

Perar Ball Valves, One of the first.... since 1962

Founded in 1962, Perar is one of the first Italian Manufacturers of High Quality Ball Valves. The development of the company started as leading supplier in Gas Industry, all over the domestic market.

In the following years, Perar, has experienced a continuous and steady growth in the areas of world-wide sales, production capacity, efficiency and technological development.

Perar today is one of the leading Italian manufacturers of High Quality Industrial Valves for a wide variety of applications in various fields like Oil, Gas, Petrochemical, On-Off Shore, Heavy Chemicals, and over...



Perar production includes Ball Valves in sizes from 1/2" to 60". Ansi classes 150 to 2500 and Api 2000 to Api 20000, in Carbon Steel, Stainless Steel, Duplex Steel, Super Duplex Steel, Alloy Steel, Incoloy, Monel, 6Mo, Titanium, and various others...

The construction available are:

Floating Design
Trunnion Mounted Side Entry
Trunnion Mounted Top Entry
Metal Seated
Sub-sea and Cryogenic
Bolted and Fully-Welded Body.





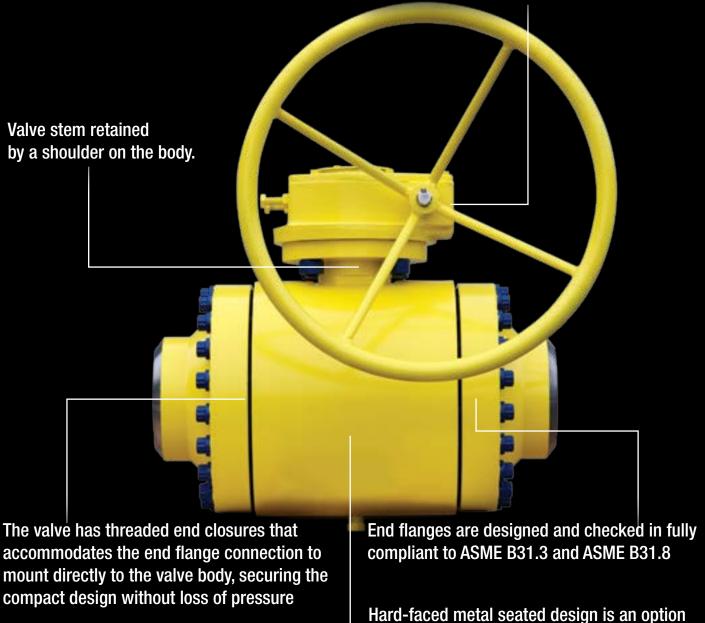


Perar Design Features - Compact Ball Valves

Three pieces side entry design with trunnion mounted or support plate configuration.

Drive train mechanism sized to safely withstand the maximum torque loads exerted by the different operating systems.

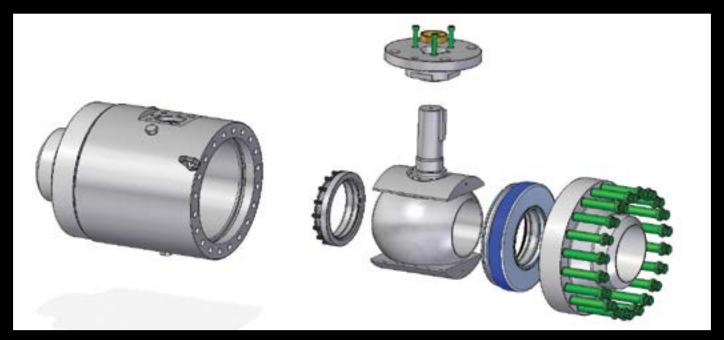
to the standard soft insert seat-to-ball sealing





system

Perar - Technical Seating Features

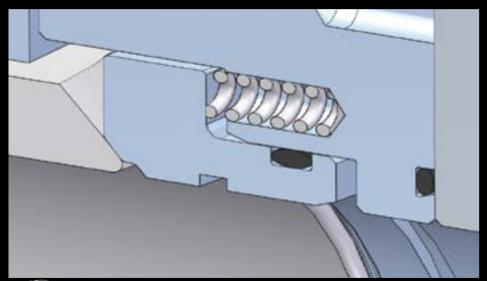


Perar Compact Ball Valves are designed according to API6A to combine a compact design with robustness and reliable performances. The valves do not rely on lubricant or grease to assist sealing between the ball and seat also when metal-to-metal sealing is used. The valve design is based on trunnion mounted or support plate configuration in order to get the operating torque as lower as possible.

COMPACT DESIGN

Three pieces side entry design with trunnion mounted or support plate configuration.

