

VALVOLE INDUSTRIALI • *industrial valves*

PAG 341 VALVOLE A SFERA MINI IN OTTONE • *brass mini ball valves*

PAG 343 VALVOLE A SFERA MICRO IN OTTONE • *brass micro ball valves*

PAG 345 VALVOLE A SFERA UNIVERSALI IN OTTONE • *brass universal ball valves*

PAG 359 VALVOLE A SFERA MINI INOX AISI 316
mini ball valves INOX AISI 316

AISI 316

PAG 361 VALVOLE A SFERA UNIVERSALI INOX AISI 316
universal ball valves INOX AISI 316

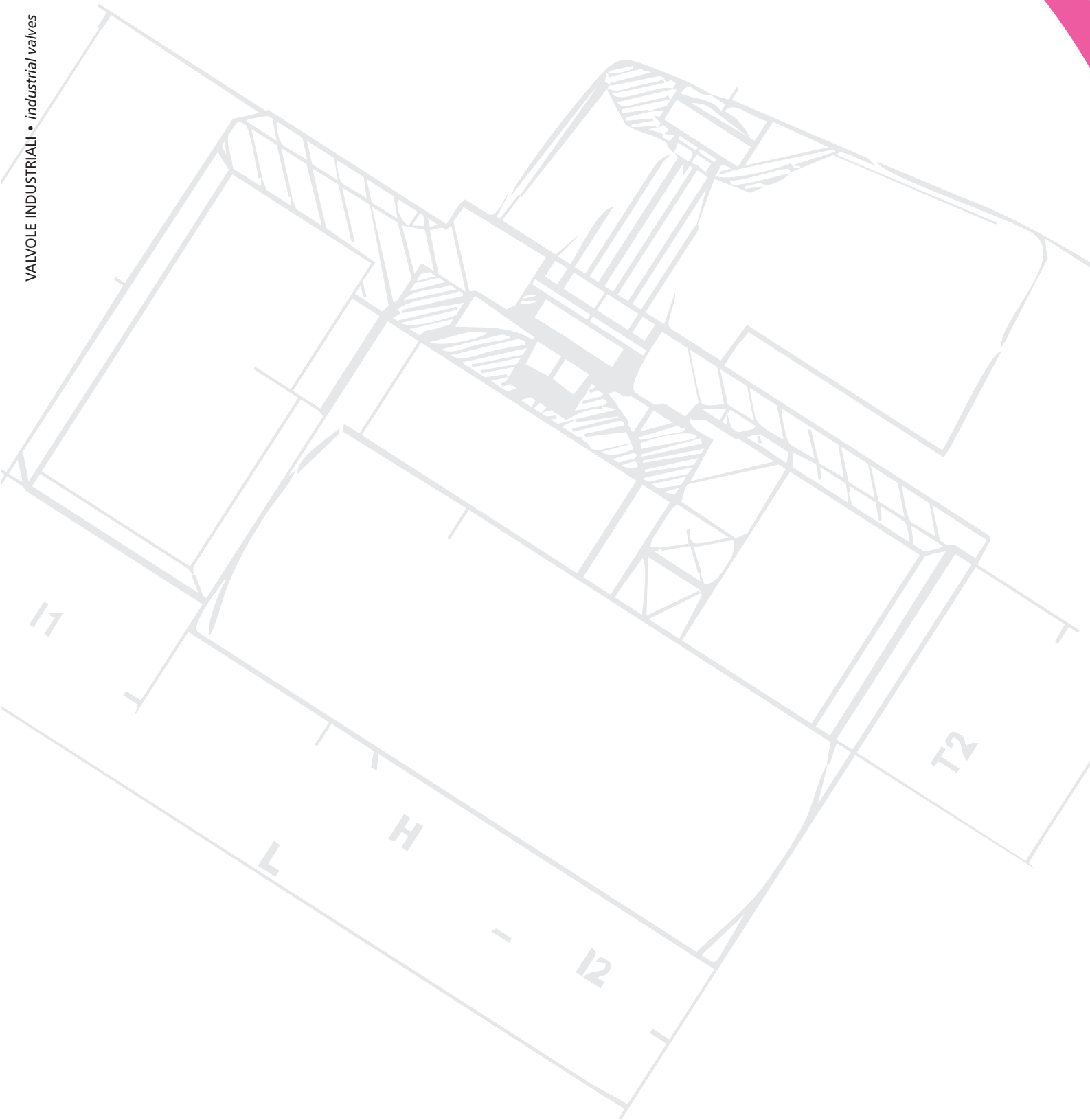
AISI 316

PAG 367 RACCOGLITORE D'IMPURITÀ INOX AISI 316
inline filter INOX AISI 316

AISI 316

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needle valve INOX AISI 316

AISI 316



VALVOLE INDUSTRIALI • *industrial valves*

CARATTERISTICHE GENERALI

Le valvole industriali con otturatore a sfera sono organi di intercettazione dei fluidi che per la loro facilità e rapidità di manovra si sono imposte nell'uso comune sostituendosi alle valvole a saracinesca con volantino.

Occorre tuttavia conoscere i loro limiti per un migliore utilizzo.

- Non sono organi di regolazione di flusso per periodi prolungati, non devono quindi essere usati per questo scopo. Lo scorrimento del fluido "non pulito" sulla parte di guarnizione scoperta ne provoca l'abrasione e quindi la futura perdita.
 - Non devono essere usate con acque fangose, fluidi densi, polveri, sostanze viscosi, perché i depositi di materie solide o che si solidificano vanno a bloccare lo scorrimento della sfera.
- Superato lo sforzo massimo di manovra consentito dalle norme di progettazione, può rompersi l'asta di comando. Per questi fluidi valgono quindi ancora le valvole di arresto o di regolazione alza-maschio.

COLPO D'ARIE

E' il forte aumento di pressione causato dall'interruzione brusca di flusso dell'acqua. Oltre al fastidio del rumore si possono avere altri inconvenienti quali: rotture di giunti, saldature o tubi flessibili. Il colpo d'ariete è più forte con le tubazioni più piccole e per quelle di grande lunghezza. Per ovviare a tale inconveniente è consigliabile l'uso di maniglie a manovra lenta (riduttori di manovra).

Prodotti conformi alla direttiva 2002/95/EC 

Prodotti conformi alla direttiva 1907/2006 

GENERAL FEATURES

The industrial valves with spherical shutter are interception devices for fluids and thanks to their easy and quick handing they have come into common use taking the place of valves and sluice valves operated by wheel.

Nevertheless, for a better use, it is necessary to know their limits.

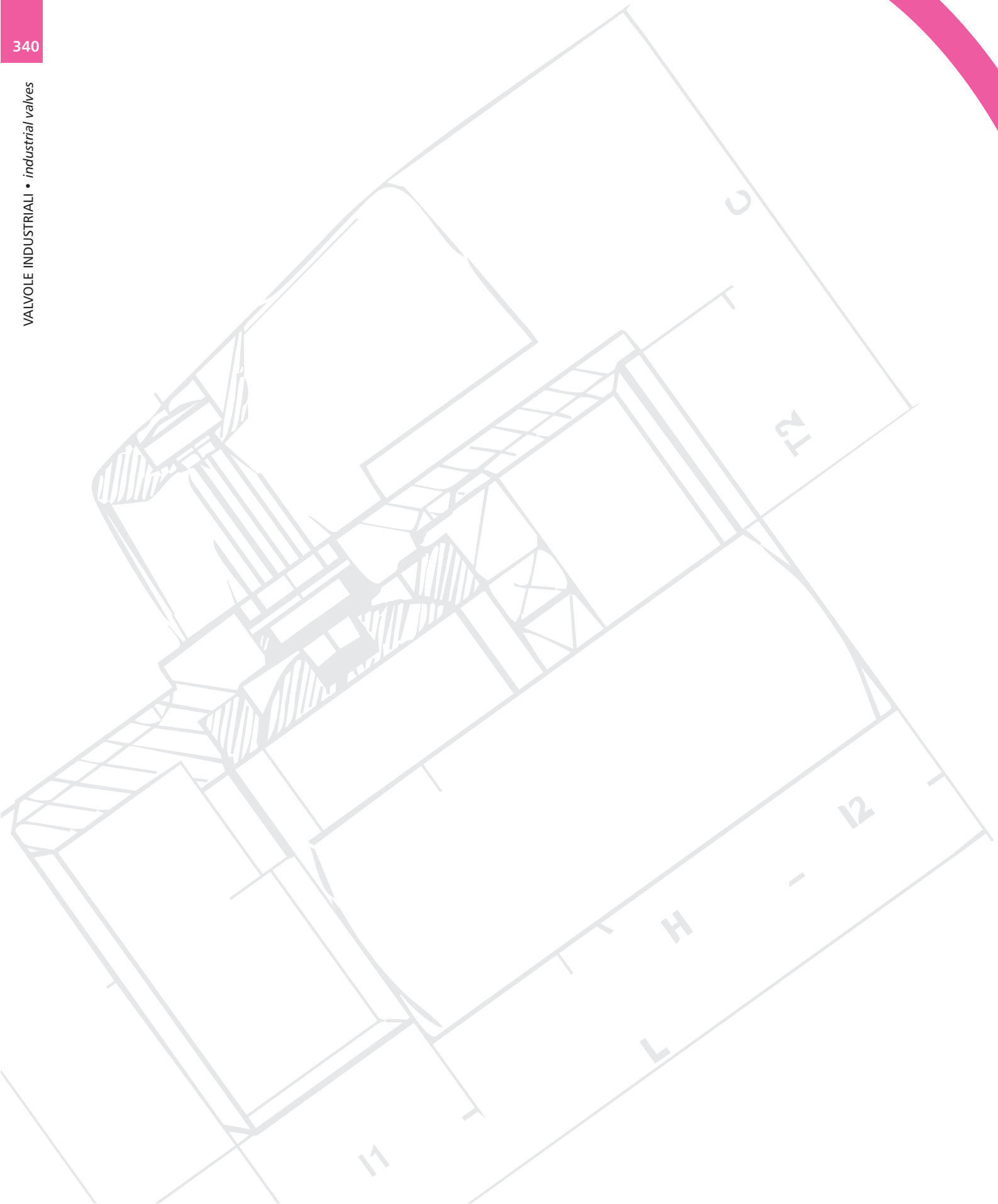
- *They are not flow control devices for a long period of time, they must not be used for this purpose. The flow of the "non clean" fluid through the uncovered packing causes its consumption and, therefore, the future leakage.*
 - *They must not be used with muddy waters, dense fluids, powder viscous substances, because deposit of solid or solidifying materials may block the sliding. The control rod can break by exceeding the maximum operation stress allowed by the planning rules.*
- For above fluids, stop valves or control valves male lift are still recommended*

WATER HAMMER

Is the strong pressure increase caused by sudden interruption of water flow. Besides the noise annoyance, other inconveniences may arise such as cracking of joints, welds or flexible pipes. Water hammer is stronger in case of smaller and longer pipes. In order to avoid such inconvenience it is advisable to use slow operating handles (geared operating reducers)

products in conformity with the directive 2002/95/EC 

products in compliance with the directive 1907/2006 



VALVOLE A SFERA MINI IN OTTONE *brass mini ball valves*

VALVOLE A SFERA MINI • *mini ball valves*

Le valvole a sfera mini sono ricavate da barra esagonale profilata • *Mini ball valves are made from profiled hexagonal bars*

VALVOLE • *Valves* 9110, 9120 & 9130



DATI TECNICI

Fluidi compatibili	Aria compressa, acqua e fluidi compatibili con i materiali costruttivi
Materiali costruttivi	Ottone CW 614N UNI EN 12164 Asta: Ottone CW 614N UNI EN 12164 Ghiera: Ottone CW 614N UNI EN 12164 Sfera: Ottone CW 614N UNI EN 12164 nichelato Guarnizioni della sfera: PTFE (Teflon) O'Ring di Tenuta Asta: NBR 70. A richiesta VITON o EPDM Leva: Nylon 66 caricato vetro
Finitura esterna	Codici 9110 e 9120: cromata Codici 9130: nichelata
Filettature	Gas Cilindrica BSPP ISO 228 da G1/8" a G3/4"
Manovra	Rotazione di 90° della leva
Pressione d'esercizio	0-10 Bar a 90°C
Temperatura d'esercizio	-10°C +90°C
Direzione flusso	Bidirezionale

Prodotti conformi alla direttiva 2002/95/EC 

Prodotti conformi alla direttiva 1907/2006 

Technical specifications

<i>fluid types</i>	<i>compressed air, water and fluids compatible with construction materials</i>
<i>construction materials</i>	<i>body: brass CW 614N UNI EN 12164 stem: brass CW 614N UNI EN 12164 retainer: brass CW 614N UNI EN 12164 ball: brass CW 614N UNI EN 12164 nickel plated ball gaskets: PTFE (Teflon) stem sealing ring: O'ring in NBR 70. On demand available VITON or EPDM lever: glass-charged nylon 66</i>
<i>surface finishing</i>	<i>codes 9110 and 9120: chrome plated code 9130: nickel plated</i>
<i>threads</i>	<i>parallel gas BSPP ISO 228 from G1/8" to G3/4"</i>
<i>operation</i>	<i>90° lever rotation</i>
<i>working pressure</i>	<i>0-10 bar at 90°C</i>
<i>working temperature</i>	<i>-10°C +90°C</i>
<i>direction of the flow</i>	<i>bidirectional</i>

products in compliance with the directive 2002/95/EC 

products in compliance with the directive 1907/2006 

VALVOLE • *Valves* 9110-Y, 9120-Y & 9130-Y

DATI TECNICI

Fluidi compatibili	Aria compressa, acqua e fluidi compatibili con i materiali costruttivi
Materiali costruttivi	Corpo: Ottone nichelato Asta: Ottone nichelato Ghiera: Ottone nichelato Sfera: Ottone cromato Guarnizioni della sfera: PTFE (Teflon) O'ring: NBR Leva: Alluminio verniciato
Finitura esterna	Nichelata
Filettature	Gas Cilindrica BSPP ISO 228 da G1/8" a G1/2"
Manovra	Rotazione di 90° della leva
Pressione d'esercizio	0-16 Bar a 20°C
Temperatura d'esercizio	0°C +60°C
Direzione flusso	Bidirezionale

Prodotti conformi alla direttiva 2002/95/EC 

Prodotti conformi alla direttiva 1907/2006 

Technical specifications

<i>fluid types</i>	<i>compressed air, water and fluids compatible with construction materials</i>
<i>construction materials</i>	<i>body: brass nickel plated stem: brass nickel plated retainer: brass nickel plated ball: brass chrome plated ball gaskets: PTFE (Teflon) stem sealing ring: O'Ring in NBR lever: varnished aluminium</i>
<i>surface finishing</i>	<i>nickel plated</i>
<i>threads</i>	<i>parallel gas BSPP ISO 228 from G1/8" to G1/2"</i>
<i>operation</i>	<i>90° lever rotation</i>
<i>working pressure</i>	<i>0-16 bar at 20°C</i>
<i>working temperature</i>	<i>0°C +60°C</i>
<i>direction of the flow</i>	<i>bidirectional</i>

products in compliance with the directive 2002/95/EC 

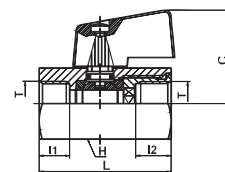
products in compliance with the directive 1907/2006 

I dati tecnici e le quote non sono vincolanti • *drawings and technical data are not binding*

