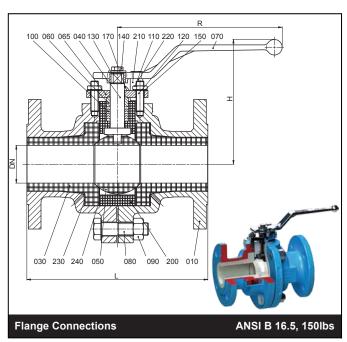


ATOMAC CERAMIC LINED BALL VALVE FULL PORT

Type AKH5



*Avaible on DIN EN 1092-2 P10, PN16

Magnesia Partially Stabilized Zirconia (Mg PSZ) Ceramic Lined Ball Valve*

Due to advanced ceramic technology, the AKH5 achieves an unequalled performance that offers the ideal solution for many difficult applications in which erosion, wear, abrasion, impact, corrosion and high temperature cause conventional materials to fail.

Furthermore the design of the AKH5 offers minimum cavity space that reduces the retention of line media within the body cavity so therefore product contamination problems are significantly reduced.

The Mg-PSZ Zirconia Ceramic material offers:

Wear Resistance: Abrasive slurries have little effect on its rock hard

Corrosion Resistance: It is virtually inert to acid bases and most other corrosives.

Impact Resistance: The composition of the materials and the advanced process technology result in high mechanical strength and toughness.

Temperature Resistance: High operating temperatures and thermal shock are not a problem. The melting point of Mg-PSZ ceramic is well beyond the valve limits of 350°C. Higher ratings on request.

Cavitation Resistance: Cavitation related problems are sharply reduced due to the extreme hardness of the ceramic material (Rockwell 89)

Unequalled Benefits: The Mg-PSZ ceramics have consistently outperformed steels, cobalt, nickel alloys and other ceramics in a wide range of severe applications such as, steam services, abrasive slurries, fly ash, high temperature corrosives and sand abrasion are only a few of the many conditions where the AKH5 Mg-PSZ lined ball valve has solved serious problems.

*Also availble as V-port ball valve for precise modulating control service.

Materials List					
No.	Description	Material	No.	Description	Material
010	body piece	ductile cast iron with PFA	100	packing material	PTFE
		(EN-JS1049 / ASTM A395)		(chevron) /	
020	body	ceramic (circonia/ MG-PSZ)		packing ring	Grafseal
030	bushing	ceramic (circonia/ MG-PSZ)	110	hexagon nut	stainless steel (1.4301/ A 194 8)
040	stem	stainless steel / ceramic°	120	stud bolt	stainless steel (1.4301/ A 193 B8)
050	ball	ceramic (circonia/ MG-PSZ)	130	lock washer	stainless steel (1.4301/ AISI 304)
060	gland	stainless steel (1.430)	140	hexagon bolt	stainless steel (1.4301/ A 193 B8)
065	gland shaped ring	stainless steel (1.430)	150	serrated lock washer	stainless steel (1.4301/ AISI 304)
070	hand lever	[size 1"-2"]= die cast metal (EN 12844)	170	grounding device°°	stainless steel (1.4310/ AISI 301)
		[size 3"-4"]= ductile iron (galvanized)	210	stop	steel (galvanized)
080	stud bolt	stainless steel (1.4301-K70^ / A 193 B8)	220	hexagon bolt	stainless steel (1.4301/ A 193 B8)
090	hexagon nut	stainless steel (1.4301-K70^ / A 194 8)	230,240,250	flat gasket	Gylon / Garfite S

If special stem materials are neccessary, consult Flowserve Gmbh, please

Dimensions - mm. SIZE ANSI н Ød Ød1 ØD nxd2 h R d4 Øk Weight Alpha Code Stock Item (kg) 1" 150# 152.4 122 160 79.2 107.9 25 145 66.5 4x16 13 6.9 V24E150063 11/2" 150# 178 150 210 38 180 85.5 98.4 127 4x16 16 12.45 V24E150064 \checkmark 2" 150# 203 160 210 48 200 104.5 120.5 152.4 4x19 18.5 18.5 V24E150065 3" / 150# 241 205 313 77 260 136.5 152.4 190.5 4x19 22.5 40.0 V24E150066 4" 150# 292 210 313 97 290 174.5 190.5 228.6 8x19 26.5 61.1 V24E150067

Grounding device only in combination with stainless steel stem other on request