

# ABIE 12/A and ABIE 12/D Indicator cocks, male

ABIE 12/A: Indicator cock, male  
ABIE 12/D: Indicator cock, male with lock nut  
male with connection for Maihak indicator  
Material: VII/steel PN 160



Material	VII
Hexagon head screw	A4
Disc	A4
Lever	0.8135 Zn 8-15 cC
Seeger circlip	1.4034
Stop AB 12	1.4401
Split ring	1.4401
Cock plug ABI	1.4401
Packing sleeve	1)
Body	1.0460 Zn 8-12 cC
Counter nut	1.0715.07 FeNi5p
Locking disc	1.4401
Fillister head screw	A4
Tightening nut	1.4401
Screw plug	1.4571
Gasket	Softnickel
Gasket	Softnickel
Cup nut ABI 12	1.0715.07 FeNi5p
Sealing cones ABI 12	1.4301
Type plate	Cu
Gasket	1.0715.07 FeNi5p
Plug	1.0715.07 FeNi5p

1) Sealing material: KAF, KOR-AF

### Characteristics:

Cylinder cock, elastic packing sleeve, 90°-rotation with stop, to close with a counter-clockwise rotation. Removable handle, simple maintenance.

Application limits acc. to pt-diagram (see page 8–9)

### Suggested order specification

Indicator cock as cylinder cock, sealed with elastic packing sleeve which can be retightened. Body of steel or stainless steel, handle of St 37.2, cock plug of stainless steel. Male screwed ends with pipe thread to DIN/ISO 228/1 connection for Maihak.

### Attention

see type ABI 12/A and 12/D  
Make: KLINGER  
Type: ABIE 12/A, ABIE 12/D – Maihak

**Ordering example:**  
**ABIE 12/A VII, PN 160**

### Overall and connection dimensions in mm

Cock type	Bore d	Overall dimension						Threaded stem			Counter nut		Indikator connection					Weight ca. kg
		H	H1	L	A	B	G	d1	t1	d2	d3	t3	d4	t4	d5	t5	d6	
ABIE12/A	6	72	31,5	121,5	58	36	100	3/4"	17,5	32	–	–	W27×1/10"	17	20	17	17,9	0,65
ABIE 12/D	6	72	31,5	121,5	58	36	100	3/4"	17,5	–	G5/8"A	14	W27×1/10"	17	20	17	17,9	0,65



# AB-cocks Materials

## Materials for AB-cocks

Material code	Body	Cock plug	Tightening nut	Split ring
IV	Hot pressed brass Ms 58p (2.0401)	Hot pressed brass Ms 58p, (2.0401)	2.0401 1.4401 1.4016	Stainless steel 1.4401
VII, VIII	Forged steel C 22,8 (1.0460)	Stainless steel 1.4401		
X, Xc	Stainless steel 1.4571	Stainless steel 1.4401	Stainless steel 1.4401	

## Equivalent material codes

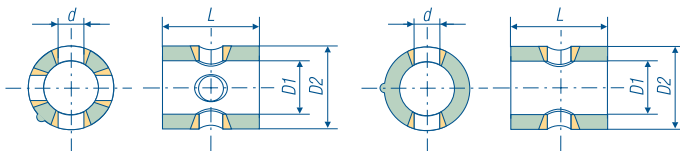
Material code acc. to KLINGER	Material class	DIN-code	ANSI-code	BS-code	ASTM-code
C22,8 VIII	Forged steel	C22,8	M1020	1503–161 Gr.B	A181 Gr. II
Ms58p IV	Hot pressed brass	Ms58p	–	B36-Nr. 8	–
9SMn28K	Machining steel	9SMn28K	1213	2030Mo7	–
St 37.2	Steel	1.0037	–	–	–
1.4571 Xc	Stainless steel	X8CrMoTi 17	316 Ti	320 S 31	–
1.4401	stainless cr.-steel	X5CrNiMo 1810	316	316-S 16	A182-F316

\* AISI- BS- and ASTM-codes are the nearest to DIN

## Materials and measurements of packing sleeves

Four-hole packing sleeve

Two-hole packing sleeve



Cock size	Nominal width mm Zoll d	Internal ∅ D 1	External ∅ D 2	Length L	Number of holes	Weight ca. kg	Suitable for cock type	Material
AB 10							ABB 10 on request	PTFE, KFG
AB 12	6	1/4	12	18	2	0,006	ABL 12, ABM 12, ABZ 12, MABI 12, ABI 12, ABIE 12, ABS 12	KAF, KOR-AF, PTFE, KFG
AB 12	3,25	1/8	12	18	4	0,007	MABA 12, MABC 12, MABU 12	PTFE, KFG, KOR-AF
AB 18	8	5/16	18	26	2	0,019		KAF, KOR-AF PTFE, KFG



### Pressure- temperature limits to ISO 7005/3 and EN 1092-3

Type: Klinger AB-cock MAB 12  
 Material: 2.0401  
 CuZn39Pb3  
 Klinger Wkz. IV  
 Pressure rate: PN 40

Point	Temperature °C	Pressure (bar)
A	120	40
B	150	38.5
C	180	34
D	200	30
E	220	25.5
F	240	21.5
G	250	19.5

