



PURCHASING INFORMATIONS			HOW TO ORDER STARLINE BALL VALVES							NOTES	
SIZE	CLASS	END CONNECTION	***	1 = PORT DESIGN	2 = TYPE OF VALVE	3 = BASE MATERIAL BODY/TRIM	4 = INSERT SEAT MATERIAL **	5 = STEM PACKING	6 = FIRST BODY SEAL	7 = *	
NOTE: These three elements are not code and must be clearly shown on all order. <b>A complete valve specification requires the following information:</b> 1. Size-Nominal pipe size and require valve bore, in accordance with API6D. 2. Working pressure. 3. Type of end connections (if BW ends, specify the schedule of connecting pipe). 4. Full description of actual service in respect of temperature, line fluid, presence of corrosion, etc to allow a proper material selection. 5. Any special feature like stem extension, etc. 6. Type of operator: manual, electric, pneumatic, or hydraulic valve operators may be installed at Purchaser' option. <b>If a power operator is required, the following information shall be provided by Purchaser.</b> - Maximum differential pressure during operation. - Frequency of open-close operation. - Desired time to open/to close. - Power supply (voltage, etc, or line pressure for pneumatic or hydraulic actuators, etc.) - Optional equipment required (manual emergency override, local/remote control, explosion proof enclosures etc.).			<b>L2</b> = 90° L Standard Horizontal <b>T5</b> = 90° T Standard Horizontal <b>L1</b> = 180° L Special Horizontal <b>T4</b> = 90° T Special Horizontal <b>T3</b> = 90° T Special Horizontal <b>T6</b> = 90° T Special Horizontal <b>T1</b> = 180° T Special Horizontal <b>T7</b> = 180° T Special Horizontal <b>T9</b> = 180° T Special Horizontal <b>L4</b> = 180° L Vertical <b>L5</b> = 90° L Vertical <b>X</b> = Double L (x) (4Way) Horizontal <b>T8</b> = 180° T (4Way) Horizontal <b>L7</b> = 180° L (4Way) Horizontal	<b>1</b> = FULL BORE <b>2</b> = REDUCED BORE	<b>FLOATING BALL</b> <b>1</b> = SUPER STAR** <b>2</b> = STANDARD <b>3</b> = MASTER STAR <b>5</b> = EUROSTAR ISO <b>6</b> = MEGA STAR <b>7</b> = SPLIT STAR  <b>MULTIPOINT VALVES ***</b> <b>8</b> = 3 WAY ** <b>9</b> = 4 WAY **  <b>TRUNNION MOUNTED</b> <b>0</b> = ULTRASTAR  <b>METAL TO METAL SEATS</b> <b>4</b> = METAL STAR	<b>1</b> = A105 / F6 <b>2</b> = A105 / MONEL <b>3</b> = A105 / 316 <b>4</b> = LF2 / F6 <b>5</b> = LF2 / 316 <b>6</b> = F316 / 316 <b>7</b> = F316L / 316L <b>8</b> = MONEL / MONEL <b>9</b> = F51 / F51 <b>0</b> = FOR ALL DIFFERENT MATERIAL	<b>THERMOPLASTIC</b> <b>R</b> Reinforced PTFE 15% Fiberglass <b>S</b> Reinforced PTFE 20%C. + 5%Gr. <b>T</b> Virgin PTFE  <b>N</b> DEVLON-V® ** Polyamide-Nylon  <b>D</b> DELRIN® ** Acetal resin  <b>K</b> KEL'F® ** PCTFE  <b>P</b> PEEK® ** Polyether ketone  <b>E</b> VESPEL SP21® ** Polyimide <b>U</b> UHMWPE Polyethylene <b>Z</b> TEFZEL® ETFE (70G-25)	<b>G</b> Graphite <b>R</b> Reinforced TFE 15% Fiberglass <b>S</b> Reinforced TFE 20%C. + 5% Gr. <b>T</b> Virgin PTFE	<b>G</b> Graphite <b>H</b> O-Ring in HNBR/Hydrin <b>R</b> Reinforced TFE 15% Fiberglass <b>T</b> Virgin PTFE <b>V</b> O-Ring in Viton <b>S</b> Reinforced TFE 20% C. + 5% Gr.	<b>G *</b> <b>T</b> <b>V</b> <b>S</b>	Fire-seals are not in code because are always in Graphite.* Example: 2" class 600 RTJ Devlon seats CGPTFE Inner Body Seals(s) LF2 Body TRIM in 316 BOLTS L7M Temp. -46° +150°C. NACE. Full Bore. <b>2" 600 RTJ 105 NGS-G*</b>  For SUPER STAR and MEGA STAR types with hard seat D-N-K-E-P a soft seal behind the seat is required. **  For MULTIPOINT valve type of configuration port must be specified. ***

\* 7<sup>th</sup> digit suffix -G to indicate graphite outside body gasket. Major global Starline stockist Global Supply Line in Australia mandates -G is used for firesafe.

Non firesafe 7<sup>th</sup> digit will be -T, -V, -S, -G etc as applicable.

\*\* In Superstar (600LB flanged & non flanged) & Megastar & Multi-star if PEEK or DEVLON or DELRIN/KELF/VESPEL hard seats, there must be seal behind seat which will be same as first (inside) body seal i.e. NGS-G uses 'S', NGV-G uses 'V', NGG-G uses 'G'. Split Star (and flanged Multi-star 150/300 class) is only 150/300LB so no needs back ring.

\*\*\* Multiway must have prefix to indicate port type.

#### METAL SEAT BACKING RING

Only Super Star up to 40NB FB (but not 150-600LB flanged only non flanged), and Multi-Port has a metal seat backing ring. No matter what the seat material the metal backing ring itself must also have a seal behind it. Once again it is same material as first body seal. The metal backing ring material is the same material as the valve body.

Click below for ball stock list

Global Supply Line Pty Ltd

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Worlds largest Starline & Air Torque stock range