



Warning: filectime(): stat failed for
/var/www/vhost/www.omal.it/htdocs/https://www.omal.it./FilesProdotti/RICEVUTADEPOSITOF.T.ATEXN.VAP-19.pdf in
/var/www/vhost/www.omal.it/htdocs/prodotto-printable.php on line 65

Warning: filectime(): stat failed for /var/www/vhost/www.omal.it/htdocs/https://www.omal.it./FilesProdotti/80843-Angleseatvalves-IT-EN-DE-ES-0522.pdf in /var/www/vhost/www.omal.it/htdocs/prodotto-printable.php on line 65

Warning: filectime(): stat failed for /var/www/vhost/www.omal.it/htdocs/https://www.omal.it./FilesProdotti/Cert.C539822.pdf in /var/www/vhost/www.omal.it/htdocs/prodotto-printable.php on line 65

Warning: filectime(): stat failed for /var/www/vhost/www.omal.it/htdocs/https://www.omal.it./FilesProdotti/UKCA-PER-H.pdf in /var/www/vhost/www.omal.it/htdocs/prodotto-printable.php on line 65

ARES clamp 3A pneumatic valve



Macro [Pneumatic valves](#)

Category [Angle seat valves](#)

Subcategory [ARES with special ends](#)

features

GENERAL FEATURES:

Body valve material: A351-CF3M (316L S.S.).

Valve ends: see code plan.

Assembling is possible in all positions: upright, flat or angled.

Range available from DN 15 to DN 50 in the Double Acting versions, Spring

Return N.C. from above and below the plug, Spring Return N.O. from below the plug.

The performance and the pressure's diagrams are the same as per Standard versions but limited at PN16

On request: versions for vacuum and oxygen service 2014/34/EU ATEX configuration to request at time of order.

CONTROL MEDIA:

Driving media: compressed air, lubricated or dry, gas or neutral media.

Ambient temperature: -10°C to +60°C

OPERATING MEDIA:

Air, water, alcohol, oil, petroleum products, saline solutions, steam, etc. (as long as compatible with CF3M (316L S.S.) or PTFE).

Pressure from 0 to 16 bar (steam from 180°C, from 0 to 10 bar) depending on the size and model chosen see following pages.

Temperature from -10°C to 180°C.

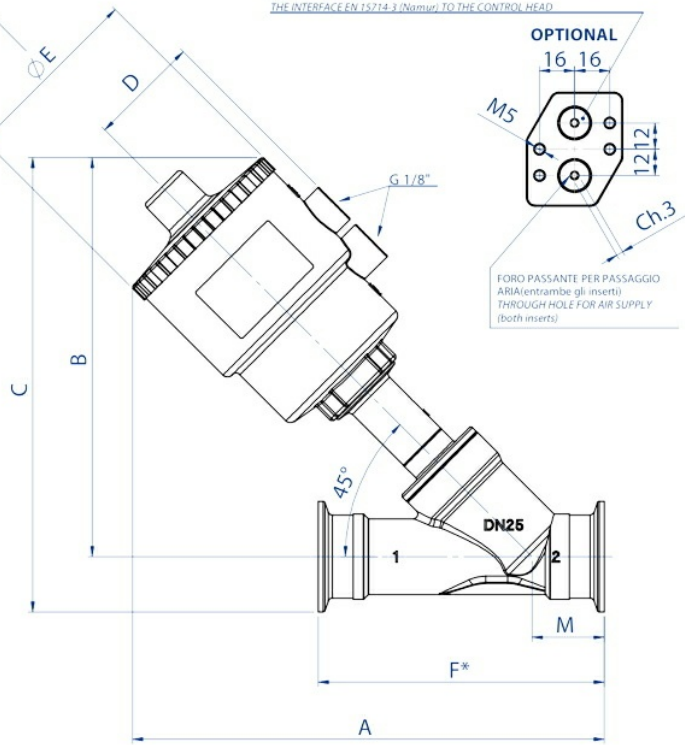
Max. viscosity 600 cst (mm²/s).



