



Perar



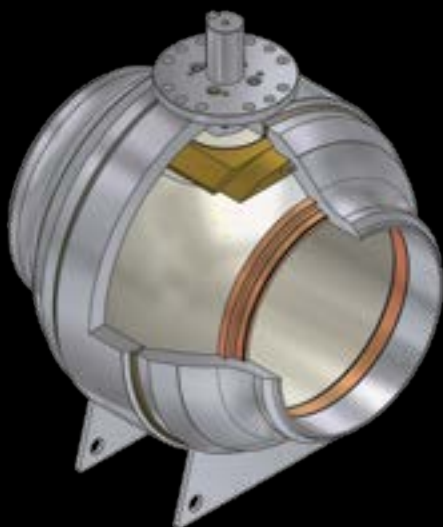
Perar Product Range

Trunnion Mounted Welded Body Ball Valves

The design of PERAR Welded Body Ball Valves minimizes the potential leak paths making these valves suitable for buried installations and in general for gas transportation.

General characteristics

- Design per API 6D or API 6A
- Full Bore and Reduced Bore design
- Flanged or Welding Ends
- Bi-directional sealing
- Fire-safe design



Model: WB
Size: 1/2" to 68"
Pressure Classes: ASME 150# to 2500#
Temperature Range: -196°C to 400°C

Trunnion Mounted Top-Entry Ball Valves

PERAR Trunnion Mounted Top-Entry Ball Valves add a full in-line maintenance capability to the advantages of a trunnion mounted construction.

General characteristics

- Design per API 6D or API 6A
- Full Bore and Reduced Bore design
- Flanged, Welding or Hub Ends
- Bi-directional sealing
- Fire-safe design

