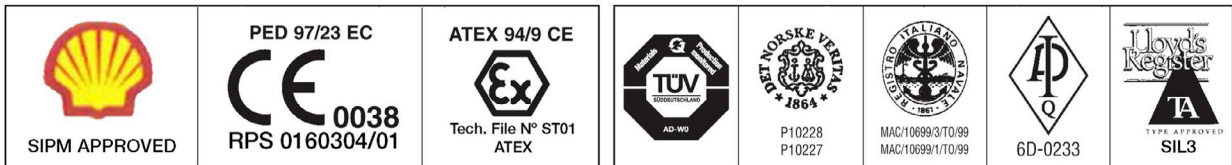


Manufacturer: Starline S.p.a	Valve code 166-NGV-G
<i>Valve type</i>	Ball Valve - MEGA STAR - Full bore - 3pce bolted body Inside (enclosed) body bolting
<i>Pressure/temp Rating</i>	ASME ANSI 2500 CLASS (6000PSI) (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - stainless steel 17-4PH c/w Locking Device (8)
<i>End connections</i>	Extended integral pup ends, Butt weld to ANSI B16.25 Socket weld to ANSI B16.11
<i>Body material</i>	Forged stainless steel - ASTM A182 316/316L (dual certified) (4)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	DEVLON - V (Encapsulated seats)
<i>Seal material</i> <i>1st Body Seal</i>	VITON FR58/90 A.E.D.
<i>Seal material</i> <i>Fireseals</i>	Graphite Stem Packing and Outside Body Seal
<i>Bolting material</i>	A320 GR B8M - (NACE MR-01-75)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs available, 100% Western European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled passivated body
- 5 - Valves fitted with antistatic device
- 6 - Tested.
- 7 - Temperature: -90°C min, 155°C max (pressure limitations apply at maximum temp)
(Extended stem recommended below -46°C) 1st body seal static - temp conforms
- 8 - Nut & stop pin 316SS, lever 17-4PHSS, ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified

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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 215-SGS-G
<i>Valve type</i>	Ball Valve - SUPER STAR - Standard bore - 3 pce bolted body Inside (enclosed) body bolting
<i>Press/temp rating</i>	ANSI class 900lb (2220PSI) (8)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged steel epoxy coated (6) c/w Locking Device (9)
<i>End connections</i>	Extended Integral pup ends, Scrd NPT/F to ANSI B1.20.1, Socketweld to ANSI B16.11
<i>Body material</i>	Forged carbon steel - ASTM A350 LF2 (4) (7)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	CGPTFE (20% Carbon 5% Graphite) (Encapsulated Seats)
<i>Seal material 1st Body Seal</i>	CGPTFE (20% Carbon 5% Graphite)
<i>Seal material Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	A320 L7 Galvanised - (NACE MR-01-75 class III) (Dual conforms A193 B7)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available
100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Body protected against corrosion by phosphating treatment
- 5 - Valves fitted with antistatic device
- 6 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 7 - 0.22% maximum carbon content. LF2 Class 1, -46°C charpies tested.
Dual certified A105N
- 8 - Temp Rating -46°C min, 260°C max pressure limitations apply at max temp
- 9 - ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested.

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 SIPM APPROVED	 PED 97/23 EC 0038 RPS 0160304/01	 ATEX 94/9 CE Tech. File N° ST01 ATEX	 AS4617-2004, 7571	 TUV AD-W0	 P10228 P10227	 MAC/10699/3/TO/99 MAC/10699/11/TO/99	 6D-0233	 Lloyd's Register TYPE APPROVED SIL3
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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 119-NGS-G
<i>Valve type</i>	Ball Valve - SUPER STAR - Full bore - 3 pce bolted body Inside (enclosed) body bolting
<i>Press/temp rating</i>	2250PSI (900lb) (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged stainless steel (6) c/w Locking Device, ISO mount pad
<i>End connections</i>	Scrd NPT/F to ANSI B1.20.1, Socketweld to ANSI B16.11
<i>Body material</i>	Forged duplex stainless steel - ASTM A182 - F51 (5) (Pickled and passivated)
<i>Trim material</i>	Ball - duplex stainless steel - ASTM A182 - F51
	Stem - duplex stainless steel - ASTM A182 - F51
<i>Seat material</i>	DEVLON - V (Encapsulated Seats)
<i>Seal material</i> <i>1st Body Seal</i>	CGPTFE (20% Carbon 5% Graphite)
<i>Seal material</i> <i>Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	UNS 31803 (Duplex)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available
100% European manufacture to Norsok standards
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Valves fitted with antistatic device
- 5 - Corrosion test, dye penetrant test and micrographic examination on all Forgings
- 6 - Lever, nut, stop pin etc all 316SS
- 7 - Temp Rating -90°C to 155°C (pressure limitations apply at max temp,
stem extension required below -46°C)
- 8 - Fugitive emission prototype certified & witness tested. SIL 3 certified

