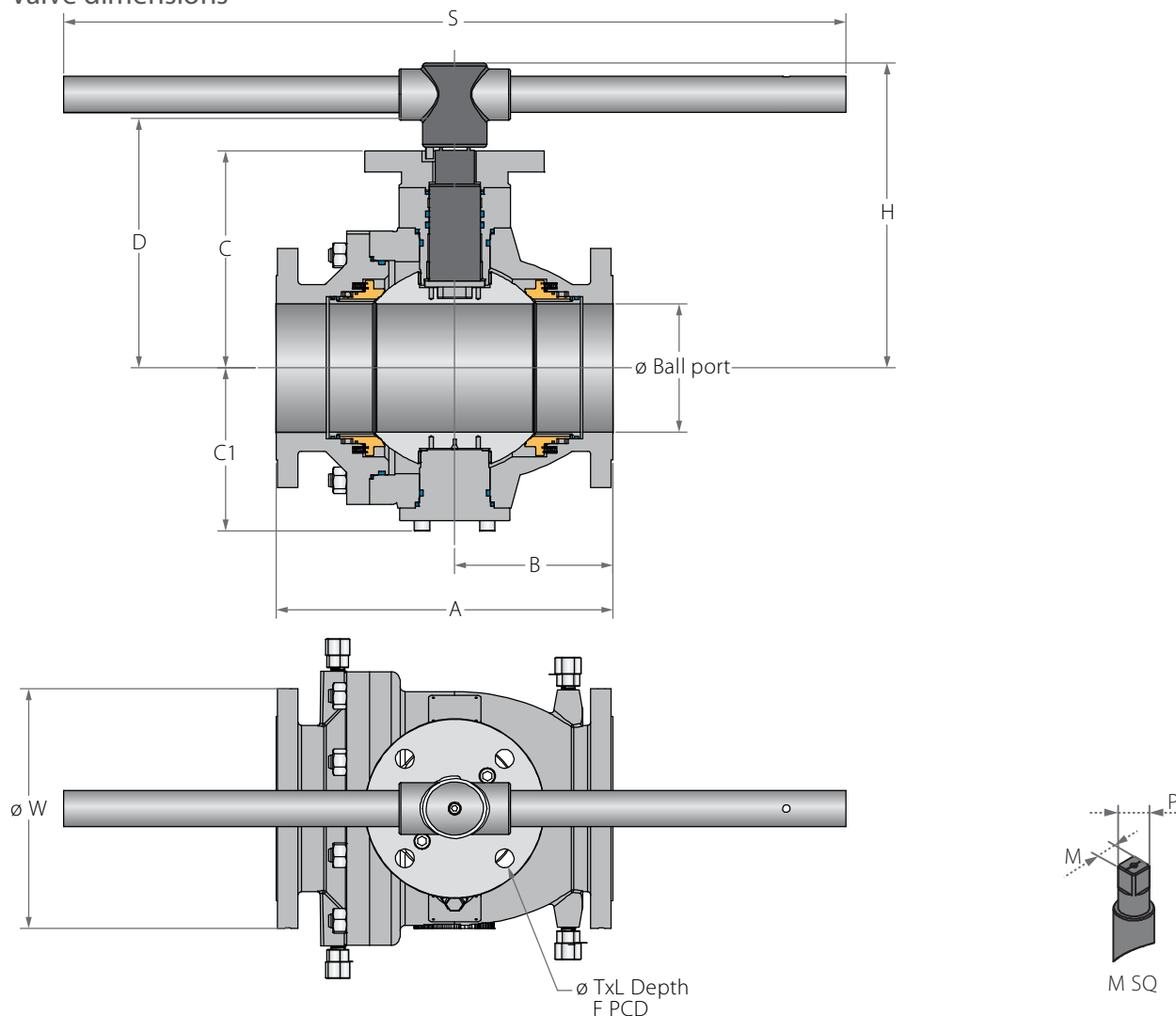


Z81P**Z82P**

2"-6" | DN50-DN150 | CLASS 150/300

High Temperature Trunnion Ball 2 Piece Up to 327°C (620°F)

