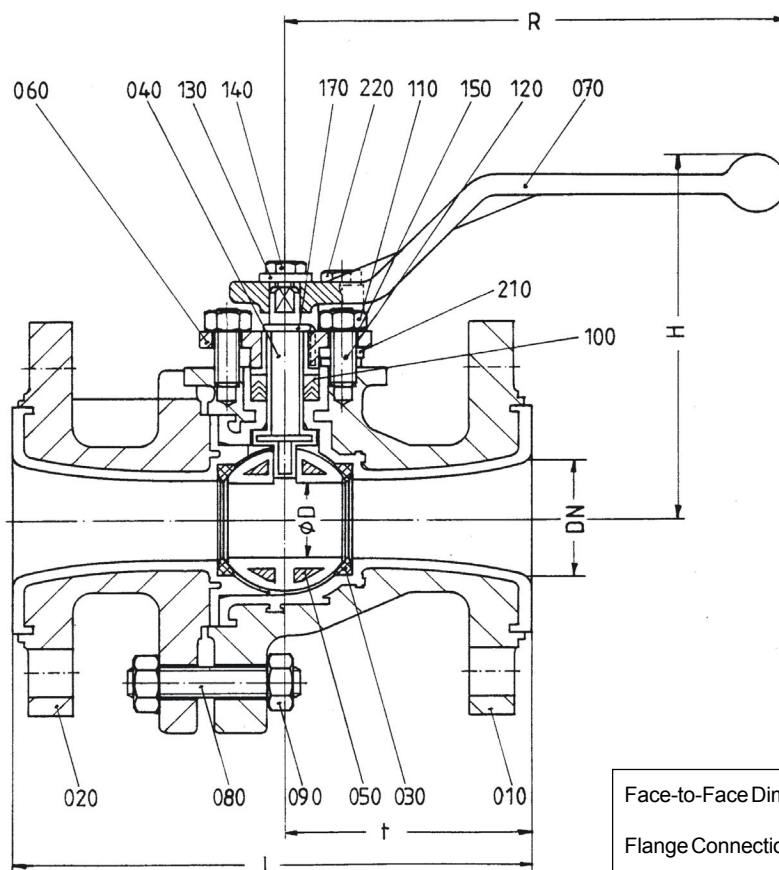


Register 3

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Technical Data AKH3



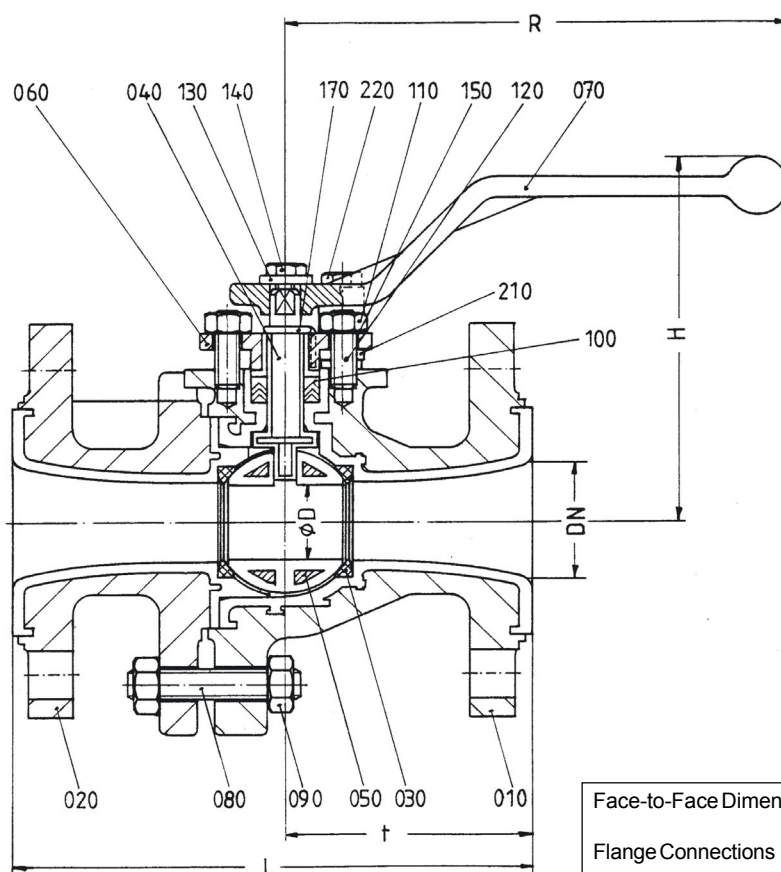
Face-to-Face Dimensions ISO 5752 Tab. 6, short
ANSI B 16.10, short
Flange Connections ANSI B 16.5 - 150lbs

DN / ANSI		L	H	R	t	Ød	weight	
1"	inch	5	4,72	6,3	2,2	0,79	lbs	9,7
	mm	127	120	160	56	20	kg	4,4
1½"	inch	6,5	4,72	6,3	3,05	0,94	lbs	13,7
	mm	165	120	160	77,5	24	kg	6,2
2"	inch	7	5,71	8,27	3,09	1,50	lbs	23,3
	mm	178	145	210	78,5	38	kg	10,6
3"	inch	8	6,3	8,27	3,7	1,89	lbs	35,5
	mm	203	160	210	94	48	kg	16,1
4"	inch	9	8,07	12,32	4,13	3,15	lbs	66,4
	mm	229	205	313	105	80	kg	30,2
6"	inch	10,5	8,66	12,32	5,28	3,94	lbs	110,4
	mm	267	220	313	134	100	kg	50,2
8"	inch	11,5	12,28	13,27°	5,08	5,79	lbs	234,8
	mm	292	312	337°	129	147	kg	106,6
10"	inch	13	14,69	17,72°	6,1	7,87	lbs	382,6
	mm	330	373	450°	155	200	kg	173,7
12"	inch	14	14,29	17,72°	6,95	7,78	lbs	521,4
	mm	356	363	450°	176,5	200	kg	237,0

°° pass-through handlever Ø 26,54 inch standard

° pass-through handlever Ø 35,43 inch standard

Technical Data AKH3 - JIS 10K



Face-to-Face Dimensions ISO 5752 Tab.6, short
 ANSI B 16.10, short
 Flange Connections JIS B 2210 - 10K

DN / JIS		L	H	R	t	Ød	weight	
020	mm	127	120	160	56	20	kg	4,5
	inch	5	4,72	6,3	2,2	0,79	lbs	9,9
025	mm	127	120	160	56	20	kg	5,2
	inch	5	4,72	6,3	2,2	0,79	lbs	11,4
040	mm	165	120	160	77,5	24	kg	6,8
	inch	6,5	4,72	6,3	3,05	0,94	lbs	15,0
050	mm	178	145	210	78,5	38	kg	10,7
	inch	7	5,71	8,27	3,09	1,50	lbs	23,5
080	mm	203	160	210	94	48	kg	15,1
	inch	8	6,3	8,27	3,7	1,89	lbs	33,2
100	mm	229	205	313	108	80	kg	26,0
	inch	9	8,07	12,32	4,25	3,15	lbs	57,2
150	mm	267	220	313	134	100	kg	48,5
	inch	10,5	8,66	12,32	5,28	3,94	lbs	106,7

Material specification AKH3

No.	Designation	Pieces	Material	Material-No. / DIN	ASTM / AISI
010	body	1	ductile iron / PFA ° ductile iron / FEP °	GGG-40.3 / DIN EN 1563	A 395
020	side piece	1	ductile iron / PFA ° ductile iron / FEP °	GGG-40.3 / DIN EN 1563	A 395
030	seat ring	2	PTFE	pure - PTFE	
040	stem	1	stainless steel / PFA Hastelloy C4 / PFA *	1.4462 2.4610 / DIN 17744	A 351 CD4MCU
050	ball	1	ductile iron / PFA ° ductile iron / FEP ° ceramic Al ₂ O ₃ - MG-PSZ DN 8"	GGG-40.3 / DIN EN 1563	A 395
060	gland follower	1	stainless steel / PTFE-graphite	1.4308 / DIN EN 10283	A 743 CF-8
070	hand lever				
	DN 1" - 3"	1	die cast metall	GB-ZnA14Cu 1 / DIN EN 1744	
	DN 15 - 80				
	DN 4" - 6"	1	malleable cast iron	GTW-40-05 / DIN EN 1562	
	DN 100 - 150				
	DN 8", 10"	1	steel (chromated)	1.0037 / DIN EN 10025	A 283 B
080	stud bolt	1 set	stainless steel	1.4301 / DIN 17440	A 193 B8
090	hexagon nut	1 set	stainless steel	1.4301 / DIN 17440	A 194 8
100	packing material	1 set	PTFE ° PTFE-graphite °		
	(chevron)				
110	hexagon nut	2	stainless steel	1.4301 / DIN 17440	A 194 8
120	stud bolt	2	stainless steel	1.4301 / DIN 17440	A 193 B8
130	lock washer	1	stainless steel	1.4301 / DIN 17440	AISI 304
140	hexagon bolt	1	stainless steel	1.4301 / DIN 17440	A 193 B8
150	serrated lock washer	2	stainless steel	1.4301 / DIN 17440	AISI 304
170	grounding device	1	stainless steel	1.4310 / DIN 17224	AISI 301
210	stop				
	DN 1" - 6"				
	DN 15 - 150	1	steel (galvanized)	1.0037 / DIN EN 10025	A 283 B
	DN 8", 10"	2	stainless steel	1.4104 / DIN 17440	AISI 430 F
220	hexagon bolt °°	1	stainless steel	1.4301 / DIN 17440	A 193 B8

