Honeywell

krom schröder

Manual valves AKT

Technical Information · GB
1 Edition 09.18

- Any installation position
- Low torque design for ease of action by means of Teflon seals
- AKT..R, AKT..F: EC type-tested and certified



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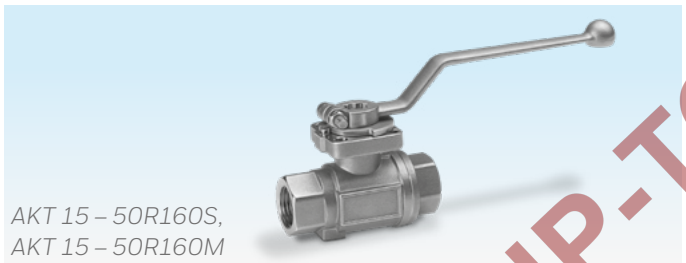
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AKT 6 – 50R50B



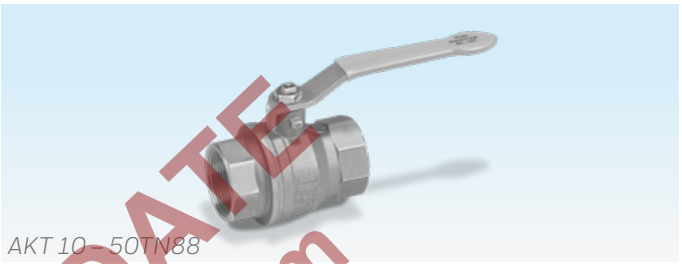
AKT 15 – 50R160S,
AKT 15 – 50R160M



AKT 25 – 100F160G



AKT 125 – 250/200F160G1



AKT 10 – 50TN88

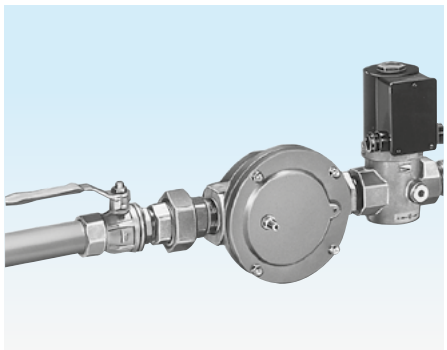
1 Application

For isolation of light and heavy fuel oil, water and all gases to DVGW Code of Practice G 260/I and air.

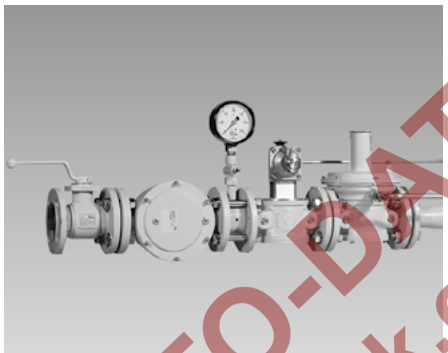
AKT..R with internal thread, AKT..F with flange and AKT..T with NPT thread.

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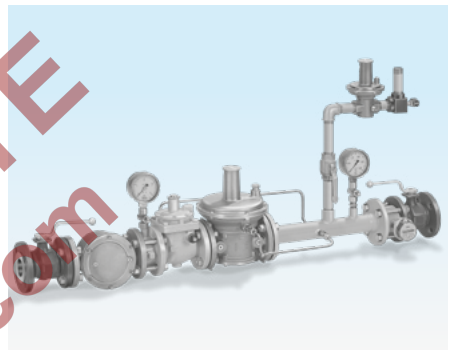
1.1 Examples of application



Central flame protection ≤ DN 50



Central flame protection ≥ DN 50



Gas control line p_u ≤ 4 bar

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2 Certification

Certificates – see Docuthek.