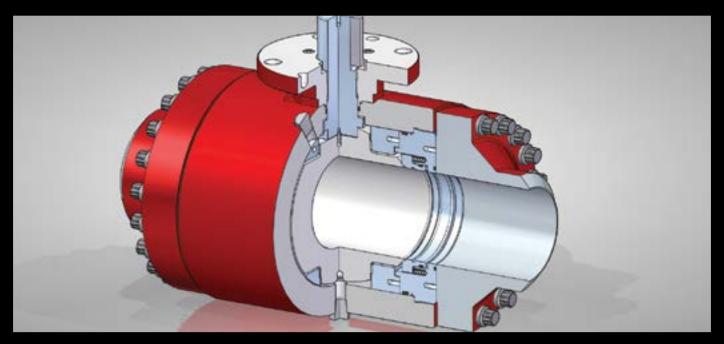
Trunnion mounted/support plated ball reduces the operating torque if compared to a floating valve.



SEAT DESIGN

Hard-faced metal seated design is an option to the standard soft insert seat-to-ball sealing system. All seats and balls are designed and optimized for metal-to-metal sealing configuration and the soft sealing trim can be easily replaced by a metal sealing system.



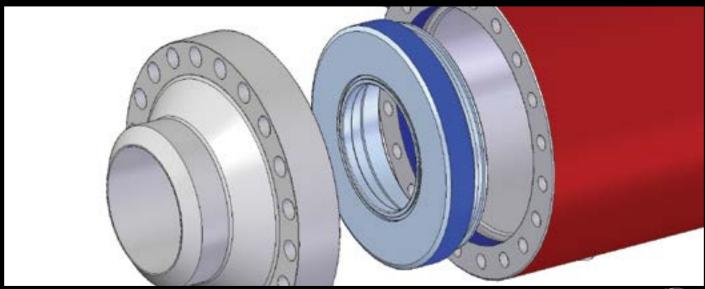


VALVE PIGGING

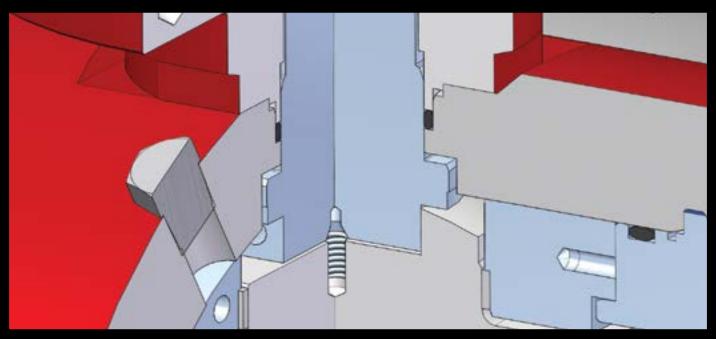
Valve is suitable for bi-directional pigging being the base design a full bore; the valve bores are based on existing piping schedule in order to minimize pressure drops or erosion due to transition areas, but tapered transition can be provided to match non-standard pipe schedules.

END CLOSURE DESIGN

The valves have a threaded end closure that get the valve compact and allow for end flange connection directly to the valve body without any loss of pressure containing capability.





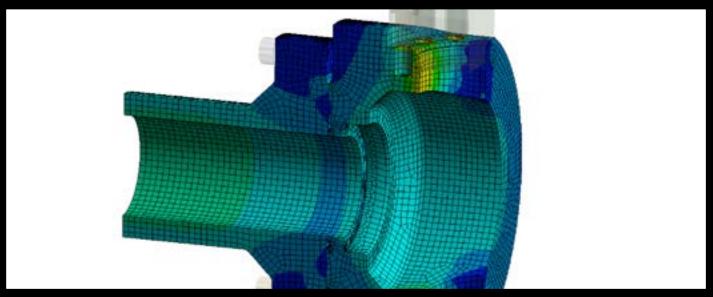


ANTI BLOW-OUT STEM

Valve stem retained by a shoulder on the body. The anti-blowout system do not rely on bonnet or gland plates.

END FLANGE DESIGN

End flanges are designed and checked with sophisticated FE simulation and the butt welded connection to the pipe is fully compliant to ASME B31.3 and ASME B31.8. The welding neck is optimized to allow the valve and the flange to withstand a bending load up to 100% of pipe yield at full working pressure assuming a pipe yield of 60000 psi.