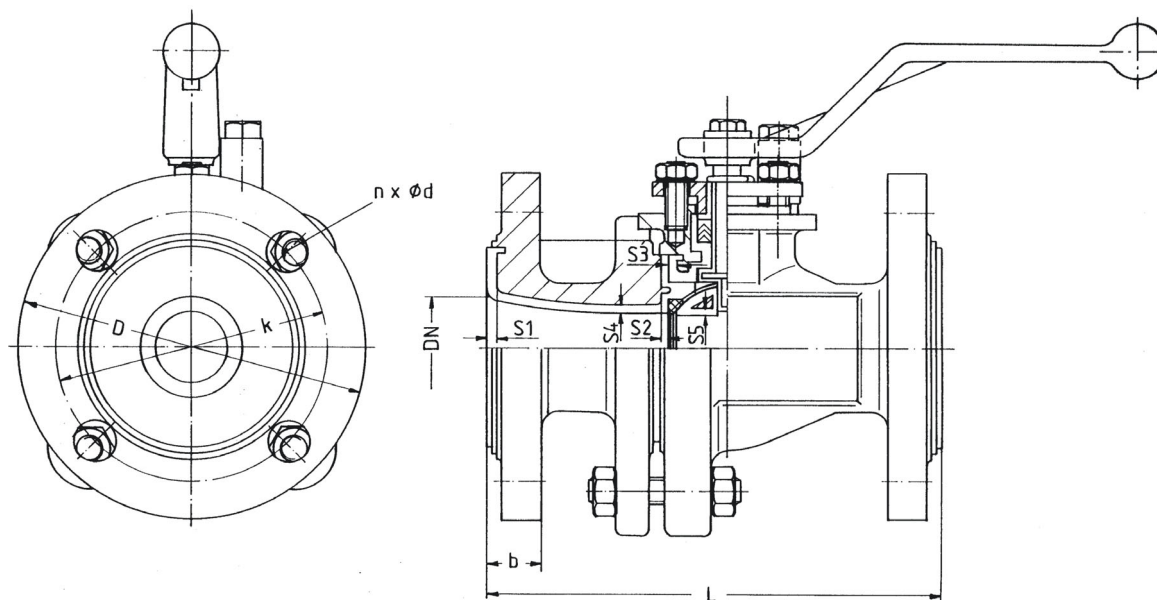
* ceramic ball on request (available up to DN 8"/DN 200)

* Hastelloy stem on request

° optional

°° DN 8" and 10" 2 hexagon bolts

Dimensions AKH3

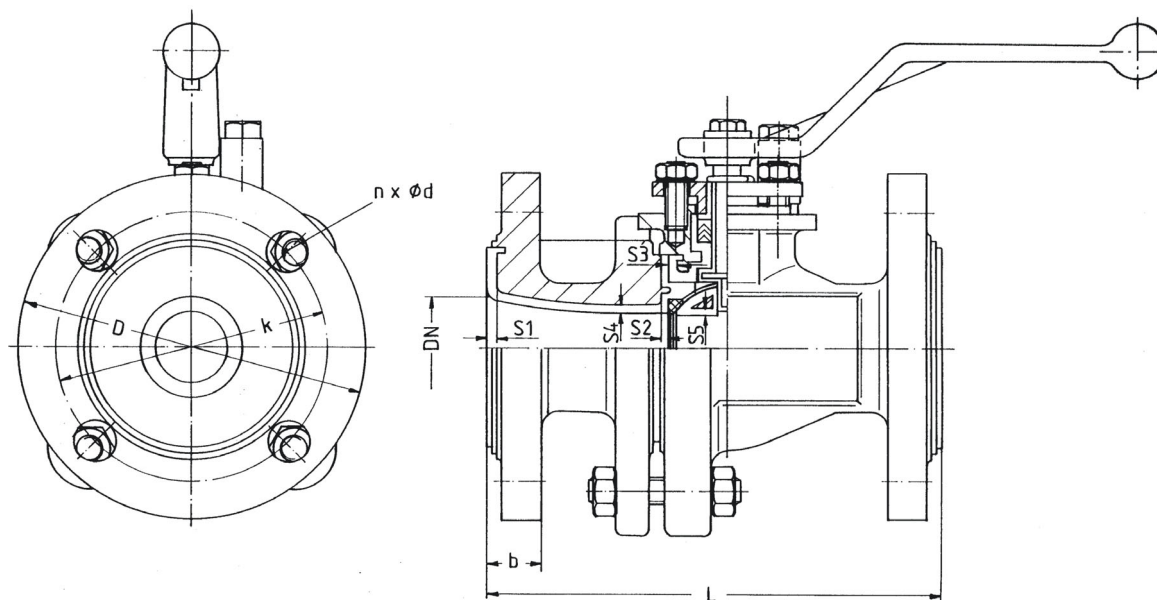


DN / ANSI		L	b	D	k	n x Ød	S1	S2	S3	S4	S5
1"	inch	5	0,63	4,25	3,12	4x0,63	0,12	0,10	0,10	0,14	0,098
	mm	127	16	108	79,2	4x16	3	2,5	2,5	3,5	2,5
1½"	inch	6,5	0,77	5	3,88	4x0,63	0,16	0,10	0,11	0,14	0,098
	mm	165	19,5	127	98,5	4x16	4	2,5	2,8	3,5	2,5
2"	inch	7	0,81	6	4,75	4x0,75	0,16	0,12	0,12	0,16	0,12
	mm	178	20,5	152,4	120,5	4x19	4	3	3	4	3
3"	inch	8	0,92	7,5	6	4x0,75	0,16	0,16	0,14	0,2	0,12
	mm	203	23,25	190,5	152,5	4x19	4	4	3,5	5	3
4"	inch	9	1,14	9	7,5	8x0,75	0,16	0,16	0,16	0,2	0,17
	mm	229	29	228,6	190,5	8x19	4	4	4	5	4,25
6"	inch	10,7	1,24	11	9,5	8x0,87	0,16	0,2	0,16	0,2	0,18
	mm	267	31,5	279,4	241,5	8x22	4	5	4	5	4,5
8"	inch	11,5	1,3	13,5	11,75	8x0,87	0,16	0,2	0,16	0,23	0,22
	mm	292	33	342,9	298,5	8x22	4	5	4	6	5,5
10"	inch	13	1,4	16	14,25	12x1	0,16	0,2	0,16	0,23	0,22
	mm	330	36	406,5	361,9	12x25	4	5	4	6	5,5
12"	inch	14	1,69	19	17	12x1	0,16	0,2	0,16	0,23	0,22
	mm	356	43	482,6	431,8	12x25	4	5	4	6	5,5

stem lining DN 1", 1½"
 all other sizes at least

0,059 inch
 0,098 inch

Dimensions AKH3 - JIS 10K



DN / JIS		L	b	D	k	n x Ød	S1	S2	S3	S4	S5
020	mm	127	17	100	75	4x15	3	2,5	2,5	3,5	2,5
	inch	5	0,67	3,94	2,95	4x0,59	0,12	0,1	0,1	0,14	0,1
025	mm	127	17	125	90	4x19	3	2,5	2,5	3,5	2,5
	inch	5	0,67	4,92	3,54	4x0,75	0,12	0,1	0,1	0,14	0,1
040	mm	165	20	140	105	4x19	4	2,5	2,8	3,5	2,5
	inch	6,5	0,79	5,51	4,13	4x0,75	0,16	0,1	0,11	0,14	0,1
050	mm	178	20	155	120	4x19	4	3	3	4	3
	inch	7	0,79	6,1	4,72	4x0,75	0,16	0,12	0,12	0,16	0,12
080	mm	203	22	185	150	8x19	4	4	3,5	5	3
	inch	8	0,87	7,17	5,91	8x0,75	0,16	0,16	0,14	0,2	0,12
100	mm	229	22	210	175	8x19	4	4	4	5	4,25
	inch	9	0,87	8,27	6,89	8x0,75	0,16	0,16	0,16	0,2	0,17
150	mm	267	27,5	280	240	8x23	4	5	4	5	4,5
	inch	10,5	1,08	11,02	9,45	8x0,91	0,16	0,2	0,16	0,2	0,18

stem lining DN 20, 25, 40
all other sizes at least

0,059 inch
0,098 inch

Spare Parts (item n°) - AKH3 Standard Version

ANSI	Ball			Seat Rings
	FEP	PFA	Ceramic°	PTFE
1"	0000267	0000322	0002316	0000159
1½"	0000268	0000323	0002317	0000159
2"	0000270	0000325	0002319	0000160
3"	0000271	0000326	0002320	0000161
4"	0000273	0000328	0002322	0000163
6"	0000274	0000329	0002323	0000164
8"	0000275	0000330	0002405	0000165
10"	0000276	0000331	---	0000166
12"	0000276	0000331	---	0000166