EU certified pursuant to

CE

AKT..R50B

Regulation:
– (EU) 305/2011
– (EU) 2016/426

Standards:
– DIN EN 331

AKT 15 – 50R160S/M

Regulation:
– (EU) 2016/426

Standards:
– DIN EN 13774, DVGW V_P 303

AKT 25 – 100F160G

Directives:
– 2014/68/EU (AKT 65 – 150F160G)

Regulation:
– (EU) 2016/426

Standards:
– DIN EN 13774

AKT 125 – 250/200F160G1

Directives:
– 2014/68/EU

Regulation:
– (EU) 2016/426

Standards:
– DIN EN 13774

Approvals for manual valves

Type	Gas Appliances Regulation	DVGW test mark
AKT 650R50B	CE-0085AU0271	NG-4312AU0247
AKT 15 – 50R160S	CE-0085BQ0576	DG-4313BQ0568
AKT 15 – 50R160M	CE-0085BQ0576	DG-4313BQ0568
AKT 25 – 100F160G	CE-0085AT0438	NG-4313AT2770
AKT 125 – 250/200F160G1	CE-0085BN0275	NG-4313BN0274

Eurasian Customs Union

EAC

The product AKT meets the technical specifications of the Eurasian Customs Union.

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Declaration of performance pursuant to annex III of Regulation (EU) No. 305/2011

CE

Elster GmbH
Strotheweg 1
49504 Lotte (Büren)
Germany

2015

DIN EN 331
Manual valve

AKT (DN)**R50B**

Manual valve for
gas installations
Fuel gases pursuant to G 260
1st, 2nd and 3rd gas families to EN 437
DIN-DVGW NG-4312AU0247

Features:	DIN EN 331
Pressure class:	MOP 5 bar
Temperature class:	-20 °C to +60 °C
Rated flow rate:	passed
Dimensional tolerances:	passed
Tightness test:	≤ 20 cm³/h
Mechanical strength:	passed
Operating torque:	passed
Strength of stops:	passed
Endurance:	passed

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3 Selection

AKT..R with internal thread, p_u max. 5 bar/72 psig

	R	50	B
AKT 6	●	●	●
AKT 10	●	●	●
AKT 15	●	●	●
AKT 20	●	●	●
AKT 25	●	●	●
AKT 32	●	●	●
AKT 40	●	●	●
AKT 50	●	●	●

AKT..R with internal thread, p_u max. 16 bar/232 psig

	R	160	S	M
AKT 15	●	●	●	●
AKT 20	●	●	●	●
AKT 25	●	●	●	●
AKT 32	●	●	●	●
AKT 40	●	●	●	●
AKT 50	●	●	●	●

AKT..F with flanged connection, p_u max. 16 bar/232 psig

	F	160	G	G1	K
AKT 25	●	●	●		●
AKT 32	●	●	●		
AKT 40	●	●	●		
AKT 50	●	●	●		
AKT 65	●	●	●		
AKT 80	●	●	●		
AKT 100	●	●	●		
AKT 125	●	●		●	
AKT 150	●	●		●	
AKT 200	●	●		●	
AKT 250/200	●	●		●	

Order example

AKT 100F160G

AKT..T with NPT thread, p_u max. 8.8 bar/125 psig

	T	N	88
AKT 10	●	●	●
AKT 15	●	●	●
AKT 20	●	●	●
AKT 25	●	●	●
AKT 32	●	●	●
AKT 40	●	●	●
AKT 50	●	●	●

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3.1 Type code

3.1.1 AKT..R, AKT..F

Code	Description
AKT	Manual valve
6 – 250/200	Nominal size
R F	Rp internal thread Flange to ISO 7005
 50 160	Max. inlet pressure $p_{u\,max.}$ 5 bar/72 psig 16 bar/232 psig
B G G1 S M	Brass housing Housing, GJS400-18, ball: C45 steel, hard chromium-plated Two-part housing, GJS400-18, ball: C45 steel, hard chromium-plated Steel housing Stainless steel housing, suitable for biogas
K	Short length