dimensions

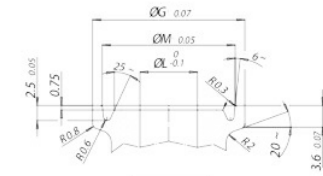
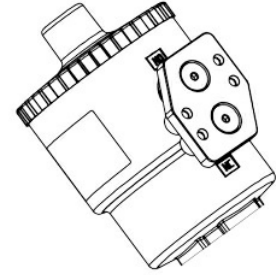
Testa di comando orientabile a 360°
Control head adjustable at 360°

Ruotare in senso orario
Clockwise rotation

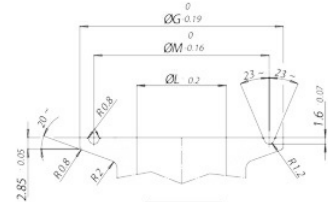


Esempio dell'interfaccia EN 15714-3 (Namur) assemblata alla testa di comando
Disponibile A RICHIESTA nel caso di pilotaggio di elettrovalvola NAMUR
Codice: KBNJ0001

Example of NAMUR plate EN 15714-3 to be assembled on the control head
Available ON REQUEST once NAMUR Solenoid valve should be needed
Code: KBNJ0001



DIMENSIONE
DIMENSION
1,2-3/4"



DIMENSIONE
DIMENSION
da 1" a 2"

A richiesta versioni ISO 2852
ISO 2852 version on request



ISO 2852 version on request

Working pressure up to 16 bar (for details see diagrams).

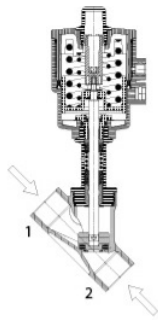
DIMENSIONS												
Size	Control head	Bore (mm)	A	B	C	D	øE	F *	øG	øH	øL	M
1/2"	Ø 50	9,5(*)	179	156	168,6	44	70	88,9	25,2	19	9,5	22
3/4"	Ø 50	15	181,5	156	168,6	44	70	101,6	25,2	19	15,8	22
1"	Ø 50	20	189,3	160	185,3	44	70	114,3	50,5	32	22,2	43,5
1"	Ø 63	20	207,3	178	203,3	50,5	84,4	114,3	50,5	23	22,2	43,5
1"1/2	Ø 63	32	214,6	186	211,3	50,5	84,4	139,7	50,5	38	34,9	43,5
1"1/2	Ø 90	32	254,6	226	251,3	66,2	116,4	139,7	50,5	38	34,9	43,5
1"1/2	Ø 110	32	290,6	261	286,3	77,4	140,6	139,7	50,5	38	34,9	43,5
2"	Ø 63	40	224,7	190	222	50,5	84,4	158,8	64	54	47,6	56,5
2"	Ø 90	40	264,7	230	262	66,2	116,4	158,8	64	54	47,6	56,5
2"	Ø 110	40	300,7	266	298	77,4	140,6	158,8	64	54	47,6	56,5

(*) The valve bore is 15 mm, reduction to 9,5 mm is due to clamp bore
Suggested executions are in bold. Other combinations on request.

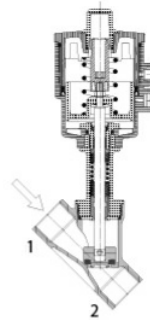
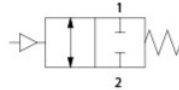


specifications

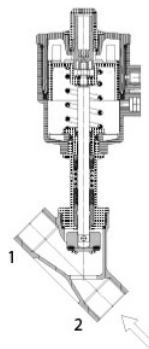
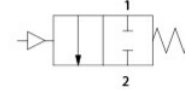
METHODS OF USE



