

ALFA 10N/10NF

PN 10-40/ANSI 150-300

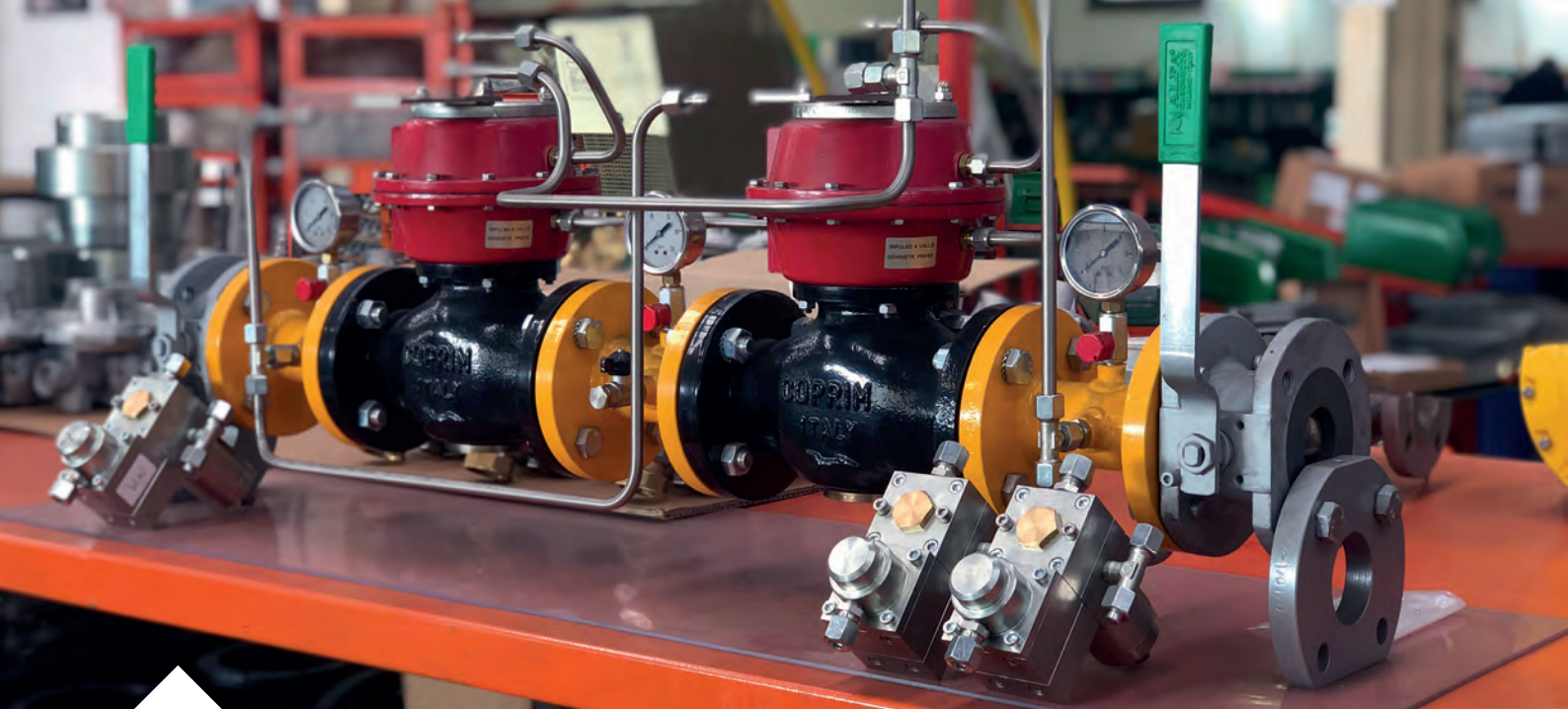
ALFA 10H.P.

PN 63-100/ANSI 600

ALFA 11N/11NF

PN 10-40/ANSI 150-300





CERTIFICATIONS / CERTIFICAZIONI



UNI EN ISO 9001:2015
Cert. Nr. 50 100 6417



Cert. Nr. ADR/RID/ADN-T-AFV
002/004-17-ITA



M.O.C.A. (EC) 1935/2004
(CE) No. 2023/2006



- TA-Luft Certificate
- Fugitive emission ISO 15848-1 & 2



FIRE SAFE API 6FA/API
607 & ISO 10497



TR-CU-10, TR-CU-12 and TR-CU-32
(New GOST) certified for Russian
market



ATEX certified by TÜV



CE Marking (Module H, Category III)
in accordance with PED 2014/68/EU
certified by TÜV



SIL (Safety integrity level)
certified by TÜV



Canadian Registration Number (CRN)
for Canadian market

LEGAL NOTES / NOTE LEGALI



Supplied temperature and pressure data and other performance information mentioned in this catalogue have been developed from our design calculation and internal test. The data are useful only to cover the standard application as per guidelines for Alfa Valvole products users inside this catalogue.