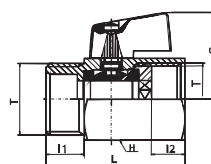
VALVOLE A SFERA MINI IN OTTONE • *brass mini ball valves*

valvola a sfera mini F/F • *mini ball valve F/F*
9110

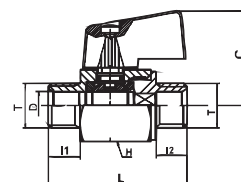

CODE	T	I1	I2	L	C	H(Hex)	Peso weight(g)	
9110TR18	G1/8"	9,0	10,5	39	27,5	21,0	87,8	10
9110TR14	G1/4"	9,0	10,5	39	27,5	21,0	93,8	10
9110TR38	G3/8"	12,0	9,9	42	27,5	21,0	90,4	10
9110TR12	G1/2"	12,3	10,6	47	29,5	24,0	110,2	10
9110TR34	G3/4"	14,5	12,2	54	31,8	30,0	194,5	10


valvola a sfera mini M/F • *mini ball valve M/F*
9120

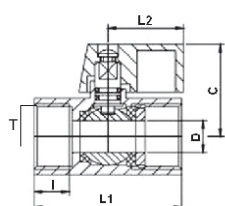

CODE	T	I1	I2	L	C	H(Hex)	Peso weight(g)	
9120TR18	G1/8"	8,0	10,5	39	27,5	21,0	80,0	10
9120TR14	G1/4"	9,0	10,5	39	27,5	21,0	78,0	10
9120TR38	G3/8"	10,0	9,9	40	27,6	21,0	74,4	10
9120TR12	G1/2"	12,2	11,7	45	29,5	24,0	108,0	10
9120TR34	G3/4"	14,0	12,2	51	31,8	30,0	176,7	10


valvola a sfera mini M/M • *mini ball valve M/M*
9130

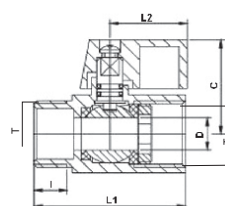

CODE	T	I1	I2	L	Ø D	Ø C	H(Hex)	Peso weight(g)	
9130TR14	G1/4"	9,3	9,0	40,4	8,2	27,6	21,0	68,2	10
9130TR38	G3/8"	10,0	10,0	42,4	12,2	27,6	21,0	70,8	10
9130TR12	G1/2"	11,0	11,0	49,7	15,2	29,3	24,0	116,9	10


valvola a sfera mini F/F • *mini ball valve F/F*
9110-Y

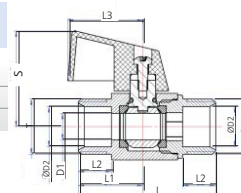

CODE	T	D	L1	L2	I	C	H(Hex)	Peso weight(g)	
9110TR18-Y	G1/8"	7	40,0	22,8	8,5	27,0	20,0	92,0	10
9110TR14-Y	G1/4"	8	40,0		8,5	27,0	20,0	85,0	10
9110TR38-Y	G3/8"	8	40,0		8,5	27,0	20,0	75,0	10
9110TR12-Y	G1/2"	10	46,5		11,5	28,5	24,0	116,0	10


valvola a sfera mini M/F • *mini ball valve M/F*
9120-Y


CODE	T	D	L1	L2	I	C	H(Hex)	Peso weight(g)	
9120TR18-Y	G1/8"	6	40,0	22,8	8,5	27,0	20,0	80,0	10
9120TR14-Y	G1/4"	8	40,0		8,5	27,0	20,0	75,0	10
9120TR38-Y	G3/8"	8	40,0		8,5	27,0	20,0	70,0	10
9120TR12-Y	G1/2"	10	46,5		10,0	28,5	24,0	109,0	10


valvola a sfera mini M/M • *mini ball valve M/M*
9130-Y


CODE	T	D1	D2	L	L1	L2	L3	S	H(Hex)	Peso weight(g)	
9130TR14-Y	G1/4"	8	8,2	40,4	18,0	10,0	22,8	27,0	20	62,0	10
9130TR38-Y	G3/8"	8	12,2	42,4	19,0			27,0	20	64,0	10
9130TR12-Y	G1/2"	10	15,2	49,7	21,1			29,0	24	108,0	10


leva colorata per valvole 9110-Y, 9120-Y e 9130-Y • *coloured lever for valves 9110-Y, 9120-Y & 9130-Y*
9100-Y


CODE	Colori colours	
9100TRLBL-Y	Blue	10
9100TRLGL-Y	Yellow	10
9100TRLRO-Y	Red	10

VALVOLE A SFERA MICRO IN OTTONE

brass micro ball valves

MICROVALVOLE A SFERA - micro ball valves

Valvole a sfera micro con comando manual ON/OFF con leva. Si chiude e si apre girando la leva da 1/4 di giro fino a fine corsa
Micro ball valves with manual command ON/OFF with lever. Open and close by turning the lever of 1/4 turn, till the end of the

DATI TECNICI

Fluidi compatibili	Aria compressa, aria compressa lubrificata, gas e fluidi compatibili con i materiali costruttivi
Materiali costruttivi	Corpo: Ottone CW 617N Ghiera: Ottone CW 614N Asta: Ottone CW 614N Sfera: Ottone CW 614N nichelato Guarnizione della sfera: PTFE (Teflon) Vite: Acciaio O'Ring di tenuta asta: NBR 70. A richiesta VITON Leva: Nylon 6.6 Tappo: Nylon 6.6
Finitura esterna	Nichelatura
Direzione flusso	Bidirezionale
Filettature	Gas Conica R ISO 7 Gas Cilindrica UNI ISO 228/1
Pressione d'esercizio max	10 Bar
Temperatura d'esercizio	-5°C +70°C

Prodotti conformi alla direttiva 2002/95/EC 

Prodotti conformi alla direttiva 1907/2006 

Technical specifications

fluid types	compressed air, lubricated compressed air, gas and fluid compatible with construction material
construction materials	body: brass CW 617N retainer: brass CW 614N stem: brass CW 614N ball: brass CW 614N nickel plated ball gasket: PTFE (TEFLON) screw: steel stem sealing o'ring: NBR 70. on demand VITON lever: nylon 6.6 button: nylon 6.6
surface finishing	nickel plated
direction of the flow	bidirectional
threads	taper gas R ISO 7 parallel gas UNI ISO 228/1
max working pressure	10 bar
working temperature	-5°C +70°C

products in compliance with the directive 2002/95/EC 

products in compliance with the directive 1907/2006 

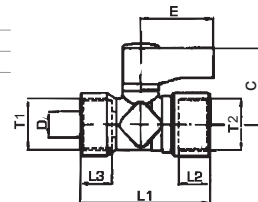
VALVOLE A SFERA MICRO IN OTTONE • brass micro ball valves

valvola a sfera micro F/F leva nera • micro ball valve F/F black lever

9142



CODE	T1	T2	D	E	C	L1	L2	L3	Peso weight(g)	
9142TR18	G1/8"	G1/8"	6	24	23	34	8,0	8,0	35,0	30
9142TR14	G1/4"	G1/4"	6	24	23	38	9,5	9,5	39,0	30
9142TR38	G3/8"	G3/8"	8	24	24	43	10,5	10,5	55,0	30
9142TR12	G1/2"	G1/2"	10	34	27	49	12,0	12,0	93,0	30

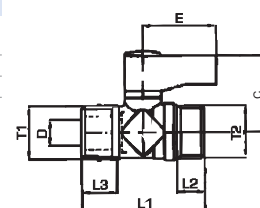


valvola a sfera micro M/M leva nera • micro ball valve M/M black lever

9152



CODE	T1	T2	D	E	C	L1	L2	L3	Peso weight(g)	
9152TR18	R1/8"	R1/8"	6	24	23	34	7,0	7,5	32,0	30
9152TR14	R1/4"	R1/4"	6	24	23	38	8,0	11,0	36,0	30
9152TR38	R3/8"	R3/8"	8	24	24	40	9,0	11,5	51,0	30
9152TR12	R1/2"	R1/2"	10	34	27	46	10,0	15,0	87,0	30

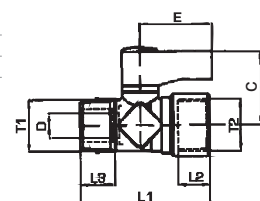


valvola a sfera micro M/F leva nera • micro ball valve M/F black lever

9162



CODE	T1	T2	D	E	C	L1	L2	L3	Peso weight(g)	
9162TR18	R1/8"	G1/8"	6	24	23	34	8,0	7,5	0,32	30
9162TR14	R1/4"	G1/4"	6	24	23	39	9,5	11,0	0,36	30
9162TR38	R3/8"	G3/8"	8	24	24	43	10,5	11,5	0,51	30
9162TR12	R1/2"	G1/2"	10	24	27	50	12,0	15,0	0,87	30

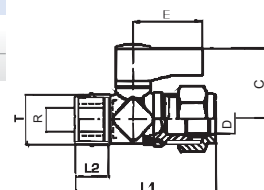


valvola a sfera micro M con attacco ogiva per tubo rame o alluminio leva nera
micro ball valve M with ogive connection for copper or aluminium tube black lever

9168



CODE	T	D	R	E	C	L1	L2	Peso weight(g)	
9168TR186	R1/8"	6	6	24	23	41	7,5	38,0	30
9168TR148	R1/4"	8	6	24	23	46	11,0	46,0	30



VALVOLE A SFERA UNIVERSALI IN OTTONE

brass universal ball valves

DATI TECNICI

Applicazioni	Aria compressa e fluidi compatibili con i materiali costruttivi
Materiali costruttivi	Ottone

Prodotti conformi alla direttiva 2002/95/EC 

Prodotti conformi alla direttiva 1907/2006 

Technical specifications

<i>applications</i>	<i>compressed air and fluids compatible with construction materials</i>
<i>construction materials</i>	<i>brass</i>

products in compliance with the directive 2002/95/EC 

products in compliance with the directive 1907/2006 

I dati tecnici e le quote non sono vincolanti • *drawings and technical data are not binding*

VALVOLE A SFERA UNIVERSALI IN OTTONE • brass universal ball valves

valvola a sfera universale a passaggio totale per acqua potabile secondo le certificazione sotto riportate, attacchi filettati F/F UNI ISO 7/1 Rp
full bore universal ball valve for potable water according to the certification below, threaded ends F/F UNI ISO 7/1 Rp

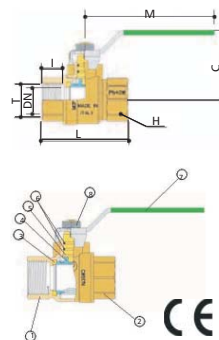
9203



CODE	T	DN	L	M	I	C	H (Hex)	Peso weight(g)	
9203TR38	G3/8"	10	45	80	10	41	21	120	1
9203TR12	G1/2"	15	63	90	15	54	26	260	1
9203TR34	G3/4"	20	71	90	16	58	31	340	1
9203TR1	G1"	25	83	125	19	66	38	580	1
9203TR114	G1"-1/4"	32	92	125	21	71	48	860	1
9203TR112	G1"-1/2"	40	104	140	21	80	55	1380	1
9203TR2	G2"	50	124	140	26	88	68	2000	1

Il tipo di sfera utilizzata permette di evitare il ristagno dell'acqua nella valvola. In questo modo si evita che i batteri, eventualmente contenuti nell'acqua, possano rimanere a lungo nell'impianto al contrario delle normali valvole.

The type of ball installed prevents stagnant water in this valve. In this case the bacteria, that may be in water, cannot remain in the piping for a long time differently from the other traditional valves.



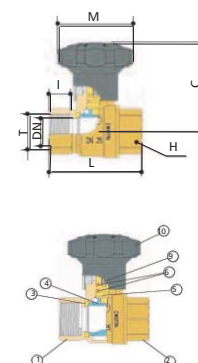
valvola a sfera universale a passaggio totale con riduttore di manovra per acqua potabile secondo le certificazione sotto riportate, attacchi filettati F/F UNI ISO 7/1 Rp
full bore universal ball valve with geared 360-degree action for potable water according to the certification below, threaded ends F/F UNI ISO 7/1 Rp

9204



CODE	T	DN	L	M	I	C	H (Hex)	Peso weight(g)	
9204TR12	G1/2"	15	63	70	15	66	26	274	1
9204TR34	G3/4"	20	71	70	16	68	31	364	1
9204TR1	G1"	25	83	70	19	75	38	576	1
9204TR114	G1 - 1/4"	32	92	70	21	80	48	870	1
9204TR112	G1 - 1/2"	40	104	112	21	109	55	1344	1
9204TR2	G2"	50	124	112	26	115	68	2030	1

N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N - UNI EN 12165/98	
2	Manicotto - body end	Ottone - brass CW 617N - UNI EN 12165/98	
3	Seggio - seat	PTFE	
4	Sfera - ball	Ottone - brass CW 617N - UNI EN 12165/98	Cromata - chrome plated
5	Asta - stem	Ottone - brass CW 614N - UNI EN 12164/98	
6	O'Ring - o'ring	NBR	
7	Leva - lever	Acciaio - steel	Rivest.PVC - plastic coated
8	Dado - nut	Acciaio - steel	Zincato - zinc plated
9	Vite - screw	Acciaio - steel	Zincato - zinc plated
10	Maniglia - handle	Nylon - nylon	



DATI TECNICI

Fluidi compatibili acqua potabile
Pressione d'Esercizio 25 Bar
Temperatura d'Esercizio -10°C +90°C
Filettatura d'Estremità UNI ISO 7/1 Rp

Technical specifications

fluid types potable water
working pressure 25 Bar
working temperature -10°C +90°C
threaded ends UNI ISO 7/1Rp

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart

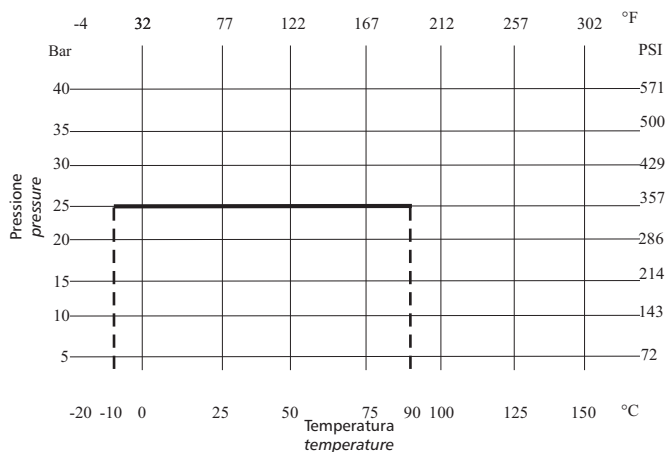
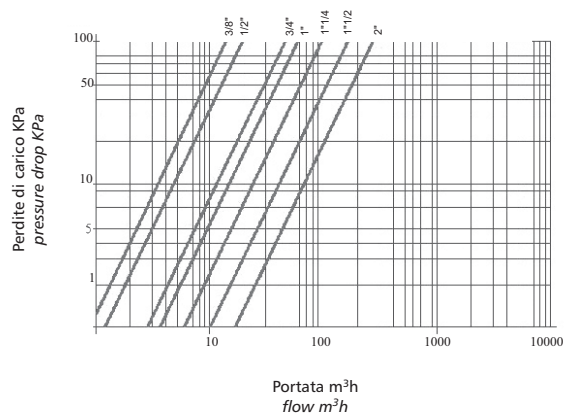


DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



COEFFICIENTE KW - kw factor

3/8"-10	1/2"-15	3/4"-20	1"-25	1 1/4"-32	1 1/2"-40	2"-50
15	20	45	60	100	170	265



kiwa

VALVOLE A SFERA UNIVERSALI IN OTTONE • *brass universal ball valves*

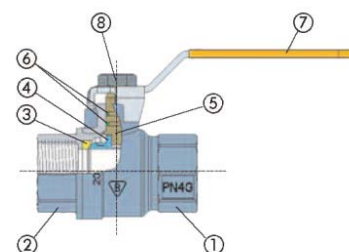
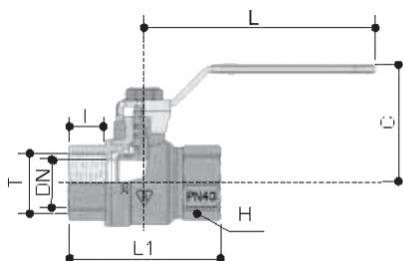
valvola a sfera universale per gas a passaggio totale, attacchi filettati BSPP F/F - leva gialla
full bore universal ball valve for gas, threaded ends BSPP F/F - yellow lever