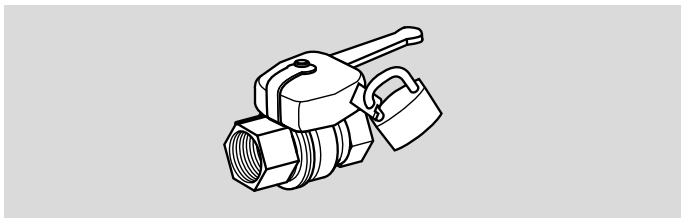
3.1.2 AKT..T

Code	Description
AKT	Manual valve
10 – 50	Nominal size
T	T-product
N	NPT thread
 88	Max. inlet pressure $p_{u\,max.}$ 8.8 bar/125 psig

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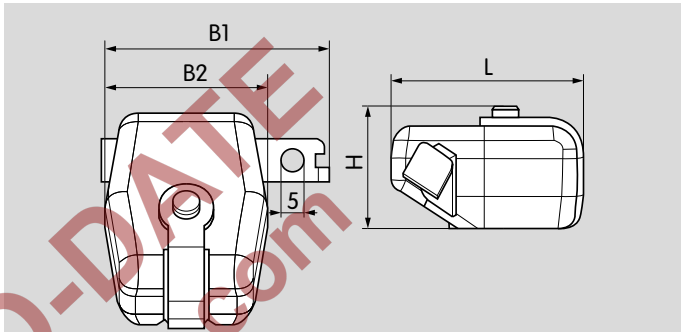
4 Locking device ASV

Suitable for manual valve AKT..R50B made of brass.



The locking device ASV can be fitted without the need for tools. For this purpose, no changes are to be made to the manual valve. It can be locked in the open or closed position using a padlock (not included in the delivery).

Dimensions



	DN AKT	B1	B2	L	H	Order No
ASV 6/10	6/10	48	34	25	42	03151181
ASV 15/20	15/20	48	35	40	49	03151182
ASV 25/32	25/32	49	40	34	48	03151183
ASV 40/50	40/50	57	49	40	58	03151184

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5 Technical data

5.1 AKT..R, AKT..F

AKT 6 – 50R50B

DN 6 – 50

In acc. with EN 331

With internal thread to DIN EN 10226-1

High temperature resistance (HTR): Class B 0.1 (100 mbar)

Housing: CW617N, chromium-plated

Ball: CW617N, chromium-plated

Ball seal: PTFE (Teflon)

Stem: brass, nickel-plated

Stem seal:
1 × Viton O-ring (gas approval),
1 × NBR O-ring (gas and drinking water approval)

AKT 15 – 50R160S

DN 15 – 50

In acc. with DIN 331

With internal thread to DIN 2999

Housing: cast steel 1.0619, galvanized

Ball: stainless steel 1.4408

Ball seal: PTFE (Teflon)

Stem: stainless steel 1.4401

Stem seal: PTFE/viton

AKT 15 – 50R160M

DN 15 – 50

In acc. with DIN 331

With internal thread to DIN 10226-1

Housing: stainless steel 1.4408

Ball: stainless steel 1.4408

Ball seal: PTFE (Teflon)

Stem: stainless steel 1.4401

Stem seal: PTFE/viton

AKT 25 – 100F160C

DN 25 – 100

In acc. with EN 13774

Flanged connection to EN 1092-2; PN 16

Housing: GJS 400-18-LT

Ball: S45C, chromium-plated

Ball seal: PTFE (Teflon)

Stem: stainless steel 1.4024

Stem seal: FKM (Viton)

Housing flange seal: Viton

Up to 16 bar, this series meets the requirements for high thermal capacity (HTR up to 650°C) as well as for internal and external tightness pursuant to DIN EN 1775:2007, Annex A, Procedure B.

