

Building connections that last™



Sharpe® Series 86

Instrumentation Ball Valve Datasheet



Design and Features:

Body Material

316L Stainless Steel.

Tube Full Port Design (TFP)

Tube full port maintains unrestricted flow of media.

Three-Piece Design

In-line serviceable swing out center section allows easy access to internal valve components without disturbing alignment of tubing.

Floating Ball Design

Precision engineered and machined solid stainless steel ball with relief hole in the stem slot prevents build-up of cavity pressure while the valve is open.

Stem Design

Live-loaded, bottom entry, blowout proof stem featuring packing that extends valve cycle life over conventional ball valves and is best choice for actuation.

Stem seals are live-loaded using Belleville springs to provide consistent sealing forces, reducing or eliminating the need for frequent seal adjustment.

ISO 5211 Integral Mounting Pad

Ideal for actuation.

Centering lip feature assures precise alignment of bracket, stem and coupler.

Actuators may be retrofitted on existing Sharpe® Series 86 without disruption of line integrity.

Allows for secondary containment unit to be added when necessary.

Tongue and Groove Design

Fully encapsulated body seals, allowing ends to be welded in-line, without time consuming and labor intensive disassembly.

Design compensates for bolt expansion and reduces the chance of external leakage.

Helps prevent seal ruptures in high pressure, cryogenic or steam applications.

Encapsulated Body Bolts

Heavy duty stainless steel bolting is protected from outside environment assuring valve integrity. Ideal for wash downs.

Lockable Handle

All Sharpe® Series 86 valves are supplied with lever handles and are designed to permit locking the valve in either the open or closed position.

Traceability

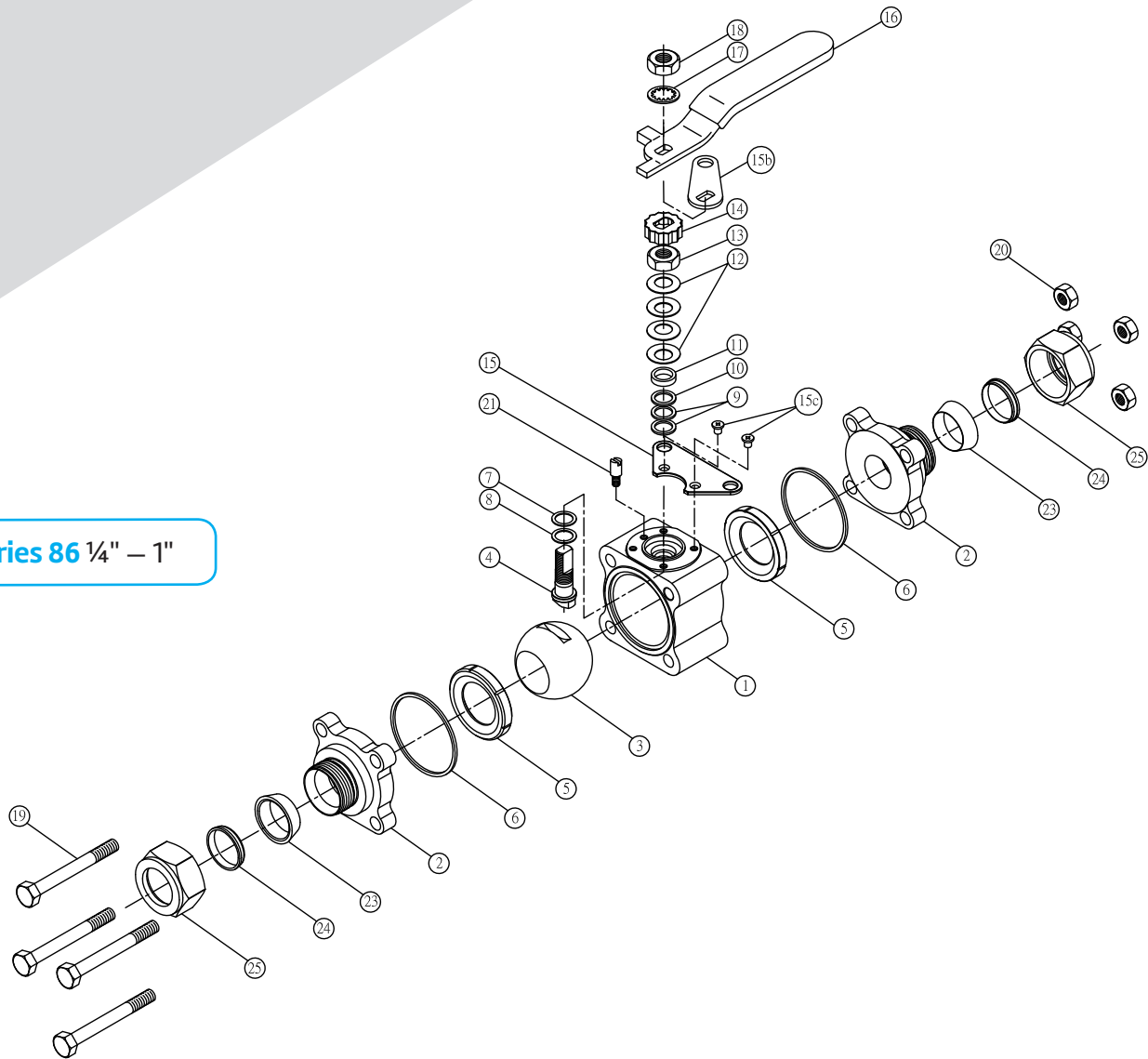
Body and end piece castings are marked with heat codes providing traceability to the chemical analysis and material test reports performed at the foundry. CMTR's (Certified Material Test Reports) are available upon request.