GAS

9208

CODE	T	DN	PN (Bar)	I	L	L1	C	H (Hex)	Peso weight(g)	
9208TR38	G3/8"	10	16	10	80	45	41	21	160,0	1
9208TR12	G1/2"	15	16	15	90	63	54	26	285,0	1
9208TR34	G3/4"	20	16	16	90	71	58	31	370,0	1
9208TR1	G1"	25	16	19	125	83	66	38	690,0	1

CE



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N - UNI EN 12165/98	Nichelato - nickel plated
2	Manicotto - bod yend	Ottone - brass CW 617N - UNI EN 12165/98	Nichelato - nickel plated
3	Seggio - seat	PTFE	
4	Sfera - ball	Ottone - brass CW 617N - UNI EN 12165/98	Cromata - chrome plated
5	Asta - stem	Ottone - brass CW 614N - UNI EN 12164/98	
6	O'Ring - o'ring	HNBR	
7	Leva - lever	Acciaio - steel	Rivest.PVC - plastic coated
8	Dado - nut	Acciaio - steel	Zincato - zinc plated

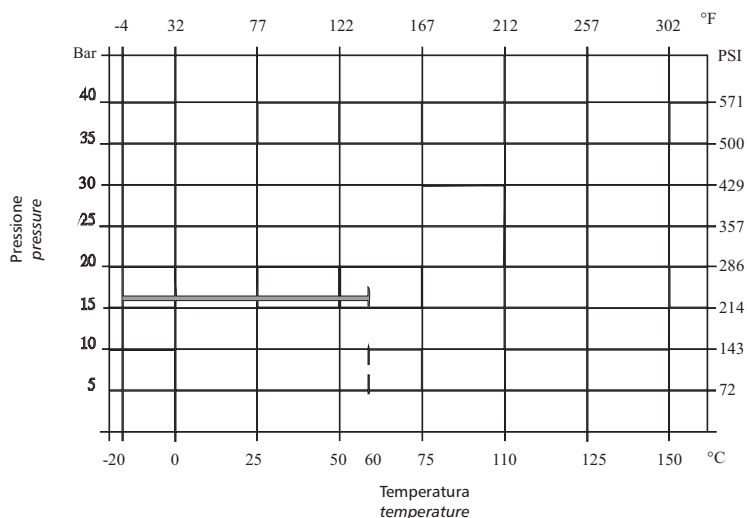
DATI TECNICI

Fluidi compatibili: gas a media e bassa pressione e idrocarburi
Pressione d'Esercizio: 16 Bar
Pressione di Omologazione: da 3/8" a 1": 5 Bar
Temperatura d'Esercizio: -20°C +60°C
Filettatura d'Estremità: UNI ISO 7/1 RP

Technical specifications

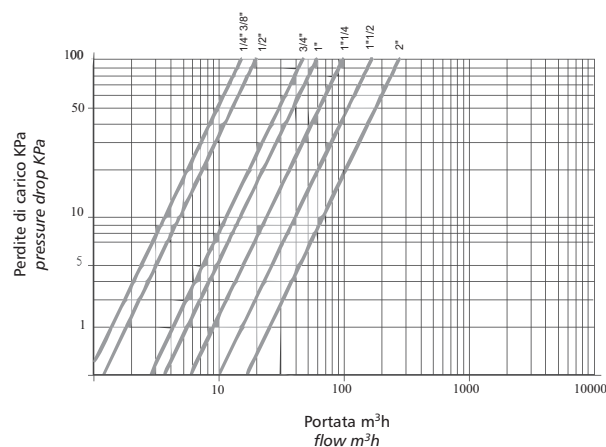
fluid types: medium and low pressure gas and for hydrocarbons
working pressure: 16 Bar
omologation pressure: from 3/8" to 1": 5 Bar
working temperature: -20°C +60°C
threaded ends: UNI ISO 7/1 RP

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart



COEFFICIENTE KW - kw factor			
3/8"-10	1/2"-15	3/4"-20	1"-25
15	20	45	60

DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



VALVOLE A SFERA UNIVERSALI IN OTTONE • *brass universal ball valves*

valvola a sfera universale a passaggio totale, attacchi filettati NPT F/F - leva rossa
full bore universal ball valve, threaded ends NPT F/F - red lever

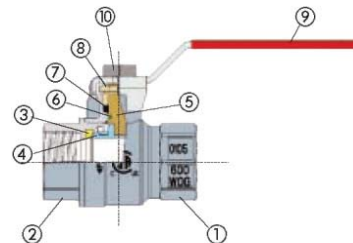
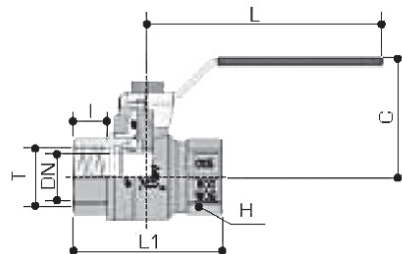
FILETTO NPT

9212

CODE	T	DN	PN (Bar)	I	L	L1	C	H (Hex)	Peso weight(g)	
9212TR14	N 1/4"	10	40	12,0	80	45	41	21	135,0	1
9212TR38	N 3/8"	10	40	12,0	80	45	41	21	120,0	1
9212TR12	N 1/2"	15	40	16,0	90	60	54	26	260,0	1
9212TR34	N 3/4"	20	40	17,0	90	67	58	31	340,0	1
9212TR1	N 1"	25	40	19,5	125	80	66	38	590,0	1
9212TR114	N 1"-1/4"	32	32	21,0	125	89	71	48	850,0	1
9212TR112	N 1"-1/2"	40	32	21,0	140	98	80	55	1360,0	1



Su richiesta è disponibile con filetto fino a 4"
It's available on demand up to 4" thread



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
2	Manicotto - body end	Ottone - brass CW 617N UNI EN 12165/98	Cromato - chrome plated
3	Seggio - seat	PTFE	
4	Sfera - ball	Ottone - brass CW 617N UNI EN 12165/98	Cromata - chrome plated
5	Asta - stem	Ottone - brass CW 614N UNI EN 12164/98	
6	O'Ring - o'ring	FP - fluor carbon rubber	
7	Guarniz. asta - stem seat	PTFE	
8	Premistoppa - packing nut	Ottone - brass CW 614N UNI EN 12164/98	
9	Leva - lever	Acciaio - steel	Rivest.PVC - plastic coated
10	Dado - nut	Acciaio - steel	Zincato - zinc plated

DATI TECNICI

Applicazioni impianti idraulici, installazioni idrotermosanitarie acquedotto, aria compressa ed idrocarburi da 1/4" a 1": 40 Bar
1"1/4" a 1"1/2": 32 Bar

Pressione d'Esercizio

Temperatura d'Esercizio -29°C +150°C

Filettatura d'Estremità NPT ANSI B. 1.20.1

Technical specifications

applications hydraulics, sanitary, compressed air industries and hydrocarbons

working pressure from 1/4" to 1": 40 Bar
from 1"1/4" to 1"1/2": 32 Bar

working temperature -29°C +150°C

threaded ends NPT ANSI B. 1.20.1

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart

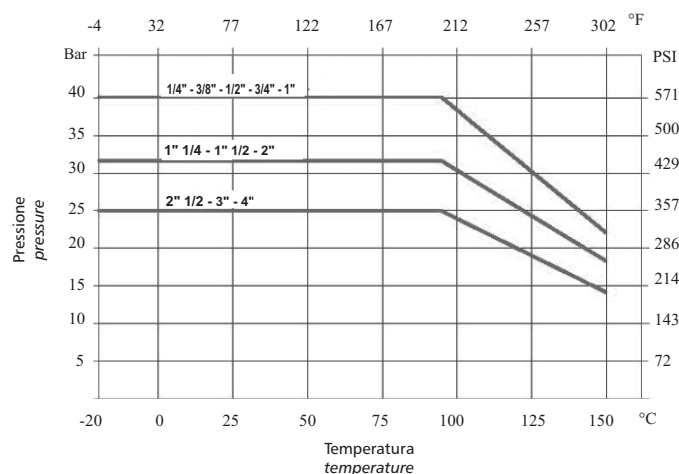
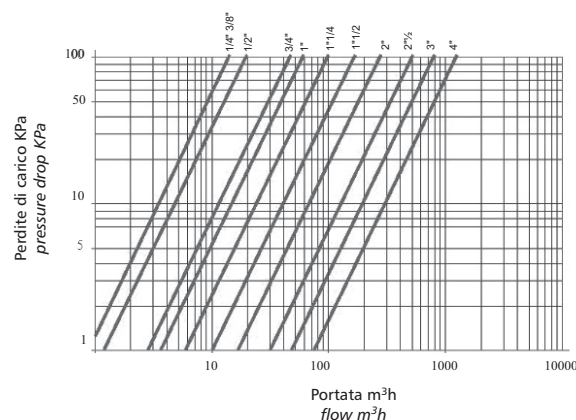


DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



COEFFICIENTE KW - kw factor

1/4"-10	3/8"-10	1/2"-15	3/4"-20	1"-25	1"1/4"-32	1"1/2"-40
15	15	20	45	60	100	170



VALVOLE A SFERA UNIVERSALI IN OTTONE • brass universal ball valves

valvola universale lucchettabile a passaggio totale, attacchi filettati BSPP F/F - leva rossa
lockable full bore universal ball valve, threaded ends BSPP F/F - red lever

LUCCHETTABILE
lockable

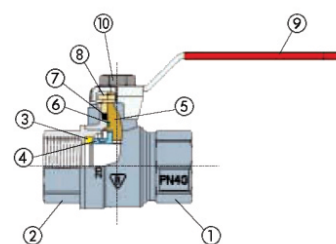
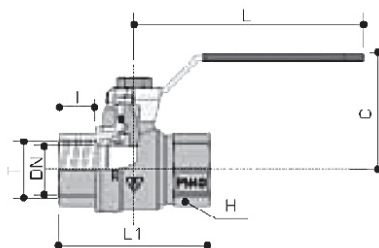
9214

CODE	T	DN	PN (Bar)	I	L	L1	C	H (Hex)	Peso weight(g)	
9214TR14	G1/4"	10	40	10	80	45	41	21	135,0	1
9214TR38	G3/8"	10	40	10	80	45	41	21	120,0	1
9214TR12	G1/2"	15	40	15	90	63	54	26	255,0	1
9214TR34	G3/4"	20	40	16	90	71	58	31	340,0	1
9214TR1	G1"	25	40	19	125	83	66	38	580,0	1
9214TR114	G1"-1/4"	32	32	21	125	92	71	48	860,0	1
9214TR112	G1"-1/2"	40	32	21	140	104	80	55	1360,0	1
9214TR2	G2"	50	32	26	140	124	88	68	2020,0	1



Fornita senza lucchetto
supplied without padlock

Su richiesta è disponibile con filetto fino a 4"
It's available on demand up to 4" thread



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
2	Manicotto - body end	Ottone - brass CW 617N UNI EN 12165/98	Cromato - nickel plated
3	Seggio - seat	PTFE	
4	Sfera - ball	Ottone - brass CW 617N UNI EN 12165/98	Cromato - chrome plated
5	Asta - stem	Ottone - brass CW 614N UNI EN 12164/98	
6	O'Ring - o'ring	FP - fluor carbon rubber	
7	Guarniz. asta - stem seat	PTFE	
8	Premistoppa - packing nut	Ottone - brass CW 614N UNI EN 12164/98	
9	Leva - lever	Acciaio - steel	Rivest.PVC - plastic coated
10	Dado - nut	Acciaio - steel	Zincato - zinc plated

DATI TECNICI

Le valvole lucchettabili Tierre Group sono progettate per evitare manipolazioni involontarie durante le fasi di manutenzione degli impianti

Pressione d'Esercizio da 1/4" a 1": 40 Bar
da 1"1/4" a 2": 32 Bar
Temperatura d'Esercizio -20°C +150°C
Filettatura d'Estremità UNI ISO 228/1

Technical specifications

Tierre Group lockable ball valves have been projected in order to prevent potentially dangerous consequences caused by unintended operation during services activities

working pressure from 1/4" to 1": 40 Bar
from 1"1/4" to 2": 32 Bar
working temperature -20°C +150°C
threaded ends: UNI ISO 228/1

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart

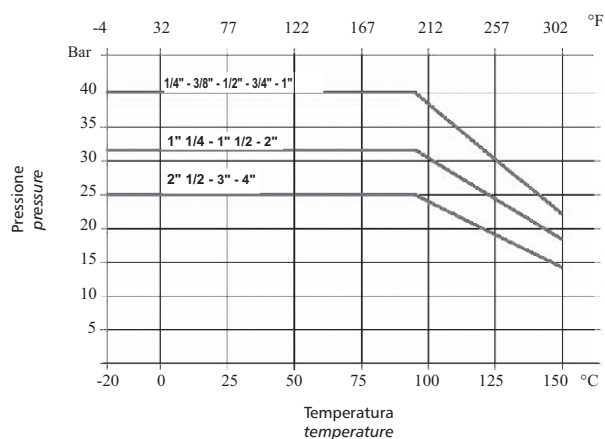
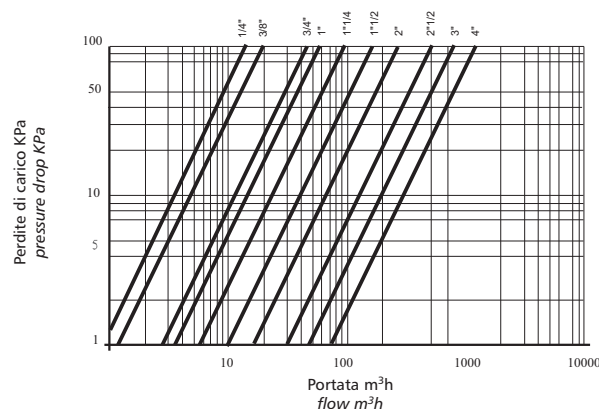


DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



COEFFICIENTE KW - kw factor

1/4"-10	3/8"-10	1/2"-15	3/4"-20	1"-25	1"1/4"-32	1"1/2"-40	2"-50
15	15	20	45	60	100	170	265



WRAS
APPROVED
PRODUCT

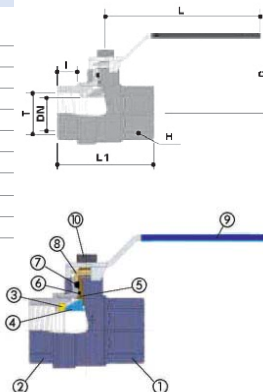
VALVOLE A SFERA UNIVERSALI IN OTTONE • brass universal ball valves

valvola a sfera universale a passaggio totale, attacchi filettati F/F BSPP - leva blu
full bore universal ball valve, threaded ends BSPP F/F - blue lever

9210



CODE	T	DN	PN (Bar)	I	L	L1	C	H (Hex)	Peso weight(g)	
9210TR14	G1/4"	10	32	9	83	41	35	17	115,0	1
9210TR38	G3/8"	10	32	9	83	43	36	20	120,0	1
9210TR12	G1/2"	15	32	11	90	48	42	25	175,0	1
9210TR34	G3/4"	20	32	13	90	58	44	31	250,0	1
9210TR1	G1"	25	32	15	105	69	57	38	460,0	1
9210TR114	G1"-1/4"	32	25	17	105	80	61	47	690,0	1
9210TR112	G1"-1/2"	40	25	18	150	91	72	54	990,0	1
9210TR2	G2"	50	25	20,5	150	108	77	66	1570,0	1
9210TR212	G2"-1/2"	61	16	23	227	132	110	84	3000,0	1
9210TR3	G3"	74	16	27	227	151	121	96	4000,0	1
9210TR4	G4"	95	16	29	254	181	160	123	7000,0	1



