Serie 18

Valvola a ghigliottina bidirezionale
Bidirectional knife gate valve

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18_14/07/2017

Valvola a ghigliottina bidirezionale / *Bidirectional knife gate valve*

Le valvole serie 18 sono valvole di intercettazione a ghigliottina bidirezionali, con corpo in ghisa o acciaio inox, realizzate in accordo alle normative di prodotto rilevanti ed al sistema di gestione della qualità EN ISO 9001. Sono disponibili con diverse tipologie di materiali di tenuta e a richiesta in esecuzione quadrata.
Sono adatte per impianti idrici, pneumatici, acque di scarico e depurazione, per industria chimica e alimentare. Idonee ad intercettare liquidi viscosi o con particelle solide in sospensione. (Fatta salva la scelta corretta dell'articolo in base all'applicazione). Le tenute sono disponibili in vari materiali in funzione del fluido intercettato.

Sono predisposte di serie con vite di comando saliente. A richiesta con vite di comando non saliente e con ampia gamma di servocomandi e di accessori.

Sono idonee: per parzializzazione e regolazione della portata. Autopulenti.

The bidirectional knife gate valves in Series 18 have a cast iron or stainless steel body, which is produced in conformity with the relevant product norms and in conformity with EN ISO 9001 quality requirements.
They are available with various seals and, on request, may be manufactured with a square shape.
Those valves are suitable for water plants, pneumatic plants, waste water and purification plants, and for the chemical and food industries. Furthermore, they are suitable for handling viscous liquids, and liquids with solid parts in suspension.
(Please ensure the choice of the corresponding item).
The seals are available in different materials, for use with the various fluids/service media.

These valves are supplied, as standard, with a rising stem. On request, they can be fitted with a non-rising stem, as well as with a wide range of actuators and accessories available for this series.

***YES:** for choking and regulation of the flow. Self-cleaning.*

Accessori

- V port
- Finecorsa meccanici
- Dispositivo a catena
- Cappuccio quadro
- Protezione lama per attuatore pneumatico
- Raschiatore
- Elettrovalvola per attuatore pneumatico

Accessories

- *V-port*
- *Mechanical limit switches*
- *Chain driver*
- *Square cap*
- *Hand-protection for pneumatic actuator*
- *Scraper*
- *Solenoid valve for pneumatic actuator*

Comandi

- Attuatori pneumatici ed elettrici
- Riduttori manuali
- Comando a catena
- Comando a leva

Actuator and drives

- *Pneumatic and electric actuators*
- *Gear boxes*
- *Chain driver*
- *Operation lever*