ANSI	Stem		Packing (set)	
	Stainless Steel PFA	Hastelloy PFA	PTFE	PTFE / Graphite
1"	0000113	0000114	0000167	0000174
1½"	0000115	0000116	0000167	0000174
2"	0000117	0000118	0000168	0000175
3"	0000119	0000120	0000169	0000176
4"	0000121	0000122	0000170	0000177
6"	0000121	0000122	0000170	0000177
8"	0000123	0000124	0000172	0000179
10"	0000125	0000126	0000173	0000180
12"	0000125	0000126	0000173	0000180

° Al₂O₃

Spare Parts (item n°) - AKH3 - JIS 10K Standard Version

JIS	Ball			Seat Rings
	FEP	PFA	Ceramic°	PTFE
015	0000266	0000321	0002316	0000159
020	0000267	0000322	0002316	0000159
025	0000267	0000322	0002316	0000159
040	0000268	0000323	0002317	0000159
050	0000270	0000325	0002319	0000160
080	0000271	0000326	0002320	0000161
100	0000273	0000328	0002322	0000163
150	0000274	0000329	0002323	0000164

JIS	Stem		Packing (set)	
	Stainless Steel PFA	Hastelloy PFA	PTFE	PTFE / Graphite
015	0000113	0000114	0000167	0000174
020	0000113	0000114	0000167	0000174
025	0000113	0000114	0000167	0000174
040	0000115	0000116	0000167	0000174
050	0000117	0000118	0000168	0000175
080	0000119	0000120	0000169	0000176
100	0000121	0000122	0000170	0000177
150	0000121	0000122	0000170	0000177

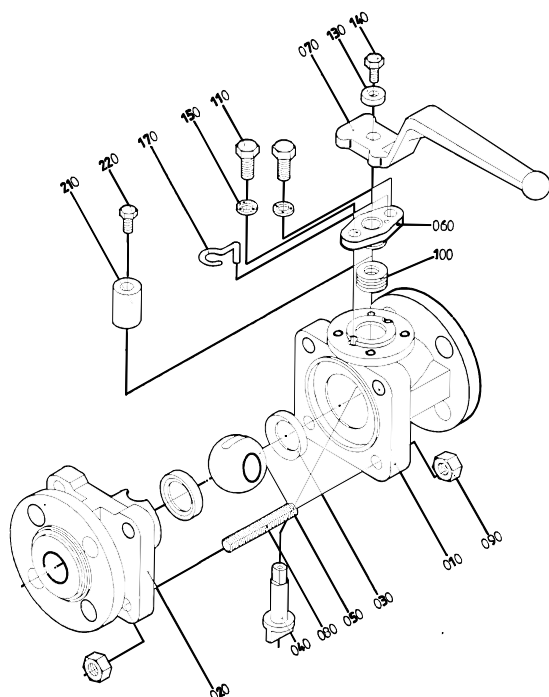
° Al₂O₃

ASSEMBLY INSTRUCTIONS AKH3

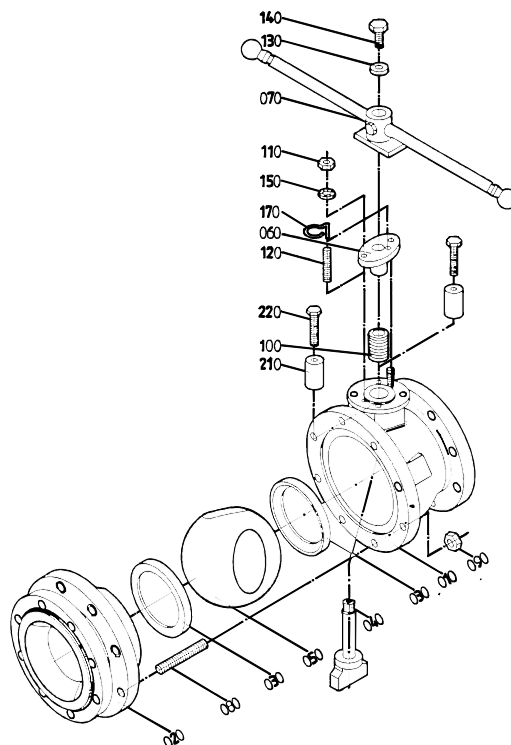
The general installation and maintenance instructions must be observed.

1. Screw stud bolts (120) into body (010).
2. Insert stem (040) from inside of body in such a way that the flat side is parallel to body longitudinal axis.
3. Insert chevron packing (100).
4. Install gland follower (060), safety washers (150), hexagon nuts (110) and grounding strap (170) also on valves with actuator.
5. Install hand lever (070) on to stem (040) and tighten it using lock washer (130) and hexagon bolt (140).
6. Insert first ball seat ring (030) into body (010).
7. Insert ball (050) to valve stem by pushing the ball in a downward motion through valve body.
8. Turn hand lever 90° of longitudinal axis of body.
9. Install second ball seat ring (030) on to ball (050).
10. Install side piece (020) on to body (010), making sure that recess for stem is on the correct side.
11. Install body bolts (080) and hexagon nuts (090) and tighten by crisscross method to recommended torques.
12. Assemble stop (210) with hexagon bolt (220).
13. Make sure that the valve DN 10" is in open position when it is installed into the piping system.

DN 1" - 3" = square flange
DN 4" and 6" = hexagonal flange



DN 8" and 10"

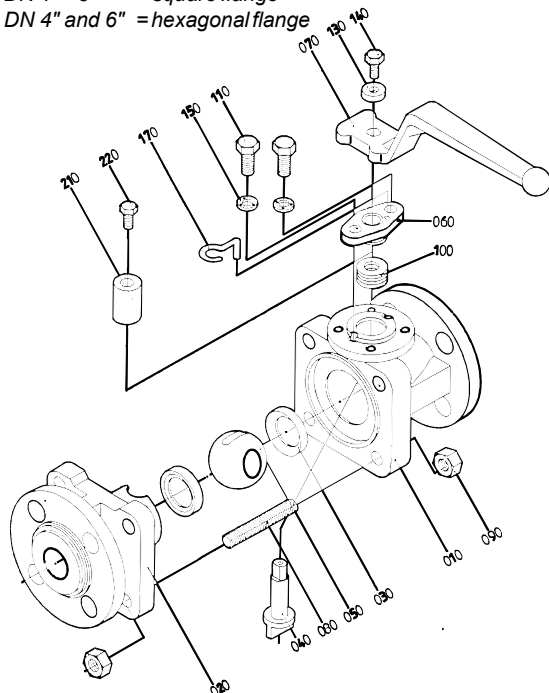


Disassembly Instructions for AKH3

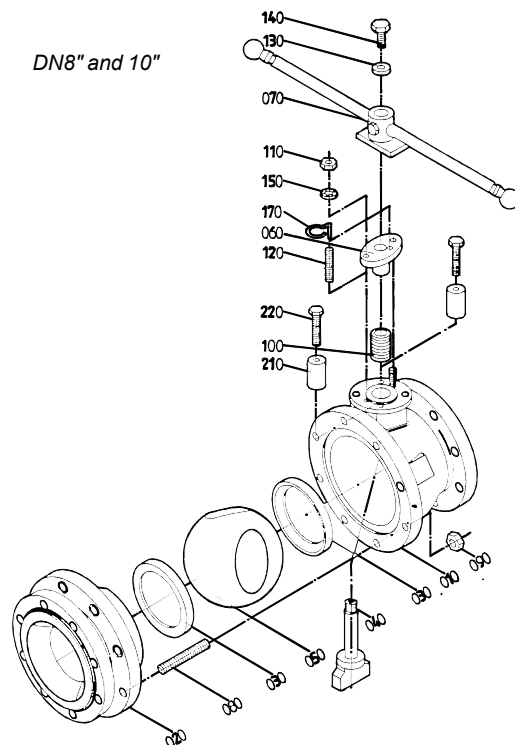
For all jobs which are to be carried out on an installed valve, the works safety requirements and the general accident prevention instructions must be observed. Moreover, the general installation and maintenance instructions for atomac fluorocarbon resin lined valves must be considered.