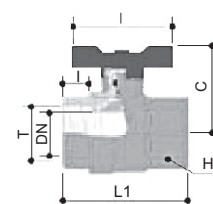
Su richiesta è disponibile nella versione sgrassata per utilizzo con ossigeno (leva bianca)
Degreased version for oxygen use available on demand (white lever)

valvola a sfera universale a passaggio totale, attacchi filettati F/F BSPP - leva blu a farfalla
full bore universal ball valve, threaded ends BSPP F/F - blue butterfly lever

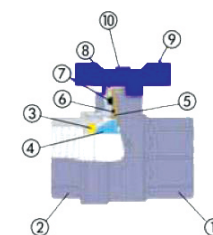
9240



CODE	T	DN	PN (Bar)	I	L	L1	C	H (Hex)	Peso weight(g)	
9240TR14	G1/4"	10	32	9	52	41	35	17	100,0	1
9240TR38	G3/8"	10	32	9	52	43	36	20	100,0	1
9240TR12	G1/2"	15	32	11	52	48	42	25	155,0	1
9240TR34	G3/4"	20	32	13	52	58	44	31	230,0	1
9240TR1	G1"	25	32	15	62	69	57	38	415,0	1



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
2	Manicotto - body end	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
3	Seggio - seat	PTFE	
4	Sfera - ball	Ottone - brass CW 617N UNI EN 12165/98	Cromata - chrome plated
5	Asta - stem	Ottone - brass CW 614N UNI EN 12164/98	
6	O'Ring - o'ring	NBR	
7	Rondella - seal	PTFE	
8	Premistoppa - packing nut	Ottone - brass CW 614N UNI EN 12164/98	
9	Leva / Farfalla - lever/butterfly	Acciaio - steel	Rivest.PVC - plastic coated
10	Dado - nut	Acciaio - steel	Zincato - zinc plated



DATI TECNICI

Applicazioni	impianti idraulici, installazioni idrotermosanitarie, aria compressa e impianti di irrigazione
Pressione d'Esercizio	da 1/4" a 1": 32 Bar da 1 1/4" a 2": 25 Bar da 2 1/2" a 4": 16 Bar
Temperatura d'Esercizio	-10°C + 110°C
Filettatura d'Estremità	UNI ISO 228/1

Technical specifications

applications	hydraulic, sanitary, irrigation and compressed air system
working pressure	from 1/4" to 1": 32 Bar from 1 1/4" to 2": 25 Bar from 2 1/2" to 4": 16 Bar
working temperature	-10°C + 110°C
threaded ends	UNI ISO 228/1

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart

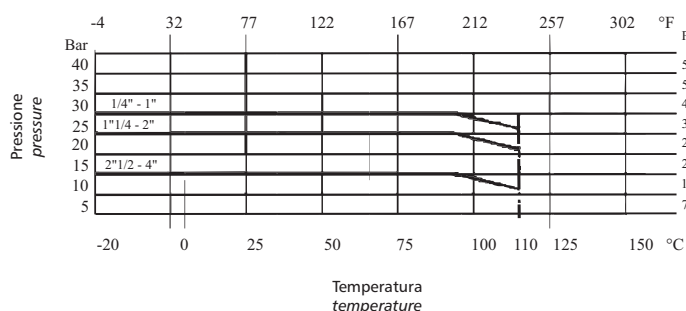
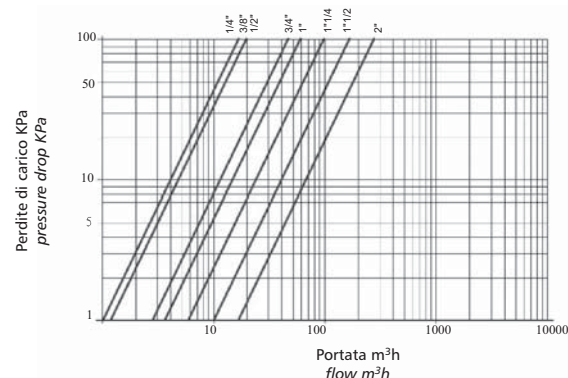


DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



COEFFICIENTE KW - kw factor

1/4"-10	3/8"-10	1/2"-15	3/4"-20	1"-25	1 1/4"-32	1 1/2"-40	2"-50	2 1/2"-61	3"-74	4"-95
15	15	20	45	60	100	170	265	510	790	1230



ACS

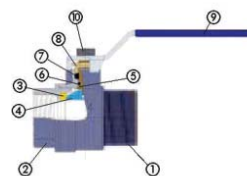
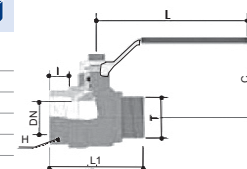
VALVOLE A SFERA UNIVERSALI IN OTTONE • brass universal ball valves

valvola a sfera universale a passaggio totale, attacchi filettati BSPP M/F - leva blu
full bore universal ball valve, threaded ends BSPP M/F - blue lever

9220



CODE	T	DN	PN (Bar)	I	L	L1	C	H (Hex)	Peso weight(g)	
9220TR14	G1/4"	10	32	9	83	48	35	17	115,0	1
9220TR38	G3/8"	10	32	9	83	48	36	20	120,0	1
9220TR12	G1/2"	15	32	11	90	48	42	25	170,0	1
9220TR34	G3/4"	20	32	13	90	58	44	31	260,0	1
9220TR1	G1"	25	32	15	105	69	57	38	410,0	1
9220TR114	G1"-1/4"	32	25	17	105	80	61	47	620,0	1
9220TR112	G1"-1/2"	40	25	18	150	91	72	54	930,0	1
9220TR2	G2"	50	25	20,5	150	108	77	66	1430,0	1



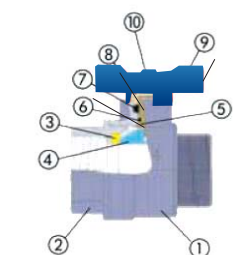
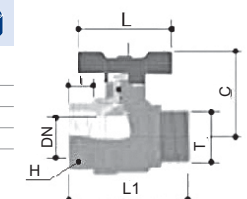
Su richiesta è disponibile nella versione sgrassata per utilizzo con ossigeno (leva bianca)
Degreased version for oxygen use available on demand (white lever)

valvola a sfera universale a passaggio totale, attacchi filettati BSPP M/F - leva blu a farfalla
full bore universal ball valve, threaded ends BSPP M/F - blue butterfly lever

9250



CODE	T	DN	PN (Bar)	I	L	L1	C	H (Hex)	Peso weight(g)	
9250TR14	G1/4"	10	32	9	52	48	35	17	115,0	1
9250TR38	G3/8"	10	32	9	52	48	36	20	120,0	1
9250TR12	G1/2"	15	32	11	52	48	42	25	170,0	1
9250TR34	G3/4"	20	32	13	52	58	44	31	235,0	1
9250TR1	G1"	25	32	15	62	69	57	38	380,0	1



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
2	Manicotto - body end	Ottone - brass CW 617N UNI EN12165/98	Nichelato - nickel plated
3	Seggio - seat	PTFE	
4	Sfera - ball	Ottone - brass CW 617N UNI EN 12165/98	Cromata - chrome plated
5	Asta - stem	Ottone - brass CW 614N UNI EN 12164/98	
6	O'Ring - o'ring	NBR	
7	Rondella - seal	PTFE	
8	Premistoppa - packing nut	Ottone - brass CW 614N UNI EN 12164/98	
9	Leva / Farfalla - lever/butterfly	Acciaio - steel	Rivest.PVC - plastic coated
10	Dado - nut	Acciaio - steel	Zincato - zinc plated

DATI TECNICI

Applicazioni: impianti idraulici, installazioni idrotermosanitarie, aria compressa ed impianti di irrigazione
Pressione d'Esercizio: da 1/4" a 1": 32 Bar
da 1 1/4" a 2": 25 Bar
Temperatura d'Esercizio: -10°C + 110°C
Filettatura d'Estremità: UNI ISO 228/1

Technical specifications

applications hydraulic, sanitary, irrigation and compressed air system
working pressure from 1/4" to 1": 32 Bar
from 1 1/4" to 2": 25 Bar
working temperature -10°C + 110°C
threaded ends UNI ISO 228/1

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart

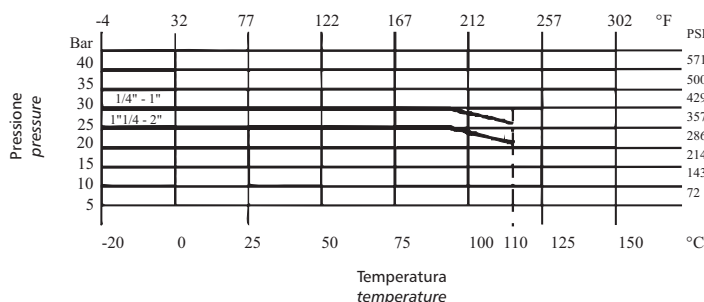
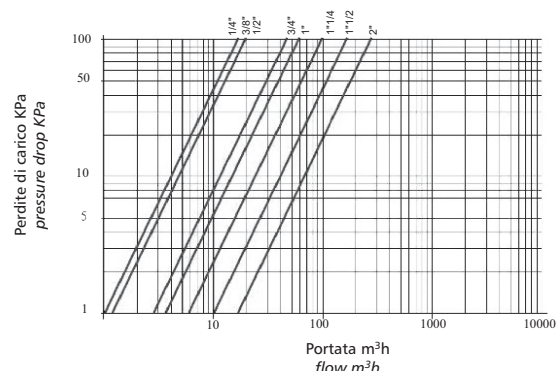


DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



COEFFICIENTE KW - kw factor

1/4"-10	3/8"-10	1/2"-15	3/4"-20	1"-25	1 1/4"-32	1 1/2"-40	2"-50
15	15	20	45	60	100	170	265

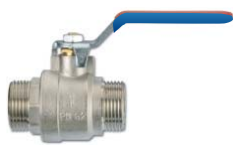


ACS

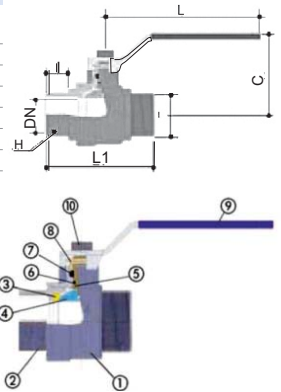
VALVOLE A SFERA UNIVERSALI IN OTTONE • brass universal ball valves

valvola a sfera universale a passaggio totale, attacchi filettati BSPP M/M - leva blu
full bore universal ball valve, threaded ends BSPP M/M - blue lever

9230



CODE	T	DN	PN (Bar)	I	L	L1	C	H (Hex)	Peso weight(g)	
9230TR14	G1/4"	10	32	9	83	-	35	17	120,0	1
9230TR38	G3/8"	10	32	9	83	51	36	20	120,0	1
9230TR12	G1/2"	15	32	11	90	57	42	25	190,0	1
9230TR34	G3/4"	20	32	13	90	65	44	31	275,0	1
9230TR1	G1"	25	32	15	105	77	57	38	430,0	1
9230TR114	G1"-1/4"	32	25	17	105	89	61	47	780,0	1
9230TR112	G1"-1/2"	40	25	18	150	102	72	54	1150,0	1
9230TR2	G2"	50	25	20,5	150	117	77	66	1700,0	1



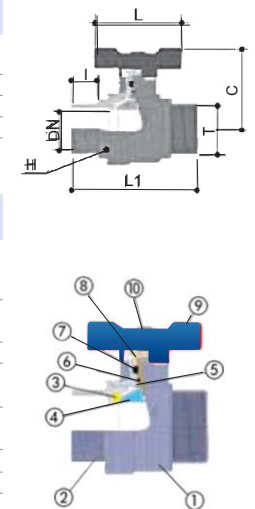
Su richiesta è disponibile nella versione sgrassata per utilizzo con ossigeno (leva bianca)
Degreased version for oxygen use available on demand (white lever)

valvola a sfera universale a passaggio totale, attacchi filettati gas M/M - leva blu a farfalla
full bore universal ball valve, threaded ends M/M - blue butterfly lever

9260



CODE	T	DN	PN (Bar)	I	L	L1	C	H (Hex)	Peso weight(g)	
9260TR14	G1/4"	10	32	9	52	52	36	35	120,0	1
9260TR38	G3/8"	10	32	9	52	51	36	20	120,0	1
9260TR12	G1/2"	15	32	11	52	57	42	25	170,0	1
9260TR34	G3/4"	20	32	13	52	65	44	31	260,0	1
9260TR1	G1"	25	32	15	62	77	57	38	463,0	1



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
2	Manicotto - body end	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
3	Seggio - seat	PTFE	
4	Sfera - ball	Ottone - brass CW 617N UNI EN 12165/98	Cromata - chrome plated
5	Asta - stem	Ottone - brass CW 614N UNI EN 12164/98	
6	O'Ring - o'ring	NBR	
7	Rondella - seal	PTFE	
8	Premistoppa - packing nut	Ottone - brass CW 614N UNI EN 12164/98	
9	Leva / Farfalla - lever/butterfly	Acciaio - steel	Rivest.PVC - plastic coated
10	Dado - nut	Acciaio - steel	Zincato - zinc plated

DATI TECNICI

Applicazioni impianti idraulici, installazioni idrotermosanitarie, aria compressa ed impianti di irrigazione
Pressioned'Esercizio da 1/4" a 1": 32 Bar da 1"1/4" a 2": 25 Bar
Temperatura d'Esercizio -10°C +110°C
Filettatura d'Estremità UNI ISO 228/1

Technical specifications

applications hydraulic, sanitary, irrigation and compressed air system
working pressure from 1/4" to 1": 32 Bar from 1"1/4" to 2": 25 Bar
working temperature -10°C +110°C
threaded ends UNI ISO 228/1

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart

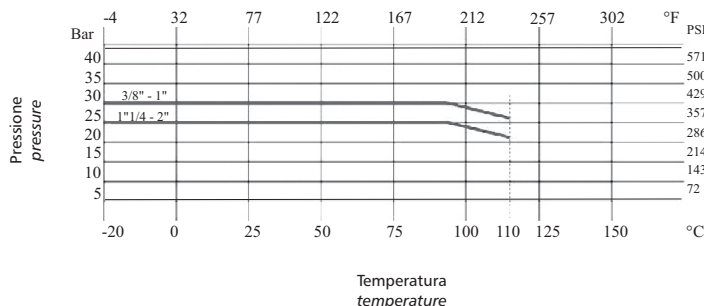
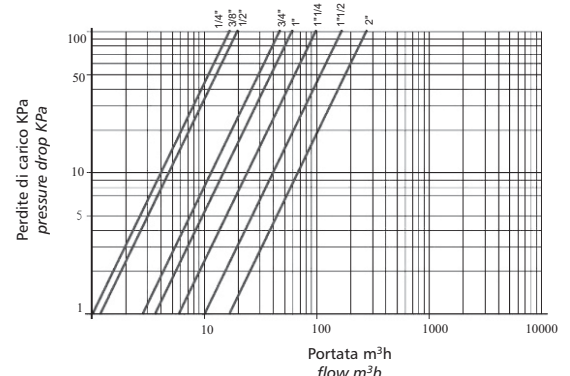


DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



COEFFICIENTE KW - kw factor

1/4"-10	3/8"-10	1/2"-15	3/4"-20	1"-25	1"1/4"-32	1"1/2"-40	2"-50
15	15	20	45	60	100	170	265