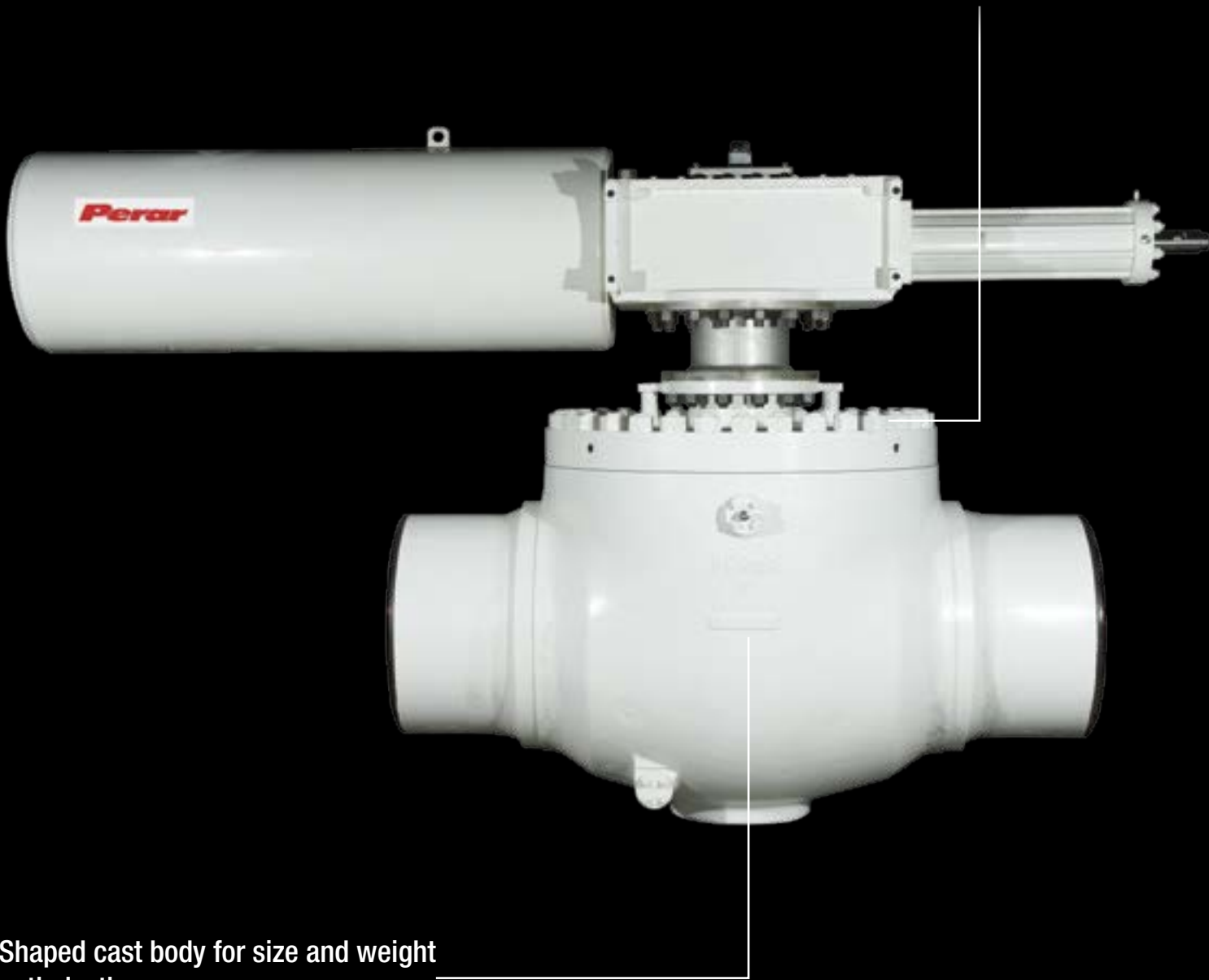


Model: TE
Size: 1/2" to 68"
Pressure Classes: ASME 150# to 2500#
API 6A 3000 to 15000
Temperature Range: -196°C to 400°C



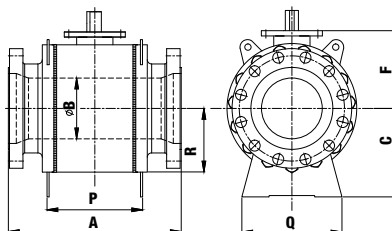
Perar Design Features - Top Entry Ball Valves

Top-entry design with upper bolted bonnet for full in-line maintainability welded construction for minimizing potential leak paths



Shaped cast body for size and weight optimization

ASME Class 2500# Side Entry Welded Body



FULL BORE

REDUCED BORE

	SIZE	A(RF)	A(BW)	B	C	F	P	Q	R	WEIGHT
inch-lb	2	17,87	*	1,65	4,65	6,81	n.a.	n.a.	n.a.	287
mm-Kg	50	454	*	42	118	173	n.a.	n.a.	n.a.	130
inch-lb	3	22,99	*	2,44	5,20	7,36	n.a.	n.a.	n.a.	*
mm-Kg	80	584	*	62	132	187	n.a.	n.a.	n.a.	*
inch-lb	4	*	*	*	*	*	n.a.	n.a.	n.a.	*
mm-Kg	100	*	*	*	*	*	n.a.	n.a.	n.a.	*
inch-lb	6	36,50	*	5,16	9,17	12,28	15,20	15,20	13,46	1698
mm-Kg	150	927	*	131	233	312	386	386	342	770
inch-lb	8	40,87	*	7,05	11,22	14,88	17,52	17,95	15,35	*
mm-Kg	200	1038	*	179	285	378	445	456	390	*
inch-lb	10	50,87	*	8,78	13,50	17,95	22,64	21,54	17,32	*
mm-Kg	250	1292	*	223	343	456	575	547	440	*
inch-lb	12	*	*	*	*	*	*	*	*	*
mm-Kg	300	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*	*

	SIZE	A(RF)	A(BW)	B	C	F	P	Q	R	WEIGHT
inch-lb	3x2	22,99	*	1,65	4,65	6,81	n.a.	n.a.	n.a.	*
mm-Kg	80x50	584	*	42	118	173	n.a.	n.a.	n.a.	*
inch-lb	4x3	26,89	*	2,44	5,20	7,36	n.a.	n.a.	n.a.	*
mm-Kg	100x80	683	*	62	132	187	n.a.	n.a.	n.a.	*
inch-lb	6x4	*	*	*	*	*	n.a.	n.a.	n.a.	*
mm-Kg	150x100	*	*	*	*	*	n.a.	n.a.	n.a.	*
inch-lb	8x6	40,87	*	5,16	9,17	12,28	15,20	15,20	13,46	*
mm-Kg	200x150	1038	*	131	233	312	386	386	342	*
inch-lb	10x6	50,87	*	5,16	9,17	12,28	15,20	15,20	13,46	*
mm-Kg	250x150	1292	*	131	233	312	386	386	342	*
inch-lb	10x8	50,87	*	7,05	11,22	14,88	17,52	17,95	15,35	*
mm-Kg	250x200	1292	*	179	285	378	445	456	390	*
inch-lb	12x8	56,89	*	7,05	11,22	14,88	17,52	17,95	15,35	*
mm-Kg	300x200	1445	*	179	285	378	445	456	390	*
inch-lb	12x10	56,89	*	8,78	13,50	17,95	22,64	21,54	17,32	*
mm-Kg	300x250	1445	*	223	343	456	575	547	440	*







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Trunnion Mounted Top Entry Ball Valves