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Series 86 ¼" – 1"

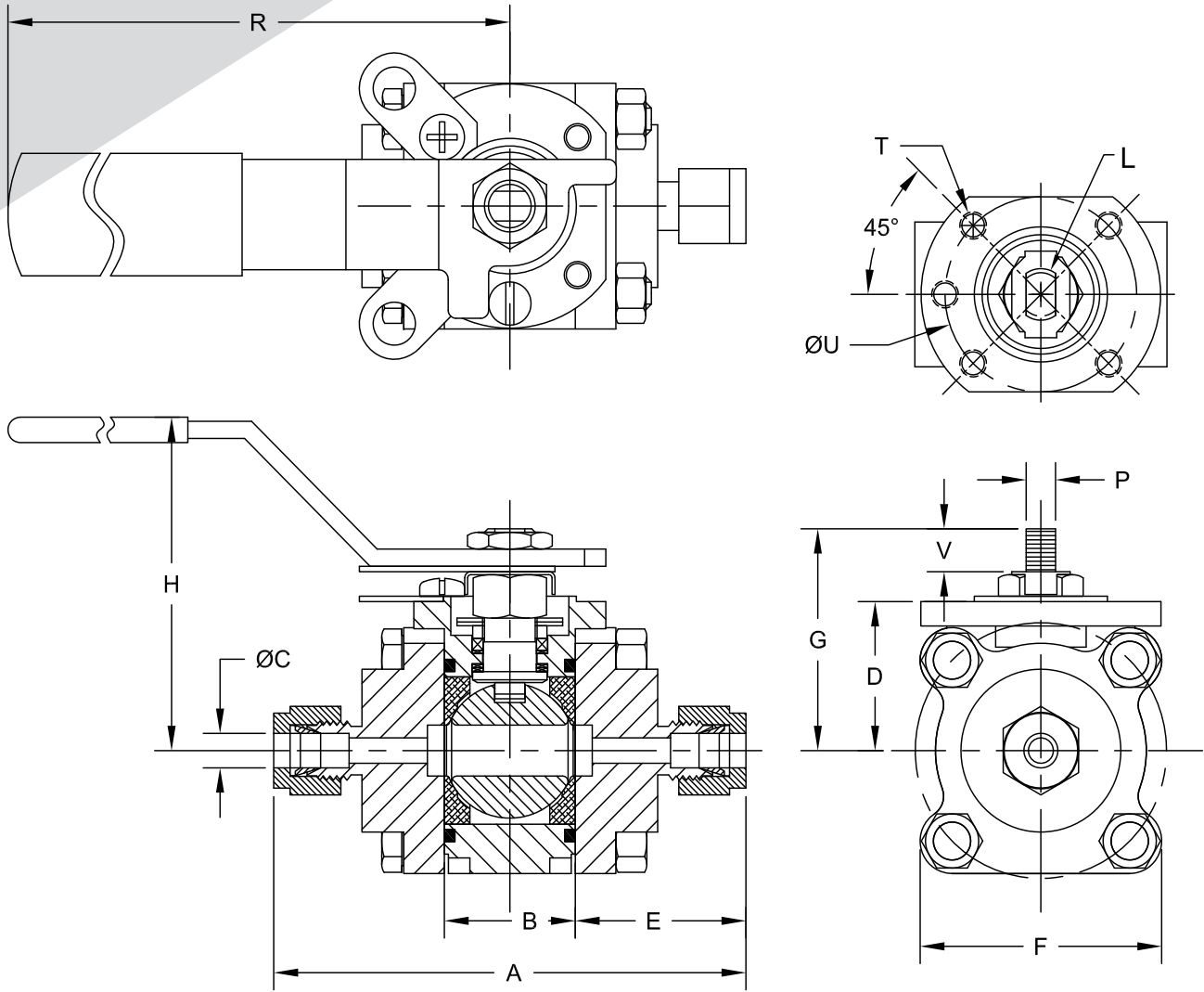


Parts and Materials (Sizes ¼" – 1")