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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 216-NGS-G
<i>Valve type</i>	Ball Valve - SUPER STAR - Full bore to S160 - 3 pce bolted body. Inside (enclosed) body bolting
<i>Press/temp rating</i>	Pressure Class 1500lb (3700PSI) (8)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged steel epoxy coated (6) c/w Locking Device (9)
<i>End connections</i>	Extended Integral pup ends, Buttweld to ANSI B16.25, Socketweld to ANSI B16.11
<i>Body material</i>	Forged stainless steel - ASTM A182 F316/316L (dual certified) (4)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	DEVLON - V (Encapsulated Seats)
<i>Seal material 1st Body Seal</i>	CGPTFE (20% Carbon 5% Graphite)
<i>Seal material Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	A320 GR B8M bolts (NACE MR-01-75)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available
100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled and passivated body
- 5 - Valves fitted with antistatic device
- 6 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 8 - Temp Rating -90°C min, 155°C max pressure limitations apply at max temp
(Extended stem recommended below -46°C)
- 9 - ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested.



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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code T216-NGV-G		
<i>Valve type</i>	Ball valve - THREADED STAR - Extended Integral Ends Full Bore to S160 (10)		
<i>Press rating</i>	ASME ANSI CLASS 1500 (3700PSI) (9)		
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats		
<i>Valve operator</i>	Lever operated - Forged Steel Epoxy Coated (7) c/w Locking Device (8)		
<i>End connections</i>	Extended integral special length pup ends (4" pups), Scrd NPT/F to ANSI Scrd NPT/F to ANSI B1.20.1, Female socketweld to ANSI B16.11 Buttweld to ANSI B16.25,		
<i>Body material</i>	Forged carbon steel - ASTM A182 F316/316L (dual certified) (5) Monoblock construction		
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)		
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)		
<i>Seat material</i>	Devlon V		
<i>Primary Body seal material</i>	Graphite		
<i>Stem Seal</i>	Graphite		
<p>Notes: (All notes apply whether referenced or not)</p> <p>1 - Certified Fire safe to API 607 - API 6FA - ISO 10497</p> <p>2 - Certification according to EN 10204/3.1 Full traceable body & trim certs available 100% European manufacture</p> <p>3 - Materials of construction according to NACE MR-01-75</p> <p>4 - Valves fitted with antistatic device</p> <p>5 - Pickled & passivated body</p> <p>7 - 1000 micron Epoxy Coated for offshore salt spray resistance</p> <p>8 - Locking device optional, ISO mount pad</p> <p>9 - Temp rating -90°C to 155°C (pressure limitations apply at max temp, extended stem recommended below -46°C)</p> <p>10 - Tack weld secured body joint not required, but can be arranged prior to despatch to ensure unintended disassembly during installation</p>			
by MT	Checked LT	approved BT	rev. 02

<p>PED 97/23 EC</p>  <p>Certificate N°: RPS 0160304/01</p>	<p>ATEX 94/9 CE</p>  <p>Tech. File N° ST01 ATEX</p>
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	 <p>P10228 P10227</p>	 <p>MAC/10699/3/TO/99 MAC/10699/1/TO/99</p>	 <p>6D-0233</p>	 <p>TYPE APPROVED SIL 3</p>
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VALVE DATA SHEET











Manufacturer: Starline S.p.a	Valve code 165-NGV-G
<i>Valve type</i>	Ball Valve - MEGA STAR - Full bore - 3pce bolted body Inside (enclosed) body bolting
<i>Pressure/temp Rating</i>	ASME ANSI 2500 CLASS (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged steel Galvanised c/w locking Device (8)
<i>End connections</i>	Integral flanges to ASME/ANSI 2500 RF smooth finish or RTJ
<i>Body material</i>	Forged carbon steel - ASTM A350 LF2 (4) (6)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	DEVLON - V (Encapsulated seats)
<i>Seal material 1st Body Seal</i>	VITON FR58/90 A.E.D.
<i>Seal material Fireseals</i>	Graphite Stem Packing and Outside Body Seal
<i>Bolting material</i>	A320 L7M - Galvanised - (NACE MR-01-75) (Dual conforms A193-B7M)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs available, 100% Western European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Body protected against corrosion by phosphating treatment
- 5 - Valves fitted with antistatic device
- 6 - 0.22% maximum carbon content. LF2 Class I, -46°C charpies tested.
- 7 - Temperature: -46°C min, 155°C max (pressure limitations apply at maximum temp)
- 8 - ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified

