

Sharpe® Series HP80/89

High Performance Three-Piece Ball Valve Datasheet





High Performance Three-Piece Ball Valve Sharpe® Series HP80/89

ASC Engineered Solutions

Design & Features

Body Material

316 Stainless Steel & Carbon Steel

Rugged Body and End Pieces

Rugged body, with higher and deeper stem packing area to allow for more stem seals. Two cast bosses for optional fugitive emission ports. Larger ISO 5211 bolt pattern for handling higher valve torques.

Heavy Duty Stem Design

Stem diameters have been increased to meet the higher torque requirements of the most demanding applications. Stem to ball contact area is wider and larger, allowing the valve to be used for higher torque applications.

Floating Ball Design

Solid stainless steel ball with wide selection of configurations for a variety of applications including; diverting, mixing, controlling, flushing, purging and more. Floating ball seals on the downstream seat, reducing torque and assuring a bubble-tight shutoff.

Tongue and Groove Design

Fully encapsulated body seals, allowing ends to be welded inline, 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.

Larger Bolt Design

Larger diameter body bolts encapsulated body bolts for added protection and wash down applications.

ISO 5211 Top-Works Compatibility

The top-works offer compatibility for mounting a wide range of accessories. Sharpe® actuators and accessories may be retrofitted on existing valves without disruption of line integrity.

Unique Handle

A unique cast stainless steel handle specially designed to accommodate locking devices and high operating torques. A comfortable, ergonomic, non-slip, hand grip design. Handle length according to API 608 requirements.

Tamper Proof Locking Device

All Sharpe® Valves come standard with a lockable handle. The optional, Sharpe® exclusive, tamper proof locking device cannot be removed with a lock in place. When not being used with a lock its springs ensure the locking device snaps into place in the open or closed position to prevent accidental operation.

Stem Sealing

Increased Stem Sealing Area

Allows for a range of sealing combinations for severe applications and other stringent design demands.

Live-Loaded Stem

Two pairs of concave and opposing spring washers providel additional compensation for seal wear.

Safe Design

Blowout proof stem ensures the stem cannot be blown out by accidental medium pressure rise.

Wear Resistance

The thrust washer is either metallic for higher temperatures and wear resistance, or PEEK for lower temperatures.

Anti-Static

Static build-up discharges by anti-static device in stem or the metallic thrust washer.

Stem Assemblies

Various stem assemblies are available based on application requirements.

Standard – A multiple pack of Chevron "V" shaped stem seals for better sealing in TFM® or Nova materials.

High Temperature – Double pack of flexible graphite seals for sealing under high temperature conditions.

Fugitive Emission – 2-pack stem seals in PTFE or graphite, with lantern ring to allow leak detection through the emission port(s).

High Cycle – Unique design for demanding high cycle applications that consist of multi-system sealing devices in the stem bonnet.



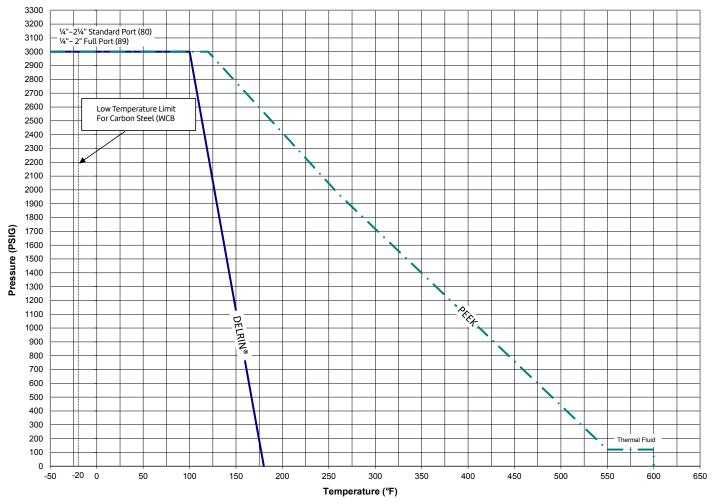


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Pressure - Temperature Ratings Series HP80/HP89



Sharpe® Seat Materials

D - Delrin®:

This material is very rigid and does not undergo cold flow. It has a combination of strength, stiffness, hardness, dimensional stability, toughness, fatigue resistance, abrasion resistance, low wear and low friction. It can withstand pressure up to 6000 PSIG depending on valve size and class rating. Has a temperature range of -70°F to 180°F (-57°C to 82°C).

P – PEEK (Unfilled) Polyetheretherketone:

PEEK Polymer offers a unique combination of chemical, mechanical and thermal properties. Excellent for water and steam applications at elevated temperatures up to $600^{\circ}F$ (315°C). Color – beige.

Notes: Sharpe® HP80/89 series valves 3000 CWP:

The valves are rated for their maximum cold working pressure. The graphs are based on laboratory testing and our experience in field. The maximum pressure/temperature ratings are limited to the lowest of the body or seat material. High tensile bolts and nuts A193–B8 CL 2 / 300 Series Stainless nuts.

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How to order Series HP80/89

2"	HP80	-	6	6	6	7	P	G	G	-	SW	/ TE
Size	Series	_	Body Material	End Material	Ball Material	Stem Material	Seat Material	Body Seal	Stem Packing		En	d Style
	Sizes		s	Series	Body Material			Stem Material		Stem Packing		
80	89		HP80 Standard Port		4 (4 Carbon Steel			7 17-4PH		Nov	ra
-	1/4"		HP89 F	Full Port	6 3	6 316 Stainless Steel						phite
1/2"	3/8"							Seat Material				
3/4"	1/2"					End Material			D Delrin®		End Style	
1"	3/4"				4	4 Carbon Steel		P \	/irgin PEEK	TE	Thr	eaded
1¼"	1"				6	316 Stainless Steel 6 (Welded ends will be		Body Seal		SW	Soc	ketweld
1½"	1¼"					type L)		G (G Graphite			
2"	1½"					Ball Material		V \	/iton®			
2½"	2"				6	316 Stainles	s Steel			1		

Note

Responsibility for proper selection, use and maintenance of any product remains soley with the purchaser and end user. We reserve the right to modify or improve the designs or specifications of any product, at any time without notice.

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