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Questa edizione annulla e sostituisce tutti i numeri precedenti.

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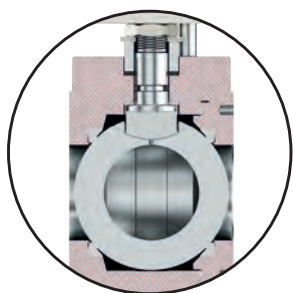
STANDARD FEATURES

--- Caratteristiche standard

- Face to face / Scartamento : EN 558-1 SERIE 100
- Design according to / Progettazione secondo : ASME B16.34, EN 12516-1, PED 2014/68/UE
- Tightness class / Classe di tenuta : Grade A (Zero Leakage) acc. EN 12266-1
- Flange Facing, RF according / Finitura Flange, RF secondo : EN 1092-1, PN 06-100 / ASME B16.5, ANSI 150-600
- Flange drilling, metric holes according / Foratura flange, fori metrici secondo : EN 1092-1, PN 10-100 / ASME B16.5, ANSI 150-600

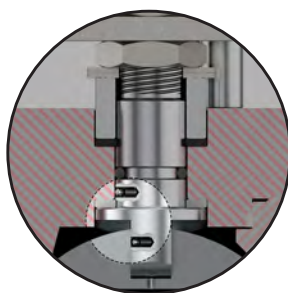
STANDARD EXECUTIONS

--- Esecuzioni standard



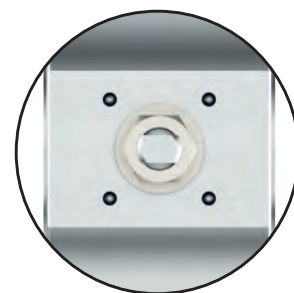
CONTAINED BALL INTO THE BODY LENGTH / SFERA CONTENUTA NELLO SCARTAMENTO VALVOLA

No protrusion of the ball over the valve length also in closed position / La sfera anche in posizione di chiusura rimane all'interno dello scartamento valvola



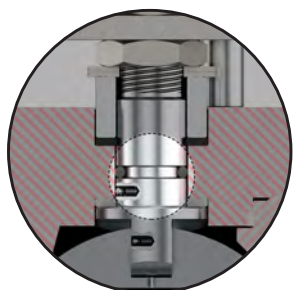
ANTISTATIC DEVICE ACCORDING / DISPOSITIVO ANTISTATICO IN AC- CORDO A : API6D - ATEX 2014/34/UE

2 spring loaded balls guarantees electrical continuity between all metallic components of the valve / Garantisce continuità elettrica tra i componenti metallici della valvola grazie a due sfere posizionate sullo stelo



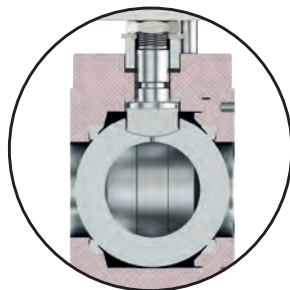
ISO 5211 TOP MOUNTING

Valve top flange is machined for actuator assembly according to ISO 5211 / Foratura premistoppa per montaggio comando secondo normativa ISO 5211

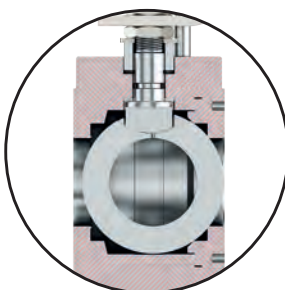


STEM O'RING / O'RING STELO

Maximum tightness from stem packing minimizing Fugitive Emissions (valve certified TA-LUFT e Fugitive Emissions EN 15848-1/-2) / Garantisce la tenuta ottimale dallo stelo minimizzando le emissioni in atmosfera, rendendo le valvole certificate TA-LUFT e Fugitive Emissions EN 15848-1/-2



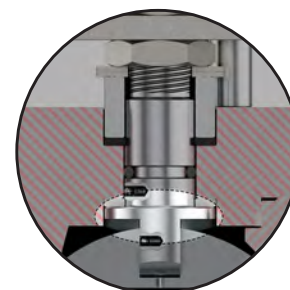
Before fire



After fire

FIRE SAFE GASKET CONFIGURATION / CONFIGURAZIONE FIRE SAFE

Materials, gaskets and sealing tested and certified according to EN10497, API6FA, API607 standards / Materiali, guarnizioni e tenute testate e certificate secondo norme EN ISO 10497, API 6FA, API 607



ANTI BLOW-OUT STEM DESIGN / STELO ANTIESPULSIONE

In case of overpressure inside the valve it avoid the stem expulsion and the breakage of the operating element / Evita l'espulsione dello stelo in caso di sovrappressione all'interno della valvola e la rottura dell'elemento di manovra