ACS

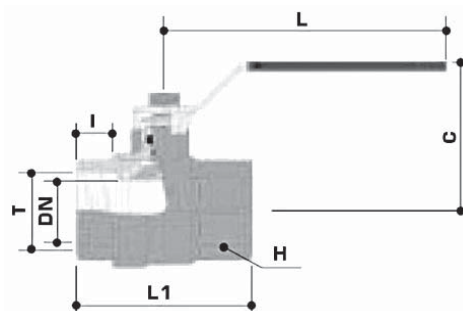
VALVOLE A SFERA UNIVERSALI IN OTTONE • *brass universal ball valves*

valvola a sfera universale a passaggio totale, **SERIE PESANTE**, attacchi filettati BSPP F/F
full bore universal ball valve, **HEAVY SERIES**, threaded ends BSPP F/F

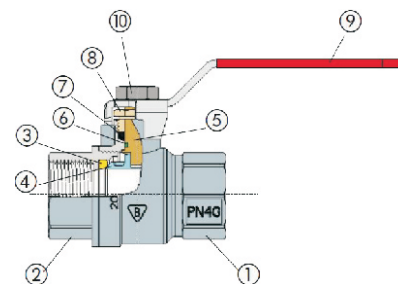
9210H

CODE	T	DN	PN (Bar)	I	L	L1	C	H (Hex)	Peso weight(g)	
9210TRH38	G3/8"	10	40	10	80	45	41	21	120	1
9210TRH12	G1/2"	15	40	15	90	63	54	26	255	1
9210TRH34	G3/4"	20	40	16	90	71	58	31	340	1
9210TRH1	G1"	25	40	19	125	83	66	38	580	1
9210TRH114	G1"-1/4"	32	32	21	125	92	71	48	860	1
9210TRH112	G1"-1/2"	40	32	21	140	104	80	55	1360	1
9210TRH2	G2"	50	32	26	140	124	88	68	2020	1

NEW



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N - UNI EN 12165/98	Nichelato - nickel plated
2	Manicotto - body end	Ottone - brass CW 617N - UNI EN 12165/98	Nichelato - nickel plated
3	Seggio - seat	PTFE	
4	Sfera - ball	Ottone - brass CW 617N - UNI EN 12165/98	Cromata - chrome plated
5	Asta - stem	Ottone - brass CW 614N - UNI EN 12164/98	
6	O-Ring	FP - fluor carbon rubber	
7	Guarniz. asta - stem seat	PTFE	
8	Premistoppa - packing nut	Ottone - brass CW 614N UNI EN 12164/98	
9	Leva - lever	Acciaio - steel	Rivest.PVC - plastic coated
10	Dado - nut	Acciaio - steel	Zincato - zinc plated



DATI TECNICI

Applicazioni adatto per l'utilizzo con aria, gas neutri, acqua, vapore acqueo. Idoneo per impianti solari e termici. Adatta per l'utilizzo in circuiti idraulici miscelati fino al 50% con glicole

Pressione d'Esercizio da 1/4" a 1": 40 Bar
da 1 1/4" a 2": 32 Bar

Temperatura d'Esercizio -20°C +150°C

Filettatura d'Estremità: UNI ISO 228/1

Technical specifications

applications suitable for air, neutral gases, water, vapour, hydronic solar and heating installation. Suitable for installations with a glycol mix up to 50%.

working pressure from 1/4" to 1": 40 Bar
from 1 1/4" to 2": 32 Bar

working temperature -20°C +150°C

threaded ends UNI ISO 228/1

GRAFICO PRESSIONE/TEMPERATURA • *pressure/temperature chart*

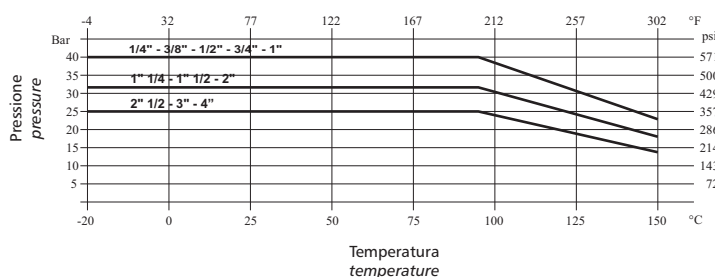
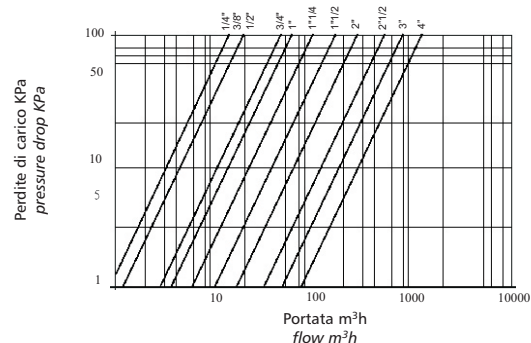


DIAGRAMMA PERDITE DI CARICO • *flow & pressure drop chart*



COEFFICIENTE KW - *kw factor*

1/4"-10	3/8"-10	1/2"-15	3/4"-20	1"-25	1 1/4"-32	1 1/2"-40	2"-50	2 1/2"-61	3"-74	4"-95
15	15	20	45	60	100	170	265	510	790	1230

VALVOLE A SFERA UNIVERSALI IN OTTONE • brass universal ball valves

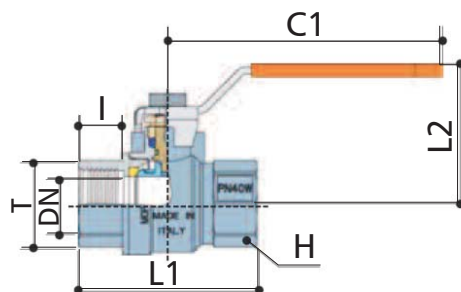
valvola a sfera universale a passaggio totale, **SERIE PESANTE PER ALTE TEMPERATURE**, attacchi filettati BSPP F/F
full bore universal ball valve, **HEAVY SERIES FOR HIGH TEMPERATURE**, threaded ends BSPP F/F



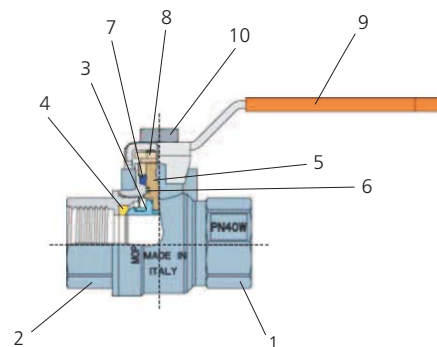
9210HS

CODE	T	DN	PN (Bar)	I	L1	L2	C1	H (Hex)	
9210TRHS38	G3/8"	10	40	10	45	54	41	21	1
9210TRHS12	G1/2"	15	40	15	63	70	54	26	1
9210TRHS34	G3/4"	20	40	16	71	80	58	31	1
9210TRHS1	G1"	25	40	19	83	92	66	38	1
9210TRHS114	G1"-1/4"	32	32	21	92	102	71	48	1
9210TRHS112	G1"-1/2"	40	32	21	104	117	80	55	1
9210TRHS2	G2"	50	32	26	124	137	88	68	1

NEW



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
2	Manicotto - body end	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
3	Seggio - seat	PTFE caricato a grafite graphite reinforced PTFE	
4	Sfera - ball	Ottone - brass CW 617N UNI EN 12165/98	Cromata - chrome plated
5	Asta - stem	Ottone - brass CW 614N UNI EN 12164/98	
6	O'Ring - o'ring	FP - fluor carbon rubber	
7	Guarnizione asta steam seat	PTFE caricato grafite graphite reinforced PTFE	
8	Premistoppa - packing nut	Ottone - brass CW 614N UNI EN 12164/98	
9	Maniglia - handle	Acciaio - steel	Rivest.PVC - plastic coated
10	Dado - nut	Acciaio inox AISI 304 stainless steel AISI 304	



DATI TECNICI

Applicazioni adatto per l'utilizzo con aria, gas neutri, acqua, vapore acqueo. Idoneo per impianti solari e termici. Adatta per l'utilizzo in circuiti idraulici miscelati fino a 50% con glicole

Pressione d'Esercizio da 1/4" a 1": 40 Bar
da 1 1/4" a 2": 32 Bar

Temperatura d'Esercizio -30°C + 180°C

Filettatura d'Estremità: UNI ISO 228/1

Technical specifications

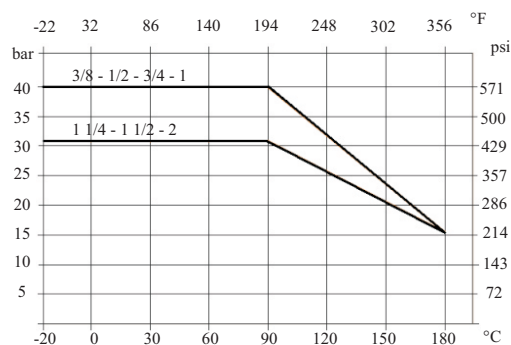
applications suitable for air, neutral gas, water, vapor. For hydronic solar installation. Suitable for applications mixed with up to 50% glycol.

working pressure from 1/4" to 1": 40 Bar
from 1 1/4" to 2": 32 Bar

working temperature -30°C + 180°C

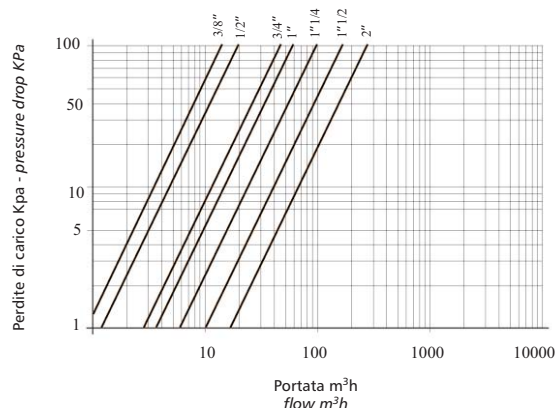
threaded ends UNI ISO 228/1

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart



COEFFICIENTE KW - kw factor						
3/8"-10	1/2"-15	3/4"-20	1"-25	1 1/4"-32	1 1/2"-40	2"-50
15	20	45	60	100	170	265

DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



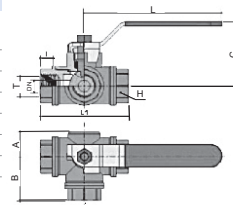
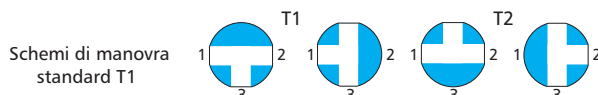
VALVOLE A SFERA UNIVERSALI IN OTTONE • brass universal ball valves

valvola a sfera universale a tre vie a passaggio ridotto, **SFERA FORATA A T**, attacchi filettati BSPP F/F - leva rossa
three ways reduced bore universal ball valve **T PORT**, threaded ends BSPP F/F - red lever

9270



CODE	T	DN	PN (Bar)	I	L	L1	C	A	B	H (Hex)	Peso weight(g)	
9270TR14	G1/4"	10	32	12	90	74	58	22	37	22	450,0	1
9270TR38	G3/8"	10	32	12	90	74	58	22	37	22	420,0	1
9270TR12	G1/2"	12	32	14	125	80	60	24	39	29	660,0	1
9270TR34	G3/4"	15	32	16	125	90	64	28	46	34	870,0	1
9270TR1	G1"	20	32	19	140	105	73	31	52	42	1530,0	1
9270TR114	G1"-1/4"	25	25	21	140	115	79	35	58	50	1840,0	1
9270TR112	G1"-1/2"	32	25	23	220	138	100	42	69	57	3650,0	1
9270TR2	G2"	40	25	26	220	161	105	48	80	68	5170,0	1

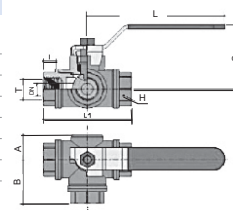


valvola a sfera universale a tre vie a passaggio ridotto, **SFERA FORATA A L**, attacchi filettati BSPP F/F - leva rossa
three ways reduced bore universal ball valve **L PORT**, threaded ends BSPP F/F - red lever

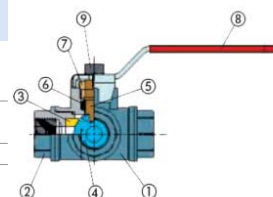
9280



CODE	T	DN	PN (Bar)	I	L	L1	C	A	B	H (Hex)	Peso weight(g)	
9280TR14	G1/4"	10	32	12	90	74	58	22	37	22	450,0	1
9280TR38	G3/8"	10	32	12	90	74	58	22	37	22	420,0	1
9280TR12	G1/2"	12	32	14	125	80	60	24	39	29	650,0	1
9280TR34	G3/4"	15	32	16	125	90	64	28	46	34	860,0	1
9280TR1	G1"	20	32	19	140	105	73	31	52	42	1490,0	1
9280TR114	G1"-1/4"	25	25	21	140	115	79	35	58	50	1790,0	1
9280TR112	G1"-1/2"	32	25	23	220	138	100	42	69	57	3610,0	1
9280TR2	G2"	40	25	26	220	161	105	48	80	68	5200,0	1



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
2	Manicotto - body end	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
3	Seggio - seat	PTFE	
4	Sfera - ball	Ottone - brass CW 617N UNI EN 12165/98	Cromata - chrome plated
5	Asta - stem	Ottone - brass CW 614N UNI EN 12164/98	
6	Guarniz. asta - stem seat	PTFE	
7	Premistoppa - packing nut	Ottone - brass CW 614N UNI EN 12164/98	
8	Leva - lever	Acciaio - steel	Rivest. PVC - plastic coated
9	Dado - nut	Acciaio - steel	Zincato - zinc plated



DATI TECNICI

Applicazioni: impianti idraulici, installazioni idrotermosanitarie, aria compressa ed impianti di irrigazione
Pressione d'Esercizio: da 1/4" a 1": 32 Bar
da 1 1/4" a 2": 25 Bar
Temperatura d'Esercizio: -20°C + 150°C
Filettatura d'Estremità: UNI ISO 228/1

Technical specifications

applications: hydraulics, sanitary, irrigation and compressed air industries and systems of irrigation
working pressure: from 1/4" to 1": 32 Bar
from 1 1/4" to 2": 25 Bar
working temperature: -20°C + 150°C
threaded ends: UNI ISO 228/1

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart

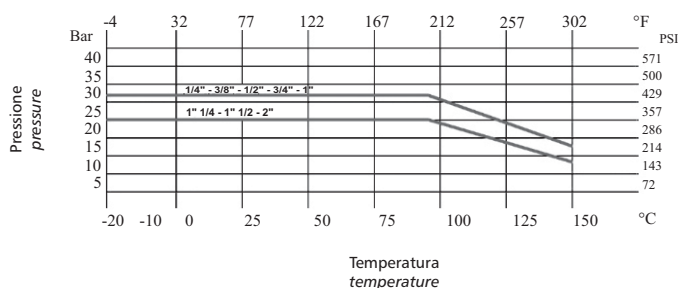
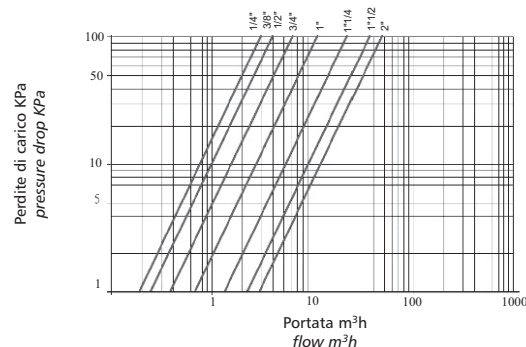


DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



COEFFICIENTE KW - kw factor

1/4"-10	3/8"-10	1/2"-12	3/4"-15	1"-20	1 1/4"-25	1 1/2"-32	2"-40
3	3	4	6	12	21	35	47