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 SIPM APPROVED	 PED 97/23 EC RPS 0160304/01 0038	 ATEX 94/9 CE Tech. File N° ST01 ATEX	 AD-W0	 P10228 P10227	 MAC/10699/3/10/99 MAC/10699/1/10/99	 6D-0233	 TYPE APPROVED SIL3
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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 115-SGS-G
<i>Valve type</i>	Ball Valve - SUPER STAR - Full bore - 3 pce bolted body Inside (enclosed) body bolting
<i>Press/temp rating</i>	Pressure Class 600lb (8)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged steel epoxy coated (6) c/w Locking Device (9)
<i>End connections</i>	Integral flanges to ASME/ANSI 600RF smooth finish/RTJ
<i>Body material</i>	Forged carbon steel - ASTM A350 LF2 (4) (7)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	CGPTFE (20% Carbon 5% Graphite) (Encapsulated Seats)
<i>Seal material 1st Body Seal</i>	CGPTFE (20% Carbon 5% Graphite)
<i>Seal material Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	A320 L7M Galvanised - (NACE MR-01-75) (Dual conforms A193 B7M)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available
100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Body protected against corrosion by phosphating treatment
- 5 - Valves fitted with antistatic device
- 6 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 7 - 0.22% maximum carbon content. LF2 Class 1, -46°C charpies tested.
Dual certified A105N
- 8 - Temp Rating -46°C min, 280°C max pressure limitations apply at max temp
- 9 - ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested.

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VALVE DATA SHEET











Manufacturer: Starline S.p.a	Valve code 179-SGS-G
<i>Valve type</i>	Ball Valve -SPLIT STAR - Full bore - 2 pc bolted body
<i>Press/temp rating</i>	ASME/ANSI CLASS 150 (5)
<i>Trim Construction</i>	Floating ball - anti blowout - split body- encapsulated seat
<i>Valve operator</i>	Lever operated - forged 316SS lever c/w Locking Device (9)
<i>End connections</i>	Integral flanges to ASME/ANSI 150 RF smooth finish
<i>Body material</i>	Forged Duplex Stainless Steel - ASTM A182 F51 (7) (8)
<i>Trim material</i>	Ball - Duplex stainless steel - ASTM A182 F51
	Stem - Duplex stainless steel ASTM A182 F51
<i>Seat material</i>	PTFE, reinforced (20% Carbon 5% Graphite) (Encapsulated Seats)
<i>Seal material 1st Body Seal</i>	PTFE, reinforced (20% Carbon 5% Graphite)
<i>Seal material Fireseals</i>	Graphite Stem Packing and outside #2 body seal
<i>Bolting material</i>	UNS 31803 (Duplex)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1b. Full traceable body & trim certs available
100% European manufacture to Norsok standards
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Valves fitted with antistatic device
- 5 - Temp Rating: -51°C min, 280°C max. Pressure limitations apply at max temp.
(Extended stem recommended below -46°C)
- 7 - Corrosion test, micrographic examination and dye penetrant test on all forgings
- 8 - Pickled and passivated body
- 9 - Lever, nut and stop pin 316SS, ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified.

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 SIPM APPROVED	PED 97/23 EC  0038 RPS 0160304/01	ATEX 94/9 CE  Tech. File N° ST01 ATEX	 AD-W0	 P10228 P10227	 MAC/10699/3/TO/99 MAC/10699/1/TO/99	 6D-0233	 TYPE APPROVED SIL3
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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 116-SGS-G
<i>Valve type</i>	Ball Valve - SUPER STAR - Full bore - 3 pce bolted body Inside (enclosed) body bolting
<i>Press/temp rating</i>	Pressure Class 600lb (8)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged steel epoxy coated (6) c/w Locking Device (9)
<i>End connections</i>	Integral flanges to ASME/ANSI 600 class RF smooth finish/RTJ
<i>Body material</i>	Forged stainless steel - ASTM A182 F316/316L (dual certified) (4)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	CGPTFE (20% Carbon 5% Graphite) (Encapsulated Seats)
<i>Seal material 1st Body Seal</i>	CGPTFE (20% Carbon 5% Graphite)
<i>Seal material Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	A320 GR B8M bolts (NACE MR-01-75)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available
100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled and passivated
- 5 - Valves fitted with antistatic device
- 6 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 8 - Temp Rating -90°C min, 280°C max pressure limitations apply at max temp
(Extending stem recommended below -46C)
- 9 - ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested.