1. Prior to disassembly, the valve must be cleared of all fluid according to the above-mentioned instructions. Particular care must be taken that during rinsing and draining of the piping, the valve is opened and closed repeatedly. These cycles (opening and closing) are to be repeated during draining of the piping. Only when following this procedure, is it ensured that all remaining pressure inside the body (stem guide and ball seats) is eliminated.
Make sure that the valve DN 10" is in open position when it is removed of the piping system.
2. For disassembly of the valve, put body on a work bench with a soft cover (rubber mat).
Remove hexagon bolt (110) and lock washer (150).
3. Open valve completely. Remove hand lever.
4. Disassemble grounding device (170).
5. Disassemble gland follower (060). If necessary, stud bolts (120) can also be removed now.
6. Remove body bolts (080) and separate side piece from body.
7. Remove first ball seat ring (030).
8. Put ball in closed position and push ball out of the body. Remove hand lever (070).
9. Remove stem (040) by pushing it down through the body (010). Care must be taken not to damage body liner.
10. Chevron packing (100) can easily be removed.
11. If necessary, remove hand lever stop (210) by releasing bolt (220).

DN 1" - 3" = square flange
DN 4" and 6" = hexagonal flange



DN8" and 10"



AKH3 - recommended tightening torques*

DN	tie rods (080/090)		connection flange		gland bolts (110/120/150)	
	Nm	in.lbs	Nm	in.lbs	Nm	in.lbs
020	16	141,6	13	117	4	35
025	16	141,6	32	283	4	35
1"	17,8	157	15,5	137	4	35
040	15	132,7	43	380	4	35
1½"	16,5	146	32,2	285	4	35
050	32	283,2	58	513	7	62
2"	35	311	63,8	564,6	7	62
080	42	372	45	398	7	62
3"	46,8	414	105	929	7	62
100	63	558	56	495	8	71
4"	70	620	80,5	712	8	71
150	102	907	135	1195	8	71
6"	113	1000	139	1230	8	71
8"	181	1601	188	1664	12	106
10"	275	2434	222,8	1971,8	15	133
12"	275	2434	316	2796	15	133

* maximum value

Manual Actuator

(worm gear)

The fully closed, waterproof actuator consists of a body with lid, worm gear, input shaft and hand wheel. For the correct adjustment of the ball position, there are two adjustable stops mounted in the body.

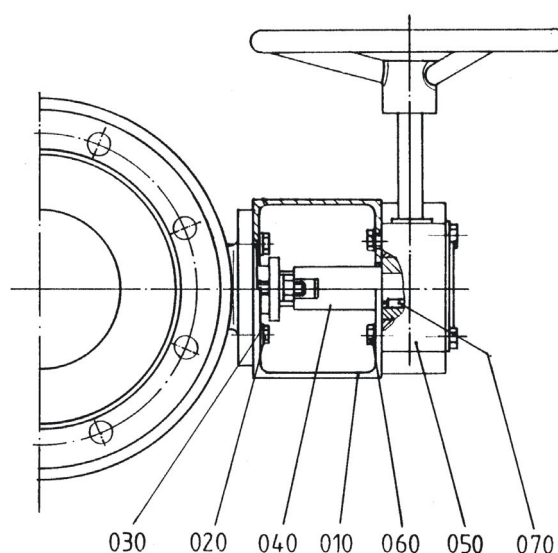
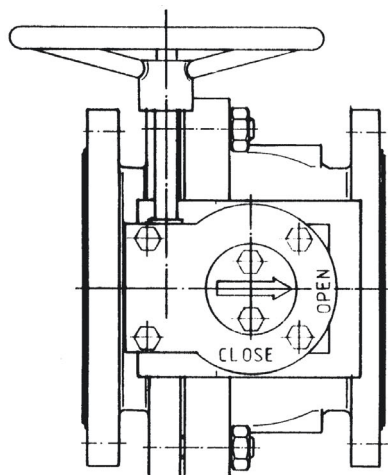
The gear is fully greased and does not need any further lubrication.

The actuator with hand wheel is mounted on a bracket with four stainless steel bolts. The on/off position is indicated through a pointer. The actuator is self-locked.

Material specification

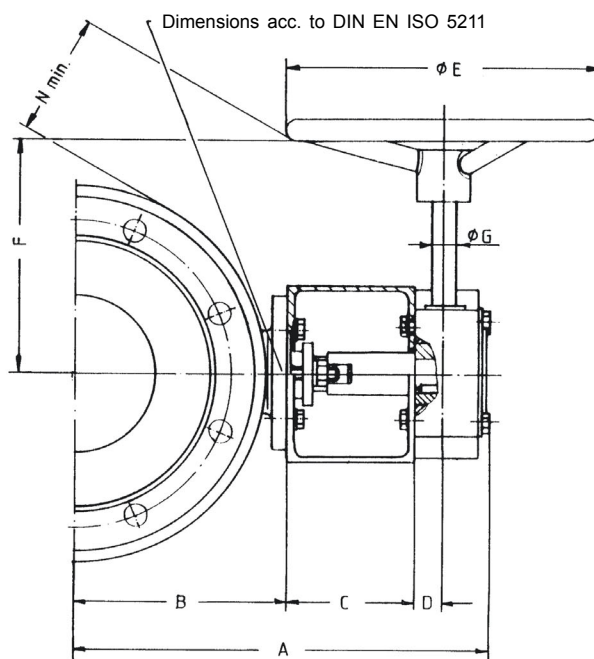
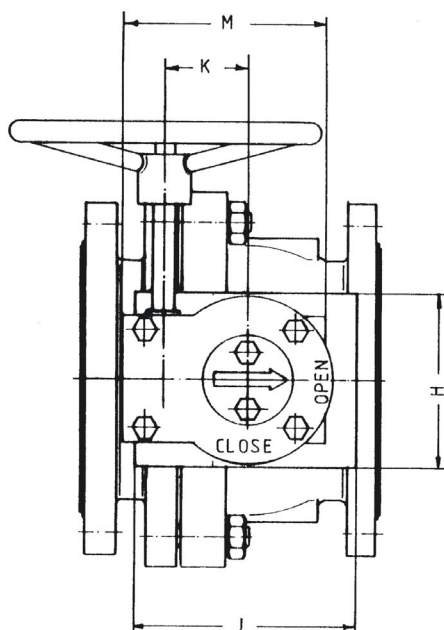
Designation	Material	Material-No.	DIN
body	GG-25	0.6025	DIN EN 1561
worm	St 50-2	1.0050	DIN EN 10025
gear	GGG-40	0.7040	DIN 18299
grease	Shell 661-Light		
input shaft	St 50-2	1.0050	DIN EN 10025
hand wheel	St 37-2	1.0037	DIN EN 10025

Material specification - AKH3 with manual actuator



No.	Designation	Pieces	Material	Material No.	DIN	ASTM / AISI
010	actuator bracket	1	steel	1.0037	DIN EN 10025	A 283 B
020	hexagon bolt	4	stainless steel	1.4301	DIN 17440	A 193 B8
030	serrated lock washer	4	stainless steel	1.4301	DIN 17440	AISI 304
040	adapter	1	stainless steel	1.4104	DIN 17440	AISI 430 F
050	actuator	1				
060	hexagon bolt	4	stainless steel	1.4301	DIN 17440	A 193 B8
070	key	1	steel	1.0050	DIN EN 10277	A 572 GR 50

Technical Data - AKH3 with manual actuator



ANSI		A	B	C	D	ØE	F
6"	mm	282	142	80	27	200	140
	inch	11,1	5,59	3,15	1,06	7,87	5,51
8"	mm	367	204	80	40	250	160
	inch	14,45	8,03	3,15	1,57	9,84	6,3
10"	mm	423	256	80	42	300	185
	inch	16,65	10,08	3,15	1,65	11,81	7,28
12"	mm	423	256	80	42	300	185
	inch	16,65	10,08	3,15	1,65	11,81	7,28

ANSI		ØG	H	J	K	M	N min
6"	mm	16	140	135	45	145	60
	inch	0,63	5,51	5,31	1,77	5,71	2,36
8"	mm	20	140	150	71	175	80
	inch	0,7	5,51	5,9	2,8	6,89	3,15
10"	mm	20	140	150	86	215	50
	inch	0,79	5,51	5,9	3,39	8,46	1,97
12"	mm	20	140	150	86	215	12
	inch	0,79	5,51	5,9	3,39	8,46	0,47

Typ	gear transmission ratio	Nm	in.lbs	kg
AB 210 N	28 : 1	300	2655	3
AB 550 N	34 : 1	930	8230	8
AB 880 N	38 : 1	1500	13275	12

