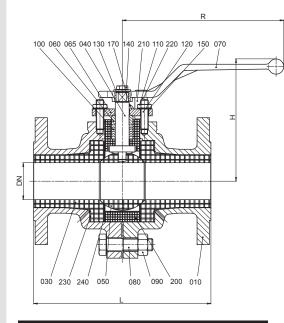
## Atomac Lined Ball Valves

Type AKH5







#### ANSI B 16.5, 150lbs **Flange Connections**

\*Avaible on DIN EN 1092-2 P10, PN16

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

optional

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

Grounding device only in combination with stainless steel stem

# Due to advanced ceramic technology, the AKH5 achieves an unequalled performance that offers the ideal solution for many difficult applications in which

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)

Magnesia Partially Stabilized Zirconia (Mg PSZ)

The Mg-PSZ Zirconia Ceramic material offers :

Ceramic Lined Ball Valve\*

problems aresignificantly reduced.

materials to fail.

### **Unequalled Benefits:**

Impact Resistance:

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.

erosion, wear, abrasion, impact, corrosion and high temperature cause conventional

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

Wear Resistance: Abrasive slurries have little effect on its rock hard surfaces. Corrosion Resistance: It is virtually inert to acid bases and most other corrosives.

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

Dimensions - mm.												
SIZE	ANSI	L	Н	R	Ød	Ød1	d4	Øk	ØD	nxd2	b	Weight (kg)
1"	150#	152.4	122	160	25	145	66.5	79.2	107.9	4x16	13	6.9
1½"	150#	178	150	210	38	180	85.5	98.4	127	4x16	16	12.45
2"	150#	203	160	210	48	200	104.5	120.5	152.4	4x19	18.5	18.5
3"	150#	241	205	313	77	260	136.5	152.4	190.5	4x19	22.5	40.0
4"	150#	292	210	313	97	290	174.5	190.5	228.6	8x19	26.5	61.1

other on request