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VALVE DATA SHEET











Manufacturer: Starline S.p.a	Valve code 166-NGV-G
<i>Valve type</i>	Ball Valve - MEGA STAR - Full bore - 3pce bolted body Inside (enclosed) body bolting
<i>Pressure/temp Rating</i>	ASME ANSI 2500 CLASS (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged stainless steel 17-4PH c/w Locking Device (8)
<i>End connections</i>	Integral flanges to ASME/ANSI 2500 RF smooth finish or RTJ
<i>Body material</i>	Forged stainless steel - ASTM A182 F316/316L (dual certified) (4)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem - stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	DEVLON - V (Encapsulated seats)
<i>Seal material</i> <i>1st Body Seal</i>	VITON FR58/90 A.E.D.
<i>Seal material</i> <i>Fireseals</i>	Graphite Stem Packing and Outside Body Seal
<i>Bolting material</i>	A320 GR B8M - (NACE MR-01-75)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs available, 100% Western European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled & passivated body
- 5 - Valves fitted with antistatic device
- 7 - Temperature: -90°C min, 155°C max (pressure limitations apply at maximum temp)
(Extended stem recommended below -46°C) 1st body seal static - temp conforms
- 8 - 316SS nut & stop pin, 17-4PHSS lever, ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified

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 SIPM APPROVED	PED 97/23 EC  0038 RPS 0160304/01	ATEX 94/9 CE  Tech. File N° ST01 ATEX	 AD-W0	 P10228 P10227	 MAC/10699/3/10/99 MAC/10699/1/10/99	 6D-0233	 TYPE APPROVED SIL3
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VALVE DATA SHEET










Manufacturer: Starline S.p.a	Valve code 136-SGS-G
<i>Valve type</i>	Ball Valve - MASTER STAR - Full bore - 3 pce bolted body Inside (enclosed) body bolting
<i>Press/temp rating</i>	2220PSI (900Lb) (8)
<i>Trim Construction</i>	Floating ball - anti blowout
<i>Valve operator</i>	Lever operated - forged steel epoxy coated (7) (9) c/w Locking Device
<i>End connections</i>	Scrd NPT/F to ANSI B1.20.1, Female socketweld to ANSI B16.11
<i>Body material</i>	Forged stainless steel - ASTM A82 F316/316L (dual certified) (4)
<i>Trim material</i>	Ball - stainless steel - ASTM A182 F316/316L (dual certified)
	Stem -stainless steel - ASTM A182 F316/316L (dual certified)
<i>Seat material</i>	PTFE reinforced (20% carbon - 5% graphite)
<i>Seal material 1st Body Seal</i>	PTFE reinforced (20% carbon - 5% graphite)
<i>Seal material Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	A320 GR B8 B8M (NACE MR-01-75)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs available
100% European manufacture
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled & passivated body
- 5 - Valves fitted with antistatic device
- 6 - Tested
- 7 - 1000 micron Epoxy Coated for offshore salt spray resistance
- 8 - Temperature 260°C max, -90°C min (pressure limitations apply at max temp)
(Extended stem recommended below -46°C)
- 9 - ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified