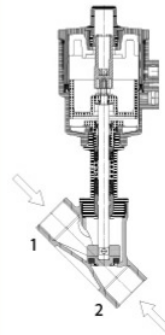
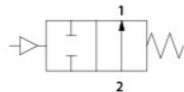
N.C. Normalmente chiusa bidirezionale. Con ingresso sotto l'otturatore si evita il colpo d'ariete.
Ingresso sopra l'otturatore per fluidi comprimibili.
*N.C. Normally Closed bidirectional. With the flow coming from below the plug you avoid water hammering.
Flow from above the plug for condensable media.*



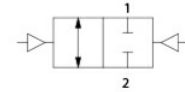
N.C. Normalmente chiusa con ingresso sopra l'otturatore.
Ingresso sopra l'otturatore per fluidi comprimibili.
*N.C. Normally Closed with the flow from above the plug.
Flow from above the plug for condensable media.*



N.A. Normalmente aperta con ingresso sotto l'otturatore
N.O. Normally Open with flow from below the plug

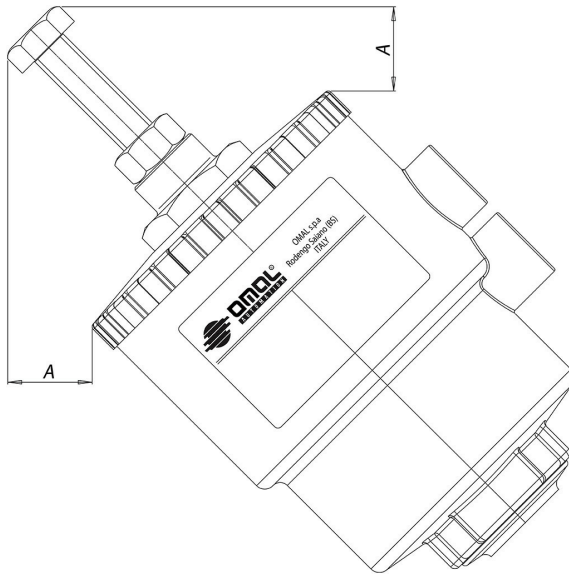


Doppio effetto bidirezionale
Double Acting bidirectional





accessories

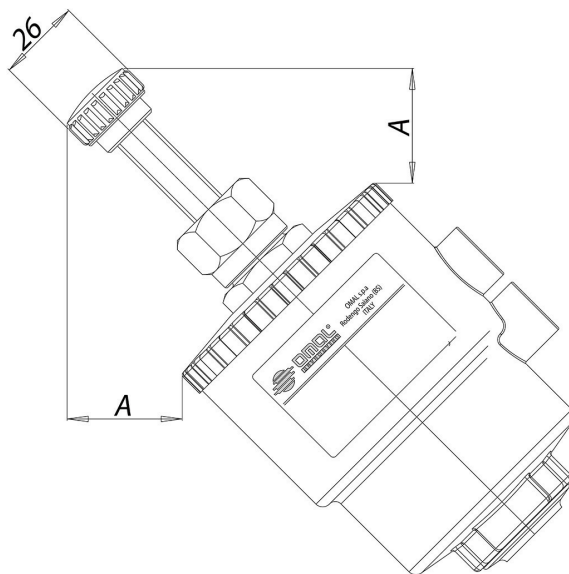


Stroke limiter

It allows to limit the plug run in opening phase, therefore it regulates the flow. Available on all versions. In spring return normally open version it can be used as an emergency control.

Control	A mm	Code
∅ 50	25,5	KLJL0016
∅ 63	21,5	KLJL0018
∅ 90	5,2	KLJL0021
∅ 110	5,9	KLJL0023

Not available with ∅ 40 head.





