

Desing features

- Suitable for abrasive media
- O-ring construction, maximum temperatura 180°C
- Except for hardened ball and seats, the construction is identical to all soft seated Pekos ball valves which results in:
 - Short lead times
 - Soft seated Pekos valve can be easily converted to metal seated by changing ball & seats
- Low break away torques
- Protected seats
- Greater flexibility to attend requests for special materials.

ANSI

- Construction as per BS5351 and EN ISO 17292
- Flanges ASME B16.5
- Face to Face as per ANSI B16.10 and API 6D
- Top flange ISO 5211
- Rating: 150 and 300 lbs
- Floating ball.

Standard construction materials

ITEM	DESCRIPTION	CAN.	DIN		ANSI	
			M 06 CRTG	M 04 CRTG	M 16 CRTG	M 14 CRTG
1	Body	1	1.4408	1.0619	A351 CF8M	A216 WCC
2	Body 2	1	1.4408	1.0619	A351 CF8M	A216 WCC
3	Ball	1	1.4408+Cr-C	1.4408+Cr-C	CF8M+Cr-C	CF8M+Cr-C
5	Stem	1	1.4401	1.4401	AISI 316	AISI316
6	Stem seal	1	PTFE+FV	PTFE+FV	PTFE+FV	PTFE+FV
7a	Stem Packing 1	1	PTFE+FV	PTFE+FV	PTFE+FV	PTFE+FV
7b	Stem Packing 2	1	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
8a	Gland packing 1	1	1.4401	1.4401	AISI 316	AISI 316
8b	Gland Packing 2	1	1.4301	1.4301	AISI 304	AISI 304
9	Spring washer	3	1.4310	1.4310	AISI 301	AISI 301
11	Cover	1	1.4408	1.4408	A351CF8M	A351CF8M
13	Cover bolt	2+2	A4-70	8.8	A4-70	8.8
14	Body seal 1	1	PTFE	PTFE	PTFE	PTFE
15	Body bolt	-	A4-70	A2-70	A193 B8M	A193 B7M
19	Spring	1	1.4319	1.4319	AISI 302	AISI 302
20	Ball	1	1.4401	1.4401	AISI 316	AISI 316
34	Body seal 2	1	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
47	Metal seat	2	1.4401+Cr-C	1.4401+Cr-C	AISI 316+Cr-C	AISI 316+Cr-C
48	O ring spring	2	Viton	Viton	Viton	Viton
50	Subjection ring	1	1.4301	1.4301	AISI 304	AISI 304
108	Seat O ring	2+2	Viton	Viton	Viton	Viton
110	Subjection ring seal	1	1.4401 Nitrided	1.4401 Nitrided	AISI 316 Nitrided	AISI 316 Nitrided
165	Stem guide seal	1	PTFE+FV	PTFE+FV	PTFE+FV	PTFE+FV

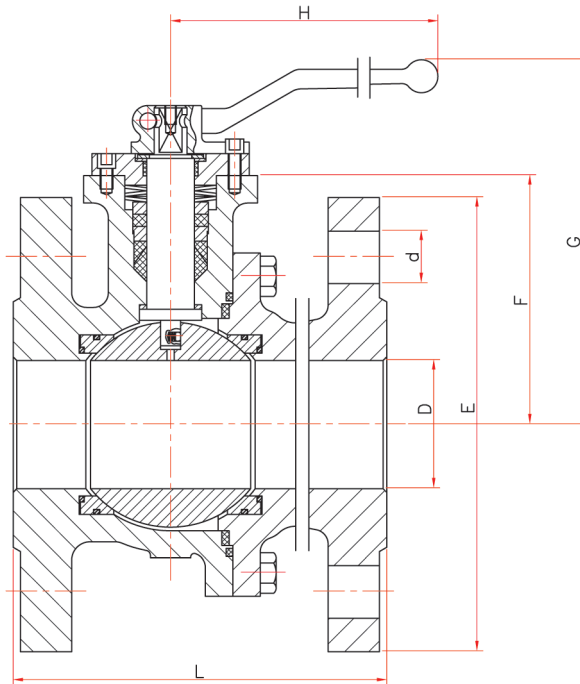
DIN

- Construction DIN 3357 and ISO 17292
- Flanges EN 1092-1
- Face to Face as per EN 558-1 and DIN 3202
- Top flange ISO 5211
- Rating: PN 16 and 40
- Floating ball.