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<p>PED 97/23 EC</p>  <p>Certificate N°: RPS 0160304/01</p>	<p>ATEX 94/9 CE</p>  <p>Tech. File N° ST01 ATEX</p>
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	 <p>P10228 P10227</p>	 <p>MAC/10699/3/10/99 MAC/10699/1/10/99</p>	 <p>6D-0233</p>	 <p>TYPE APPROVED SIL 3</p>
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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 119-SGS-G
<i>Valve type</i>	Ball Valve - SUPER STAR - Full bore - 3 pce bolted body Inside (enclosed) body bolting
<i>Press/temp rating</i>	ASME/ANSI 600 Class (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged stainless steel (6) c/w Locking Device, ISO mount pad
<i>End connections</i>	Integral flanges to ASME/ANSI 600 class RF smooth finish/RTJ
<i>Body material</i>	Forged duplex stainless steel - ASTM A182 - F51 (5) (Pickled and passivated)
<i>Trim material</i>	Ball - duplex stainless steel - ASTM A182 - F51
	Stem - duplex stainless steel - ASTM A182 - F51
<i>Seat material</i>	CGPTFE (20% Carbon 5% Graphite) (Encapsulated seats)
<i>Seal material 1st Body Seal</i>	CGPTFE (20% Carbon 5% Graphite)
<i>Seal material Fireseals</i>	Graphite stem packing and outside #2 Body Seal
<i>Bolting material</i>	UNS 31803 (Duplex)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA EN - ISO 10497
- 2 - Certification according to EN 10204/3.1. Full traceable body & trim certs available
100% European manufacture to Norsok standards
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Valves fitted with antistatic device
- 5 - Corrosion test, and micrographic examination on Forgings
- 6 - Lever, nut, stop pin etc all 316SS
- 7 - Temp Rating -51°C to 280°C (pressure limitations apply at max temp,
stem extension required below -46°C)
- 8 - Fugitive emission prototype certified & witness tested. SIL 3 certified

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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 169-PGE-G
<i>Valve type</i>	Ball Valve - MEGA STAR - Full bore - 3pce bolted body Inside (enclosed) body bolting
<i>Pressure/temp Rating</i>	ASME/ANSI 2500 CLASS (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged stainless steel (17-4PH) c/w Locking Device (8)
<i>End connections</i>	Integral flanges to ASME/ANSI 2500 RF smooth finish or RTJ
<i>Body material</i>	Forged Duplex stainless steel - ASTM A182 F51 (4) (6)
<i>Trim material</i>	Ball - Duplex stainless steel - ASTM A182 F51
	Stem - Duplex stainless steel - ASTM A182 F51
<i>Seat material</i>	PEEK (Encapsulated seats)
<i>Seal material</i>	AED Elast-O-Lion 985 (7)
<i>Seal material Fireseals</i>	Graphite Stem Packing and Outside Body Seal
<i>Bolting material</i>	UNS 31803 (Duplex)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA EN/ISO 10497 - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs,
100% European manufacture to Norsok standards
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled & passivated body
- 5 - Valves fitted with antistatic device
- 6 - Corrosion test, dye penetrant test and micrographic examination on forgings
- 7 - Temperature: -51°C min, 155°C max (pressure limitations apply at maximum temp)
1st body seal static - temp conforms
- 8 - 316SS nut & stop pin, 17-4PHSS lever, ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified

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 SIPM APPROVED	PED 97/23 EC 0038 RPS 0160304/01	ATEX 94/9 CE Tech. File N° ST01 ATEX	 AD-WD	 P10228 P10227	 MAC/10699/3/TO/99 MAC/10699/1/TO/99	 6D-0233	 TYPE APPROVED SIL3
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VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 169-PGE-G
<i>Valve type</i>	Ball Valve - MEGA STAR - Full bore - 3pce bolted body Inside (enclosed) body bolting
<i>Pressure/temp Rating</i>	ASME ANSI 1500 CLASS (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged stainless steel (17-4PH) c/w Locking Device (8)
<i>End connections</i>	Integral flanges to ASME/ANSI 1500 RF smooth finish or RTJ
<i>Body material</i>	Forged Duplex stainless steel - ASTM A182 F51 (4) (6)
<i>Trim material</i>	Ball - Duplex stainless steel - ASTM A182 F51
	Stem - Duplex stainless steel - ASTM A182 F51
<i>Seat material</i>	PEEK (Encapsulated seats)
<i>Seal material</i> <i>1st Body Seal</i>	AED - Elast-O-Lion 985 (7)
<i>Seal material</i> <i>Fireseals</i>	Graphite Stem Packing and Outside Body Seal
<i>Bolting material</i>	UNS 31803 (Duplex)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to - API 607 - API 6FA EN - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs, 100% European manufacture to Norsok standards
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled & passivated body
- 5 - Valves fitted with antistatic device
- 6 - Corrosion test, micrographic examination on all forgings
- 7 - Temperature: -51°C min, 155°C max (pressure limitations apply at maximum temp)
1st body seal static - temp conforms
- 8 - 316SS nut & stop pin, 17-4PHSS lever, ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified

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VALVE DATA SHEET









Manufacturer: Starline S.p.a	Valve code 169-PGE-G
<i>Valve type</i>	Ball Valve - MEGA STAR - Full bore (11) - 3pce bolted body Inside (enclosed) body bolting
<i>Pressure/temp Rating</i>	ASME ANSI 1500 CLASS (7)
<i>Trim Construction</i>	Floating ball - anti blowout - encapsulated seats
<i>Valve operator</i>	Lever operated - forged stainless steel (17-4PH) c/w Locking Device (8)
<i>End connections</i>	Integral flanges to ASME/ANSI 1500 RF smooth finish or RTJ
<i>Body material</i>	Forged Duplex stainless steel - ASTM A182 F51 (4) (6)
<i>Trim material</i>	Ball - Duplex stainless steel - ASTM A182 F51
	Stem - Duplex stainless steel - ASTM A182 F51
<i>Seat material</i>	PEEK (Encapsulated seats)
<i>Seal material</i> <i>1st Body Seal</i>	AED Elast-O-Lion 985 (7)
<i>Seal material</i> <i>Fireseals</i>	Graphite Stem Packing and Outside Body Seal
<i>Bolting material</i>	UNS 31803 (Duplex)

Notes: (All notes apply whether referenced or not)

- 1 - Certified Fire safe to API 607 - API 6FA - EN - ISO 10497
- 2 - Certification according to EN 10204/3.1 Full traceable body & trim certs, 100% Western European manufacture, to Norsok standards
- 3 - Materials of construction according to NACE MR-01-75
- 4 - Pickled & passivated body
- 5 - Valves fitted with antistatic device
- 6 - Corrosion test, micrographic examination on forgings
- 7 - Temperature: -51°C min, 155°C max (pressure limitations apply at maximum temp)
1st body seal static - temp conforms
- 8 - 316SS nut & stop pin, 17-4PH SS lever, ISO mount pad
- 10 - Fugitive emission prototype certified & witness tested. SIL3 certified
- 11 - Full Bore to schedule 160 pipe ID

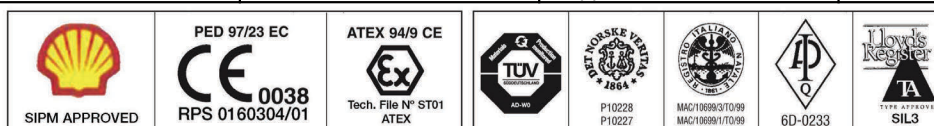
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 SIPM APPROVED	 PED 97/23 EC 0038 RPS 0160304/01	 ATEX 94/9 CE Tech. File N° ST01 ATEX	 AD-W0	 P10228 P10227	 MAC/10699/3/TO/99 MAC/10699/1/TO/99	 6D-0233	 TYPE APPROVED SIL3
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VALVE DATA SHEET



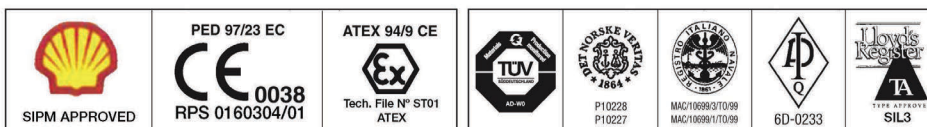
Manufacturer: Starline S.p.a	Valve code 105-NGE-G		
<i>Valve type</i>	Ball Valve - ULTRA STAR - Full bore to API6D - 3 pc bolted		
<i>Press/temp rating</i>	ASME/ANSI CLASS 2500		
<i>Trim Construction</i>	Trunnion mounted - anti blowout stem		
<i>Valve operator</i>	Gear operated - enclosed weather proof Rotork Italy (7)		
<i>End connections</i>	Flanged ASME/ANSI RF Smooth Finish or RTJ		
<i>Body material</i>	Forged carbon steel - A350 LF2 (4) (6)		
<i>Trim material</i>	Ball - stainless steel ASTM A182 F316/316L (dual certified)		
	Stem - stainless steel ASTM A182 F51/17-4PH SS		
	Trunnion - stainless steel ASTM A182 F51/17-4PH SS (13)		
	Seat - stainless steel ASTM A182 F316/316L (dual certified)		
<i>External Components</i>	Drain, plug, trunnion flange & cap screws, injectors, fixtures - 316SS		
<i>Seat material</i>	Devlon V		
<i>Seal material</i>	Graphite James Walker, Elast-O-Lion 985 (AED)		
<i>Bolting material</i>	A320 L7M (Galvanised) - NACE MR-01-75 (Dual conforms to A193 B7M)		
<i>Sealant Injection</i>	To seats and stem		
<p>Notes: (All notes apply whether referenced or not)</p> <p>1 - Certified Fire safe to - API 607 - API 6FA - EN - ISO 10497</p> <p>2 - Certification according to EN 10204/3.1. Full traceable body & trim certificates 100% Western European manufacture. Tested to API6D</p> <p>3 - Materials of construction according to NACE MR 01-75</p> <p>4 - Valves protected against corrosion by phosphating treatment</p> <p>5 - Valves fitted with antistatic device</p> <p>6 - 0.22% maximum carbon content, LF2 Class I, -46°C charpies tested, dual conforming A105N. 3mm corrosion allowance</p> <p>7 - ISO mount pad, lockable (c/w gearbox). Galvanised bracket.</p> <p>8 - Temp -46°C to 155°C max (pressure limitations apply at max temp)</p> <p>10 - Fugitive emission sample prototype certified & witness tested. SIL 3 certified.</p> <p>11 - Bi-directional, self relieving seats</p> <p>12 - Double Block & Bleed capable</p> <p>13 - The complete trunnion is 316 SS including the trunnion flange and cap screws.</p>			
by MT	Checked JB	approved BT	rev. 01