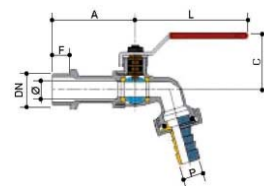
VALVOLE A SFERA UNIVERSALI IN OTTONE • *brass universal ball valves*

rubinetto di erogazione a sfera con portagomma
ball bibcock with hose connector

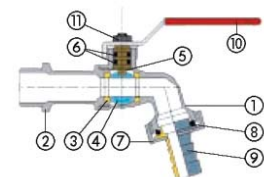
9285



CODE	T	DN	PN (Bar)	I	L	L1	A	P	C	Peso weight(g)	
9285TR38	G3/8"	12	16	10,0	82	51	52	14	38	185,0	1
9285TR12	G1/2"	16	16	11,5	82	51	54	14	38	190,0	1
9285TR34	G3/4"	20	16	14,0	82	51	62	20	40	250,0	1
9285TR1	G1"	26	16	16,0	82	51	69	26	44	425,0	1



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo - body	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
2	Manicotto - body end	Ottone - brass CW 617N UNI EN 12165/98	Nichelato - nickel plated
3	Seggio - seat	PTFE	
4	Sfera - ball	Ottone - brass CW 614N UNI EN 12165/98	Cromata - chrome plated
5	Asta - stem	Ottone - brass CW 614N UNI EN 12164/98	
6	O'Ring - o'ring	NBR	
7	Girello - hose tall nut	Ottone - brass CW 614N UNI EN 12164/98	
8	O'ring girello - hose tall nut	NBR	
9	Portagomma - hose connector	Ottone - brass CW 614N UNI EN 12164/98	
10	Leva - lever	Acciaio - steel	Rivest.PVC - plastic coated
11	Dado - nut	Acciaio - steel	Zincato - zinc plated



DATI TECNICI

Applicazioni acqua
Pressione d'Esercizio 16 Bar
Temperatura d'Esercizio -10°C +110°C
Filettatura d'Estremità UNI ISO 228/1

Technical specifications

applications water
working pressure 16 Bar
working temperature -10°C +110°C
threaded ends UNI ISO 228/1

valvola scarico condensa • *drain valve*

9611



CODE	T	
9611TR18	R1/8"	10
9611TR14	R1/4"	10
9611TR38	R3/8"	10
9611TR12	R1/2"	10

valvola di SICUREZZA • *SAFETY valve*

9620



CODE	T	
9620TR18	R1/8"	10
9620TR14	R1/4"	10
9620TR38	R3/8"	10
9620TR12	R1/2"	10
9620TR34	R3/4"	10
9620TR1	R1"	10

Suffisso • suffix	Taratura • calibration
02	da 0 a 2 Bar • from 0 to 2 bar
37	da 3 a 7 Bar • from 3 to 7 bar
812	da 8 a 12 Bar • from 8 to 12 bar
1316	da 13 a 16 Bar • from 13 to 16 bar

Le valvole sono dotate di un pomello zigrinato per la taratura con controdado di bloccaggio.
Disponibili con taratura a richiesta, con suffisso -PT, con cappuccio cianfrinato anti-manomissione, certificate CE-PED.

The valves are provided of a grained handle for the calibration with locking nut. Different calibration is available on demand, with welded and anti-tampering cap, just adding the suffix -PT. They are CE-PED certificated.

VALVOLE INDUSTRIALI INOX AISI 316

industrial valves inox AISI 316

CARATTERISTICHE GENERALI

Le valvole industriali con otturatore a sfera sono organi di intercettazione dei fluidi che per la loro facilità e rapidità di manovra si sono imposte nell'uso comune sostituendosi alle valvole a saracinesca con volantino.

Occorre tuttavia conoscere i loro limiti per un migliore utilizzo.

- Non sono organi di regolazione di flusso per periodi prolungati, non devono quindi essere usati per questo scopo. Lo scorrimento del fluido "non pulito" sulla parte di guarnizione scoperta ne provoca l'abrasione e quindi la futura perdita.
- Non devono essere usate con acque fangose, fluidi densi, polveri, sostanze viscosi, perché i depositi di materie solide o che si solidificano vanno a bloccare lo scorrimento della sfera.

Superato lo sforzo massimo di manovra consentito dalle norme di progettazione, può rompersi l'asta di comando. Per questi fluidi valgono quindi ancora le valvole di arresto o di regolazione alza-maschio.

COLPO D'ARIETE

E' il forte aumento di pressione causato dall'interruzione brusca di flusso dell'acqua. Oltre al fastidio del rumore si possono avere altri inconvenienti quali: rotture di giunti, saldature o tubi flessibili. Il colpo d'ariete è più forte con le tubazioni più piccole e per quelle di grande lunghezza. Per ovviare a tale inconveniente è consigliabile l'uso di maniglie a manovra lenta (riduttori di manovra).

Prodotti conformi alla direttiva 2002/95/EC **RoHS**

Prodotti conformi alla direttiva 1907/2006 

GENERAL FEATURES

The industrial valves with spherical shutter are interception devices for fluids and thanks to their easy and quick handling have come into common use taking the place of valves and sluice valves operated by wheel.

Nevertheless, for a better use, it is necessary to know their limits.

- *They are not flow control devices for a long period of time, they must not be used for this purpose. The flow of the "non clean" fluid through the uncovered packing causes its consumption and, therefore, the future leakage.*
- *They must not be used with muddy waters, dense fluids, powder viscous substances, because deposit of solid or solidifying materials may block the sliding. The control rod can break by exceeding the maximum operation stress allowed by the planning rules.*

For above fluids, stop valves or control valves male lift are still recommended

WATER HAMMER

Is the strong pressure increase caused by sudden interruption of water flow. Besides the noise annoyance, other inconveniences may arise such as cracking of joints, welds or flexible pipes. Water hammer is stronger in case of smaller and longer pipes. In order to avoid such inconvenience it is advisable to use slow operating handles (geared operating reducers)

products in compliance with the directive 2002/95/EC **RoHS**

products in compliance with the directive 1907/2006 




AISI 316

359

VALVOLE A SFERA MINI INOX AISI 316 mini ball valves INOX AISI 316

VALVOLE A SFERA MINI INOX AISI 316 - mini ball valves INOX AISI 316

Le valvole a sfera mini (codici 9170, 9180 e 9190) sono realizzate completamente in INOX AISI 316.

La leva è in alluminio e la guarnizione della sede sfera è in PTFE (Teflon).

La pressione massima d'esercizio è 63 Bar

La temperatura d'esercizio va da -25°C a +180°C

Mini ball valves (codes 9170, 9180 & 9190) are manufactured completely in stainless steel AISI 316.

The lever is in aluminum and the gasket seat is in PTFE (Teflon)

The maximum working pressure is 63 bar

The working temperature is from -25°C to +180°C

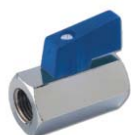
Prodotti conformi alla direttiva 2002/95/EC **RoHS**

products in compliance with the directive 2002/95/EC **RoHS**

Prodotti conformi alla direttiva 1907/2006 

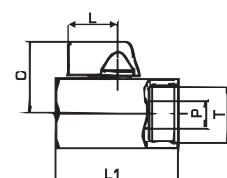
products in compliance with the directive 1907/2006 

I dati tecnici e le quote non sono vincolanti • drawings and technical data are not binding

9170


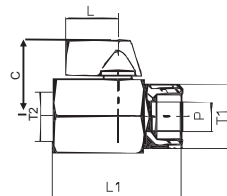
valvola a sfera mini F/F INOX AISI 316 • mini ball valve F/F INOX AISI 316

CODE	T	DN	PN (Bar)	P	L	L1	C	Peso weight(g)	
9170TR14	G1/4"	6	63	7,0	22,8	42,0	26,5	83,0	1
9170TR38	G3/8"	8	63	7,0	22,8	42,0	26,5	82,0	1
9170TR12	G1/2"	10	63	9,2	22,8	46,0	28,3	116,0	1
9170TR34	G3/4"	12	63	12,5	22,8	54,0	31,5	193,0	1
9170TR1	G1"	15	63	15,0	22,8	65,0	34,0	235,0	1

AISI 316

9180


valvola a sfera mini M/F INOX AISI 316 • mini ball valve M/F INOX AISI 316

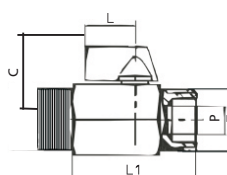
CODE	T1	T2	DN	PN (Bar)	P	L	L1	C	Peso weight(g)	
9180TR14	R1/4"	G1/4"	6	63	7,0	22,8	42,0	26,5	104,0	1
9180TR38	R3/8"	G3/8"	8	63	7,0	22,8	42,0	26,5	92,0	1
9180TR12	R1/2"	G1/2"	10	63	9,2	22,8	46,0	28,3	125,0	1
9180TR34	R3/4"	G3/4"	12	63	12,5	22,8	54,0	31,5	211,0	1
9180TR1	R1"	G1"	15	63	15,0	22,8	65,0	34,0	259,0	1

AISI 316

9190

NEW

valvola a sfera mini M/M INOX AISI 316 • mini ball valve M/M INOX AISI 316

CODE	T	DN	PN (Bar)	P	L	L1	C	Peso weight(g)	
9190TR14	R1/4"	6	63	7,0	22,8	50,0	26,5	97,0	1
9190TR38	R3/8"	8	63	7,0	22,8	50,0	26,5	102,0	1
9190TR12	R1/2"	10	63	9,2	22,8	58,0	28,3	123,0	1
9190TR34	R3/4"	12	63	12,5	22,8	70,0	31,5	203,0	1
9190TR1	R1"	15	63	15,0	22,8	83,0	34,0	271,0	1

AISI 316




VALVOLE A SFERA UNIVERSALI INOX AISI 316 *universal ball valves INOX AISI 316*

DATI TECNICI

Applicazioni	Impianti Industriali, Chimici ed Alimentari
Materiali utilizzati	INOX AISI 316
Filettature	vedi scheda tecnica
Pressione d'esercizio max	vedi scheda tecnica
Temperatura d'esercizio	vedi scheda tecnica

Prodotti conformi alla direttiva 2002/95/EC **RoHS**

Prodotti conformi alla direttiva 1907/2006 

Technical specifications

<i>applications</i>	<i>industrial, chemical and food plants</i>
<i>materials used</i>	<i>INOX AISI 316</i>
<i>threads</i>	<i>see technical details</i>
<i>max working pressure</i>	<i>see technical details</i>
<i>working temperature</i>	<i>see technical details</i>

*products in compliance with the directive 2002/95/EC **RoHS***

products in compliance with the directive 1907/2006 

I dati tecnici e le quote non sono vincolanti • *drawings and technical data are not binding*

VALVOLE A SFERA UNIVERSALI INOX AISI 316 • universal ball valves INOX AISI 316

valvola a sfera universale a passaggio totale INOX AISI 316, attacchi filettati BSPP F/F - leva blu
full bore universal ball valve INOX AISI 316, threaded ends BSPP F/F - blue lever

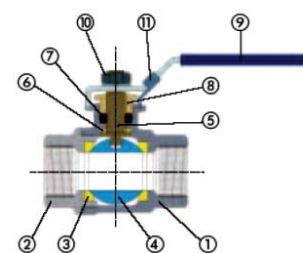
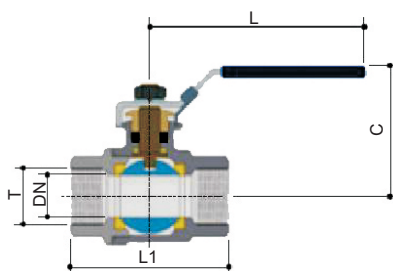
9320

CODE	T	DN	PN (Bar)	L	L1	C	Peso weight(g)	
9320TR14	G1/4"	11,6	85	100	49,0	48	230,0	1
9320TR38	G3/8"	12,7	85	100	49,0	48	230,0	1
9320TR12	G1/2"	15,0	85	100	55,0	52	260,0	1
9320TR34	G3/4"	20,0	85	115	66,0	57	480,0	1
9320TR1	G1"	25,0	85	150	78,5	75	650,0	1
9320TR114	G1" 1/4"	32,0	70	150	90,0	80	1140,0	1
9320TR112	G1" 1/2"	40,0	70	180	98,5	95	1650,0	1
9320TR2	G2"	50,0	65	180	120,0	96	2750,0	1
9320TR212	G2" 1/2"	65,0	65	245	147,0	125	4900,0	1
9320TR3	G3"	76,0	65	245	172,0	135	7700,0	1
9320TR4	G4"	94,0	65	278	220,0	160	16100,0	1

AISI 316



Su richiesta è disponibile con filetto NPT
It's available on demand with NPT thread



N°	Denominazione • partname	Materiale • materials	Trattamento • treatment
1	Corpo - body	AISI 316	
2	Manicotto - body end	AISI 316	
3	Seggio - seat	PTFE caricato vetro 15% PTFE 15% glassfiber	
4	Sfera - ball	AISI 316	
5	Asta - stem	AISI 316	
6	Rondella - seal	PTFE	
7	Guarniz. asta - stem seat	PTFE	
8	Premistoppa - packing nut	AISI 304	
9	Leva - lever	AISI 304	Rivest.PVC - plastic coated
10	Dado - nut	AISI 304	
11	Bloccaggio - locking	AISI 304	

DATI TECNICI

Applicazioni	impianti industriali, chimici ed alimentari
Pressione d'Esercizio	da 1/4" a 1": 85 Bar da 1" 1/4" a 1" 1/2": 70 Bar da 2" a 4": 65 Bar
Temperatura d'Esercizio	-40°C + 220°C
Filettatura d'Estremità	UNI ISO 228/1

Technical specifications

applications	industrial, chemical and food installations
working pressure	from 1/4" to 1": 65 Bar from 1" 1/4" to 1" 1/2": 70 Bar from 2" to 4": 65 Bar
working temperature	-40°C + 220°C
threaded ends	UNI ISO 228/1

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart

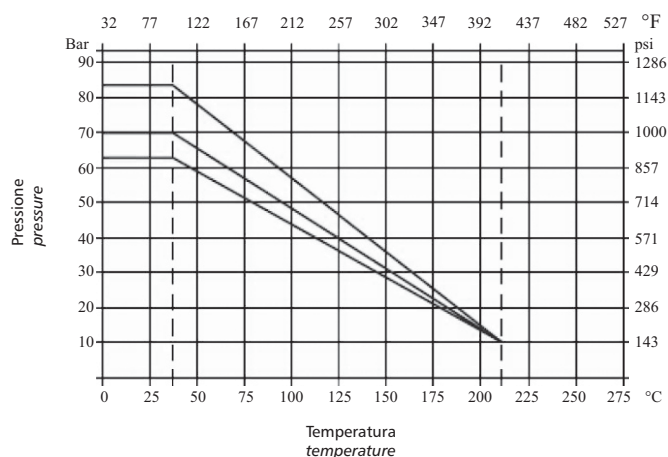
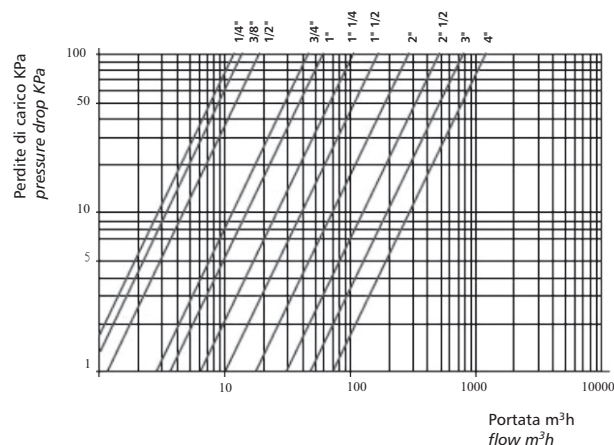


DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



COEFFICIENTE KW - kw factor

1/4"-11,6	3/8"-12,7	1/2"-15	3/4"-20	1"-25	1 1/4"-32	1 1/2"-40	2"-50	2 1/2"-65	3"-76	4"-94
16	18	20	45	60	100	170	265	510	790	1230

