CHRYSSAFIDIS

ABI 12/A and ABI 12/D
Indicator cocks, male

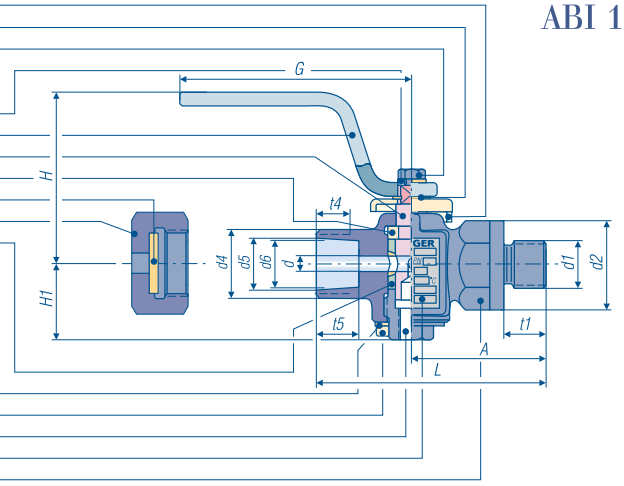
ΚΡΟΥΝΟΙ ΔΥΝΑΜΟΔΕΙΚΤΟΙ ΜΕ ΒΟΛΤΕΣ, ΙΣΙΟΙ PN160

ABI 12/A: Indicator cock male
ABI 12/D: Indicator cock male and lock nut
male with connection for Maihak-Indicator
Material: VII/steel
PN 160

ABI 12/A

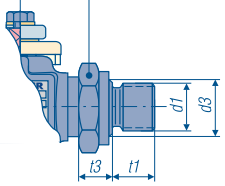
Material	VII
Stop AB 12	1.4401
Seeger circlip	1.4034
Hexagon head screw	A4
Disc	A4
Lever	1.0037 Zn 8-15 cC
Cock plug	1.4401
Split ring	1.4401
Gasket ABI 12	Cu
Cup nut ABI 12	1.0715.07 FeNi5p
Packing sleeve	1)
Locking disc	1.4401
Fillister head screw	A4
Tightening nut	1.4401
Type plate	1.4301
Body	1.0460 Zn 8-15 cC

1) Sealing material: KAF, KOR-AF



Material	VII
Screw plug	1.4571
Gasket	Softnickel
Counter nut	1.0715.07 FeNi5p

ABI 12/D



Suggested order specification

Indicator cock as cylinder cock, sealed with elastic packing sleeve which can be retightened. 90°-rotation with stop, to close with clockwise rotation. Body of steel or stainless steel, handle of GTS 35, cock plug of stainless steel. Male with pipe thread to DIN/ISO 228/1 connection for Maihak-Indicator.

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

Attention

Without indicator the cap nut and gasket should seal the cock to the atmosphere; the cock plug should be in open-position in order to avoid deposits on the plug. It prevents the packing sleeve and plug cock from overstress caused by shock pressures. Before removing the cap nut the cock has to be shut. It is of advantage to place an intermediary between cylinder and cock.
Make: KLINGER
Type: ABI 12/A, ABI 12/D – Maihak

Ordering example:
ABI 12/A VII, PN 160

Overall and connection dimensions in mm

Cock type	Bore	Overall dimension					Threaded stem			Counter nut		Indikator connection					Weight
	d	H	H1	L	A	G	d1	t1	d2	d3	t3	d4	t4	d5	t5	d6	ca. kg
ABI 12/A	6	72	31,5	92	54	100	¾″	17,5	32	–	–	W27× 1/10″	14	20	17	17,9	0,60
ABI 12/D	6	72	31,5	92	54	100	¾″	17,5	–	G5/8″A	14	W27× 1/10″	14	20	17	17,9	0,60

Minimum order: 32 pieces.