AKH3 - Necessary actuator torques

Packingmaterial: chevron PTFE or PTFE-graphite

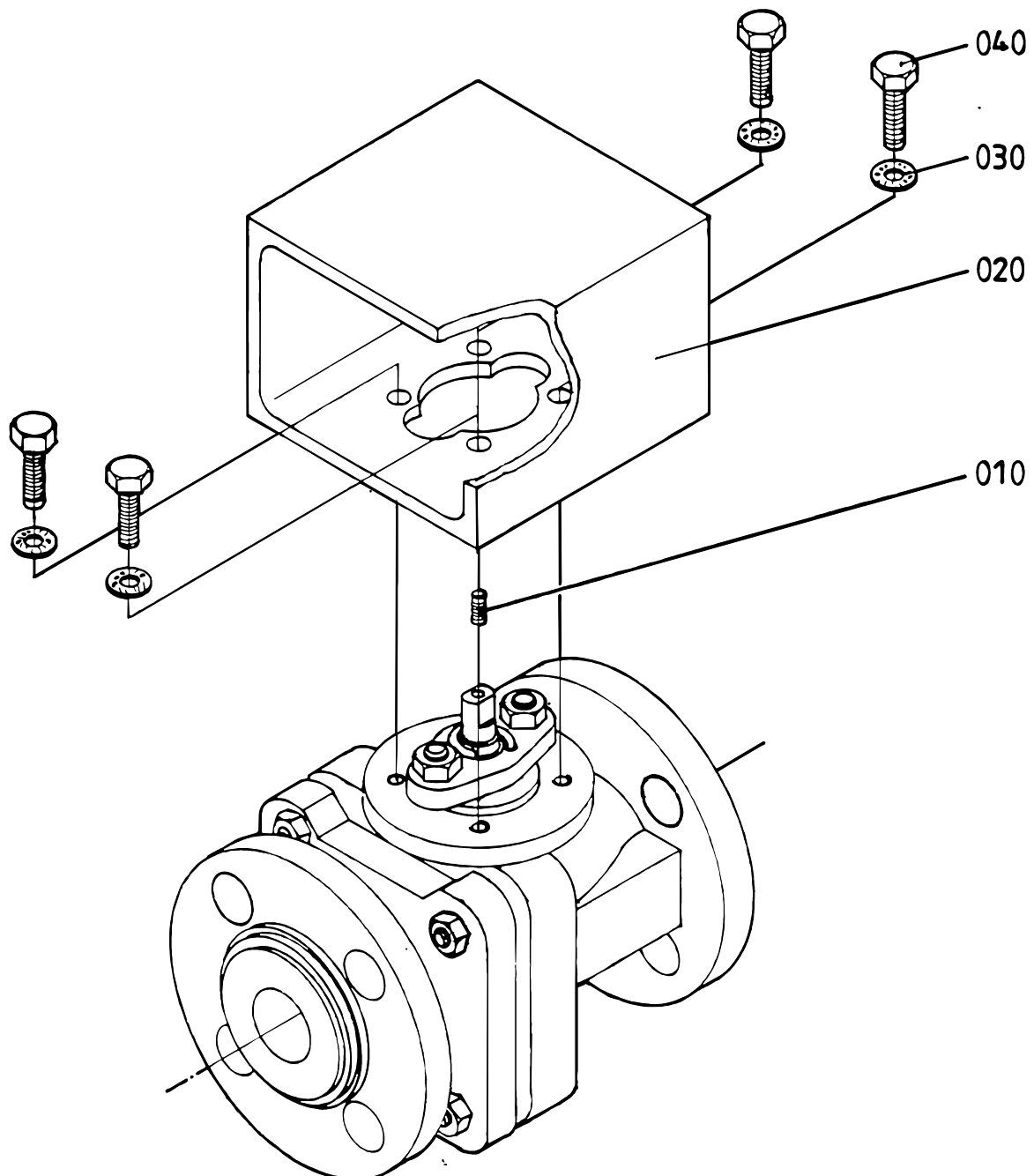
Size		0 bar Δp Nm	0 psi Δp in/lbs
--	020	7	62
1"	025	7	62
1½"	040	8	71
2"	050	21	186
3"	080	27	239
4"	100	42	372
6"	150	52	460
8"	--	120	1062
10"	--	300	2655
12"	--	300	2655

Test medium is air.

Test temperature is 20°C (68°F).

Please note the conditions of service temperatur-diagrams of pressure/vacuum: register 1, page 13.

AKH3 with actuator mounting

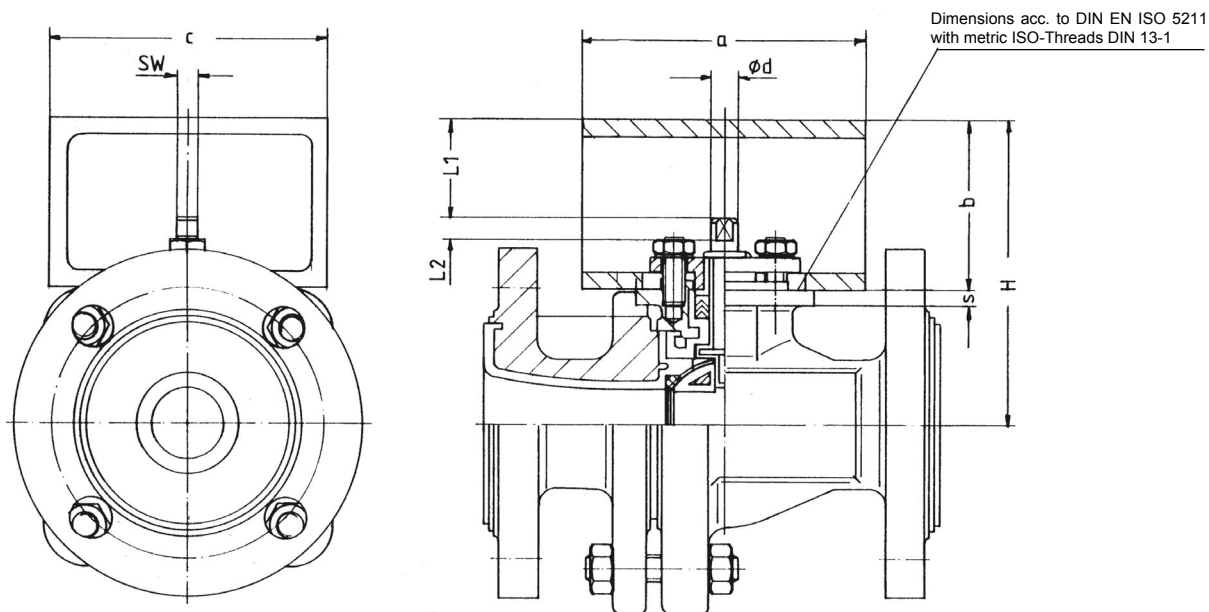


Material specification - AKH3 with actuator mounting

No.	Designation	Pieces	Material	Material-No.	DIN	ASTM / AISI
010	threaded pin	1	stainless steel	1.4301	DIN 17440	A 193 B8
020	actuator bracket	1	steel	1.0037	DIN EN 10025	A 283-B
030	serrated lock washer	4	stainless steel	1.4301	DIN 17440	AISI 304
040	hexagon bolt	4	stainless steel	1.4301	DIN 17440	A 193 B8

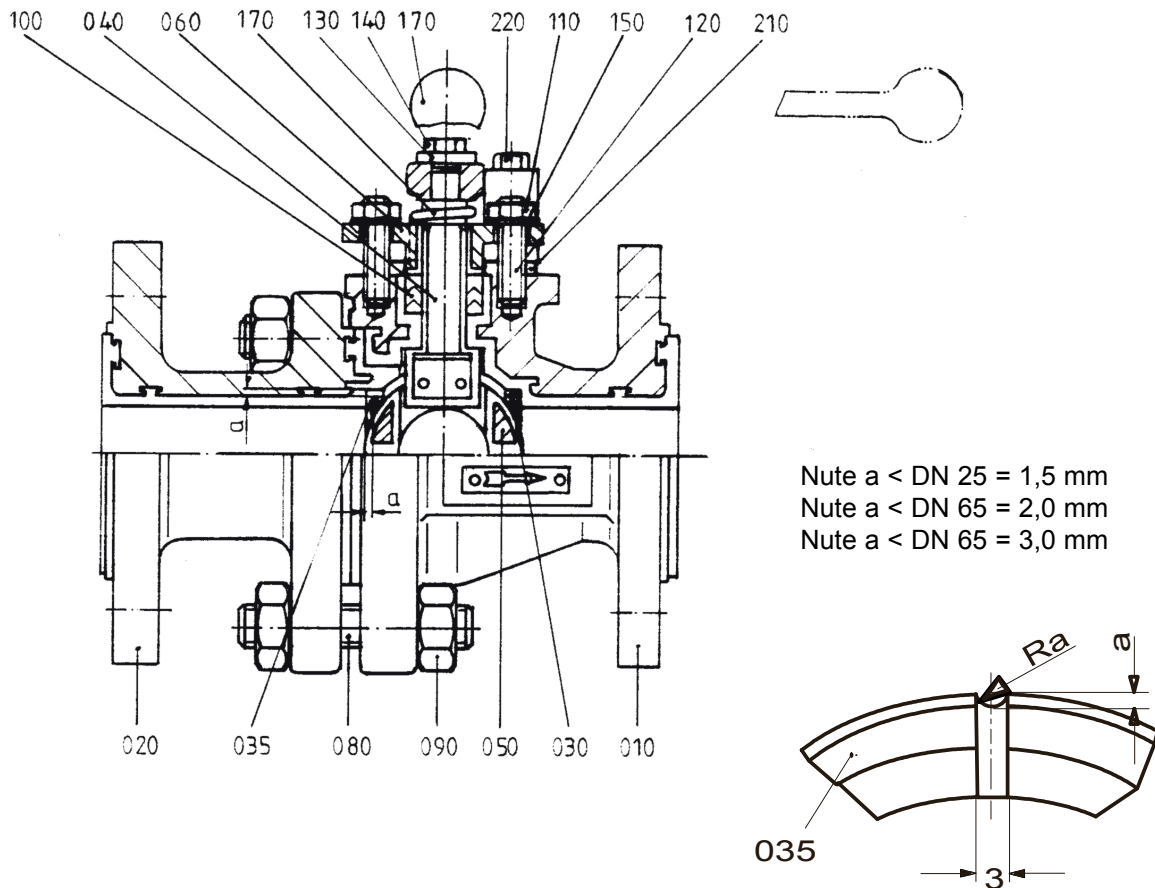
Item-No. 010 "threaded pin" is used with sizes DN 20, 25, 40 and 1", 1½" only.