No.	Part Name	Qty	Material	No.	Part Name	Qty	Material
1	Body	1	316L Stainless Steel ASTM A351 CF3M	14	Lock Tab	1	300 Series Stainless Steel
2	Instrument Ends	2	316L Stainless Steel ASTM A351 CF3M	15	Lower Lock Hatch	1	300 Series Stainless Steel
3	Ball	1	316L Stainless Steel	15B	Upper Lock Hatch	1	300 Series Stainless Steel
4	Stem	1	316L Stainless Steel	15C	Latch Bolt	2	300 Series Stainless Steel
5	Seat	2	PTFE, RTFE, TFM®, PTFE Cavity Filler	16	Handle	1	300 Series Stainless Steel
6	Body Seal	2	PTFE, TFM®	17	Lock Washer	1	300 Series Stainless Steel
7	Thrust Bearing	1	TFM®	18	Handle Nut	1	300 Series Stainless Steel
8	Thrust Bearing	1	TFM®	19	Body Bolts	4	304 Stainless Steel
9	Stem Packing	2	TFM®	20	Nuts	4	316 Stainless Steel
10	Seal Protector	1	TFM®	21	Stop Pin	1	300 Series Stainless Steel
11	Gland	1	300 Series Stainless Steel	23	Front Ferrule	2	316 Stainless Steel
12	Belleville Washer	4	300 Series Stainless Steel	24	Back Ferrule	2	316 Stainless Steel
13	Packing Nut	1	300 Series Stainless Steel	25	Companion Nut	2	316 Stainless Steel, Silver Plated

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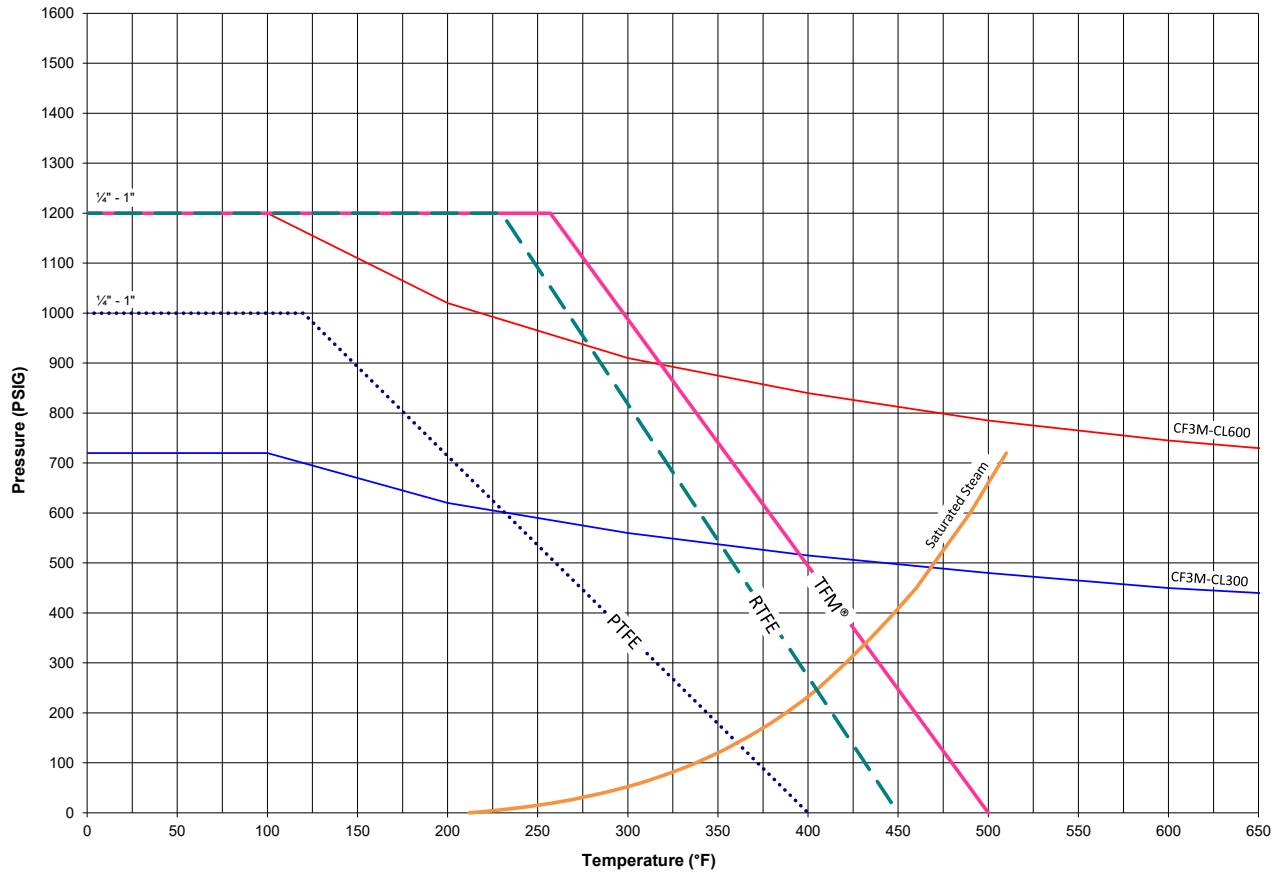
Dimensions (Inches)