PRODUCT LINE

Linea prodotti

PRODUCT	CODE	TYPE						SIZE RANGES				RATING								MATERIALS			
		WAFER	3 PIECES	2 PIECES SCREWED BODY	FLANGED	3 WAY	TRUNNION	NPS 1/4 - 2 (DN 6 -50)	NPS 2 1/4 - 2 (DN 65-100)	NPS 5-8 (DN 125-200)	NPS 10-24 (DN 250-600)	PN 06	ANSI 150 (PN 10-16)	ANSI 300 (PN 25-40)	ANSI 600 (PN 63-100)	ANSI 900	ANSI 1500	ANSI 2500	800/1500 LBS	PN 63 (1000 PSI)	CARBON STEEL	STAINLESS STEEL	OTHER MATERIALS
A10N - NF	A1N																						
A10 HP	A1H																						
A10 HP	A1J																						
A10 CALL	A1C/D																						
A10 VAG	A1V																						
A20T	A2T																						
A22 EV	A2D																						
K20 T	K2T																						
A24K	A24																						
A60P/A64P	A6P																						
A50	A50																						
A54	A54																						
A60	A60																						
A64	A64																						
A68	A68																						
A606	A6S																						
A609/615	A6Q																						
A625	A6V																						
A30	A30																						
A32	A32																						
A103	AC3																						
A104	AC4																						
A103/4	ACT																						
T2 FB	AT2																						
T2 RB	AT4																						
T3 FB	AT3																						
T3 RB	AT6																						

MAIN FEATURES

Caratteristiche principali

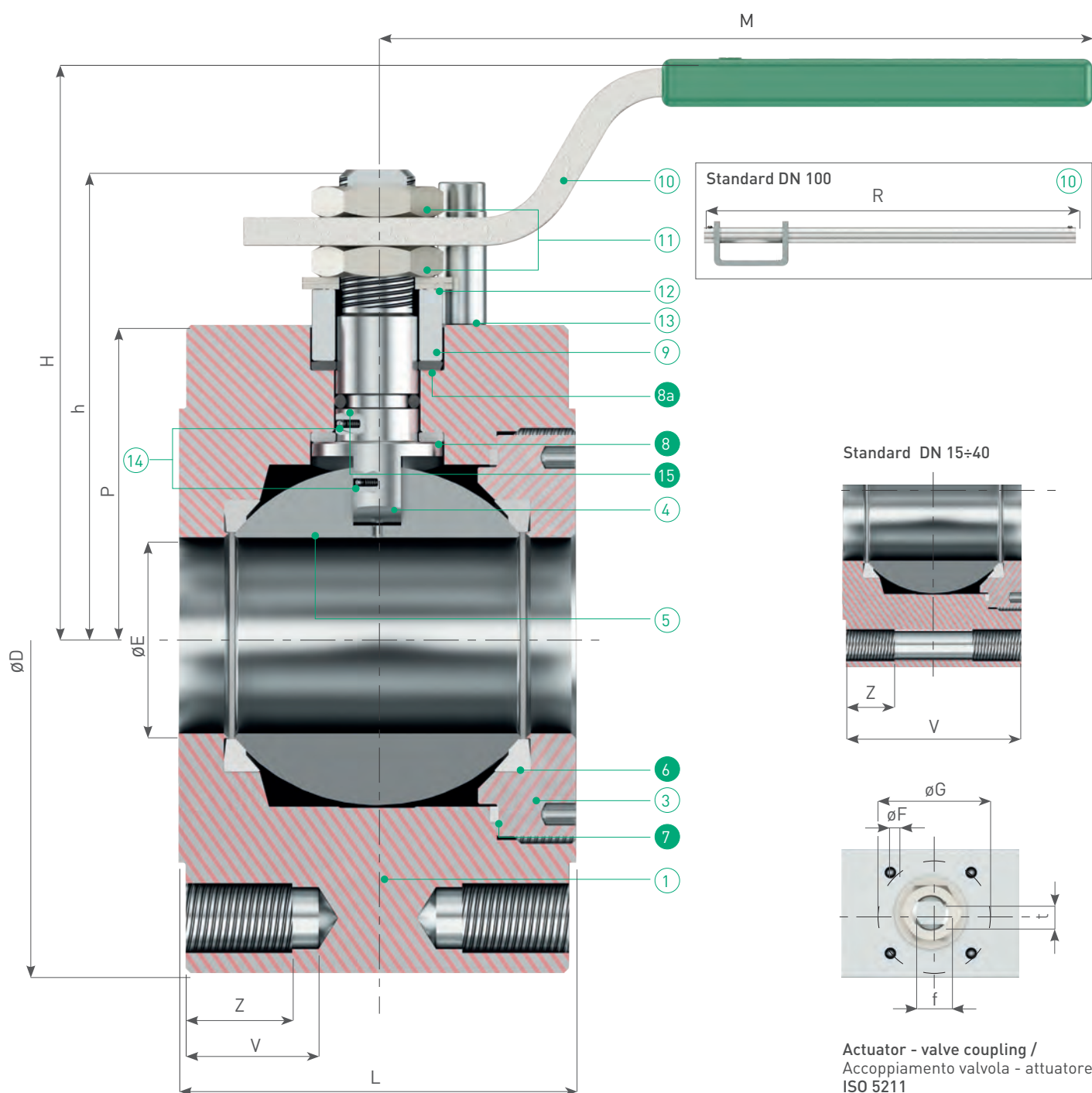
- **Compact design** / Dimensioni compatte
- **Simple and strong design** / Design semplice ed affidabile
- **Wide range of application, industries and medium** / Versatilità d'uso su differenti fluidi, industrie e applicazioni
- **Size Range** / Range di dimensioni : $\frac{1}{2}" \leq \varnothing \leq 8"$ / $15 \leq DN \leq 200$
- **Pressure range** / Range di pressioni : PN 06 -100 / ANSI 150 - 600
- **Temperature range** / Temperatura : -40°C (Stainless Steel) -29°C (Carbon Steel) $\leq T \leq 200^{\circ}\text{C}$ (standard execution)
- **Available in different materials (bar stock or casting)** / Disponibilità in diversi materiali, sia da fusione che da barra
- **Per dettagli vedi diagrammi per diversi diametri e temperatura** / For details see diagrams for different diameters and temperature