AKT 125 – 250/200F160G1

DN 125 – 250 (DN 250 with bore reduced to DN 200)

In acc. with EN 13774

Flanged connection to EN 1092-2; PN 16

Housing: GJS 400-18-LT

Ball: S45C, chromium-plated

Ball seal: PTFE (Teflon)

Stem: stainless steel

Stem seal: 2 × Viton

Housing flange seal: Perbunan

5.2 AKT..T

AKT 10 – 50TN88

DN 10 – 50

Housing: brass

Ball: brass, chromium-plated

Ball seal: PTFE (Teflon)

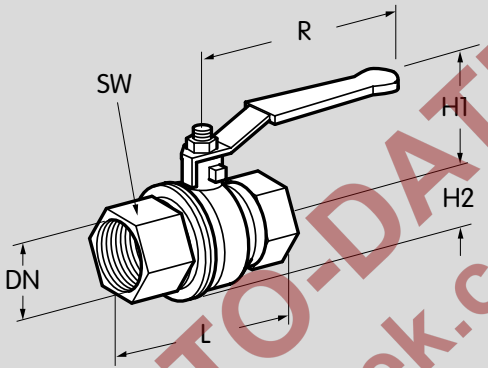
Stem seal: Viton

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Typ	Medium temperature				Max. inlet pressure p_u				HTR up to
	Gas		Other media[1]		Gas		Other media		
	°C	°F	°C	°F	bar	psig	bar	psig	
Manual valve with internal thread connection AKT..R									
AKT 6 – 50R50B	-20 – +60	-4 – +140	-20 – +180	-4 – +350	5 [2]	72 [2]	16 [2]	232 [2]	100 mbar
AKT 15 – 50R160S	-20 – +60	-4 – +140	-20 – +180	-4 – +350	16 [2]	232 [2]	16 [2]	232 [2]	–
AKT 15 – 50R160M	-20 – +60	-4 – +140	-20 – +180	-4 – +350	16 [2]	232 [2]	16 [2]	232 [2]	–
Manual valve with flanged connection AKT..F									
AKT 25 – 100F160G	-20 – +60	-4 – +140	-10 – +140	-4 – +350	16	232	16	232	100 mbar[3]
AKT 125 – 250/200F160G1	-20 – +60	-4 – +140	-20 – +180	-4 – +350	16	232	16	232	–
Manual valve with NPT thread connection AKT..T									
AKT 10 – 50TN88	-20 – +60	-4 – +140	-20 – +180	-4 – +350	8,8	125	8,8	125	–

1) *Dependent on operating pressure and medium.*
2) *Some application standards (e.g. EN 746-2) limit the pressure range for threaded joints, depending on the nominal diameter.*
3) *At inlet pressures > 5 bar, use heat-resistant screws and an HTR flange seal on the inlet side.*

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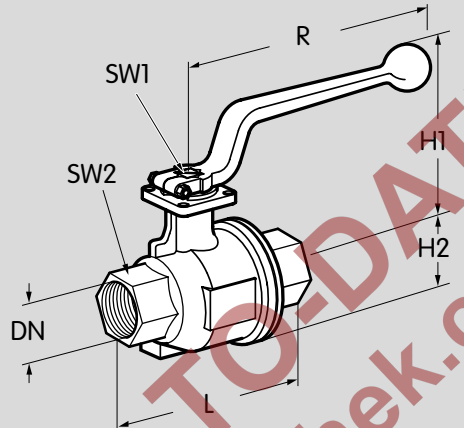


5.3 Dimensions

5.3.1 AKT 6 – 50R50B

Type	DN	Connection	Dimensions					Weight
			L	H1	H2	R	SW	kg
AKT 6R50B	6	Rp 1/4	50	38	13	82	20	0.16
AKT 10R50B	10	Rp 3/8	60	38	13	82	20	0.15
AKT 15R50B	15	Rp 1/2	75	43	16	100	25	0.25
AKT 20R50B	20	Rp 3/4	80	50	19	120	32	0.39
AKT 25R50B	25	Rp 1	90	54	25	120	41	0.62
AKT 32R50B	32	Rp 11/4	110	73	30	160	50	0.98
AKT 40R50B	40	Rp 11/2	120	79	36	160	55	1.20
AKT 50R50B	50	Rp 2	140	86	43	160	70	2.00