Valve dimensions



Full port	Unit	Ball port	A		B		C	C1	D	W		M SQ	P SQ	H	S	F	TxL	Weight kg/ib		Kv/Cv	
			150	300	150	300				150	300							150	300	150	300
DN50	mm	49.00	178.00	216.00	89.00	108.00	127.00	91.50	144.50	150.00	165.00	17.00	22.00	196.00	401.00	(F10) 102.00	11X15 (4 holes)	19	23	400	363
2"	inch	1.93	7.01	8.50	3.50	4.25	5.00	3.60	5.69	5.91	6.50	0.67	0.87	7.72	15.79	4.02		42	51	463	420
DN80	mm	74.00	203.00	283.00	101.50	128.00	148.00	117.00	172.00	190.00	210.00	22.00	32.00	223.00	610.00	(F12) 125.00	13X15 (4 holes)	33	44	1125	952
3"	inch	2.91	7.99	11.14	4.00	5.04	5.83	4.61	6.77	7.48	8.27	0.87	1.26	8.78	24.02	4.92		73	97	1300	1100
DN100	mm	100.00	229.00	305.00	114.50	140.50	171.00	139.00	198.50	230.00	255.00	27.00	35.00	247.50	610.00	(F14) 140.00	18X15 (4 holes)	49	69	2154	1860
4"	inch	3.94	9.02	12.00	4.51	5.53	6.73	5.47	7.81	9.06	10.04	1.06	1.38	9.74	24.02	5.51		108	152	2490	2150
DN150	mm	150.00	394.00	403.00	185.00	230.40	254.00	191.00	290.50	280.00	320.00	36.00	46.20	356.50	916.00	(F16) 165.00	22X25 (4 holes)	133	166	4723	4628
6"	inch	5.91	15.51	15.87	7.28	9.07	10.00	7.52	11.44	11.02	12.60	1.42	1.82	14.04	36.06	6.50		293	366	5460	5350

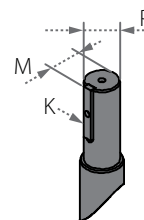
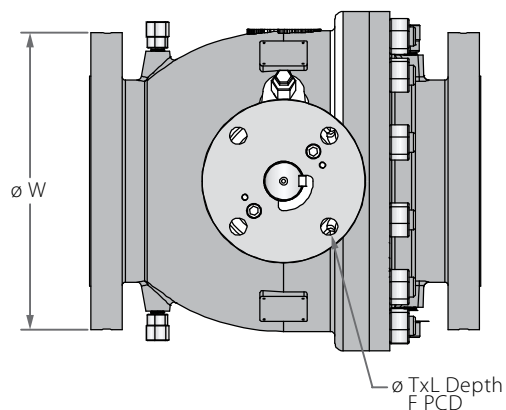
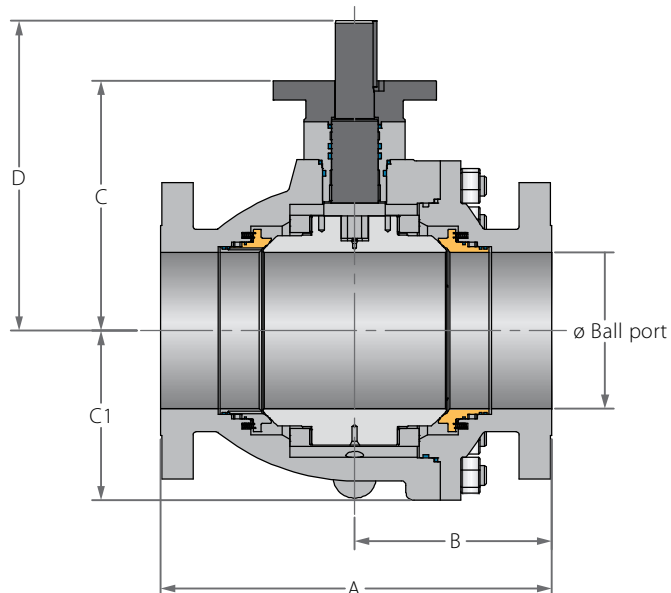
Z81P**Z82P**

8"-12" | DN200-DN300 | CLASS 150/300



High Temperature Trunnion Ball 2 Piece Up to 327°C (620°F)