### Pressure- temperature limits to ISO 7005/1

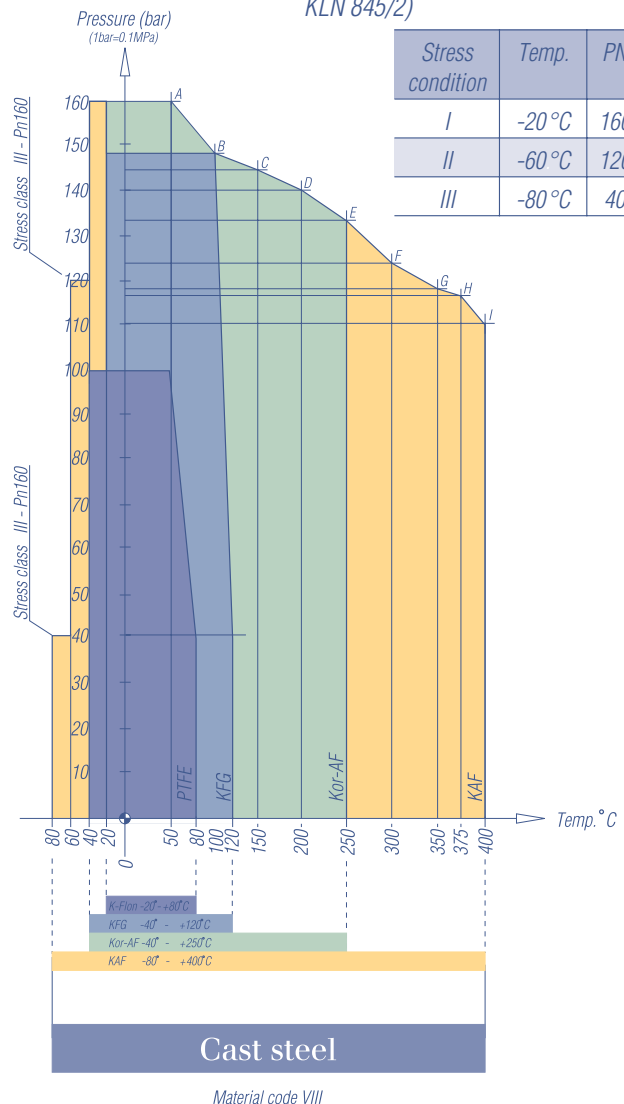
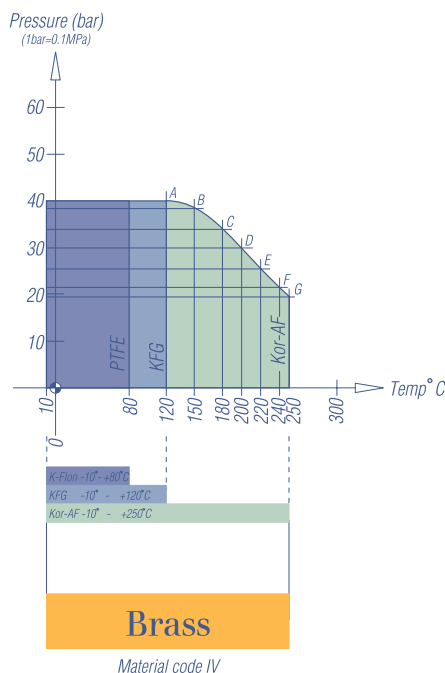
Type: Klinger AB-cock AB12, MAB12, AB18  
 Material: 1.0460  
 C22.8  
 Klinger m. c. VIII  
 Pressure rate: PN 160

Point	Temperature °C	Pressure (bar)
A	50	160
B	100	148.3
C	150	144.7
D	200	140.2
E	250	133.5
F	300	123.9
G	350	118.2
H	375	116.6
I	400	110.4

### Low temperature limits

(acc. to AD-code of practice W10 or KLN 845/2)

Stress condition	Temp.	PN160
I	-20°C	160 bar
II	-60°C	120 bar
III	-80°C	40 bar





# The packing sleeve The heart of the AB-cock



## **PTFE**

*Suitable for chemicals and aggressive media in the food industry*



## **KAF**

*Suitable for high temperatures up to 400 °C*



## **KOR-AF**

*The material used at most for temperatures up to 250 °C*



# **KLINGER®**

**Decades of experience  
in sealing and valve  
manufacturing**

## **KLINGER**

*The KLINGER-name has become a synonym for valves and seals in Europe. The enterprise produces valves since more than hundred years. In 1886 the founder of the company, Richard KLINGER, discovered the reflex glass which became the first reliable liquid level gauge. Other world-wide known products followed such as "Klingerit" (the first lt-sealing material) and the piston valve.*

*KLINGER is an international group which originates from Austria. The parent factory was built in 1892 in Gumpoldskirchen, near Vienna, and is now only one out of many all over the world. Further companies were established in Germany, England, Australia, South Africa, South-, Central and North America and manufacturing licences were assigned in several countries. All these companies together cover the*

*worldwide demand for Klinger products today.*

*The KLINGER research centre in Switzerland is responsible for continuously developing our products in order to meet the demands of all branches of industry*

*Because of new regulations in 1990, asbestos-free sealing material has been developed and is since used in KLINGER valves.*