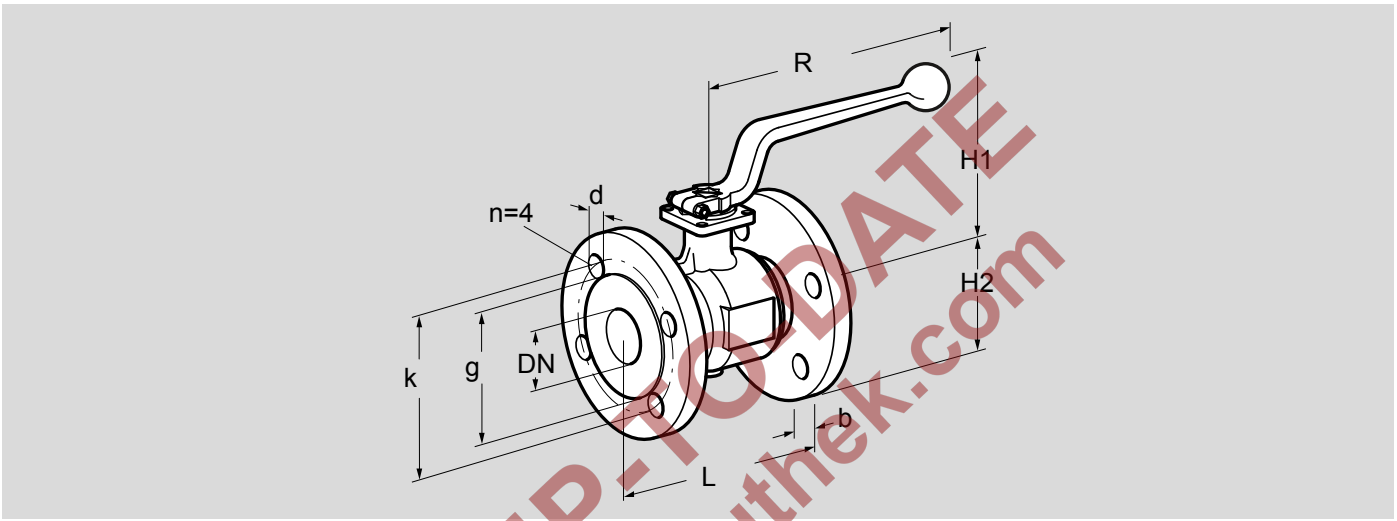
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5.3.2 AKT 15 – 50R160S, AKT 15 – 50R160M

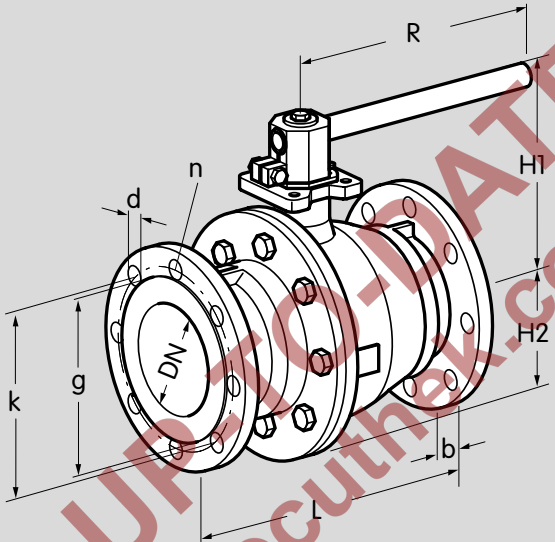
Type	DN	Connection	Dimensions [mm]						Weight
			L	H1	H2	R	SW1	SW2	kg
AKT 15R160S, AKT 15R160M	15	Rp 1/2	75	69.5	18	130	9	27	0.50
AKT 20R160S, AKT 20R160M	20	Rp 3/4	80	73.0	23	130	9	32	0.625
AKT 25R160S, AKT 25R160M	25	Rp 1	90	102.0	28	167	11	41	1.18
AKT 32R160S, AKT 32R160M	32	Rp 1 1/4	110	108.0	34	167	11	50	1.68
AKT 40R160S, AKT 40R160M	40	Rp 1 1/2	120	124.0	40	188	14	55	2.355
AKT 50R160S, AKT 50R160M	50	Rp 2	140	132.0	48	188	14	70	3.73



