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

ARES weld ends 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).

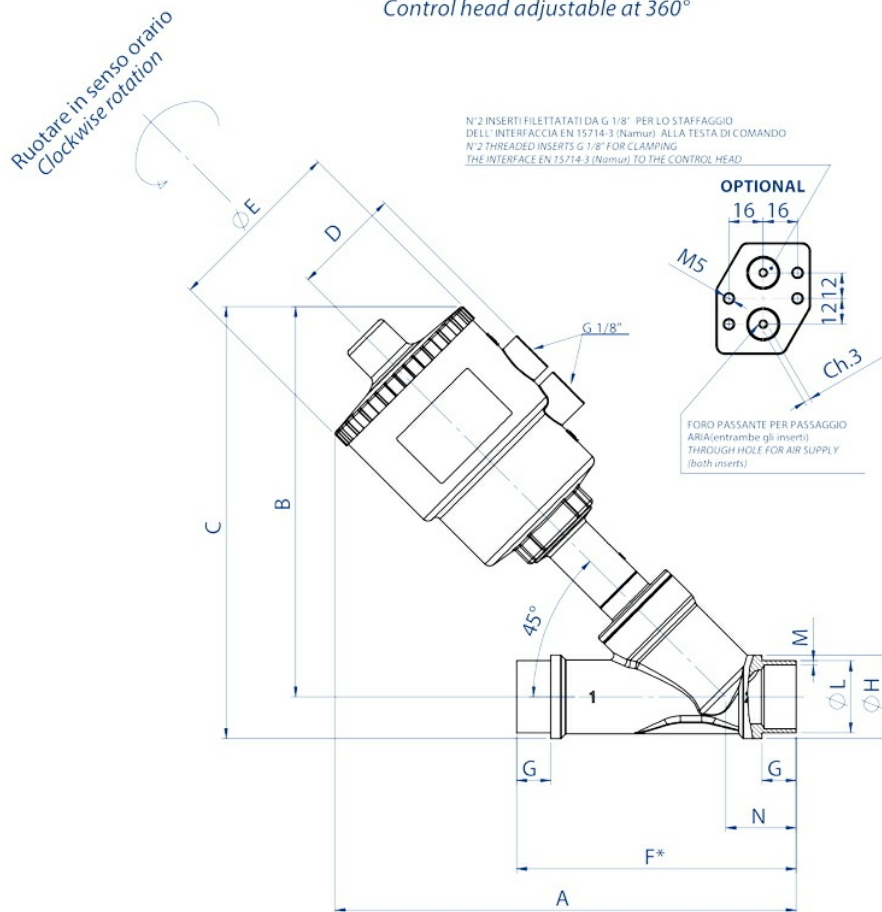
Pressure from 0 to 16 bar (steam from 180°C, from 0 to 10 bar) depending on the size and model chosen see following pages.

Temperature from -10°C to 180°C.

Max. viscosity 600 cst (mm²/s).

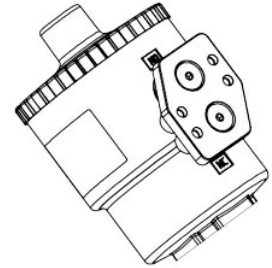
dimensions

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



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



On request versions:

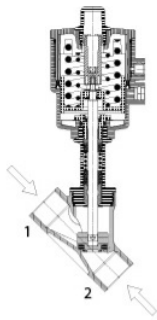
EN 10357 series A (ex DIN 11850 2) - ISO 2037

DIMENSIONS												
DN [mm]	Control head	A	B	C	D	øE	F *	G	øH	øL	M	N
15	Ø 50	180	156	170	44	70	100	12	26,3	21,3	1,6	26
20	Ø 50	190	160	177	44	70	115	14	33	26,9	1,6	31
20	Ø 63	208	178	195	50,5	84,4	115	14	33	26,9	1,6	31
25	Ø 50	165	164	184	44	70	130	14	39	33,7	2	32,96
25	Ø 63	214	182	202	50,5	84,4	130	14	39	33,7	2	32,96
25	Ø 90	254	222	242	66,2	116,4	130	14	39	33,7	2	32,96
32	Ø 50	200	168	193	44	70	145	14	49	42,4	2	34
32	Ø 63	218	186	211	50,5	84,4	145	14	49	42,4	2	34
32	Ø 90	258	226	251	66,2	116,4	145	14	49	42,4	2	34
32	Ø 110	294	261	286	77,4	140,6	145	14	49	42,4	2	34
40	Ø 63	226	190	218	50,5	84,4	160	14	55	48,3	2	37,6
40	Ø 90	266	230	258	66,2	116,4	160	14	55	48,3	2	37,6
40	Ø 110	302	266	294	77,4	140,6	160	14	55	48,3	2	37,6
50	Ø 63	241	200	234	50,5	84,4	175	16	66,5	60,3	2,3	41,37
50	Ø 90	281	240	274	66,2	116,4	175	16	66,5	60,3	2,3	41,37
50	Ø 110	317	276	310	77,4	140,6	175	16	66,5	60,3	2,3	41,37

