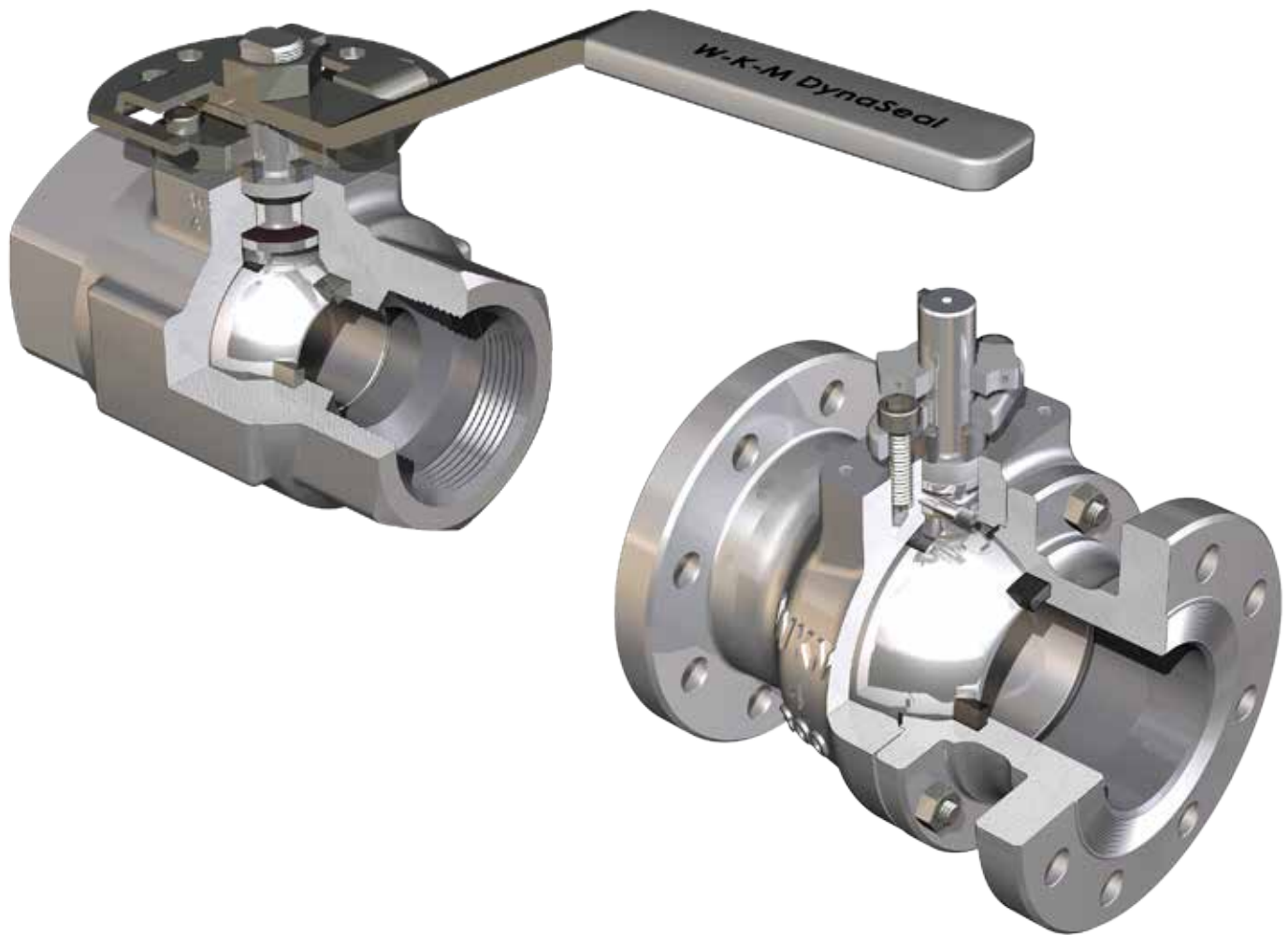


WKM® DynaSeal™ 310 Metal-Seated Ball Valves

Metal-seated ball valves for use in the most demanding power, refining, pulp and paper and process applications