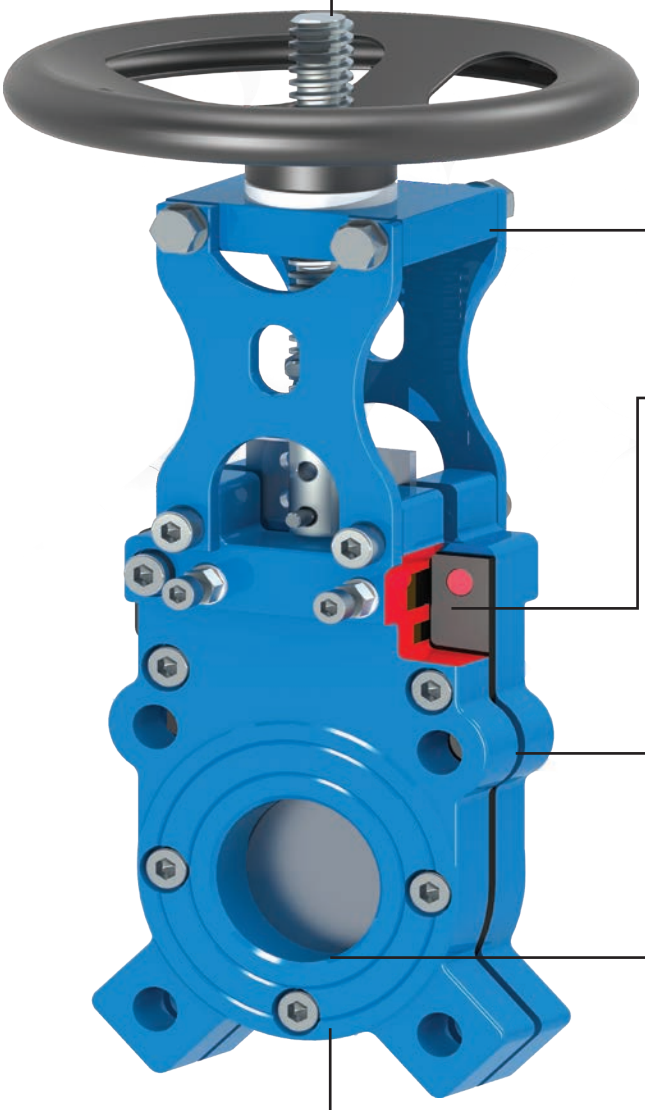
Certificazioni / *Certifications*

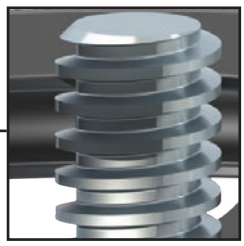
Norme costruttive e di collaudo (equivalenti):

Scartamento: EN 558-1 ISO 5752
Flange: EN 1092 ISO 7005
Marcatura: EN19
Collaudo: testate al 100% EN 12266

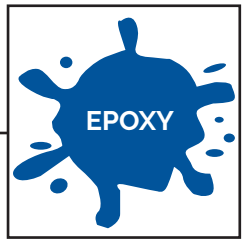
***Design and testing standards** (correspondences):*

Face-to-face: EN 558-1 ISO 5752
Flanges: EN 1092 ISO 7005
Marking: EN19
Testing: 100% testing in accordance with EN 12266





Vite saliente standard (non saliente a richiesta).
Standard rising stem (non-rising stem on request).



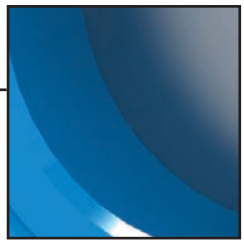
Per le versioni con corpo in ghisa: verniciatura epossidica RAL 5017.
Versions with a cast iron body: epoxy coating RAL 5017.



Possibilità di installare raschiatore per pulizia lama.
Viti di registrazione della tenuta sulla lama.
Possibility of installing a scraper for cleaning the gate.
Adjustment screws for gate packing.



Costruzione in 2 metà per facilitare la manutenzione.
Construction in 2 parts, in order to facilitate maintenance



L'assenza di cavità evita il deposito di materiali. Autopulente.
The absence of a cavity prevents the deposit of material, self-cleaning

Bidirezionale.
Minimo ingombro.
Bidirectional.
Compact design.