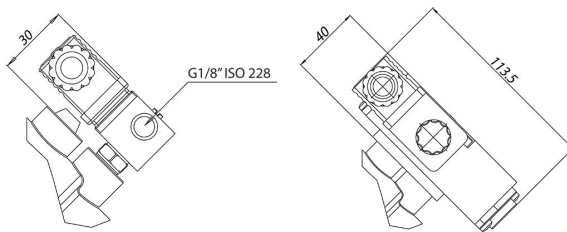
Emergency manual override

It allows to open the valve in emergency cases (lack of pilot fluid, machinery damaged, lack of piloting signal). It is available on all normally closed valves.

Control	A mm	Code
∅ 50	35,8	KLJA0016
∅ 63	35,8	KLJA0018
∅ 90	29,5	KLJA0021
∅ 110	29,5	KLJA0023

Not available with ∅ 40 head

Electro-pilot 3/2 - Solenoid valve 3/2 - 5/2



Control solenoid valve

Electro-pilot 3/2 for direct assembling.

Body and reel positionable at 360°.

Standard manual control.

Solenoid valve (NAMUR) sets for selection between function 5/2 or 3/2, achievable by mounting the corresponding plate (both supplied).

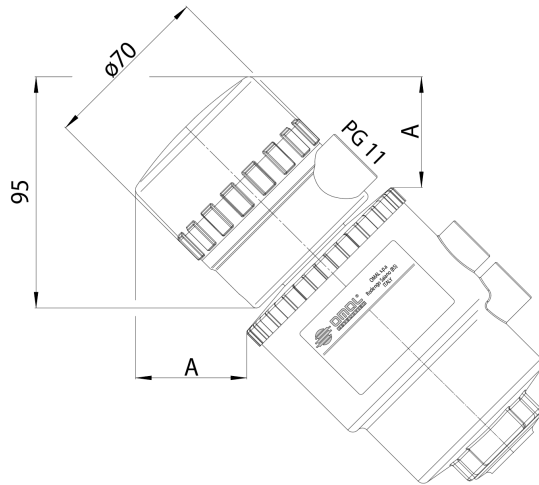
Room temperature: from -10°C to +50°C.

Voltage	24 Vac	115 Vac	230 Vac	24 Vdc
Electro-pilot	EP415024	EP415110	EP415220	EP412024

Voltage	24 Vac	115 Vac	230 Vac	24 Vdc
NAMUR Solenoid valve*	ER8188A2	ER8188A4	ER8188A5	ER8188C2
NAMUR interface	KBNJ0001 Not available with ∅ 40 head			

* To be used with NAMUR interface only

Posizione orientabile sui 360°
Positionable at 360°



Limit switch box

The control box to check the open/close positions with two mechanical limit switches is suitable for assembling on all the range of valves with actuators $\varnothing 50$ - $\varnothing 63$ - $\varnothing 90$ - $\varnothing 110$.

The terminals to connect the solenoid valve and the visual indicators provided with led are optional.

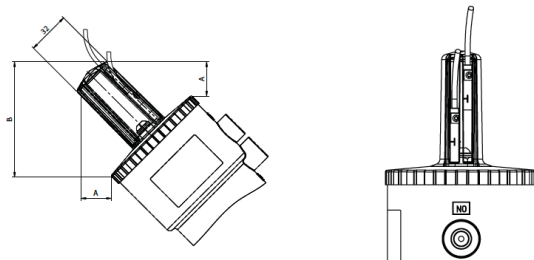
Level of protection: IP 65.

Room temperature: from -20°C to $+70^{\circ}\text{C}$.

Access lead nr. 1 PG11.

Body material: polyamide (cap in trasparent polymethacrylate).

Control	A mm
$\varnothing 50$	52,1
$\varnothing 63$	47,5
$\varnothing 90$	37,7
$\varnothing 110$	29,5



Limit switch cap

The special cap has two grooves for fast attachment and adjustment of magnetic limit switches. REED and HALL effect type limit switches are available with free connection or already wired M12.