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THAT'S QUALITY

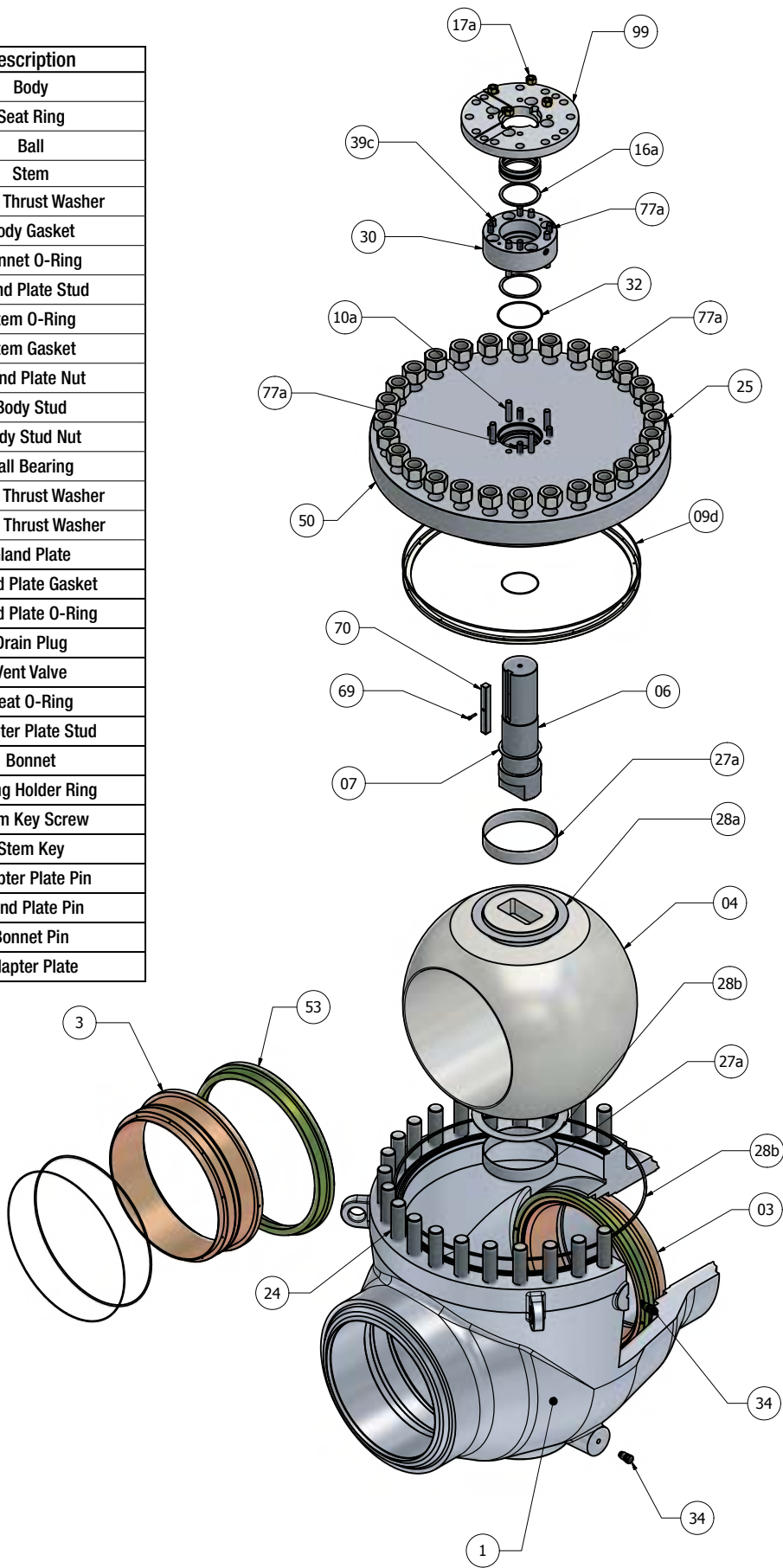
The Best Guarantee of Safety

Perar



Component Parts

Part No.	Description
01	Body
03	Seat Ring
04	Ball
06	Stem
07	Upper Thrust Washer
09a	Body Gasket
09d	Bonnet O-Ring
10a	Gland Plate Stud
16	Stem O-Ring
16a	Stem Gasket
17a	Gland Plate Nut
24	Body Stud
25	Body Stud Nut
27a	Ball Bearing
28a	Upper Thrust Washer
28b	Lower Thrust Washer
30	Gland Plate
31	Gland Plate Gasket
32	Gland Plate O-Ring
34	Drain Plug
35	Vent Valve
37	Seat O-Ring
39c	Adapter Plate Stud
50	Bonnet
53	Spring Holder Ring
69	Stem Key Screw
70	Stem Key
77	Adapter Plate Pin
77a	Gland Plate Pin
78	Bonnet Pin
99	Adapter Plate