AKH3 - Dimension sheet for actuator mounting acc. to NAMUR - recommendation



ANSI	JIS		H	a	b	c	SW	d	S	L1	L2	DIN EN ISO 5211 ISO 5211
-	020	mm	107,5	75	60	100	8	10	6	33,5	7,5	F05
		inch	4,23	2,95	2,36	3,94	0,315	0,394	0,24	1,32	0,3	
1"	025	mm	107,5	75	60	100	8	10	6	33,5	7,5	F05
		inch	4,23	2,95	2,36	3,94	0,315	0,394	0,24	1,32	0,3	
1½"	040	mm	109	75	60	100	8	10	6	30,5	9,3	F05
		inch	4,29	2,95	2,36	3,94	0,315	0,394	0,24	1,2	0,4	
2"	050	mm	129	100	60	100	12	16	10	25,5	12,5	F07
		inch	5,08	3,94	2,36	3,94	0,472	0,63	0,39	1	0,49	
3"	080	mm	142	100	60	100	12	16	10	23	12,5	F07
		inch	5,59	3,94	2,36	3,94	0,472	0,63	0,39	0,91	0,49	
4"	100	mm	207	135	80	140	16	22	13	33	15,5	F10
		inch	8,15	5,31	3,15	5,51	0,63	0,866	0,51	1,3	0,61	
6"	150	mm	222	135	80	140	16	22	13	34	15,5	F10
		inch	8,74	5,31	3,15	5,51	0,63	0,866	0,51	1,34	0,61	
8"	-	mm	284	135	80	140	20	30	14	23	19,5	F12
		inch	11,18	5,31	3,15	5,51	0,787	1,181	0,55	0,91	0,77	
10"	-	mm	376	225	120	220	27	40	14	61	19,5	F12
		inch	14,8	8,86	4,72	8,66	1,06	1,575	0,55	2,4	0,77	
12"	-	mm	376	225	120	220	27	40	14	61	19,5	F12
		inch	14,8	8,86	4,72	8,66	1,06	1,575	0,55	2,4	0,77	

AKH3/DA Seat ring with pressure compensation grooves



Special Recleaning and Packing Procedures

1. Recleaning

The ball valve should be thoroughly cleaned with a clean, dry, lint-free towel and blown off with dry nitrogen gas. This will assure that the valve is free from moisture, grease and other media before packing.

2. Packing

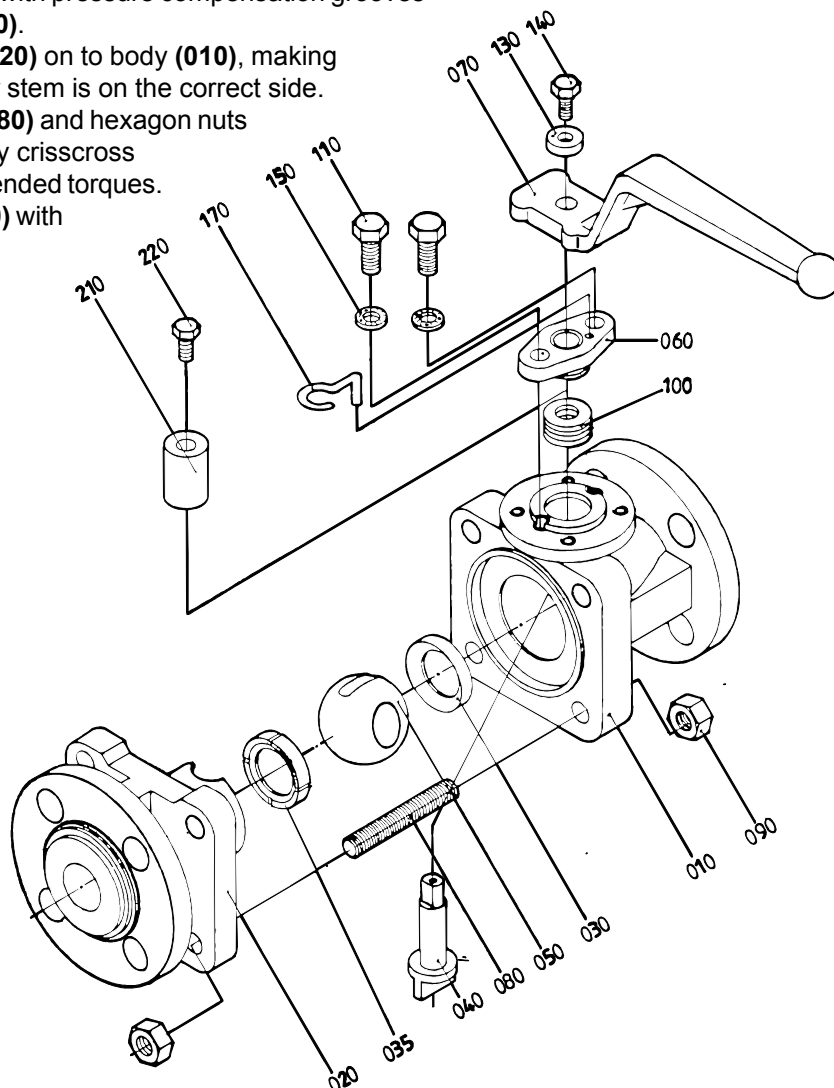
Prior to packing, the ball valve should be jig welded in a PE-foil (0.2 mm thick). The bag contains desiccants acc. to DIN 55473, quantity acc. to DIN 55474 and a moisture indicator.

ASSEMBLY INSTRUCTIONS AKH3/DA

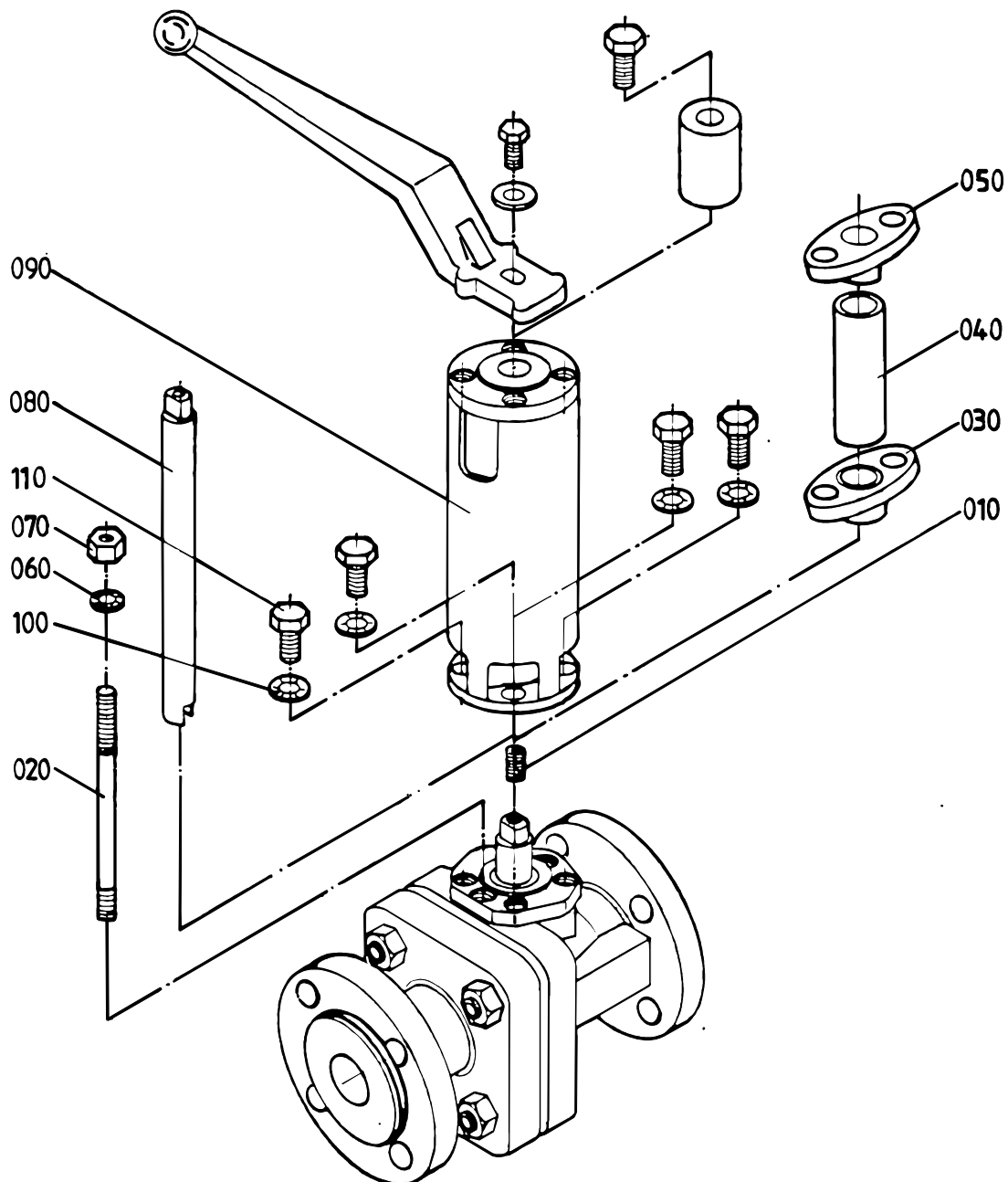
The general installation and maintenance instructions must be observed.