Valve dimensions

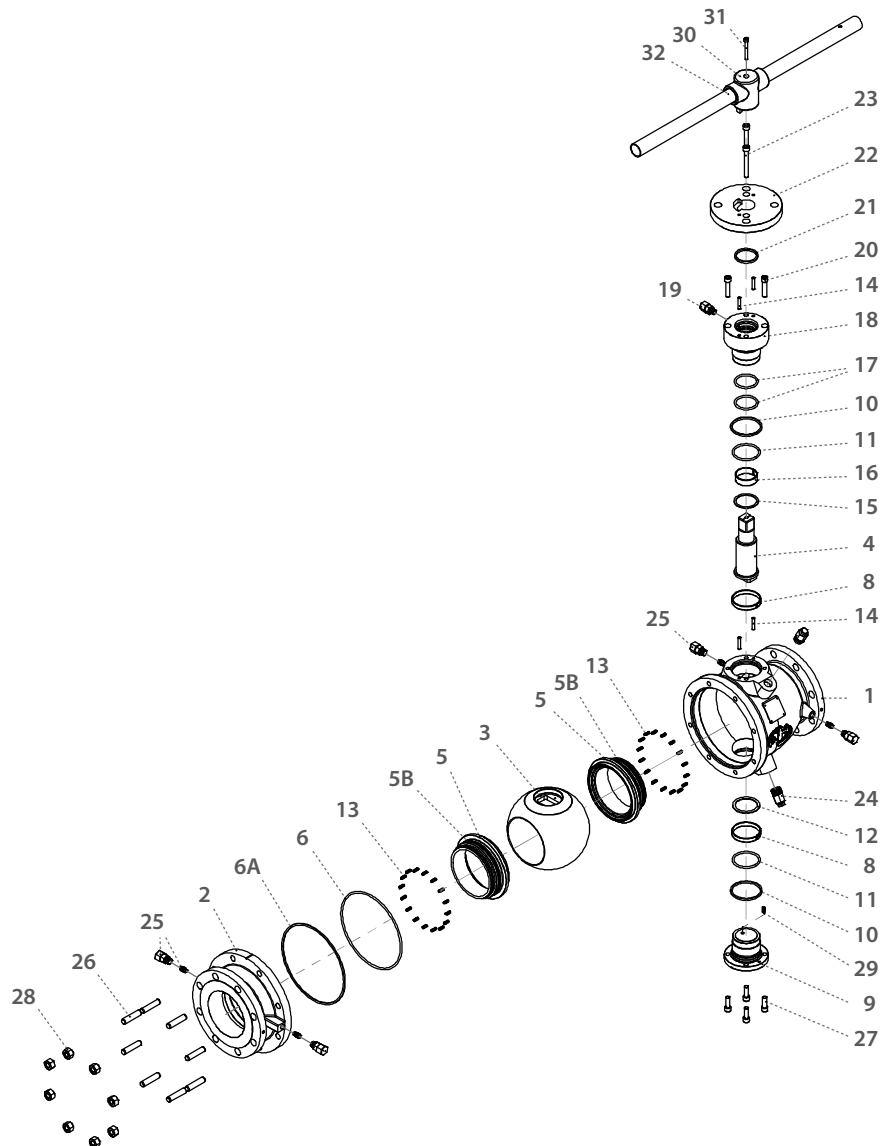


Full port	Unit	Ball port	A		B		C	C1	D	W		P	M	K	F	TxL	Weight kg/ib		Kv/Cv	
			150	300	150	300				150	300						150	300	150	300
DN200	mm	201.00	457.00	502.00	228.50	253.00	325.00	247.00	405.50	345.00	380.00	50.00	54.00	14.00	(F16) 165.00	22x25	222	262	9273	8737
8"	inch	7.91	17.99	19.76	9.00	9.96	12.80	9.72	15.96	13.58	14.96	1.97	2.13	0.55	6.50	(4 holes)	489	578	10720	10100
DN250	mm	252.00	533.00	568.00	270.00	287.50	353.00	297.00	430.00	405.00	445.00	50.00	54.00	14.00	(F25) 254.00	18x25	358	424	15224	14792
10"	inch	9.92	20.98	22.36	10.63	11.32	13.90	11.69	16.93	15.94	17.52	1.97	2.13	0.55	10.00	(8 holes)	789	935	17600	17100
DN300	mm	303.00	610.00	648.00	298.00	313.00	388.00	324.00	468.50	485.00	520.00	60.00	63.50	18.00	(F25) 254.00	18x25	527	613	23096	22404
12"	inch	11.93	24.02	25.51	11.73	12.32	15.28	12.76	18.44	19.09	20.47	2.36	2.50	0.71	10.00	(8 holes)	1162	1351	26700	25900