Valve Material Selection

BODY, CLOSURE

CS (ASTM A105, ASTM A216), LTCS (ASTM A350 LF2, ASTM A352)
High strength LTCS (A694 F52, F60, F65)
Austenitic SS (ASTM A182 F304, F316, ASTM A351 CF3, CF3M, CF8, CF8M)
Duplex SS 22% Cr (ASTM A182 F51, ASTM A890, A995)
Superduplex SS 25% Cr (ASTM A182 F53/F55, ASTM A890, A995)
6Mo SS (ASTM A182 F44, ASTM)
Inconel 625
Incoloy 825
Monel

TRIM (SEAT, BALL AND STEM)

CS (ASTM A105), LTCS (ASTM A350 LF2) + ENP 0.003"
High strength LTCS (A694 F52, F60, F65) + ENP 0.003"
AISI 410 Martensitic SS (ASTM A182 F6a)
17-4 PH
Austenitic SS (ASTM A182 F304, F316)
Duplex SS 22% Cr (ASTM A182-F51)
Superduplex SS 25% Cr (ASTM A182 F53/F55)
6Mo SS (ASTM A182 F44)
Inconel 625
Inconel 718
Incoloy 825
Monel

BODY SEALS / SEAT SEALS

Viton A FKM O-ring
Viton GLT FKM O-ring
Viton AED FKM O-ring
HNBR O-ring
FFKM O-ring
PTFE + ELGILOY Lip-Seals
Graphite Packing / Gaskets

SEAT INSERT

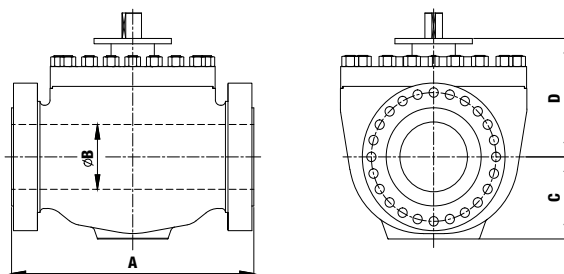
Viton A/GLT/AED FKM
HNBR
PTFE / RPTFE
Nylon / DEVLON V
PCTFE / KEL-F
PEEK
METAL with either Tungsten Carbide or Chromium Carbide Coating (0.15 mm min. thk.)

BOLTING

ASTM A193 B7/B7M, ASTM A320 L7/L7M
A193/A320 B8/B8M
UNS S31803, UNS S32760, ASTM A453-GR.660



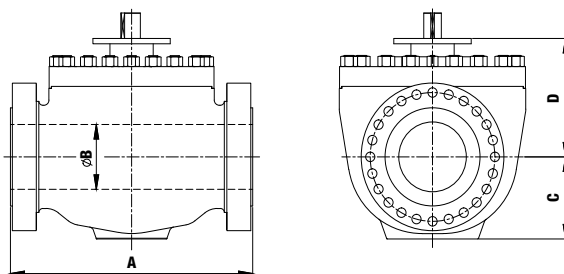
ASME Class 150# Top Entry Body Full Bore



	SIZE	A(RF)	A(BW)	B	C	D	NOTE			WEIGHT							
inch-lb	2	11,50	11,50	1,93	3,27	8,27				64							
mm-Kg	50	292	292	49	83	210				29							
inch-lb	3	14,02	14,02	2,91	4,33	8,86				123							
mm-Kg	80	356	356	74	110	225				56							
inch-lb	4	17,01	17,01	3,94	5,63	10,83				225							
mm-Kg	100	432	432	100	143	275				102							
inch-lb	6	22,01	22,01	5,91	8,54	10,94				492							
mm-Kg	150	559	559	150	217	278				223							
inch-lb	8	25,98	25,98	7,91	10,39	12,68				904							
mm-Kg	200	660	660	201	264	322				410							
inch-lb	10	30,98	30,98	9,92	12,32	14,06				1003							
mm-Kg	250	787	787	252	313	357				455							
inch-lb	12	32,99	32,99	11,93	15,75	18,90				1294							
mm-Kg	300	838	838	303	400	480				587							
inch-lb	14	35,00	35,00	13,15	16,93	17,91				1664							
mm-Kg	350	889	889	334	430	455				755							
inch-lb	16	39,02	39,02	15,16	17,80	18,23				2469							
mm-Kg	400	991	991	385	452	463				1120							
inch-lb	18	42,99	42,99	17,17	18,50	19,69				3347							
mm-Kg	450	1092	1092	436	470	500				1518							
inch-lb	20	47,01	47,01	19,17	22,95	21,85				4295							
mm-Kg	500	1194	1194	487	583	555				1948							
inch-lb	22	50,98	50,98	21,18	23,23	22,17				6056							
mm-Kg	550	1295	1295	538	590	563				2747							
inch-lb	24	55,00	55,00	23,19	23,39	23,62				7092							
mm-Kg	600	1397	1397	589	594	600				3217							
inch-lb	26	57,01	57,01	24,92	24,80	26,38				8569							
mm-Kg	650	1448	1448	633	630	670				3887							
inch-lb	28	60,98	60,98	26,93	27,72	28,86				10174							
mm-Kg	700	1549	1549	684	704	733				4615							
inch-lb	30	65,00	65,00	28,94	30,35	31,38				12522							
mm-Kg	750	1651	1651	735	771	797				5680							
inch-lb	32	70,00	70,00	30,67	32,56	33,31				15653							
mm-Kg	800	1778	1778	779	827	846				7100							
inch-lb	34	75,98	75,98	32,68	34,80	34,29				17240							
mm-Kg	850	1930	1930	830	884	871				7820							
inch-lb	36	82,01	82,01	34,41	36,89	36,65				20194							
mm-Kg	900	2083	2083	874	937	931				9160							
inch-lb	40	92,01	92,01	38,43	40,75	39,76				28241							
mm-Kg	1000	2337	2337	976	1035	1010				12810							
inch-lb	42	90,00	*	40,16	37,20	39,61	256/10			46716							
mm-Kg	1050	2286	*	1020	945	1006				21190							
inch-lb	48	100,00	100,00	45,91	48,43	464,57				49758							
mm-Kg	1200	2540	2540	1166	1230	11800				22570							