Valvola a ghigliottina bidirezionale / *Bidirectional knife gate valve*

Corpo in ghisa / *Cast iron body*



18.001

Corpo: ghisa grigia
Lama: AISI 316
Tenuta: NBR
Temp: da -30 a +80°C

Body: cast iron
Gate: AISI 316
Seal: NBR
Temp: -30 +80°C



18.009

Corpo: ghisa grigia
Lama: AISI 316
Tenuta: EPDM
Temp: da -30 a +90°C

Body: cast iron
Gate: AISI 316
Seal: EPDM
Temp: -30 +90°C

Corpo in AISI 316 / *AISI 316 body*



18.601

Corpo: AISI 316
Lama: AISI 316
Tenuta: NBR
Temp: da -30 a +80°C

Body: AISI 316
Gate: AISI 316
Seal: NBR
Temp: -30 +80°C



18.602

Corpo: AISI 316
Lama: AISI 316
Tenuta: FKM
Temp: da -40 a +180°C

Body: AISI 316
Gate: AISI 316
Seal: FKM
Temp: -40 +180°C



18.603

Corpo: AISI 316
Lama: AISI 316
Tenuta: PTFE
Temp: da -10 a +200°C

Body: AISI 316
Gate: AISI 316
Seal: PTFE
Temp: -10 +200°C

Corpo in AISI 316 / *AISI 316 body*



18.609

Corpo: AISI 316
Lama: AISI 316
Tenuta: EPDM
Temp: da -30 a +90°C

Body: AISI 316
Gate: AISI 316
Seal: EPDM
Temp: -30 +90°C



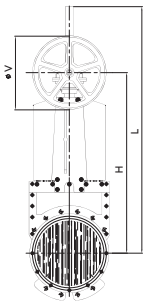
23

Disponibile su richiesta la versione a lama passante

On request available with through blade

18 + RM

Riduttore manuale
Gear box

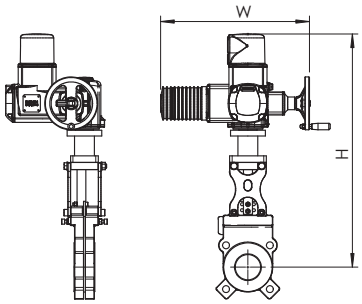


DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
18 + RM														
L	-	-	-	-	-	-	-	-	1234	1370	1530	1667	1829	2116
H	-	-	-	-	-	-	-	-	895	980	1090	1164	1276	1463
V	-	-	-	-	-	-	-	-	400	400	400	500	500	500
Peso / Weight Kg														



18 + AUMA

Attuatori elettrici
Electric actuators

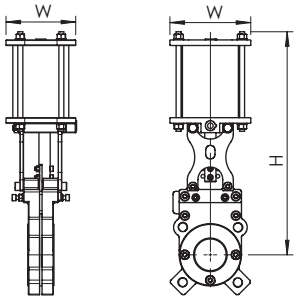


DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
18 + AUMA														
W	514	514	514	514	514	514	514	537	537	537	537	728	728	728
H	-	-	-	-	-	-	-	1068	1246	1382	1532	1662	1839	2116
Peso / Weight Kg														



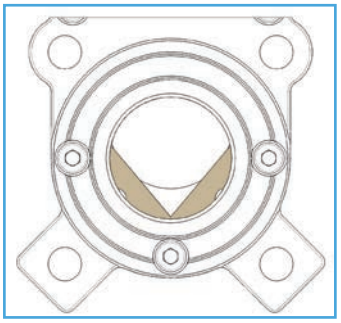
18 + AP

Attuatori pneumatici
Pneumatic actuators

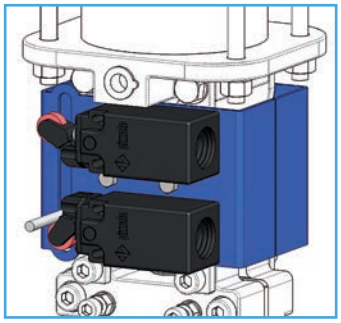


DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
18 + AP DE - *DA*														
H	374	413	461	518	593	709	871	1020	1194	1351	1511	1664	1838	2125
W	80	80	100	100	125	160	190	190	190	250	250	300	300	300
Peso / Weight Kg														

Comandi e accessori / *Actuators and accessories*



V port



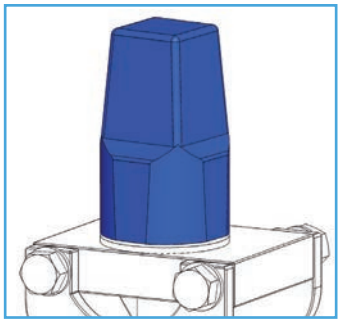
18.LS

Finecorsa meccanici
Mechanical limit switch



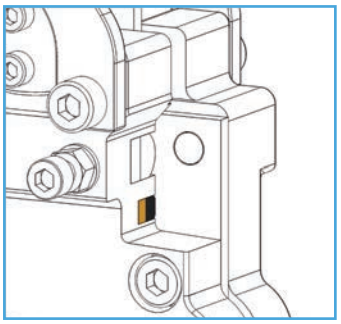
KCAT18

Dispositivo a catena (4 m)
Chain driver kit (4 m)