Z81P**Z82P****2"-6"**

High Temperature Trunnion Ball 2 Piece Up to 327°C (620°F)

Components & materials



Item	Description	Material Spec. ASTM	Qty.
1	Body	Acc. Ordering code	1
2	Ends	Acc. Ordering code	1
3	Ball	Acc. Ordering code	1
4	Stem	Acc. Ordering code	1
5*	Seat	Acc. Ordering code	2
5B*	Seat seal	Viton / HNBR	2-4
6*	Body inner seal	Viton / HNBR	1
6A*	Body outer seal	Graphite	1
8*	Ball Bearing	S.steel 316 + PTFE	2
9	External Trunnion	S.steel / C.steel	1
10*	Gland Plate & External trunnion Fire Safe Seal	Graphite	2
11*	Gland Plate & External trunnion Seal	Viton / HNBR	2
12*	Lower thrust washer	S.steel 316 + PTFE	1
13	Seat Spring	Inconel X750	28-40
14	Gland pin	S.steel / C.steel	4
15*	Stem Thrust Washer	S.steel 316 + PTFE	1
16*	Gland plate bearing	S.steel 316 + PTFE	1

Item	Description	Material Spec. ASTM	Qty.
17*	Stem seal	Viton / HNBR	2
18	Gland Plate	S.steel / C.steel	1
19	Stem grease fitting	S.steel	1
20	Lower gland bolts	A193-B8M / A320 L7	4
21*	Stem fire safe seal	Graphite	1
22	Iso plate	S.steel / C.steel	1
23	Upper gland bolts	A193-B8M / A320 L7	4
24	Plug valve	S.steel	2
25**	Seat grease fitting + check valve	S.steel	4
26	Body studs	A193-B8M / A320 L7	8-12
27	External trunnion bolts	A193-B8M / A320 L7	4
28	Body nuts	A194-8M / A194 L7	8-12
29	Antistatic spring	Inconel X750	1
30	Wrench head	S.steel / C.steel	1
31	Wrench bolt	S.steel / C.steel	1
32	Pipe handle	S.steel / C.steel Zink plate	1