ASME Class 300# Top Entry Body Full Bore

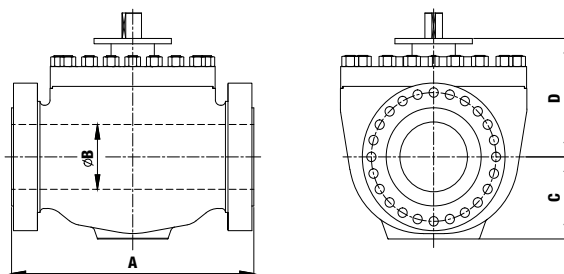


	SIZE	A(RF)	A(BW)	B	C	D	NOTE			WEIGHT							
inch-lb	2	11,50	11,50	1,93	3,27	8,27				73							
mm-Kg	50	292	292	49	83	210				33							
inch-lb	3	14,02	14,02	2,91	4,33	8,86				146							
mm-Kg	80	356	356	74	110	225				66							
inch-lb	4	17,01	17,01	3,94	5,63	10,83				265							
mm-Kg	100	432	432	100	143	275				120							
inch-lb	6	22,01	22,01	5,91	8,54	10,94				562							
mm-Kg	150	559	559	150	217	278				255							
inch-lb	8	25,98	25,98	7,91	8,66	13,39	012/13			1063							
mm-Kg	200	660	660	201	220	340				482							
inch-lb	10	30,98	30,98	9,92	12,32	14,57				1179							
mm-Kg	250	787	787	252	313	370				535							
inch-lb	12	32,99	32,99	11,93	15,75	19,41				1488							
mm-Kg	300	838	838	303	400	493				675							
inch-lb	14	35,00	35,00	13,15	16,93	18,50				1940							
mm-Kg	350	889	889	334	430	470				880							
inch-lb	16	39,02	39,02	15,16	17,80	18,70				2884							
mm-Kg	400	991	991	385	452	475				1308							
inch-lb	18	42,99	42,99	17,17	16,22	20,94	286/07			5071							
mm-Kg	450	1092	1092	436	412	532				2300							
inch-lb	20	47,01	47,01	19,17	18,90	22,13	286/07			6305							
mm-Kg	500	1194	1194	487	480	562				2860							
inch-lb	22	50,98	50,98	21,18	23,23	23,35				7136							
mm-Kg	550	1295	1295	538	590	593				3237							
inch-lb	24	55,00	55,00	23,19	23,39	25,00				8223							
mm-Kg	600	1397	1397	589	594	635				3730							
inch-lb	26	57,01	57,01	24,92	24,80	27,24				9954							
mm-Kg	650	1448	1448	633	630	692				4515							
inch-lb	28	60,98	60,98	26,93	27,72	29,92				11982							
mm-Kg	700	1549	1549	684	704	760				5435							
inch-lb	30	65,00	65,00	28,94	30,35	32,44				14738							
mm-Kg	750	1651	1651	735	771	824				6685							
inch-lb	32	70,00	70,00	30,67	32,56	34,65				18409							
mm-Kg	800	1778	1778	779	827	880				8350							
inch-lb	34	75,98	75,98	32,68	34,80	35,63				20183							
mm-Kg	850	1930	1930	830	884	905				9155							
inch-lb	36	82,01	82,01	34,41	38,19	36,89				23634							
mm-Kg	900	2083	2083	874	970	937				10720							
inch-lb	40	92,01	92,01	38,43	40,75	41,34				33080							
mm-Kg	1000	2337	2337	976	1035	1050				15005							
inch-lb	42	95,94	95,94	40,16	42,24	43,31				38890							
mm-Kg	1050	2437	2437	1020	1073	1100				17640							
inch-lb	48	100,00	100,00	45,91	48,43	48,03				58301							
mm-Kg	1200	2540	2540	1166	1230	1220				26445							

"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".