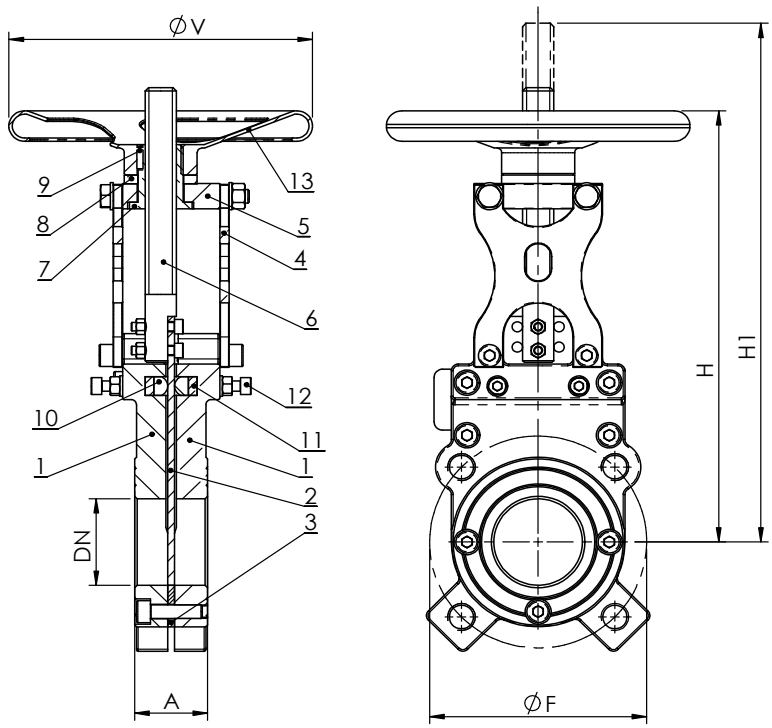
18.CAP

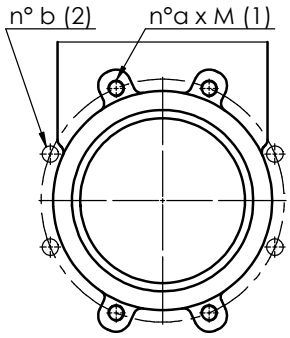
Cappuccio quadro
Square cap



18RX

Raschiatore
Scraper





Disposizione bulloni
Bolting arrangement

Materiali / *Materials*

	Componente - Component	Materiale - Material	
		18.0	**18.6**
1	Corpo - *Body*	Ghisa grigia - *Cast iron* EN GJL 250 EN 1561	Acciaio inox - *Stainless steel* ASTM A351 CF8M
2	Lama - *Gate*	Acciaio inox - *Stainless steel* AISI 316	Acciaio inox - *Stainless steel* AISI 316
3	Sede - *Seat*	NBR / EPDM / FKM (Viton®) / PTFE	NBR / EPDM / FKM (Viton®) / PTFE
4	Colonna - *Plates*	Acciaio al carbonio, vern. eposidico - *Ductile iron, epoxy coated*	Acciaio al carbonio, vern. eposidico - *Ductile iron, epoxy coated*
5	Supporto - *Bearing*	Acciaio al carbonio, vern. epossidico - *Ductile iron, epoxy coated*	Acciaio al carbonio, vern. eposidico - *Ductile iron, epoxy coated*
6	Stelo - *Stem*	Acciaio inox - *Stainless steel* AISI 316	Acciaio inox - *Stainless steel* AISI 316
7	Madrevite - *Nut*	Bronzo - *Bronze*	Bronzo - *Bronze*
8	Rondella - *Sliding washer*	PTFE	PTFE
9	Prigioniero - *Stud bolt*	Acciaio inox - *Stainless steel* AISI 316	Acciaio inox - *Stainless steel* AISI 316
10	Guarnizione - *Packing*	NBR	NBR
11	Supporto guarnizione - *Packing support*	Acciaio inox - *Stainless steel* AISI 316	Acciaio inox - *Stainless steel* AISI 316
12	Vite registro guarnizione - *Packing adjustment screw*	Acciaio inox - *Stainless steel* AISI 316	Acciaio inox - *Stainless steel* AISI 316
13	Volantino - *Hand wheel*	Acciaio al carbonio, vern. epossidico - *Ductile iron, epoxy coated*	Acciaio al carbonio, vern. epossidico - *Ductile iron, epoxy coated*
-	Bulloneria - *Bolts*	Acciaio inox - *Stainless steel* A4	Acciaio inox - *Stainless steel* A4