* Repair kit components

** Available from 6" size only

Z81P

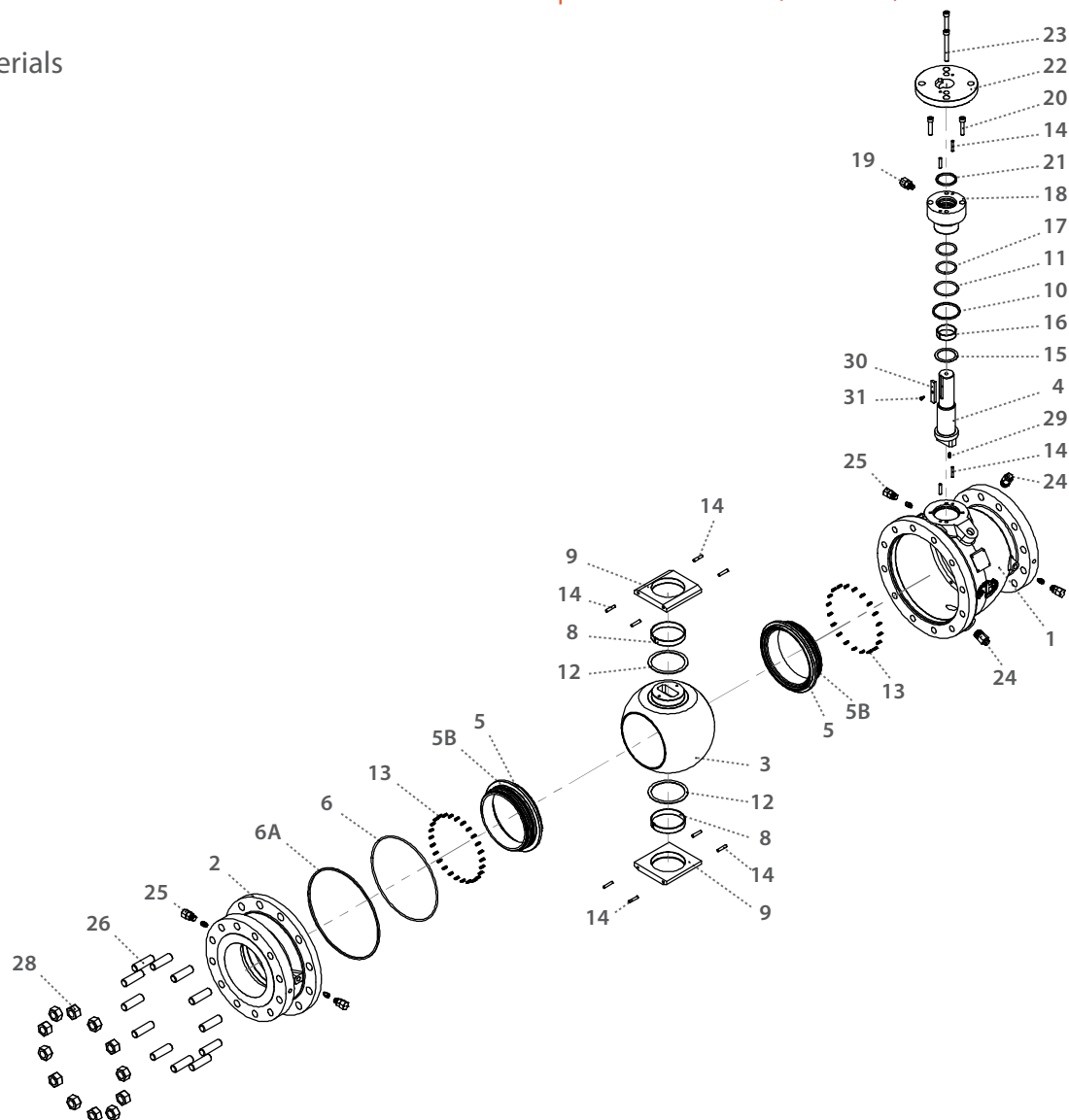
Z82P

8"-12"



High Temperature Trunnion Ball 2 Piece Up to 327°C (620°F)

Components & materials



Item	Description	Material Spec. ASTM	Qty.
1	Body	Acc. Ordering code	1
2	Ends	Acc. Ordering code	1
3	Ball	Acc. Ordering code	1
4	Stem	Acc. Ordering code	1
5*	Seat	Acc. Ordering code	2
5B*	Seat seal	Viton / HNBR	2
6*	Body inner seal	Viton / HNBR	2
6A*	Body outer seal	Graphite	2
8*	Ball bearing	S.steel 316 + PTFE	2
9	Trunnion plate	S.steel / C.steel	2
10*	Gland plate & External Trunnion Fire Safe Seal	Graphite	1
11*	Gland Plate & External Trunnion Seal	Viton / HNBR	1
12*	Ball thrust washer	S.steel 316 + PTFE	2
13	Seat Spring	Inconel X750	52-60
14	Gland pin	S.steel / C.steel	12
15*	Stem Thrust Washer	S.steel 316 + PTFE	1

16*	Stem Bearing	S.steel 316 + PTFE	1
17*	Stem seal	Viton / HNBR	2
18	Gland Plate	S.steel / C.steel	1
19	Stem grease fitting	S.steel	1
20	Lower gland bolts	A193-B8M / A320 L7	6
21*	Stem fire safe seal	Graphite	1
22	Iso plate	S.steel / C.steel	1
23	Upper gland bolts	A193-B8M / A320 L7	6
24	Plug valve	S.steel	2
25	Seat grease fitting + check valve"	S.steel	4
26	Body studs	A193-B8M / A320 L7	8-16
28	Body nuts	A194-8M / A194 L7	8-16
29	Antistatic spring	Inconel X750	1
30	Stem key	S.steel / C.steel	1
31	Stem key bolt	S.steel / C.steel	1

* Repair kit components