■ Dimensions

NPS	D	ANSI				F	G	H	ISO5211
		L		E					
		150 lbs	300 lbs	150 lbs	300 lbs				
1/2"	15	108	140	89	95	52	103	185	F05
3/4"	20	117	152	99	118	54	105	185	F05
1"	25	127	165	108	124	60	111	185	F05
1 1/2"	40	165	191	127	156	75	136	300	F07
2"	50	178	216	152	165	84	144	300	F07
2 1/2"	65	190	-	178	-	96	157	300	F07
3"	80	203	283	191	210	114	202	355	F10
4"	100	229	305	229	254	128	216	355	F10
6"	150	394	-	279	-	175	280	680	F12
8"	200	457	-	343	-	245	358	750	F14

DN	DIN				F	G	H	ISO5211	
	L			E					
	F1	F4	F5	PN 16					PN 40
15	130	115	-	95	95	52	100	185	F05
20	150	120	-	105	105	54	102	185	F05
25	160	125	-	115	115	60	110	185	F05
32	180	130	-	140	140	65	115	185	F05
40	200	140	-	150	150	75	136	293	F07
50	230	150	-	165	165	83	144	293	F07
65	290	170	-	185	185	96	157	293	F07
80	310	180	-	200	200	114	202	350	F10
100	350	190	-	220	235	128	216	350	F10
125	-	-	325	250	-	158	259	680	F12
150	-	-	350	285	-	175	280	680	F12
200	-	-	400	340	-	245	358	750	F14



■ Leak tests

According to API 598, ISO 5208 Rate C, EN12266 Rate C, ANSI FCI 70 Class V (on request class VI or leakage 0).

Class	Hydraulic shell test	Hydraulic seat test	Pneumatic seat test
150 Lbs/PN 16	30/24 bar	22/18 bar	6 bars
300 Lbs/PN 40	78/60 bar	57/44 bar	6 bars

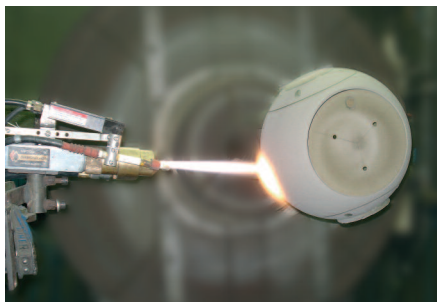
Size	Shell test Test Duration minimum	Seat test	
		Test duration minimum	Maximum leakage rate as per class V (ml / min.)
1/2" to 1 1/2" (DN15-40)	15 sec	15 sec	0.2-0.3
2" to 6" (DN50-150)	60 sec	60 sec	1.2-3.3
8" (DN 200)	120 sec	120 sec	9

■ Breakaway torque in Nm*

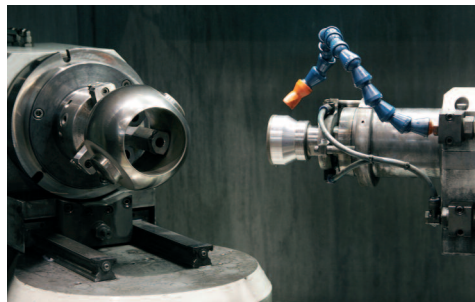
DN	15	20	25	32	40	50	65	80	100	125	150	200
NPS	1/2"	3/4"	1"	-	1 1/2"	2"	2 1/2"	3"	4"	-	6"	8"
150Lbs	10	12	20	-	53	62	98	158	230	-	530	770
300Lbs	16	19	28	-	60	102	140	235	380	-	-	-
PN16	9	11	18	25	49	52	95	150	210	420	520	650
PN40	15	20	25	40	59	77	115	230	350	-	-	-

* Breakaway to ΔP maximum for each rating. Test made with water at ambient Temperature, excluding safety factor.

■ Coating and grinding



Cr-Carbide Application



Grinding