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5.3.3 AKT 25 – 100F160C

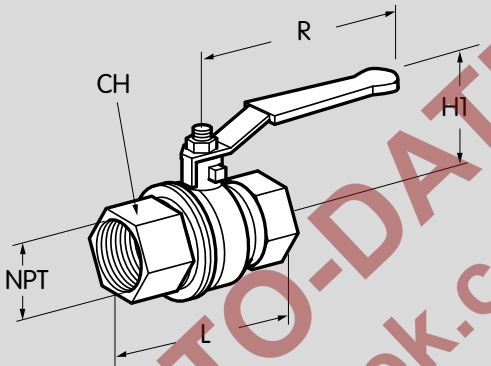
Type	DN	Dimensions									Weight
		L	k	g	b	n	d	H1	H2	R	kg
AKT 25F160GK	25	125	85	70	18	4	14	83	58	158	4.20
AKT 32F160G	32	130	100	80	18	4	18	102	70	180	5.60
AKT 40F160G	40	140	110	89	18	4	18	107	76	180	7.50
AKT 50F160G	50	150	125	103	20	4	18	117	83	222	9.80
AKT 65F160G	65	170	145	123	20	4	18	137	93	293	14.60
AKT 80F160G	80	180	160	140	20	8	18	149	100	293	19.80
AKT 100F160G	100	190	180	158	20	8	18	163	110	293	27.20



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5.3.4 AKT 125 – 250/200F160G

Type	DN	Dimensions									Weight
		L	k	g	b	n	d	H1	H2	R	kg
AKT 125F160G1	125	325	210	188	26	8	18	245	138	565	34.90
AKT 150F160G1	150	350	240	212	26	8	22	268	168	565	52.00
AKT 200F160G1	200	400	295	268	30	12	22	316	208	715	89.00
AKT 250/200F160G1	250	450	355	320	30	12	26	301	210	715	125.00



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4.1.2 AKT 10 – 50TN88

Type	DN	Connection	Dimensions								Weight	
			L		H1		R		CH			
			mm	inch	mm	inch	mm	inch	mm	inch	kg	Lb
AKT 10TN88	10	3/8" NPT	45,0	1,77	1,50	38,1	82,0	3,23	20,0	0,79	0,124	0,27
AKT 15TN88	15	½" NPT	59,0	2,32	1,69	42,9	100,0	3,94	24,9	0,98	0,224	0,49
AKT 20TN88	20	¾" NPT	64,0	2,52	1,97	50,0	119,9	4,72	31,0	1,22	0,352	0,78
AKT 25TN88	25	1" NPT	81,0	3,19	2,13	54,1	119,9	4,72	39,9	1,57	0,604	1,33
AKT 32TN88	32	1¼" NPT	93,0	3,66	2,87	72,9	158,0	6,22	49,0	1,93	0,908	2,00
AKT 40TN88	40	1½" NPT	102,1	4,02	3,11	79,0	158,0	6,22	54,1	2,13	1,105	2,44
AKT 50TN88	50	2" NPT	120,9	4,76	3,39	86,1	158,0	6,22	68,6	2,70	1,820	4,01

Feedback

Finally, we are offering you the opportunity to assess this “Technical Information (TI)” and to give us your opinion, so that we can improve our documents further and suit them to your needs.

Clarity

- ○ Found information quickly
- ○ Searched for a long time
- ○ Didn’t find information

  What is missing?
- ◉ No answer

Comprehension

- ○ Coherent
- ○ Too complicated
- ○ No answer

Scope

- ○ Too little
- ○ Sufficient
- ○ Too wide
- ○ No answer

Use

- ☑ To get to know the product
- ☐ To choose a product
- ☐ Planning
- ☐ To look for information

Navigation

- ○ I can find my way around
- ○ I got “lost”
- ○ No answer

My scope of functions

- ○ Technical department
- ○ Sales
- ○ No answer

Remarks

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