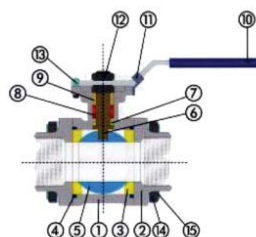
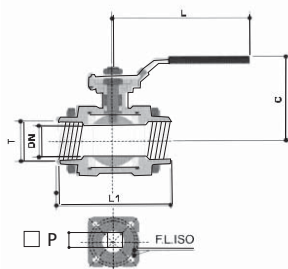
VALVOLE A SFERA UNIVERSALI INOX AISI 316 • universal ball valves INOX AISI 316

valvola a sfera universale a passaggio totale in tre pezzi INOX AISI 316, attacchi filettati gas F/F BSPT, flangia ISO 5211 - leva blu
three pieces full bore universal ball valve INOX AISI 316, threaded ends BSPT F/F, ISO 5211 mounting pad - blue lever

9325

CODE	T	DN	PN (Bar)	L	L1	C	F.L. ISO	□ P	Peso weight(g)	
9325TR14	R1/4"	11,0	85	117	48	62	F03/F04	9	380,0	1
9325TR38	R3/8"	12,7	85	117	48	63	F03/F04	9	380,0	1
9325TR12	R1/2"	15,0	85	117	55	68	F03/F04	9	420,0	1
9325TR34	R3/4"	20,0	85	135	74	72	F04/F05	11	820,0	1
9325TR1	R1"	25,0	85	135	81	75	F04/F05	11	1050,0	1
9325TR114	R1" 1/4"	32,0	70	203	91	90	F05/F07	14	1840,0	1
9325TR112	R1" 1/2"	40,0	70	203	103	95	F05/F07	14	2530,0	1
9325TR2	R2"	50,0	65	203	120	102	F05/F07	14	3520,0	1
9325TR212	R2" 1/2"	65,0	65	260	142	140	F07/F10	17	8800,0	1
9325TR3	R3"	80,0	65	260	182	162	F07/F10	17	12600,0	1
9325TR4	R4"	100,0	65	280	220	170	F07/F10	17	19450,0	1

AISI 316



N°	Denominazione • partname	Materiale • materials	Trattamento • treatment
1	Corpo - body	AISI 316	
2	Manicotto - body end	AISI 316	
3	Seggio - seat	caricato vetro PTFE PTFE 15% glassfiber	
4	Guarniz. corpo - body seat	PTFE	
5	Sfera - ball	AISI 316	
6	Asta - stem	AISI 316	
7	Rondella - seal	PTFE	
8	Guarniz. asta - stem seat	PTFE	
9	Premistoppa - packing nut	AISI 304	
10	Leva - lever	AISI 304	Rivest. PVC - plastic coated
11	Bloccaggio - locking	AISI 304	
12	Dado - nut	AISI 304	
13	Arresto - stop pin	AISI 304	
14	Dado - nut	AISI 304	
15	Bullone - bolt	AISI 304	

DATI TECNICI

Applicazioni impianti industriali, chimici ed alimentari
Pressione d'Esercizio da 1/4" a 1": 85 Bar
da 1" 1/4" a 1" 1/2": 70 Bar
da 2" a 4": 65 Bar
Temperatura d'Esercizio -40°C + 220°C
Filettatura d'Estremità UNI ISO 7/1 R

Technical specifications

applications industrial, chemical and food plants
working pressure from 1/4" to 1": 85 Bar
from 1" 1/4" to 1" 1/2": 70 Bar
from 2" to 4": 65 Bar
working temperature -40°C + 220°C
threaded ends UNI ISO 7/1 R

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart

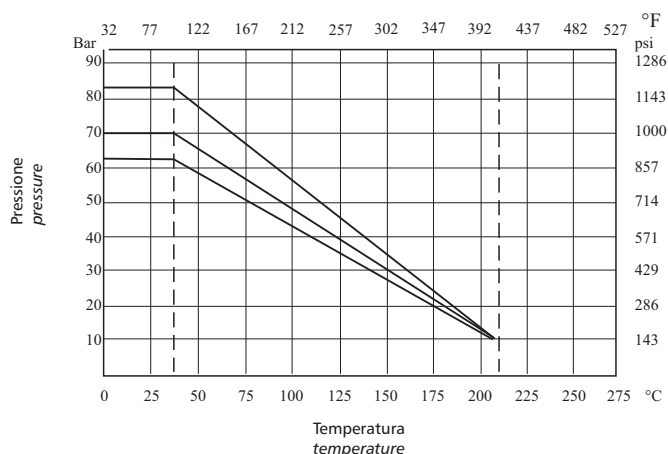
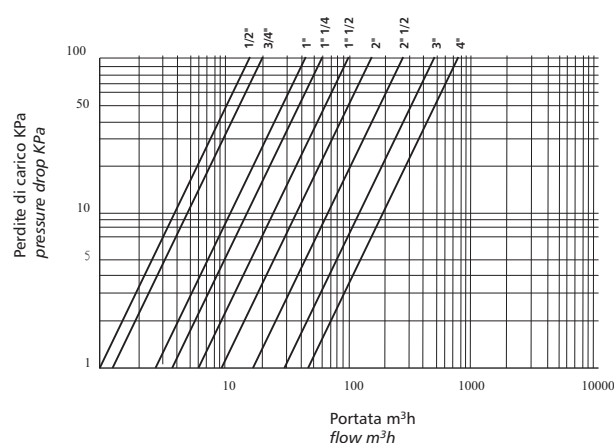


DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



COEFFICIENTE KW - kw factor

1/4"	3/8"	1/2"	3/4"	1"	1" 1/4"	1" 1/2"	2"	2" 1/2"	3"	4"
15	15	20	45	60	100	170	265	510	790	1230

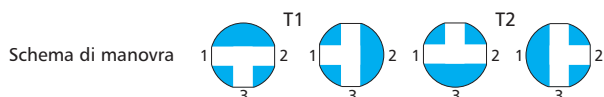
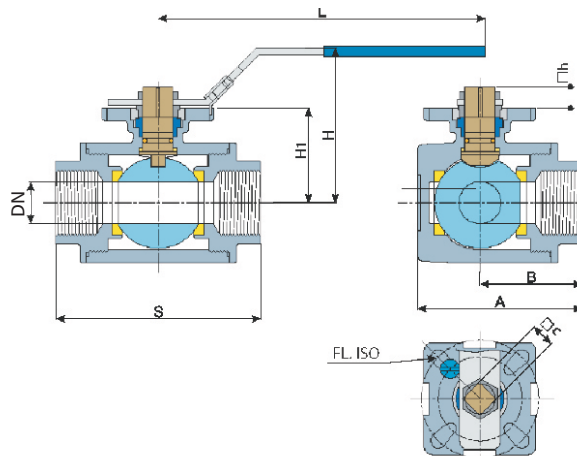
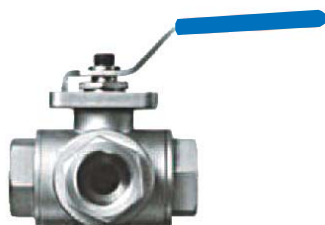
VALVOLE A SFERA UNIVERSALI INOX AISI 316 • universal ball valves INOX AISI 316

valvola a sfera universale a passaggio ridotto a tre vie INOX AISI 316, **SFERA FORATA A T**, attacchi filettati F/F/F BSPP, flangia ISO 5211
three ways reduced bore universal ball valve as **T PORT** INOX AISI 316, threaded ends BSPP F/F/F, ISO 5211 mounting pad

9340

CODE	T	DN	PN	S	A	B	H	H1	FL.ISO	□c	□h	Peso weight(g)	
9340TR14	G1/4"	9,5	63	75	57,5	37,5	66	36,8	F03/04	9	8,5	780,0	1
9340TR38	G3/8"	11	63	75	57,5	37,5	66	36,8	F03/04	9	8,5	770,0	1
9340TR12	G1/2"	12	63	75	57,5	37,5	66	36,8	F03/04	9	8,5	690,0	1
9340TR34	G3/4"	15	63	85	65,5	42,5	72	41,2	F04/05	11	11,0	1136,0	1
9340TR1	G1"	20	63	100	79,0	50,0	77	46,5	F04/05	11	12,0	1764,0	1
9340TR114	G1" 1/4"	25	63	122	97,0	61,0	92	56,0	F05/07	14	13,5	2780,0	1
9340TR112	G1" 1/2"	32	63	131	106,5	65,5	96	60,0	F05/07	14	13,5	4000,0	1
9340TR2	G2"	40	63	158	129,0	79,0	107	70,5	F05/07	14	13,0	6800,0	1

AISI 316

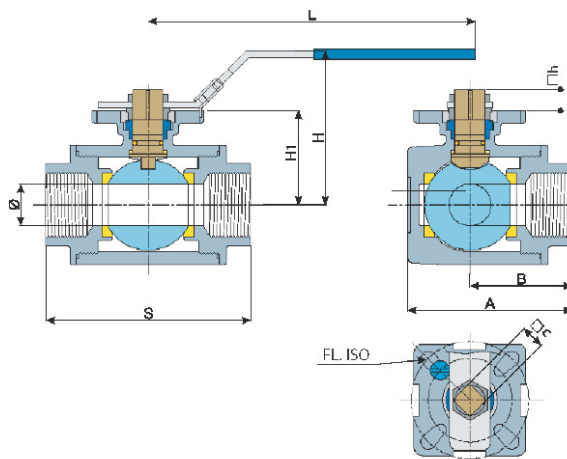
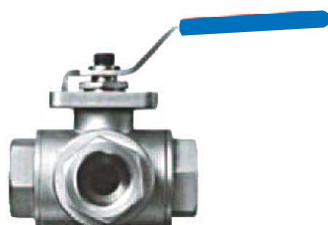


valvola a sfera universale a passaggio ridotto a tre vie inox AISI 316, **SFERA FORATA A L**, attacchi filettati F/F/F BSPP, flangia ISO 5211
three ways reduced bore universal ball valve as **L PORT** INOX AISI 316, threaded ends BSPP F/F/F, ISO 5211 mounting pad

9342

CODE	T	DN	PN	S	A	B	H	H1	FL.ISO	□c	□h	Peso weight(g)	
9342TR14	G1/4"	9,5	63	75	57,5	37,5	66	36,8	F03/04	9	8,5	780,0	1
9342TR38	G3/8"	11	63	75	57,5	37,5	66	36,8	F03/04	9	8,5	770,0	1
9342TR12	G1/2"	12	63	75	57,5	37,5	66	36,8	F03/04	9	8,5	690,0	1
9342TR34	G3/4"	15	63	85	65,5	42,5	72	41,2	F04/05	11	11,0	1136,0	1
9342TR1	G1"	20	63	100	79,0	50,0	77	46,5	F04/05	11	12,0	1764,0	1
9342TR114	G1" 1/4"	25	63	122	97,0	61,0	92	56,0	F05/07	14	13,5	2780,0	1
9342TR112	G1" 1/2"	32	63	131	106,5	65,5	96	60,0	F05/07	14	13,5	4000,0	1
9342TR2	G2"	40	63	158	129,0	79,0	107	70,5	F05/07	14	13,0	6800,0	1

AISI 316



Denominazione • partname	Materiale • materials
Corpo - body	AISI 316
Vie - ways	AISI 316
Sfera - ball	AISI 316
Asta - stem	AISI 316
Seggio - seat	PPL
Guarniz. asta - stem seat	PPL
Guarniz. corpo - body seat	PTFE
Leva - lever	AISI 304

DATI TECNICI

Applicazioni	impianti industriali, chimici ed alimentari
Pressione d'Esercizio	63 Bar
Temperatura d'Esercizio	-50°C +250°C
Filettatura d'Estremità	UNI ISO 228/1

Technical specifications

applications	industrial, chemical and food installations
working pressure	63 Bar
working temperature	-50°C +250°C
threaded ends	UNI ISO 228/1

VALVOLE A SFERA UNIVERSALI INOX AISI 316 • universal ball valves INOX AISI 316

valvola a sfera universale a corpo piatto flangiata PN16 INOX AISI 316 BSPP - leva blu
universal ball valve INOX AISI 316, flanged ends PN16 BSPP thread - blue lever

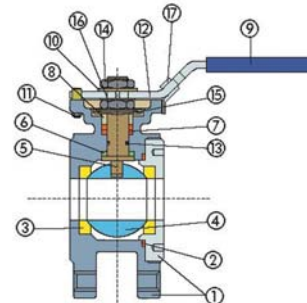
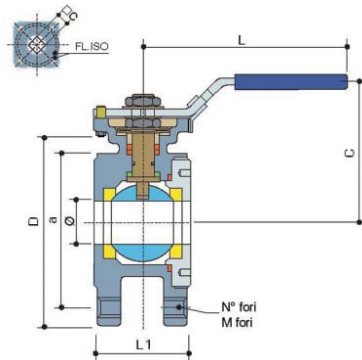
9350

CODE	DN	PN(Bar)	L	L1	D	a	C	N° Fori N° holes	M Fori M holes	FL-ISO	P	Ø Fori-holes	Peso weight(g)	
9350TR1	25	16	170	50	115	85	95	4	M12	F04/F05	11	42	2600,0	1
9350TR114	32	16	170	53	140	100	100	4	M16	F04/F05	11	42	2800,0	1
9350TR112	40	16	210	65	150	110	105	4	M16	F05/F07	14	50	4700,0	1
9350TR2	50	16	210	78	165	125	115	4	M16	F05/F07	14	50	6800,0	1
9350TR212	65	16	260	98	180	145	130	4	M16	F07/F10	17	70	10700,0	1
9350TR3	76	16	260	118	200	160	195	8	M16	F07/F10	17	70	14000,0	1
9350TR4	94	16	260	140	220	180	175	8	M16	F07/F10	17	102	24000,0	1

AISI 316



365



N°	Denominazione - partname	Materiale - materials	Trattamento - treatment
1	Corpo/Flangia - body/flange	AISI 316	
2	Guarnizione Corpo - body seal	PTFE	
3	Seggio - seat	PTFE caricato 15% vetro PTFE 15% glassfiber	
4	Sfera - ball	AISI316	
5	Asta - stem	AISI 316	
6	Rondella - seal	PTFE	
7	Guarniz. asta -stem seat	PTFE	
8	Premistoppa - packing nut	AISI 304	
9	Leva - lever	AISI 304	
10	Rondella - washer	AISI 304	Rivest.PVC - plastic coated
11	Dado - nut	AISI 304	
12	Arresto - stop pin	AISI 304	
13	O'ring	VITON	
14	Dado - nut	AISI 304	
15	Molla a tazza - belleville washer	AISI 301	
16	Rondella di fermo - tab washer	AISI 304	
17	Bloccaggio - locking		

DATI TECNICI

Applicazioni: impianti industriali, chimici ed alimentari
Pressione d' Esercizio: 16 Bar
Temperatura d'Esercizio: -20°C +220°C
Filettatura d'Estremità: UNI EN 1092/03
Flangia: ISO 5211

Technical specifications

applications: industrial, chemical and food installations
working pressure: 16 Bar
working temperature: -20°C +220°C
threaded ends: UNI EN 1092/03
top for actuator: ISO 5211