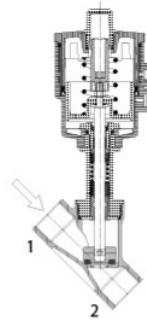
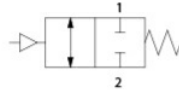
Suggested executions are in bold. Other combinations on request.

specifications

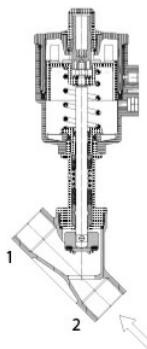
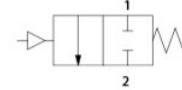
METHODS OF USE



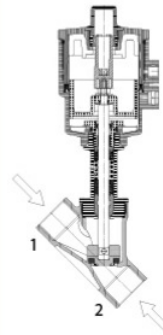
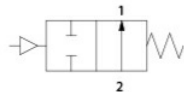
N.C. Normalmente chiusa bidirezionale. Con ingresso sotto l'otturatore si evita il colpo d'ariete.
 Ingresso sopra l'otturatore per fluidi comprimibili.
 N.C. Normally Closed bidirectional. With the flow coming from below the plug you avoid water hammering.
 Flow from above the plug for condensable media.



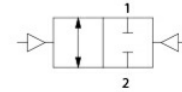
N.C. Normalmente chiusa con ingresso sopra l'otturatore.
 Ingresso sopra l'otturatore per fluidi comprimibili.
 N.C. Normally Closed with the flow from above the plug.
 Flow from above the plug for condensable media.



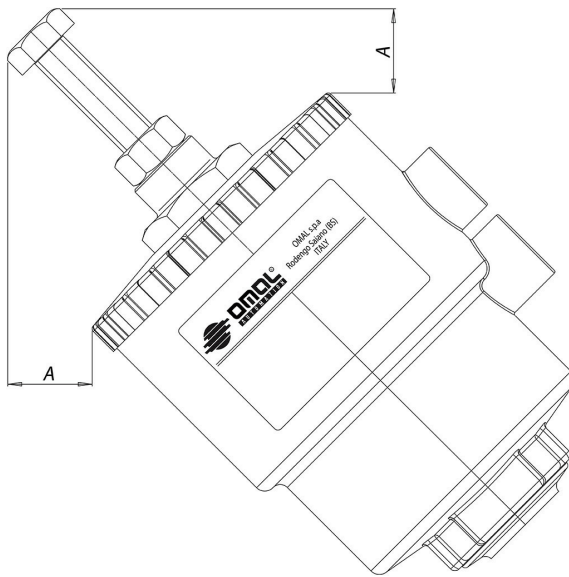
N.A. Normalmente aperta con ingresso sotto l'otturatore
 N.O. Normally Open with flow from below the plug



Doppio effetto bidirezionale
 Double Acting bidirectional



accessories

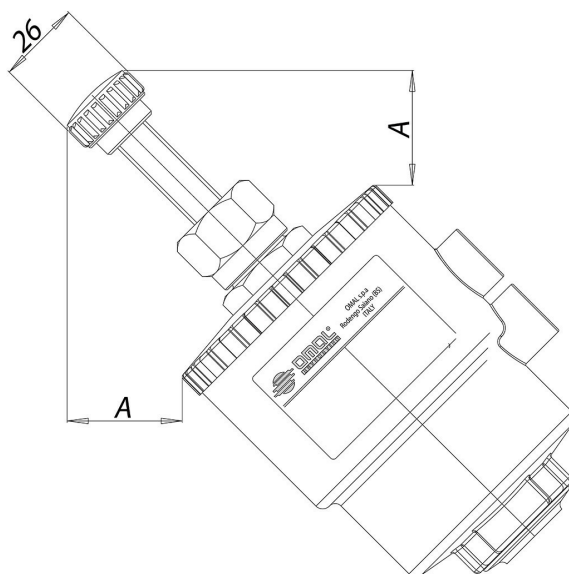


Stroke limiter

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.