As a result of technical progress construction and design are subject to modification

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AB-cocks Materials

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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) Stainless steel 1.4401	2.0401 1.4401 1.4016	Stainless steel 1.4401
VII, VIII	Forged steel C 22,8 (1.0460)	Stainless steel 1.4401	Stainless steel 1.4401	
X, Xc	Stainless steel 1.4571			

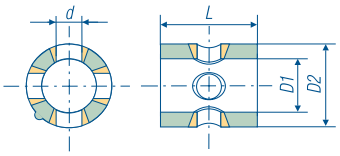
Equivalent material codes

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

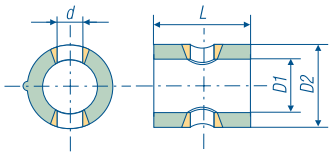
* AISI- BS- and ASTM-codes are the nearest to DIN

Materials and measurements of packing sleeves

Four-hole packing sleeve



Two-hole packing sleeve



Cock size	Nominal width mm d	Nominal width Zoll d	Internal Ø D 1	External Ø 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	23	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	23	4	0,007	MABA 12, MABC 12, MABU 12	PTFE, KFG, KOR-AF
AB 18	8	5/16	18	26	32	2	0,019		KAF, KOR-AF PTFE, KFG

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pT-diagrams

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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

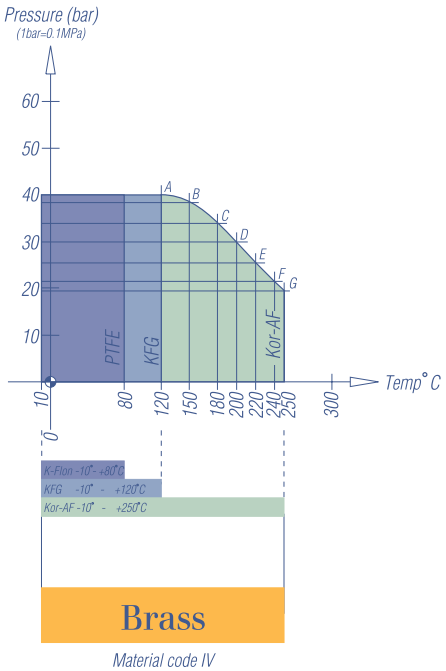
Type: Klinger AB-cock AB12, MAB12, AB18
Material: 1.0460
C22.8
Klinger m.c. VIII
Pressure rate: PN 160

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

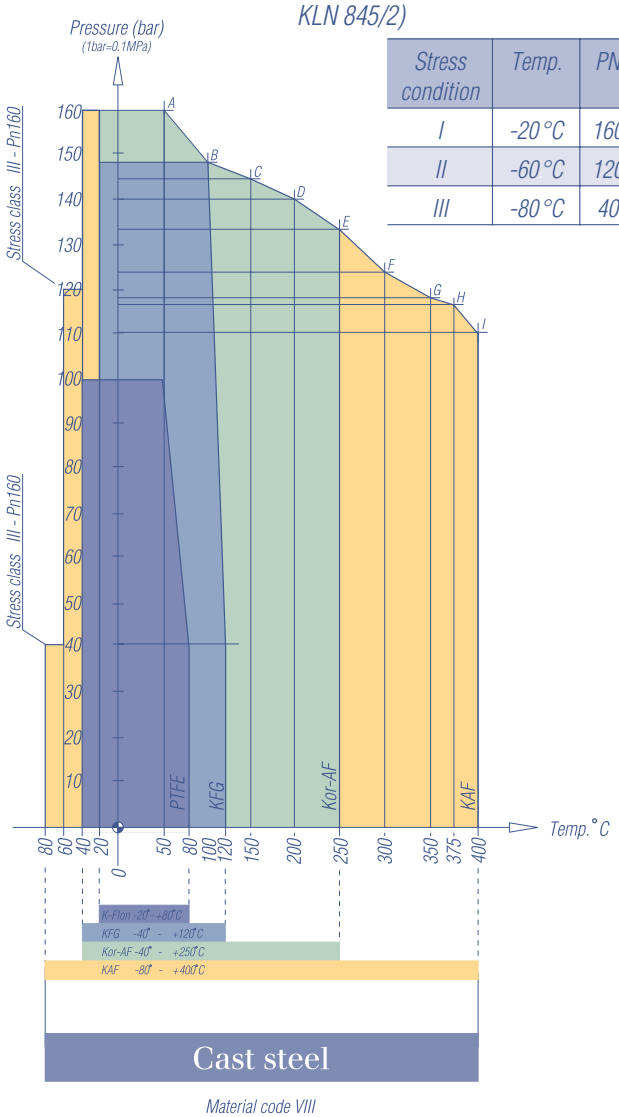
Low temperature limits

(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



Material code IV



Material code VIII

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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 It-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.

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