

The future of erosion control is about to change

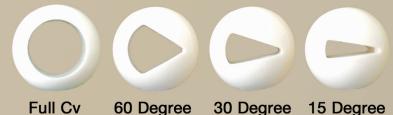
Tough Valve For Tough Services

Ceramic Lined



PureFlex 459 series ceramic lined composite ball valve is a superior quality, ANSI Class 150 valve engineered with features not yet available in any other ceramic valve. The valve body is manufactured from strong, light weight advanced premium Z-Core® epoxy resin reinforced with carbon graphite. The ceramic liner / seats and ball are Yttria-partially stabilized zirconia (Y-TZP) which provides unmatched impact resistance. The valve is able to withstand abrasion, cavitation, wear, thermal cycling and severe corrosive media and environments up to 275°F. The 459 series ball valve exceeds Class IV shut-off and its stem seal will meet your routine or most rigid service requirements. The massive one piece body meets ANSI B16.10 dimensions and its ISO 5211 universal mounting pad and flange mounting makes automation simple even with the valve in service. The 459 series valves are 1/2 the weight of competitors ceramic valves, offers maximum corrosion resistance, the virtual elimination of product entrapment and provides the ultimate in flexibility and value.

Flow Control Options



Locking wrench manufactured from Durcor®-62™ vinyl ester and is virtually unbreakable

Independent locking wrench stop and ISO-5211 universal mounting pad for actuation

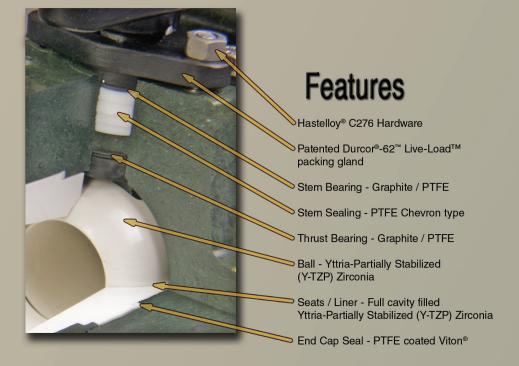
Strong

Light Weight

Zero Corrosion

Knoop Hardness Comparison

	Knoop Hardriess comparison	
PureFlex 459 Zirconia Y-TZP	1,200	
Tungston Carbide Hardfacing	780	
Porcelain	600	
Glass	484	
Titanium	437	
Stainless 316	169	
Carbon Steel Rolled	169	
Stainless 304	138	



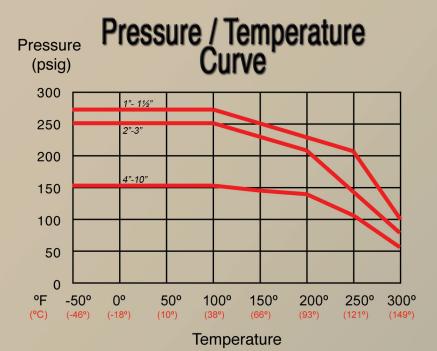
Industries Served

Coal-Fired Power
Pulp & Paper
Steel
Mining
Chemical Processing
Pollution Abatement

Applications

Desulfurization
Corrosive Pulps
Iron Ore Tailings
Titanium Dioxide Slurry
Fly Ash
Lime Slurry
Calcium Cloride Brine
Scrubber Liquor
Fume Scrubber
Sand Slurry
Pump Cavitation
Valve Throttling

Technical Data



Valve Data

SIZE RANGE: 1" TO 10"

CERAMIC: YTTRIA-PARTIALLY STABILIZED ZIRCONIA

PRESSURE RANGE: FULL VACUUM TO 275psi

MAXIMUM SHOCK: INSTANTANEOUS THERMAL = 200°F

TEMPERATURE RATINGS: (-)50°F TO 275°F

(PROCESS FLUID MAY EFFECT TEMPERATURE LIMIT, PLEASE CONSULT PUREFLEX CHEMICAL GUIDE)

FLOW: BI-DIRECTIONAL

CONFORMANCE: CONFORMS TO ALL APPLICABLE

STANDARDS OF ANSI / ASME B16.10, API-598,

MSS-SP72 AND ISO-5211

FLANGE ADAPTABILITY: ANSI B16.5 CLASS 150 (STD)

DIN, JIS AND BS AVAILABILITY

SHUT OFF: EXCEEDS ANSI/FCI 70-2 CLASS IV

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Cv Data

VALVE SIZE	FULL OPEN CV
1"	45
1 1/2"	120
2"	165
3"	350
4"	550
6"	1245
8"	2150
10"	2500

Actuator Sizing

1"	70 inlbs.
1 1/2"	160 inlbs.
2"	180 inlbs.
3"	440 inlbs.
4"	920 inlbs.
6"	1745 inlbs.
8"	2650 inlbs.
10"	3900 inlbs.



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