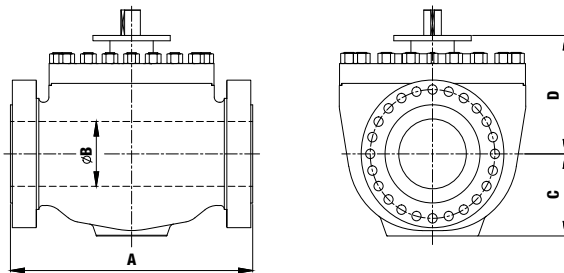
ASME Class 600# Top Entry Body Full Bore



	SIZE	A(RF)	A(BW)	B	C	D	NOTE			WEIGHT							
inch-lb	2	11,50	11,50	1,93	3,27	8,27				84							
mm-Kg	50	292	292	49	83	210				38							
inch-lb	3	14,02	14,02	2,91	4,33	8,86				154							
mm-Kg	80	356	356	74	110	225				70							
inch-lb	4	17,01	17,01	3,94	5,63	10,83				298							
mm-Kg	100	432	432	100	143	275				135							
inch-lb	6	22,01	22,01	5,91	8,54	10,94				622							
mm-Kg	150	559	559	150	217	278				282							
inch-lb	8	25,98	25,98	7,91	10,39	12,99				1184							
mm-Kg	200	660	660	201	264	330				537							
inch-lb	10	30,98	30,98	9,92	12,32	14,57				1477							
mm-Kg	250	787	787	252	313	370				670							
inch-lb	12	32,99	32,99	11,93	11,61	16,06	perar			1257							
mm-Kg	300	838	838	303	295	408				570							
inch-lb	14	35,00	35,00	13,15	12,60	17,01	perar			2509							
mm-Kg	350	889	889	334	320	432				1138							
inch-lb	16	39,02	39,02	15,16	17,80	20,08				3642							
mm-Kg	400	991	991	385	452	510				1652							
inch-lb	18	42,99	42,99	17,17	18,50	21,65				4998							
mm-Kg	450	1092	1092	436	470	550				2267							
inch-lb	20	47,01	47,01	19,17	17,72	22,44	122/10			6305							
mm-Kg	500	1194	1194	487	450	570				2860							
inch-lb	22	50,98	50,98	21,18	23,23	24,61				9039							
mm-Kg	550	1295	1295	538	590	625				4100							
inch-lb	24	55,00	55,00	23,19	20,87	28,35	058/09			10604							
mm-Kg	600	1397	1397	589	530	720				4810							
inch-lb	26	57,01	57,01	24,92	24,80	28,46				12721							
mm-Kg	650	1448	1448	633	630	723				5770							
inch-lb	28	60,98	60,98	26,93	27,72	31,10				15322							
mm-Kg	700	1549	1549	684	704	790				6950							
inch-lb	30	65,00	65,00	28,94	25,59	32,80	perar			18850							
mm-Kg	750	1651	1651	735	650	833				8550							
inch-lb	32	70,00	70,00	30,67	32,56	36,22				23413							
mm-Kg	800	1778	1778	779	827	920				10620							
inch-lb	34	75,98	75,98	32,68	34,80	37,40				25794							
mm-Kg	850	1930	1930	830	884	950				11700							
inch-lb	36	82,01	82,01	34,41	36,89	39,57				30247							
mm-Kg	900	2083	2083	874	937	1005				13720							
inch-lb	40	92,01	92,01	38,43	40,75	42,72				42307							
mm-Kg	1000	2337	2337	976	1035	1085				19190							
inch-lb	42	95,94	95,94	40,16	42,24	44,57				48766							
mm-Kg	1050	2437	2437	1020	1073	1132				22120							
inch-lb	48	100,00	100,00	45,91	48,43	49,61				70570							
mm-Kg	1200	2540	2540	1166	1230	1260				32010							