Compliance and Specifications

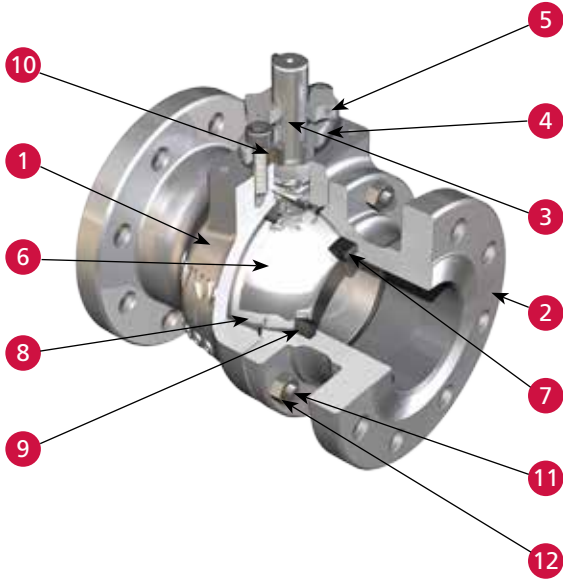
- ISO 9001-Registered quality system
- ASME B16.34, ASME B16.5
- API 607 5th edition
- NACE MR0175 ISO 15156

Features and Benefits

- Class V bi-directional seat sealing – tighter sealing available upon request
- Graphite seals

Sizes and Trims

- 1" to 4" x 3" ASME Class 150/300, 1" to 4" x 3" CL600
- Threaded 1/2" to 4" x 3"
- Trim 92H – chrome carbide coating over 316 stainless steel ball and seats
- Trim 60S – HVOF nickel alloy coating over 316 stainless steel seat ring/nitro-infused 316 stainless steel ball
- Trim 60S6 – HVOF Alloy 6 Coating over 316 seat ring/nitro-infused 316 stainless steel ball



Item	Part	92H Trim Material	60S Trim Materials Standard 1/2" to 3" Bore	60S6 Trim Materials
1	Body	WCC/CF8M	WCC/CF8M	WCC/CF8M
2	Tailpiece	WCC/CF8M	WCC/CF8M	WCC/CF8M
3	Stem	316 SS/17-4*	316 SS/17-4*	316 SS/17-4*
4	Bonnet Cap	WCC/CF8M	WCC/CF8M	WCC/CF8M
5	Stop Plate	Carbon Steel	Carbon Steel	
6	Ball	316 SS with Chrome Carbide	Nitro-Infused 316 SS	Nitro-Infused 316 SS
7	Seat	316 SS with Chrome Carbide	HVOF Nickel Alloy 316 SS	HVOF Nickel Alloy 316 SS
8	Body Seal	Graphite	Graphite	Graphite
9	Seat Seal	Graphite	Graphite	Graphite
10	Packing	Graphite	Graphite	Graphite
11	Studs	A193 Gr. B7/B7M	A193 Gr. B7/B7M	A193 Gr. B7/B7M
12	Nuts	A194 Gr. 2H/2HM	A194 Gr. 2H/2HM	A194 Gr. 2H/2HM

*Stem material depends on end connection and size.

Maximum Working Pressure (psi) – Threaded/Socket Weld*

		Body Material Codes			
Temp °F	Temp °C	Carbon Steel		Stainless Steel	
		1/2" to 2"	3"	1/2" to 2"	3"
-50° to 100°	-46° to 38°	1480	740	1440	720
200°	93°	1350	675	1240	620
250°	121°	1332	665	1180	590
300°	149°	1315	655	1120	560
350°	177°	1292	645	1073	537
400°	204°	1270	635	1025	515
450°	232°	1235	617	990	497
500°	260°	1200	600	955	480
550°	288°	1147	575	928	465
600°	316°	1095	550	900	450

*Socket weld available in limited sizes.
Reduced bore available in 3/4" R to 4" R sizes.

Maximum Working Pressure (psi) – Flanged 1" to 4" x 3"

		Body Material Codes					
Temp °F	Temp °C	Carbon Steel			Stainless Steel		
		150	300	600*	150	300	600*
-50° to 100°	-46° to 38°	285	740	1480	275	720	1440
200°	93°	260	675	1350	235	620	1240
250°	121°	245	665	1332	225	590	1180
300°	149°	230	655	1315	215	560	1120
350°	177°	215	645	1292	205	537	1073
400°	204°	200	635	1270	195	515	1025
450°	232°	185	617	1235	182	497	990
500°	260°	170	600	1200	170	480	955
550°	288°	155	575	1147	155	465	928
600°	316°	140	550	1095	140	450	900

*Available in 1" to 4" x 3" only.

Stem Torques (in-lb)

		Seat Seal Codes 92H, 60S, 60S6				
Valve Bore Size	in.	mm	Differential Pressure			
			0-285	500	740	1000
1/2	15	115	120	124	126	129
3/4	20	170	173	174	238	240
1	25	240	300	360	450	575

		Seat Seal Codes 92H, 60S, 60S6				
Valve Bore Size	in.	mm	Differential Pressure			
			0-285	500	740	1000
1-1/2	40	480	660	840	1040	1440
2	50	1000	1280	1620	2180	2880
3	80	2400	3600	4800	6100	7350

Note: For order information and dimensional/material data, consult the WKM 210/310 catalog.

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