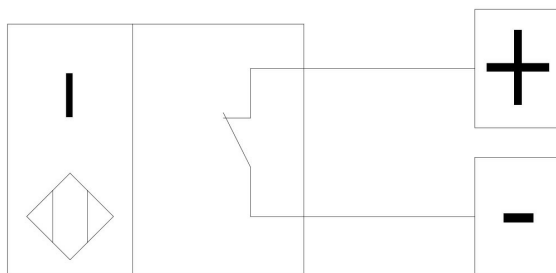
The cap has an IP68 protection rating.

Attention: to enable proper fixing in the limit switch housing, the visual indicator, when the valve is fully open, does not reach the end of the plug.

Kit code	Head size	A mm	B mm
KFMJ16	∅ 50	30	77
KFMJ18	∅ 63	26	87
KFMJ21	∅ 90	15	97
KFMJ23	∅ 110	8	107

Kit does not include limit switches, see below those available.

AVAILABLE LIMIT SWITCH



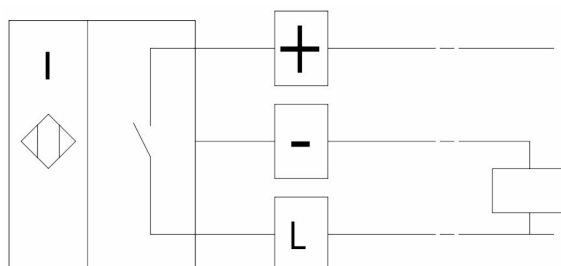
Inductive limit switches NAMUR EExia

Nominal voltage: 8 Vdc

Consumes: working ≤1mA; resting ≥3 mA

Working temperature: from -20°C to +70°C

Configuration	Code
1 Limit switch at the top: open valve	KSIN9A0xx
1 Limit switch at the bottom: close valve.	KSIN9C0xx
2 Limit switch open and close valve	KSIN920xx





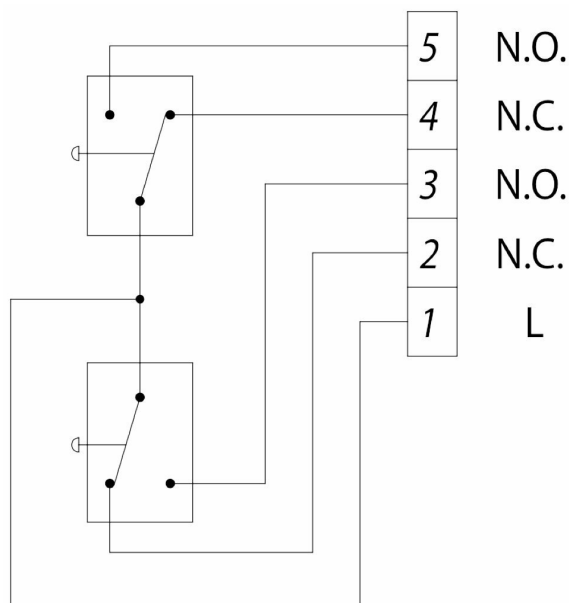
Proximity limit switches

Nominal voltage: 10±30 Vdc

Consumes: 15mA;

Working temperature: from -20°C to +70°C

Configuration	Code
1 Limit switch at the top: open valve	KSI09A0xx
1 Limit switch at the bottom: close valve.	KSI09C0xx
2 Limit switch open and close valve	KSI0920xx



Mechanical limit switches

Limit switch at the top: open valve

Limit switch at the bottom: close valve

Max. capacity: 5A 250 Vac; 1A 250 Vdc

Configuration	Code
2 Limit switch	KSM0C20xx

xx = Ø control heads

16 = Ø50

18 = Ø63

21 = Ø90

23 = Ø110



OMAL[®]
A U T O M A T I O N

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documents

Certificati

ATEX - Pneumatic Valves

PED

UKCA

Istruzioni

ISTRUZIONI USO 8_0843