Dimensioni (mm) / *Dimensions (mm)*

DN		**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**600**
A	EN 558/1-20	43	46	46	52	56	56	60	68	78	78	90	90	95	105
H		267	293	334	371	411	500	602	703	835	921	1031	1161	1271	1458
H1		335	376	419	476	541	651	903	954	1137	1273	1433	1604	1779	2066
V		175	175	225	225	225	300	300	300	400	400	400	500	500	500
Flange *Flanges*	EN 1092/2	PN 10	PN 10	PN 10	PN 10	PN 10	PN 10	PN 10	PN 10	PN 10	PN 10	PN 10	PN 10	PN 10	PN 10
F		125	145	160	180	210	240	295	350	400	460	515	565	620	725
n° a x M (1)		4 x M16	4 x M16	4 x M16	4 x M16	4 x M16	4 x M20	4 x M20	6 x M20	6 x M20	10 x M20	10 x M24	12 x M24	12 x M24	14 x M27
n° b (2)		-	-	4	4	4	4	4	6	6	6	6	8	8	6

1: fori filettati / *tapped holes* - 2: bulloni passanti / *through holes*

Peso (kg) / *Weight (kg)*

kg		7	8	11	13	15	24	35	55	67	120	135	205	225	300

Valvola a ghigliottina bidirezionale / *Bidirectional knife gate valve*

Pressione massima / *Maximum pressure*

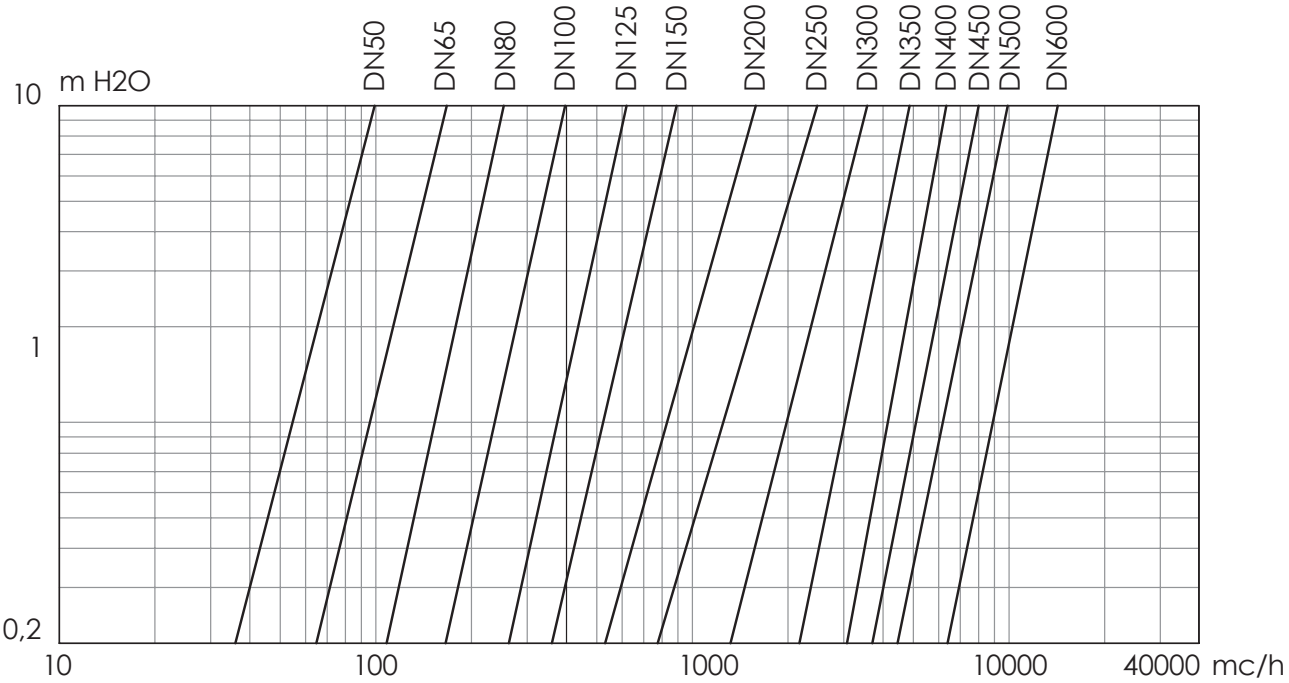
DN	Pressione - Pressure
DN 50-200	10 bar
DN 250-300	7 bar
DN 350-400	6 bar
DN 450-600	4 bar