ASME Class 900# Top Entry Body Full Bore

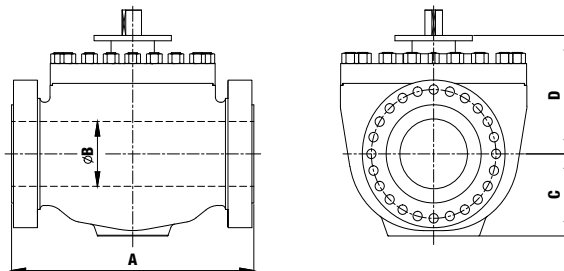


	SIZE	A(RF)	A(BW)	B	C	D	NOTE			WEIGHT							
inch-lb	2	14,61	14,49	1,93	3,27	8,27				117							
mm-Kg	50	371	368	49	83	210				53							
inch-lb	3	15,12	15,00	2,91	4,33	8,86				247							
mm-Kg	80	384	381	74	110	225				112							
inch-lb	4	18,11	17,99	3,94	5,63	10,83				452							
mm-Kg	100	460	457	100	143	275				205							
inch-lb	6	24,13	24,02	5,91	7,95	11,61	181/09			955							
mm-Kg	150	613	610	150	202	295				433							
inch-lb	8	29,13	29,02	7,91	9,25	15,08	kr			1323							
mm-Kg	200	740	737	201	235	383				600							
inch-lb	10	33,11	32,99	9,92	11,42	16,26	286/07			2028							
mm-Kg	250	841	838	252	290	413				920							
inch-lb	12	38,11	37,99	11,93	16,34	20,08				2917							
mm-Kg	300	968	965	303	415	510				1323							
inch-lb	14	40,87	40,51	12,68	17,32	20,08				3785							
mm-Kg	350	1038	1029	322	440	510				1717							
inch-lb	16	44,88	44,49	14,69	14,96	20,87	286/07			5181							
mm-Kg	400	1140	1130	373	380	530				2350							
inch-lb	18	48,50	47,99	16,65	19,29	22,64				7518							
mm-Kg	450	1232	1219	423	490	575				3410							
inch-lb	20	52,52	52,01	18,54	23,74	24,80				9678							
mm-Kg	500	1334	1321	471	603	630				4390							
inch-lb	22	*	*	*	*	*				*							
mm-Kg	550	*	*	*	*	*				*							
inch-lb	24	61,73	60,98	22,44	42,91	27,17				16028							
mm-Kg	600	1568	1549	570	1090	690				7270							
inch-lb	26	65,87	65,00	24,29	44,49	29,53				19169							
mm-Kg	650	1673	1651	617	1130	750				8695							
inch-lb	28	69,88	69,02	26,18	26,18	33,31	perar			21385							
mm-Kg	700	1775	1753	665	665	846				9700							
inch-lb	30	74,88	74,02	28,03	27,56	35,12	kr			26235							
mm-Kg	750	1902	1880	712	700	892				11900							
inch-lb	32	80,87	80,00	29,92	29,53	37,80	185/11			33069							
mm-Kg	800	2054	2032	760	750	960				15000							
inch-lb	34	86,14	85,00	31,81	59,06	38,98				38735							
mm-Kg	850	2188	2159	808	1500	990				17570							
inch-lb	36	91,14	90,00	33,66	61,93	41,14				45636							
mm-Kg	900	2315	2286	855	1573	1045				20700							

"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".



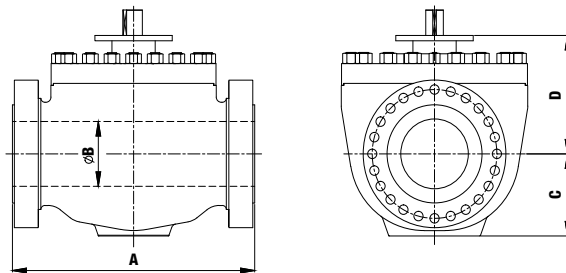
ASME Class 1500# Top Entry Body Full Bore



	SIZE	A(RF)	A(BW)	B	C	D	NOTE			WEIGHT							
inch-lb	2	14,61	14,49	1,93	3,27	8,27				121							
mm-Kg	50	371	368	49	83	210				55							
inch-lb	3	18,62	18,50	2,91	5,43	9,45	050/11			342							
mm-Kg	80	473	470	74	138	240				155							
inch-lb	4	21,61	21,50	3,94	6,02	11,42				606							
mm-Kg	100	549	546	100	153	290				275							
inch-lb	6	27,99	27,76	5,67	9,25	11,81				1360							
mm-Kg	150	711	705	144	235	300				617							
inch-lb	8	33,11	32,76	7,56	10,04	15,20	050/11			2513							
mm-Kg	200	841	832	192	255	386				1140							
inch-lb	10	39,37	39,02	9,41	13,19	15,75				3192							
mm-Kg	250	1000	991	239	335	400				1448							
inch-lb	12	45,12	44,49	11,30	13,82	19,17	050/11			4438							
mm-Kg	300	1146	1130	287	351	487				2013							
inch-lb	14	50,24	49,49	12,40	18,11	21,46				5769							
mm-Kg	350	1276	1257	315	460	545				2617							
inch-lb	16	55,39	54,49	14,17	19,29	22,05				8591							
mm-Kg	400	1407	1384	360	490	560				3897							
inch-lb	18	61,38	60,51	15,98	20,67	23,23				11431							
mm-Kg	450	1559	1537	406	525	590				5185							
inch-lb	20	66,38	65,51	17,87	24,69	25,79				14683							
mm-Kg	500	1686	1664	454	627	655				6660							
inch-lb	22	*	*	*	*	*				*							
mm-Kg	550	*	*	*	*	*				*							
inch-lb	24	77,64	*	21,50	24,06	33,19	050/11			25574							
mm-Kg	600	1972	*	546	611	843				11600							