GRAFICO PRESSIONE/TEMPERATURA • pressure/temperature chart

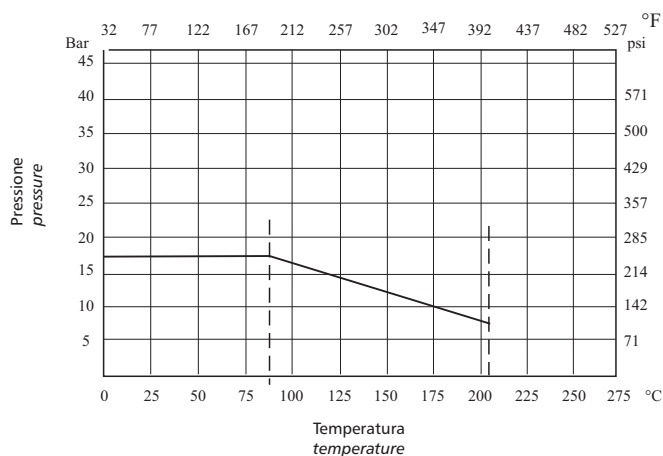
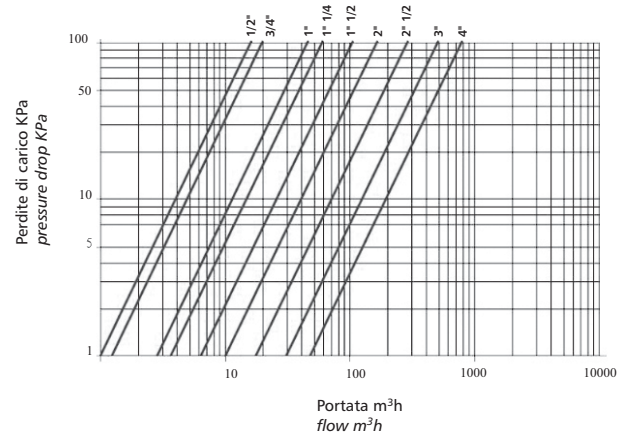
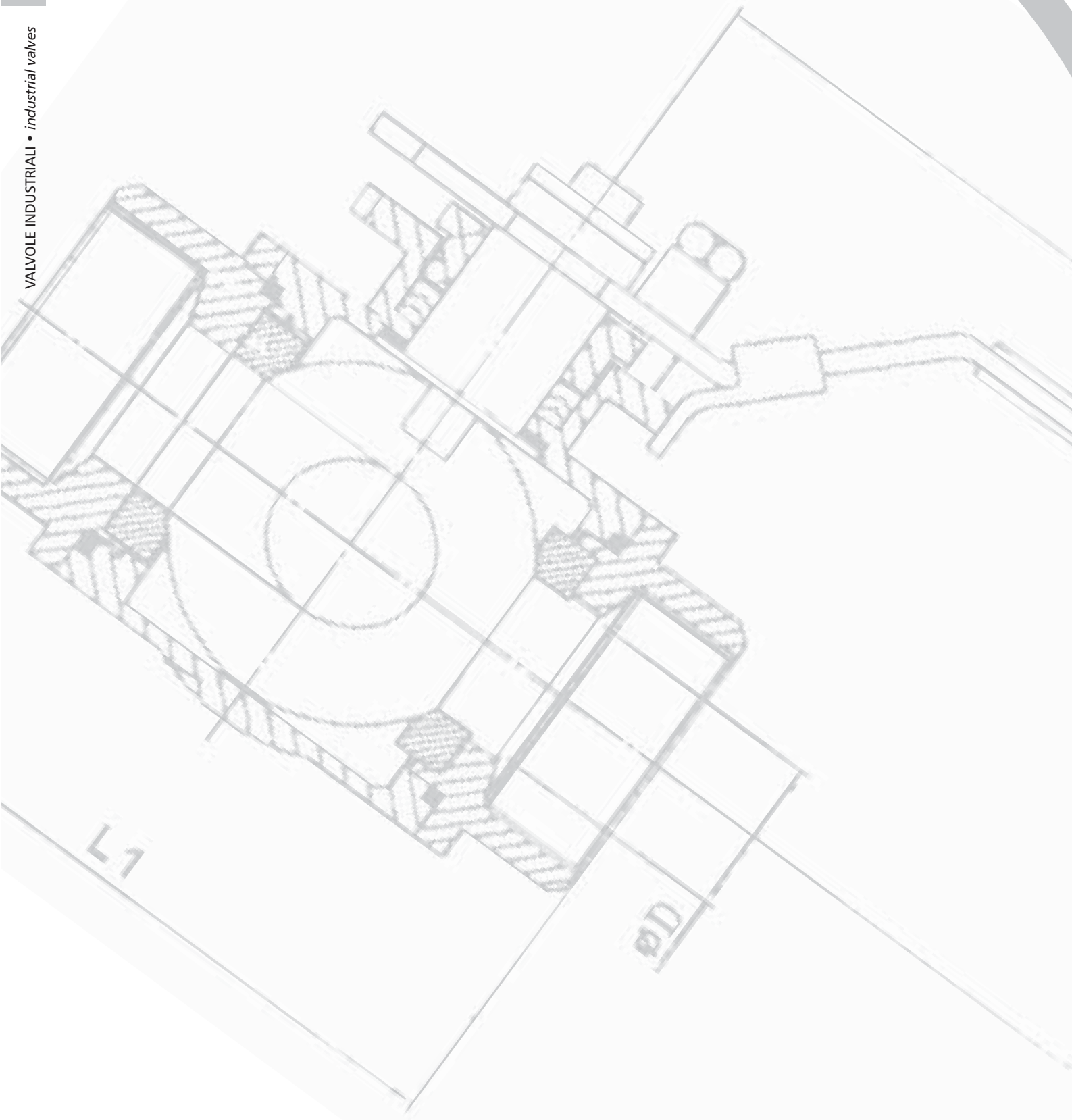


DIAGRAMMA PERDITE DI CARICO • flow & pressure drop chart



COEFFICIENTE KW - kw factor

DN 25	DN 32	DN 40	DN 50	DN 65	DN 76	DN 94
60	100	170	265	510	790	1230



NEW

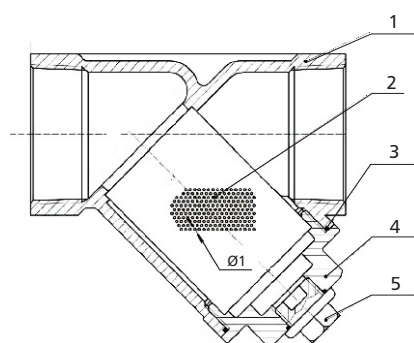
AISI 316

367

RACCOGLITORE D'IMPURITÀ INOX AISI 316 inline filter INOX AISI 316

DATI TECNICI

Applicazioni	impianti industriali, chimici e alimentari
Pressione max d'esercizio	40 Bar
Temperature d'esercizio	-20°C +200°C
Filetto	attacchi filettati gas F/F



Prodotti conformi alla direttiva 2002/95/EC **RoHS**

Prodotti conformi alla direttiva 1907/2006 

Technical specifications

applications	industrial, chemical and food installations
max working pressure	40 Bar
working temperature	-20°C +200°C
thread	threaded ends F/F

N°	Denominazione • partname	Materiale • materials
1	Corpo - body	CF8/CF8M
2	Filtro - filter	AISI 316
3	Guarnizione - gasket	PTFE
4	Tappo - plug	CF8/CF8M
5	Dado - nut	CF8/CF8M

products in compliance with the directive 2002/95/EC **RoHS**

products in compliance with the directive 1907/2006 

I dati tecnici e le quote non sono vincolanti • drawings and technical data are not binding

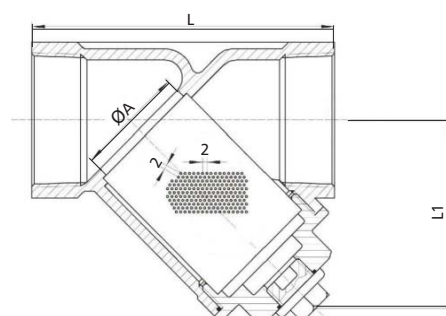
9400

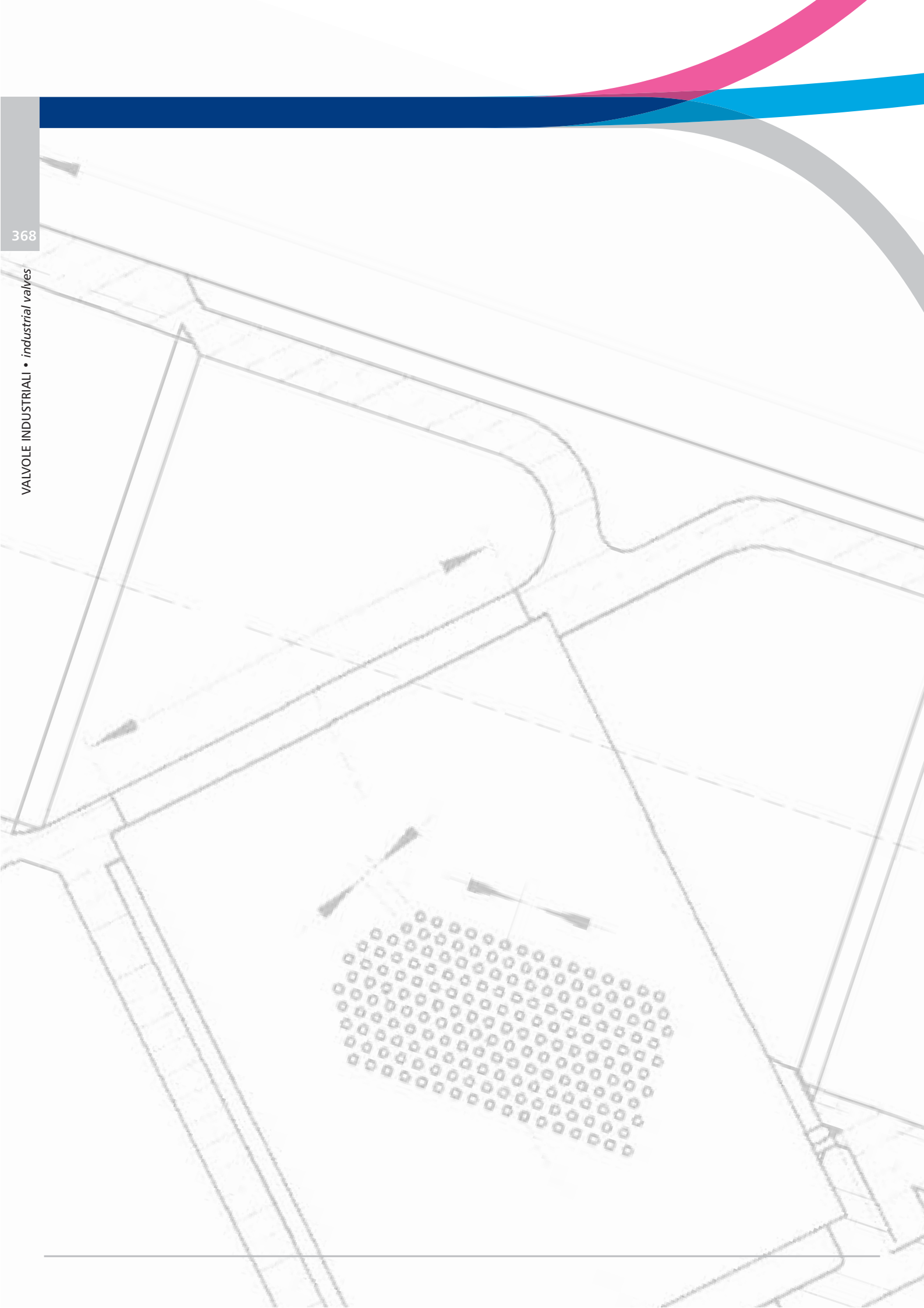
Filtro, attacchi filettati BSPP F/F • filter, threaded ends BSPP F/F

CODE	T	ØA	L	L1	
9400TR14	G1/4"	10	65	51	1
9400TR38	G3/8"	12	65	51	1
9400TR12	G1/2"	15	65	51	1
9400TR34	G3/4"	20	80	60	1
9400TR1	G1"	25	90	72	1
9400TR114	G1"-1/4"	32	105	77	1
9400TR112	G1"-1/2"	40	120	87	1
9400TR2	G2"	50	140	103	1

AISI 316

NEW





VALVOLE A SPILLO INOX AISI 316 *needle valves inox AISI 316*

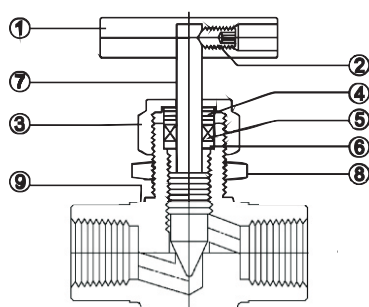
DATI TECNICI

Applicazioni	strumentazione industriale, impianti di processo, applicazioni idrauliche e pneumatiche.
Pressione d'esercizio	340 Bar (5000 PSI) vedere la tabella sotto
Temperature d'esercizio	-54°C +232°C
Caratteristiche	possibilità di montaggio a pannello corpo forgiato e dimensioni ridotte

Technical specifications

<i>applications</i>	<i>industrial instrumentation, process equipments, hydraulic and pneumatic applications</i>
<i>working pressure</i>	<i>340 Bar (5000 PSI) see the table below</i>
<i>working temperature</i>	<i>-54°C +232°C</i>
<i>advantages</i>	<i>panel mounting possibility forged body & miniaturized size</i>

temperatura (°C) temperature (°C)	-54 +38	39/93	94/148	149/176	177/204	205/232
Pressione massima d'esercizio max working pressure	340 (Bar) 5000 (PSI)	292 (Bar) 4295 (PSI)	264 (Bar) 3875 (PSI)	254 (Bar) 3715 (PSI)	242 (Bar) 3560 (PSI)	234 (Bar) 3435 (PSI)



N°	Denominazione - partname	Materiale - materials
1	Maniglia - bar handle	AISI 316
2	Vite di serraggio - set screw	AISI 316
3	Dado - packing nut	AISI 316
4	Premistoppa superiore - upper gland	AISI 316
5	Guarnizione di tenuta - packing	PTFE
6	Premistoppa inferiore - lower gland	AISI 316
7	Asta - stem	AISI 316
8	Dado passaparete - panel nut	AISI 316
9	Corpo forgiato - forged body	AISI 316

Prodotti conformi alla direttiva 2002/95/EC **RoHS**
products in compliance with the directive 2002/95/EC **RoHS**

Prodotti conformi alla direttiva 1907/2006


products in compliance with the directive 1907/2006

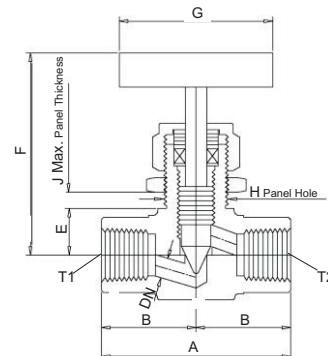
I dati tecnici e le quote non sono vincolanti • *drawings and technical data are not binding*

valvola a spillo con corpo forgiato e dimensioni ridotte filetto BSPP
needle valve with forged body & miniaturized sizes BSPP thread

XNV

CODE	T1	T2	DN	flow Cv	A (mm)	B (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	
XNVG01	G1/8"	G1/8"	4,4	0,37	42,0	21,0	11,2	52,3	32,0	13,5	4,2	1
XNVG02	G1/4"	G1/4"	6,4	0,73	54,0	27,0	14,0	57,0	38,0	19,8	6,4	1
XNVG03	G3/8"	G3/8"	6,4	0,73	54,0	27,0	14,0	57,0	50,0	19,8	6,4	1
XNVG04	G1/2"	G1/2"	9,5	1,80	76,2	38,1	19,1	100,0	50,0	26,2	6,4	1

AISI 316



valvola a spillo con corpo forgiato e dimensioni ridotte filetto NPT
needle valve with forged body & miniaturized sizes NPT thread

XNV-N

CODE	T1	T2	DN	flow Cv	A (mm)	B (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	
XNVN02	N1/4"	N1/4"	6,4	0,73	54,0	27,0	14,0	57,0	38,0	19,8	6,4	1
XNVN04	N1/2"	N1/2"	9,5	1,80	76,2	38,1	19,1	100,0	50,0	26,2	6,4	1

AISI 316