Temperature / *Temperature*

Temperatura	min °C	max°C
EPDM	-30	90
NBR	-30	80
FKM (Viton®)	-40	180
PTFE	-10	200

Perdite di carico **Valvola completamente aperta. Fluido: acqua** (1m H2O = 0,098bar)

Head loss ***Valve completely open. Fluid: water*** *(1m H2O = 0,098bar)*



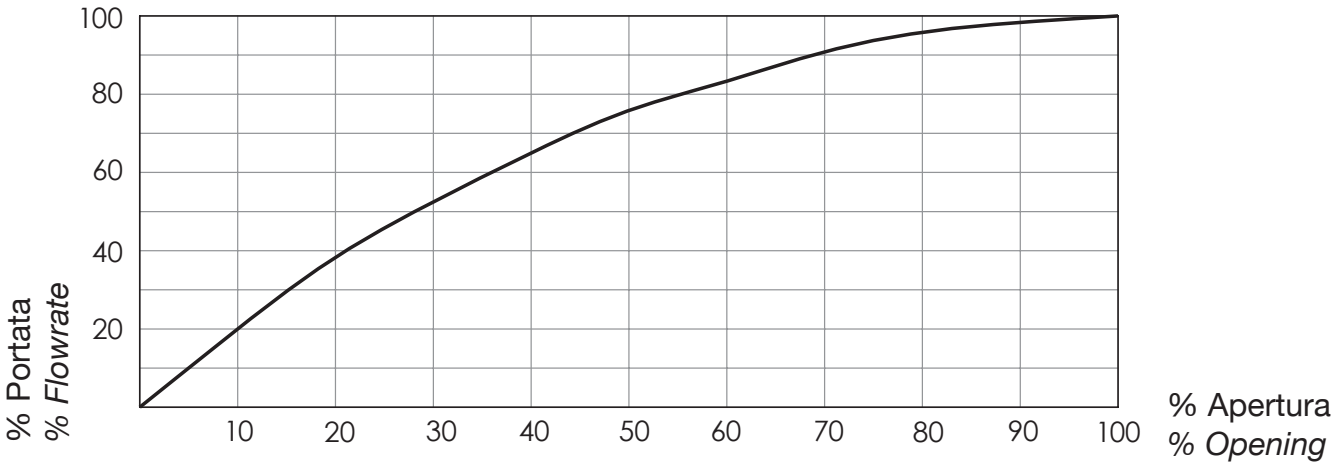


Tabella Kv - DN / *Kv - DN chart*

DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
Kv	mc/h	99	167,2	253,3	395,8	618,5	890,6	1583,4	2474	3562,6	4849	6335	8015	9896	14250

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