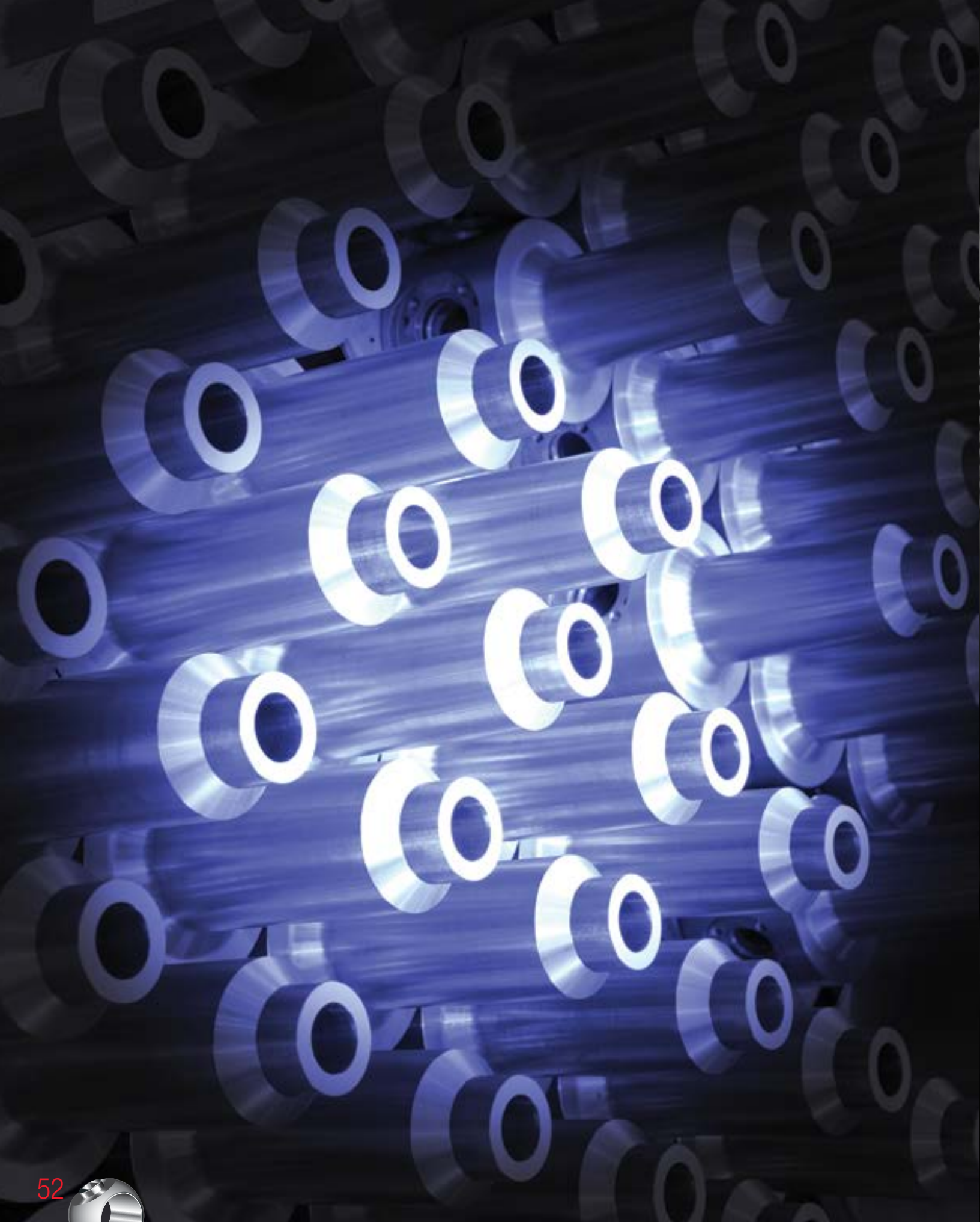


ASME Class 2500# Top Entry Body Full Bore

[illegible]

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