1. Screw stud bolts (120) into body (010).
2. Insert stem (040) from inside of body in such a way that the flat side is parallel to body longitudinal axis.
3. Insert chevron packing (100).
4. Install gland follower (060), safety washers (150), hexagon nuts (110) and grounding strap (170) also on valves with actuator.
5. Install hand lever (070) on to stem (040) and tighten it using lock washer (130) and hexagon bolt (140).
6. Insert first ball seat ring (030) into body (010).
7. Insert ball (050) to valve stem by pushing the ball in a downward motion through valve body.
8. Turn hand lever 90° of longitudinal axis of body.
9. Install ball seat ring with pressure compensation grooves (035) on to ball (050).
10. Install side piece (020) on to body (010), making sure that recess for stem is on the correct side.
11. Install body bolts (080) and hexagon nuts (090) and tighten by crisscross method to recommended torques.
12. Assemble stop (210) with hexagon bolt (220).

*Disassembly
 instruction see
 register 3, page 10.*



AKH3 with stem extension

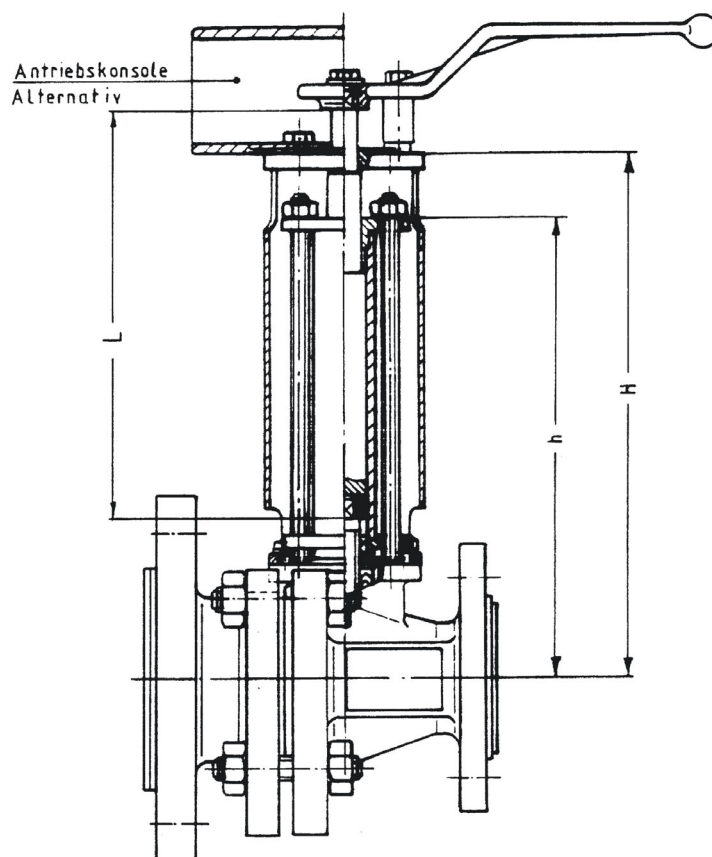


Material specification - AKH3 with stem extension

No.	Designation	Pieces	Material	Material-No.	DIN	ASTM / AISI
010	threaded pin	1	stainless steel	1.4301	DIN 17440	A 193 B8
020	stud bolt	2	stainless steel	1.4301	DIN 17440	A 193 B8
030	gland follower	1	stainless steel / PTFE-graphite	1.4308	DIN EN 10283	A 351 CF 8
040	distance piece	1	steel	1.0305	DIN 17175	A 192
050	gland follower	1	stainless steel	1.4308	DIN EN 10283	A 743 CF 8
060	serrated lock washer	2	stainless steel	1.4301	DIN 17440	AISI 304
070	hexagon nut	2	stainless steel	1.4301	DIN 17440	A 194 8
080	extended stem	1	stainless steel	1.4104	DIN 17440	AISI 430 F
090	mounting	1	steel	1.0037	DIN EN 10025	A 283 B
100	serrated lock washer	4	stainless steel	1.4301	DIN 17440	AISI 304
110	hexagon bolt	4	stainless steel	1.4301	DIN 17440	A 193 B8

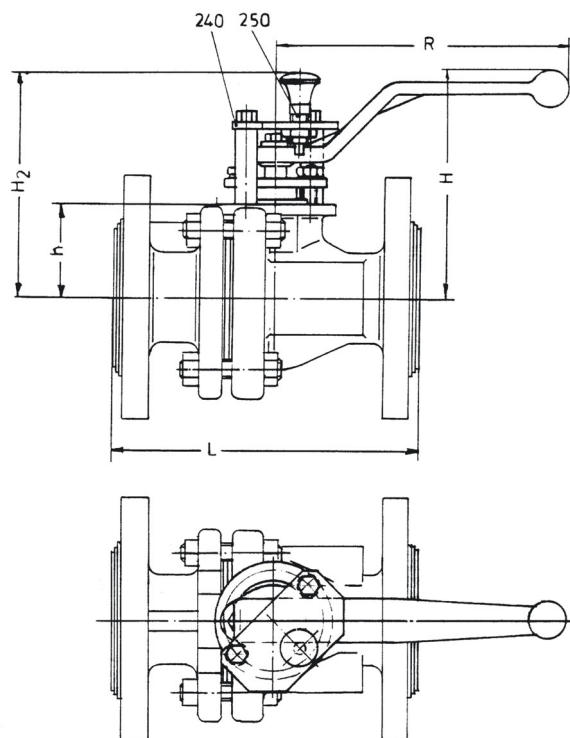
Item - No. 010 "threaded pin" is used with sizes DN 20, 25, 40 and 1", 1½" only.

Technical Data - AKH3 with stem extension



ANSI	JIS		L	H	h
-	020	mm	100	147,5	124
		inch	3,94	5,81	4,88
1"	025	mm	100	147,5	124
		inch	3,94	5,81	4,88
1½"	040	mm	100	149	126
		inch	3,94	5,87	4,96
2"	050	mm	100	169	138
		inch	3,94	6,65	5,43
3"	080	mm	100	182	151
		inch	3,94	7,17	5,94
4"	100	mm	130	256	220
		inch	5,12	10,08	8,66
6"	150	mm	130	271	235
		inch	5,12	10,67	9,25
8"	-	mm	160	364	320
		inch	6,3	14,33	12,6

Technical Data - AKH3 with lockable hand lever



ANSI	JIS		L	H	R
-	020	mm	127	120	160
		inch	5	4,72	6,3
1"	025	mm	127	120	160
		inch	5	4,72	6,3
1½"	040	mm	165	120	160
		inch	6,5	4,72	6,3
2"	050	mm	178	145	210
		inch	7	5,71	8,27
3"	080	mm	203	160	210
		inch	8	6,3	8,27
4"	100	mm	229	205	313
		inch	9	8,07	12,32
6"	150	mm	267	220	313
		inch	10,5	8,66	12,32