VALVE DATA SHEET



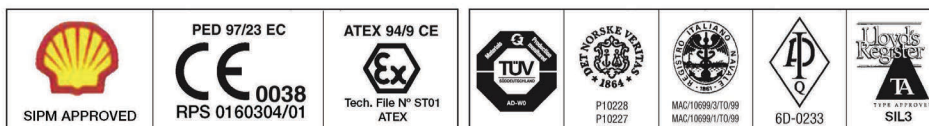
Manufacturer: Starline S.p.a	Valve code 105-NGE-G		
<i>Valve type</i>	Ball Valve - ULTRA STAR - Full bore - 3 pcs bolted const.		
<i>Press/temp rating</i>	ASME/ANSI CLASS 600		
<i>Trim Construction</i>	Trunnion mounted - anti blowout stem		
<i>Valve operator</i>	Lever operated - Forged carbon steel (9), c/w Locking Device (9)		
<i>End connections</i>	Flanged ASME/ANSI RF Smooth Finish or RTJ		
<i>Body material</i>	Forged carbon steel - A350 LF2 (4) (6)		
<i>Trim material</i>	Ball - stainless steel ASTM A182 F316/316L (dual certified)		
	Stem - stainless steel ASTM A182 F316/316L (dual certified)		
	Trunnion - stainless steel ASTM A182 F316/316L (dual certified (14))		
	Seat - stainless steel ASTM A182 F316/316L (dual certified)		
<i>External Components</i>	Drain, plug, injectors, trunnion flange & cap screws, fixtures - 316SS		
<i>Seat material</i>	PTFE reinforced (20% carbon 5% Graphite)		
<i>Seal material</i>	Graphite, Elast-O-Lion 985 (AED)		
<i>Bolting material</i>	A320 L7M (Galvanised) - NACE MR-01-75 (Dual conforms to A193 B7M)		
<p>Notes: (All notes apply whether referenced or not)</p> <ul style="list-style-type: none"> 1 - Certified Fire safe to - API 607 - API 6FA - EN - ISO 10497 2 - Certification according to EN 10204/3.1. Full traceable body & trim certificates 100% European manufacture. Tested to API6D 3 - Materials of construction according to NACE MR 01-75 4 - Valves protected against corrosion by phosphating treatment 5 - Valves fitted with antistatic device 6 - 0.22% maximum carbon content, LF2 Class I, -46°C charpies tested, dual conforming A105N. 3mm corrosion allowance 7 - ISO mount pad, lockable open/closed 8 - Temp -46°C to 155°C max (pressure limitations apply at max temp) 9 - Galvanised for offshore salt spray resistance 10 - Fugitive emission prototype certified & witness tested. SIL 3 certified. 11 - Bi-directional, self relieving seats 12 - Double Block & Bleed capable 13 - Sealant Injection facility 14 - The complete trunnion is 316 SS including the trunnion flange and cap screws. 			
by MT	Checked JB	approved BT	rev. 2



VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 105-NGV-G		
<i>Valve type</i>	Ball Valve - ULTRA STAR - Full bore - 3 pcs bolted const.		
<i>Press/temp rating</i>	ASME/ANSI CLASS 600		
<i>Trim Construction</i>	Trunnion mounted - anti blowout stem		
<i>Valve operator</i>	Lever operated - Forged carbon steel (9), c/w Locking Device (9)		
<i>End connections</i>	Flanged ASME/ANSI RF Smooth Finish or RTJ		
<i>Body material</i>	Forged carbon steel - A350 LF2 (4) (6)		
<i>Trim material</i>	Ball - stainless steel ASTM A182 F316/316L (dual certified)		
	Stem - stainless steel ASTM A182 F316/316L (dual certified)		
	Trunnion - stainless steel ASTM A182 F316/316L (dual certified) (14)		
	Seat - stainless steel ASTM A182 F316/316L (dual certified)		
<i>External Components</i>	Drain, plug, injectors, trunnion flange & cap screws, fixtures - 316SS		
<i>Seat material</i>	Devlon V		
<i>Seal material</i>	Graphite, James Walker FR58/90 Viton (AED)		
<i>Bolting material</i>	A320 L7M (Galvanised) - NACE MR-01-75 (Dual conforms to A193 B7M)		
<p>Notes: (All notes apply whether referenced or not)</p> <ul style="list-style-type: none"> 1 - Certified Fire safe to - API 607 - API 6FA - EN - ISO 10497 2 - Certification according to EN 10204/3.1. Full traceable body & trim certificates 100% European manufacture. Tested to API6D 3 - Materials of construction according to NACE MR 01-75 4 - Valves protected against corrosion by phosphating treatment 5 - Valves fitted with antistatic device 6 - 0.22% maximum carbon content, LF2 Class I, -46°C charpies tested, dual conforming A105N. 3mm corrosion allowance 7 - ISO mount pad, lockable open/closed 8 - Temp -29°C to 155°C max (pressure limitations apply at max temp) 9 - Galvanised for offshore salt spray resistance 10 - Fugitive emission prototype certified & witness tested. SIL 3 certified. 11 - Bi-directional, self relieving seats 12 - Double Block & Bleed capable 13 - Sealant Injection facility 14 - The complete trunnion is 316SS including the trunnion flange and cap screws 			
by MT	Checked JB	approved BT	rev. 01



VALVE DATA SHEET



Manufacturer: Starline S.p.a	Valve code 105-NGE-G		
<i>Valve type</i>	Ball Valve - ULTRA STAR - Full bore - 3 pcs bolted		
<i>Press/temp rating</i>	ASME/ANSI CLASS 1500		
<i>Trim Construction</i>	Trunnion mounted - anti blowout stem		
<i>Valve operator</i>	Lever operated - Forged carbon steel (9), c/w Locking Device (9)		
<i>End connections</i>	Flanged ASME/ANSI RF Smooth Finish or RTJ		
<i>Body material</i>	Forged carbon steel - A350 LF2 (4) (6)		
<i>Trim material</i>	Ball - stainless steel ASTM A182 F316/316L (dual certified)		
	Stem - stainless steel ASTM A182 F316/316L (dual certified)		
	Trunnion - stainless steel ASTM A182 F316/316L (dual certified) (14)		
	Seat - stainless steel ASTM A182 F316/316L (dual certified)		
<i>External Components</i>	Drain, plug, injectors, trunnion flange & cap screws, fixtures - 316SS		
<i>Seat material</i>	Devlon V		
<i>Seal material</i>	Graphite, Elast-O-Lion 985 (AED)		
<i>Bolting material</i>	A320 L7M (Galvanised) - NACE MR-01-75 (Dual conforms to A193 B7M)		
<p>Notes: (All notes apply whether referenced or not)</p> <p>1 - Certified Fire safe to - API 607 - API 6FA - EN - ISO 10497</p> <p>2 - Certification according to EN 10204/3.1. Full traceable body & trim certificates 100% European manufacture. Tested to API6D</p> <p>3 - Materials of construction according to NACE MR 01-75</p> <p>4 - Valves protected against corrosion by phosphating treatment</p> <p>5 - Valves fitted with antistatic device</p> <p>6 - 0.22% maximum carbon content, LF2 Class I, -46°C charpies tested, dual conforming A105N. 3mm corrosion allowance</p> <p>7 - ISO mount pad, lockable open/closed</p> <p>8 - Temp -46°C to 155°C max (pressure limitations apply at max temp)</p> <p>9 - Galvanised for offshore salt spray resistance</p> <p>10 - Fugitive emission prototype certified & witness tested. SIL 3 certified.</p> <p>11 - Bi-directional, self relieving seats</p> <p>12 - Double Block & Bleed capable</p> <p>13 - Sealant Injection facility</p> <p>14 - The complete trunnion is 316SS including the trunnion flange and cap screws.</p>			
by MT	Checked JB	approved BT	rev. 02