Applicable Standards

API - American Petroleum Institute

API6A Specification for Wellhead and Christmas Tree Equipment

ASME/ANSI - American Standard Institute

ASME VIII ASME Boiler and Pressure Vessel Code: Rules for Construction of Pressure Vessels, Edition

2004 with 2005 and 2006 addenda, Section VIII, Division 2

ASME B31.3 Process Piping

ASME B31.8 Gas Transmission and Distribution Piping Systems

ASTM - American Society for testing materials

ASTM A182 Standard Spec.for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings,

and Valves and Parts for High-Temperature Service

ASTM A694 Standard Specification for Carbon and Alloy Steel Forgings for Pipe Flanges, Fittings,

Valves, and Parts for High-Pressure Transmission Service

ASTM A350 Standard Specification for Carbon and Low-Alloy Steel Forgings, Requiring Notch

Toughness Testing for Piping Components

ASTM A320 Standard Specification for Alloy-Steel and Stainless Steel Bolting for Low-Temp. Service

ASTM A193 Standard Specification for Alloy-Steel and Stainless Steel Bolting for High Temperature or

High Pressure Service and Other Special Purpose Applications

ASTM A370 Standard Test Methods and Definitions for Mechanical Testing of Steel Products

ASTM A453 Standard Specification for High-Temperature Bolting Materials, with Expansion

Coefficients Comparable to Austenitic Stainless Steels

ASTM B446 Standard Specification for Nickel-Chromium-Molybdenum-Columbium Alloy (UNS N06625),

Nickel-Chromium-Molybdenum-Silicon Alloy (UNS N06219), and Nickel-Chromium-

Molybdenum-Tungsten Alloy (UNS N06650)* Rod and Bar

ISO - International Organization for Standardization

ISO 10423:2009 Petroleum and natural gas industries—Drilling and production equipment— Wellhead and

christmas tree equipment

ISO 15156 (NACE MR0175) Sulphide Stress Cracking Resistant Materials for Oil Field Equipment

ISO 5208 Industrial valve – Pressure testing of valves

ISO 10497 Testing of valves - Fire type-testing requirements



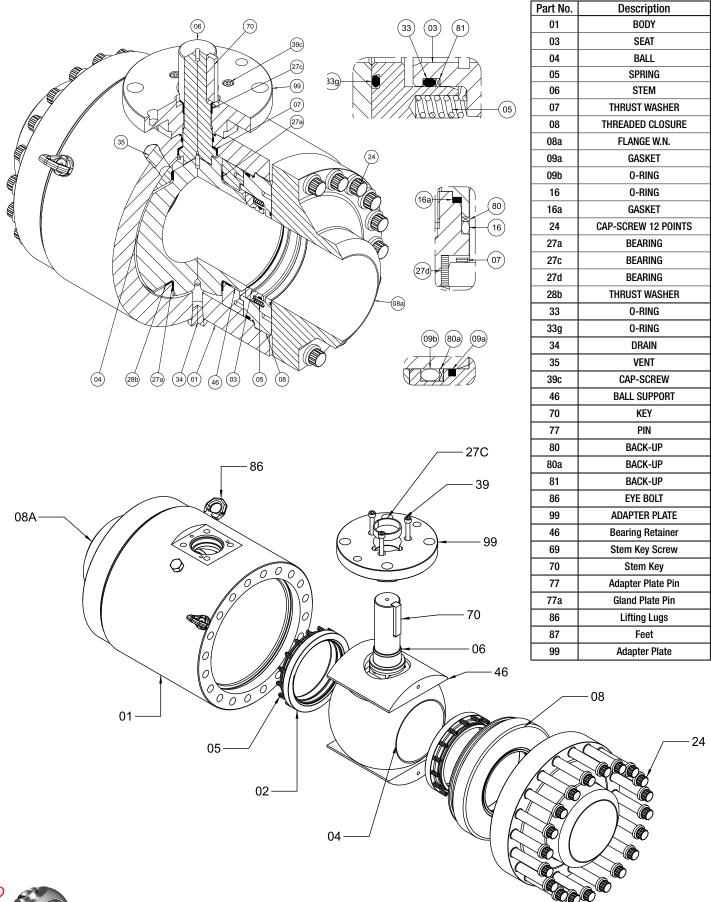


Compact Trunnion Mounted Side Entry Ball Valves



The Best Guarantee of Safety

Component Parts



Valve Material Selection

BODY, CLOSURE, FLANGE

AISI 4130 (Uncoated / Xylan Coated)
ASTM A694-F60
Duplex 22% Cr
Superduplex 25% Cr
SS 410
Inconel 625
ASTM A694-F60 + Inconel 625 overlay

TRIM (SEAT, BALL AND STEM)

AISI 4130 – 0.003" ENP ASTM A694-F60 – 0.003" ENP 17-4 PH Duplex 22% Cr Superduplex 25% Cr SS 410 Inconel 625 Inconel 718

BODY SEALS / SEAT SEALS

AISI 4130 – 0.003" ENP ASTM A694-F60 – 0.003" ENP 17-4 PH Duplex 22% Cr Superduplex 25% Cr SS 410 Inconel 625 Inconel 718