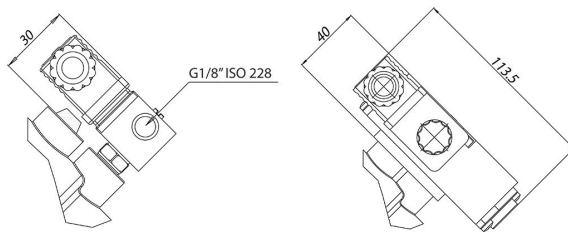
Emergency manual override

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

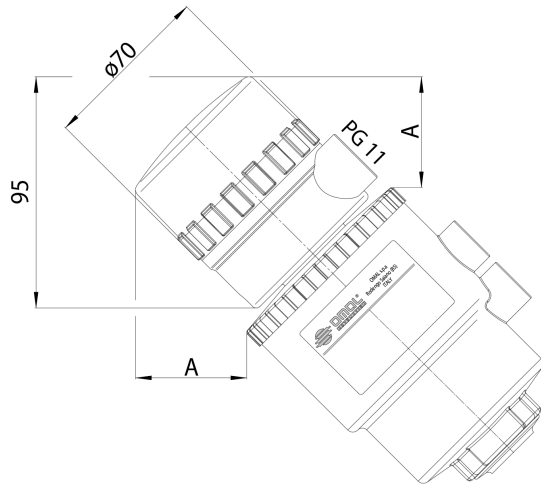
Electro-pilot 3/2 for direct assembling.
 Body and reel positionable at 360°.
 Standard manual control.
 Solenoid valve (NAMUR) sets for selection between function 5/2 or 3/2, achievable by mounting the corresponding plate (both supplied).
 Room temperature: from -10°C to +50°C.

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			

* To be usedy 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.

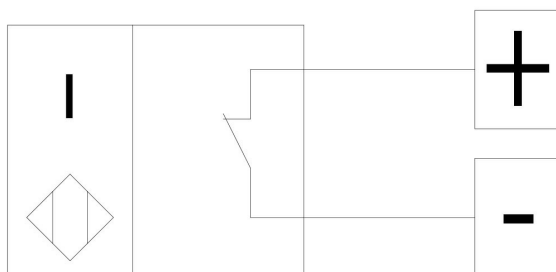
Room temperature: from -20°C to $+70^{\circ}\text{C}$.

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

AVAILABLE LIMIT SWITCH



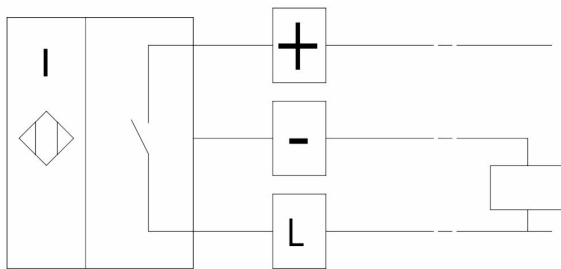
Inductive limit switches NAMUR EExia

Nominal voltage: 8 Vdc

Consumes: working $\leq 1\text{mA}$; resting $\geq 3\text{mA}$

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

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



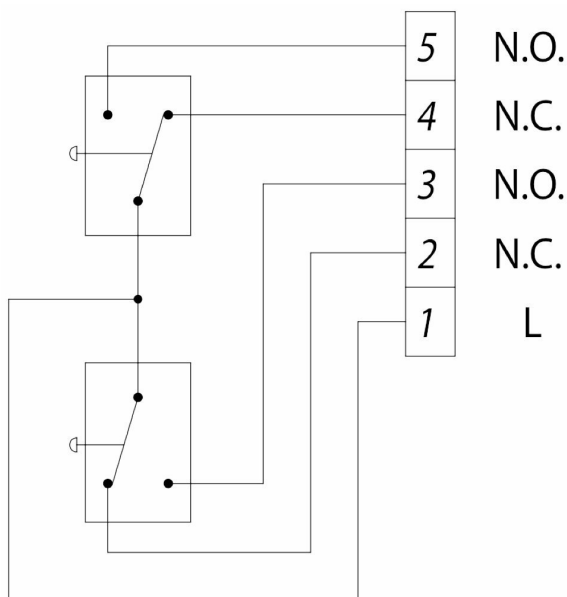
Proximity limit switches

Nominal voltage: $10\pm 30\text{Vdc}$

Consumes: 15mA ;

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

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	KSMOC20xx

xx = Ø control heads

16 = Ø50

18 = Ø63

21 = Ø90

23 = Ø110

documents

Istruzioni

[ISTRUZIONI USO 8_0843](#)

Certificati

[PED](#)