Size	A	B	C	D	E	F	G	H	L	P	R	T	U	V
¼	3.59	0.97	0.254	1.10	1.31	1.75	1.64	2.23	3/8-24	.218/.220	4.50	M5x.8	1.42(F03)	0.45
⅜	3.65	0.97	0.380	1.10	1.37	1.75	1.64	2.23	3/8-24	.218/.220	4.50	M5x.8	1.42(F03)	0.45
½	3.91	0.97	0.505	1.10	1.47	1.75	1.64	2.23	3/8-24	.218/.220	4.50	M5x.8	1.42(F03)	0.45
¾	4.13	1.05	0.755	1.16	1.54	2.05	1.69	2.28	3/8-24	.218/.220	4.50	M5x.8	1.42(F03)	0.39
1	5.12	1.54	0.997	1.62	1.79	2.42	2.36	2.84	7/16-20	.293/.295	5.79	M5x.8	1.65(F04)	0.65

Note:

The dimensions above are for informational purpose only. Please refer to Sharpe® Valves if you need dimensions for construction.

Pressure-Temperature Ratings Series 86



Note:
 *Ratings are for the valve body, specific ends may cause the ratings to change.

Instrumentation Ball Valve Sharpe® Series 86



How to order Series 86

Fig: $\frac{3}{4}$ - **86** - **6** - **6** - **R** - **T** - **IE**

Size	Series	Body	Ball & Stem	Seat	Seal	Ends
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Size	Series	Seat	Ends	Options
$\frac{1}{4}$	86	T PTFE	IE Instrumentation End	OH Oval Handle
$\frac{3}{8}$	Body	M TFM®	TE Threaded Ends (NPT)*	X Oxygen Clean* (as per Mfg's Standards)
$\frac{1}{2}$	6 316L Stainless Steel	R RTFE		SF Silicone Free*
$\frac{3}{4}$	Ball & Stem	C PTFE Cavity Fillers		
1	6 316L Stainless Steel	Seal		
		T PTFE		
		M TFM®		

Note:

*POA

TFM® is a registered trademark of Dyleon, LLC.

Due to continuous development of our product range, we reserve the right to change the dimensions and information for this product as required.

About ASC Engineered Solutions

ASC Engineered Solutions is defined by quality—in its products, services and support. With more than 1,400 employees, the company's portfolio of precision-engineered piping support, valves and connections provides products to more than 4,000 customers across industries, such as mechanical, industrial, fire protection, oil and gas, and commercial and residential construction. Its portfolio of leading brands includes ABZ Valve®, AFCON®, Anvil®, Anvil EPS, Anvil Services, Basic-PSA, Beck®, Catawissa, Cooplet®, FlexHead®, FPPI®, Gruklok®, J.B. Smith, Merit®, North Alabama Pipe, Quadrant®, SCI®, Sharpe®, SlideLOK®, SPF® and SprinkFLEX®. With headquarters in Commerce, CA, and Exeter, NH, ASC also has ISO 9001:2015 certified production facilities in PA, TN, IL, TX, AL, LA, KS, and RI.



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