ANSI	JIS		H2	h
-	020	mm	118	47,5
		inch	4,65	1,87
1"	025	mm	118	47,5
		inch	4,65	1,87
1½"	040	mm	120	49
		inch	4,72	1,93
2"	050	mm	151	69
		inch	5,94	2,72
3"	080	mm	164	82
		inch	6,46	3,23
4"	100	mm	240	127
		inch	9,45	5
6"	150	mm	254	142
		inch	10	5,59

Material specification - AKH3 with lockable hand lever

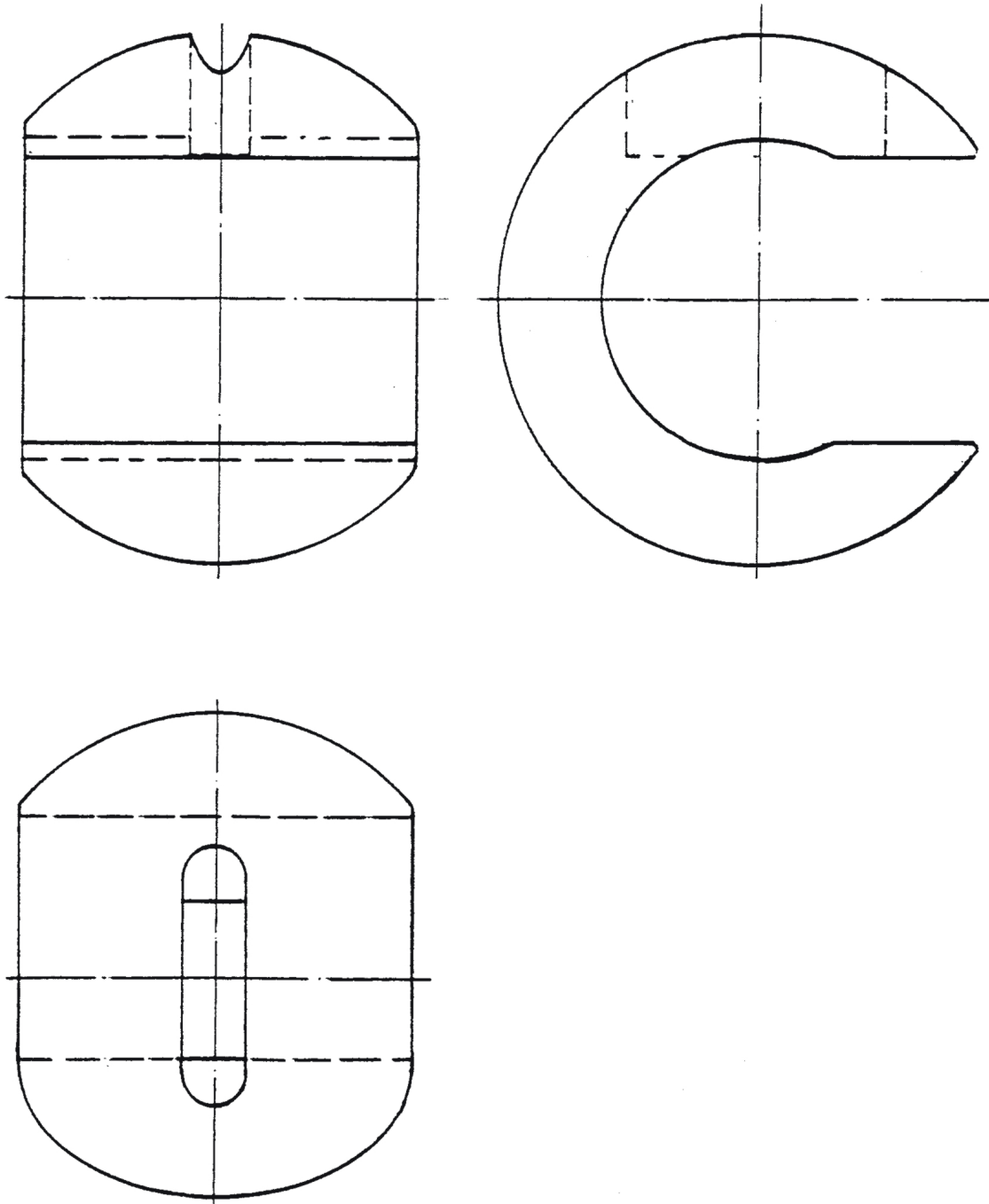
No.	Designation	Pieces	Material	Material-No.	DIN	ASTM / AISI
240	lockable hand lever	1	stainless steel	1.4301	DIN 17440	AISI 304
250	stop bolt	1	stainless steel / duroplastic	1.4301	DIN 17440	AISI 304

**AKH3* - K_v DATA and C_v Data
(DIN EN 60534 / IEC 534)**

JIS	ANSI	K _v m³/h	C _v gal/min
020	-	-	-
025	1"	31,6	36,7
040	1 ½"	44,1	51,3
050	2"	158,4	184,1
080	3"	177,5	206,3
100	4"	580,3	674,5
150	6"	789,2	917,3
-	8"	1636,2	1901,6
-	10"	3652,0	4244,7
-	12"	2793,0	3246,3

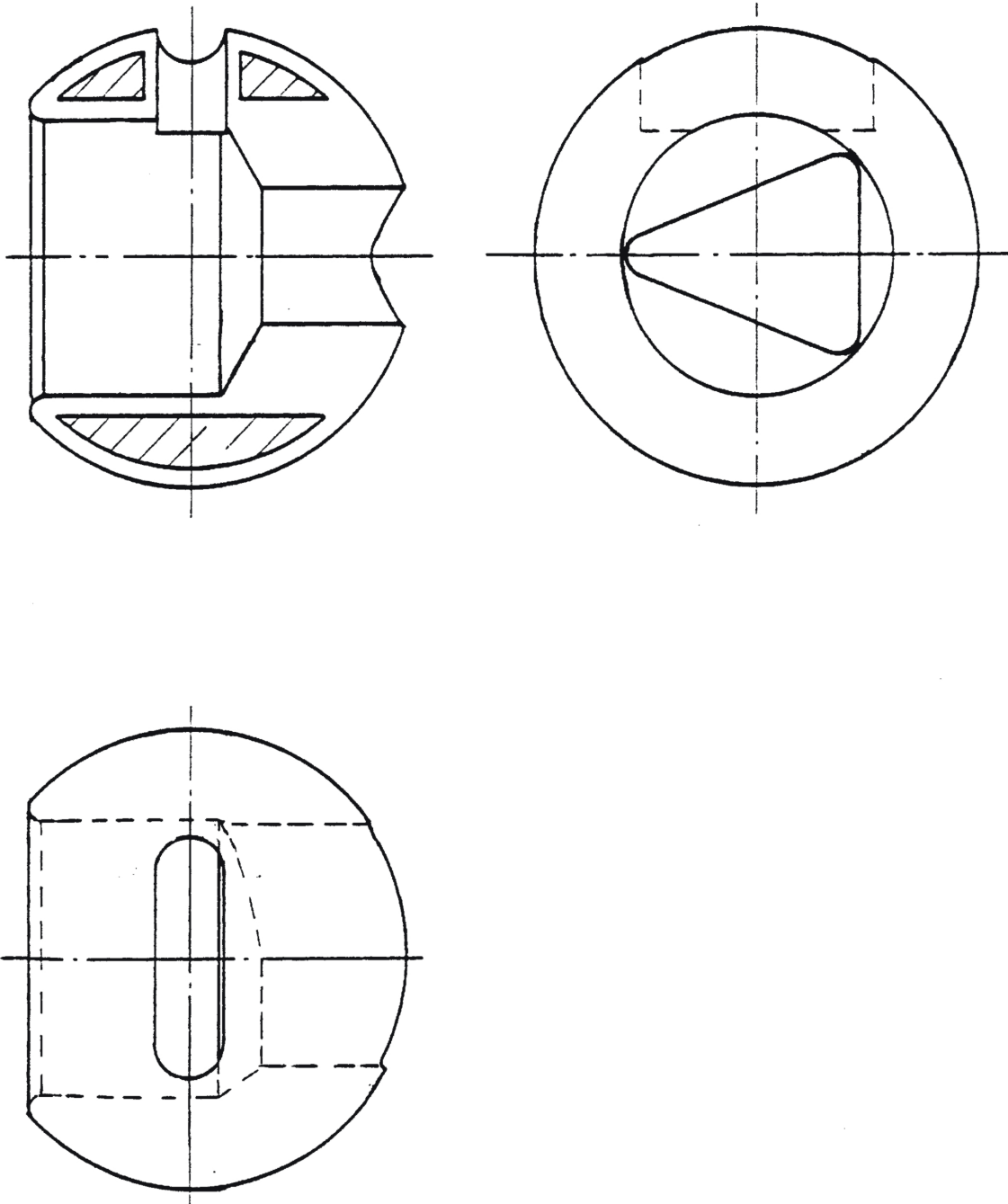
**reduced port*

Optional C-ball in ball valves



For details please contact our Sales office at Ahaus, Germany.

Optional V-ball in ball valves



For details please contact our Sales office at Ahaus, Germany.