SEAT INSERT

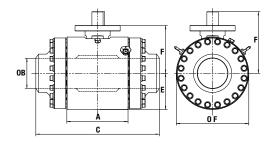
PEEK
PCTFE / KEL-F
NYLON (DEVLON V-API)
METAL WITH TUNGSTEN CARBIDE COATING (MIN. TH. 0.2 mm)

BOLTING

ASTM A320-L7 / A193-B7 (XYLAN COATED) ASTM A320-L7M / A193-B7M (XYLAN COATED) ASTM A453-GR.660 (XYLAN COATED)



Dimensional Data Class 3750 / 6250 / 10000 ps



Class 3750 psi

Size	A		В		С		D		D		F		Weight			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg		
2	5,80	147	1,90	48	12,00	305	4,30	109	3,95	100	5,70	145	62	28		
2 1/2	6,75	171	2,20	56	13,75	349	4,75	121	4,45	113	6,15	156	93	42		
3	7,55	192	2,56	65	13,95	354	5,30	135	5,05	128	7,13	181	130	59		
4	8,35	212	3,43	87	15,75	400	6,00	152	5,75	146	7,80	198	183	83		
4	9,72	247	3,82	97	18,40	467	6,57	167	6,42	163	8,40	213	247	112		
5	10,28	261	4,06	103	19,92	506	7,28	185	7,17	182	9,30	236	313	142		
6	10,87	276	5,20	132	21,35	542	8,27	210	5,33	136	10,67	271	450	204		
8	14,10	358	7,05	179	25,75	654	9,92	252	6,63	169	13,27	337	833	378		
10	16,85	428	9,10	231	30,25	768	11,90	302	7,22	184	14,45	367	1484	673		
12	19,20	488	10,75	273	34,88	886	13,85	352	8,40	214	16,80	427	2328	1056		
14	21,10	536	11,80	300	38,43	976	15,20	386	9,27	236	18,55	471	2994	1358		

Class 6250 psi

Size	A		В		(;	D		D		F		Weight			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg		
2	5,80	147	1,50	38	12,01	305	4,29	109	3,94	100	5,71	145	66	30		
2 1/2	6,75	171	1,80	46	13,74	349	4,76	121	4,45	113	6,14	156	97	44		
3	7,55	192	2,28	58	15,20	386	5,31	135	5,04	128	7,13	181	143	65		
4	8,58	218	3,15	80	17,13	435	5,98	152	5,75	146	7,80	198	190	86		
4	9,72	247	3,62	92	18,39	467	6,57	167	6,42	163	8,39	213	254	115		
5	10,28	261	4,06	103	19,92	506	7,28	185	7,17	182	9,29	236	313	142		
6	11,85	301	4,88	124	24,13	613	8,86	225	5,91	150	11,81	300	622	282		
8	16,06	408	6,80	173	29,21	742	10,94	278	6,75	172	13,50	343	1268	575		
10	19,75	502	8,50	216	35,91	912	13,43	341	8,39	213	16,77	426	2227	1010		
10	20,80	528	9,10	231	37,32	948	14,13	359	8,84	225	17,68	449	2670	1211		
12	23,00	584	10,12	257	40,94	1040	15,35	390	9,55	243	19,09	485	3538	1605		
12	24,40	620	10,75	273	43,23	1098	16,14	410	10,04	255	20,08	510	4145	1880		

Class 10000 psi

Size	A		В		С		D		D		F		Weight			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg		
2	5,79	147	1,50	38	12,01	305	4,29	109	3,94	100	5,71	145	66	30		
2 1/2	6,73	171	1,80	46	13,74	349	4,76	121	4,45	113	6,14	156	97	44		
3	7,56	192	2,28	58	15,20	386	5,31	135	5,04	128	7,13	181	143	65		
4	9,02	229	3,15	80	18,46	469	6,54	166	6,26	159	8,94	227	262	119		
5	11,02	280	4,06	103	21,18	538	7,76	197	7,80	198	9,96	253	419	190		
6	14,49	368	4,88	124	28,74	730	10,39	264	6,38	162	12,76	324	1093	496		
8	19,37	492	6,80	173	37,87	962	9,65	245	8,46	215	16,93	430	2560	1161		
10	23,62	600	8,50	216	45,12	1146	16,06	408	9,90	252	19,80	503	4387	1990		
12	29,13	740	10,12	257	57,09	1450	19,25	489	11,99	305	23,98	609	8053	3653		

[&]quot;All the above dimensions and weights could be subjected to changes by Perar SpA without any notification, due to engineering activities.

Therefore, please consult the factory for confirmation on the above data as well as for other dimensions and weights not reported in the table".





