



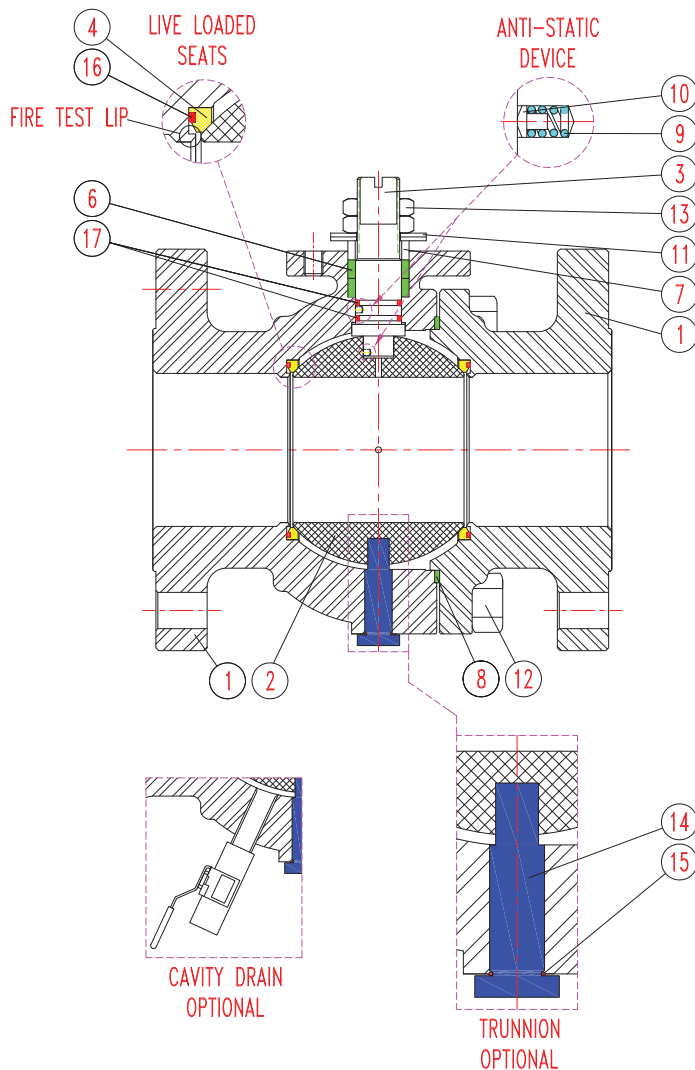
VCI® Series F200R Floating Recessed Ball Valves





F200R - CROSS SECTION VIEW

VCI® Series F200R offers a unique metal to metal or soft seated recessed design floating ball valve.



Standard List of Parts

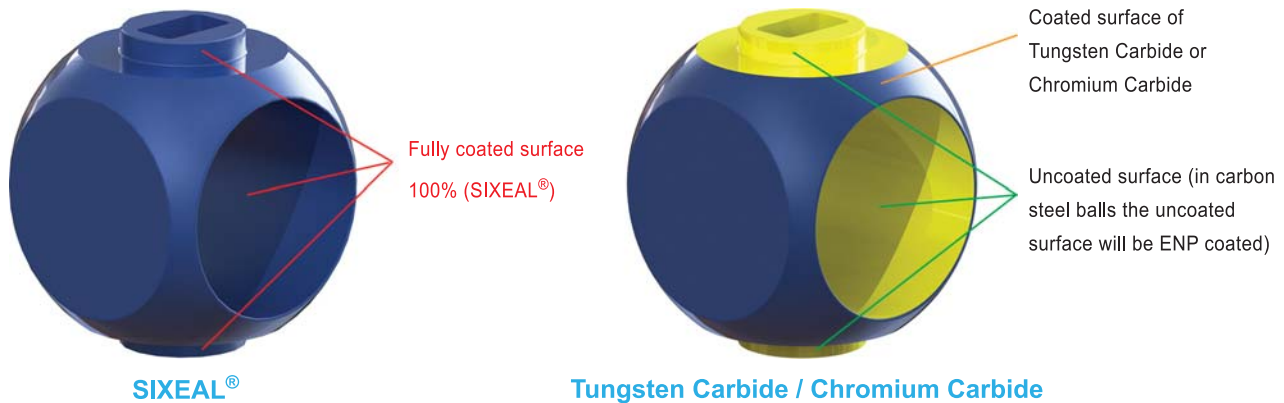
ITEM	DESCRIPTION	MATERIAL	QTY
1	2 PIECE BODY	A351Gr. CF8M / A215 Gr. WCB / etc.	1
2	BALL	A351Gr. CF8M HARD CHROMED / etc.	1
3	STEM	17-4 PH ASTM A564 / etc.	1
4	SEAT	316 SS STELLITE OVERLAY / PTFE / RTFE / etc.	2
5	THRUST BEARING	PEEK / etc.	1
6	STEM PACKING	GRAPHITE	1 SET
7	GLAND	SS 316	1
8	BODY SEAL	SPIRAL WOUND GASKET - SS 316 + GRAPHITE	1
9	SPRING	SS 304	2
10	PLUNGER / BALL	SS 316	2
11	BELL. WASHER	W1-8 CS (SK5)	1 SET
12	STUD BOLT	ASTM A193 Gr. B8 / ASTM A193 Gr. B7	1 SET
13	NUT / RETAINER	ASTM A194 Gr. 8 / ASTM A194 Gr. 2H	1 SET
14	TRUNNION MOUNT	316 SS ASTM A276 / 17-4 PH / etc.	1
15	TRUNNION O-RING	PER APPLICATION	1
16	SEAT O-RING	PER APPLICATION	2
17	STEM O-RING	PER APPLICATION	2 / 1

SIXEAL® Technology:

SIXEAL® is recommended for our Metal to Metal seated ball valves where high resistance to abrasion corrosion and wearing is required. For example, in slurry and sandy environments. SIXEAL® is a viable alternative to HVOF coating.

Micro-particles of silicon carbide are added into the ENP bath to obtain a final plating in which incorporated sub-particles are evenly distributed all over the treated surfaces. The result is a homogeneous hard-faced element strongly incorporated in a nickel matrix, matching the hardness properties of silicon and the chemical resistance of ENP. This uniquely developed process is based on electroless nickel plating procedure.

SIXEAL® coating thickness is maintained equally all over the coated surfaces, “complete ball”. This process eliminates any further grinding or machining of the ball’s outer surface.



Coatings	ENP	Tungsten Carbide	Chromium Carbide	SIXEAL®
Typical Hardness (Hv)	900	1050	850	1200
Recommended Operating Temperature (°C)	-196 up to 240	-196 up to 230	-146 up to 550	-196 up to 550
Thickness (µm)	10 - 75	150 - 400	150 - 400	15 - 75
STD Roughness (Ra)	0.20	0.25	0.25	0.20
Superfinishing (Ra)	0.10	0.15	0.15	0.10
Ball to Seat Lapping	Excellent	Excellent	Excellent	Excellent
Hardness	Good	Excellent	Fair	Excellent
Coating Uniformity on All Surfaces	Yes	No	No	Yes
Constant Torque Performance	Good	Good	Fair	Good
Wearing, Abrasion and Erosion Resistance	Good	Good	Fair	Excellent

Note: Higher temperature coating & cladding is available upon request



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