CERTIFICATIONS								INDUSTRY								CODE	PRODUCT			
PED (DN > 25)	T PED	TA LUFT (fugitive emission)	MOCA	API 6D	FIRE TESTED	SIL	ATEX	POWER	OIL AND GAS UPSTREAM	REFINING AND PETROCHEMICAL	CHEMICAL	LNG AND CRYOGENIC	MARINE AND NAVY	HVAC	WATER AND WASTEWATER	PHARMACEUTICAL	RAIL AND ROAD. TRANSPORTATION	FOOD INDUSTRY		
																			A1N	A10N - NF
																			A1H	A10 HP
																			A1J	A10 HP
																			A1C/D	A10 CALL
																			A1V	A10 VAG
																			A2T	A20T
																			A2D	A22 EV
																			K2T	K20 T
																			A24	A24K
																			A6P	A60P/A64P
																			A50	A50
																			A54	A54
																			A60	A60
																			A64	A64
																			A68	A68
																			A6S	A606
																			A6Q	A609/615
																			A6V	A625
																			A30	A30
																			A32	A32
																			AC3	A103
																			AC4	A104
																			ACT	A103/4
																			AT2	T2 FB
																			AT4	T2 RB
																			AT3	T3 FB
																			AT6	T3 RB

ALFA 10N

PN 10-40 | ANSI 150

wafer type ball valve



ALFA 10N

PN 10-40 I ANSI 150

Standard valve materials / Materiali costruzione valvola standard

		PART NAME PARTICOLARE	Q.TY Q.TA'	MATERIALS MATERIALI	
1		body / corpo	1	ASTM A105	ASTM A479 316/316L
3		closure / chiusura	1	ASTM A105	ASTM A479 316/316L
4		stem / stelo	1	ASTM A479 F316/316L*	ASTM A479 F316/316L
5		ball / sfera	1	ASTM A351 CF8*	ASTM A351 CF8M
6		seats / sedi	2	TFM	
7		body gasket / guarnizione corpo	1	P.T.F.E	
8		washer / bussola	1	P.T.F.E	
8a		stem gasket / guarnizione stelo	2	GRAPHOIL	
9		gland / premiguarnizione	1	Carbon steel zinc coated	Stainless Steel 316
10		lever / leva	1	Carbon steel zinc coated	
11		stem nut / dado stelo	2	Cl.8 Zinc coated	A4-40 (AISI 316)
12		spring washer / molla a tazza	2	51 CrV4 Zinc coated	AISI 301
13		stop device / dispositivo di arresto	1	Cl. 8.8 Zinc coated	AISI 316
14		antistatic device / dispositivo antistatico	2	AISI 316	
15		stem o-ring / o-ring stelo	1	VITON 75 Sh. A	

Spares parts / Parti di ricambio

* Until DN40 Included: ball CF8M, stem 316 / Fino a DN40 incluso: sfera CF8M, stelo 316

* From DN50 to DN100 included: ball CF8, stem 316 / Da DN50 a DN100 incluso: sfera CF8, stelo 316

DIMENSIONS / DIMENSIONI

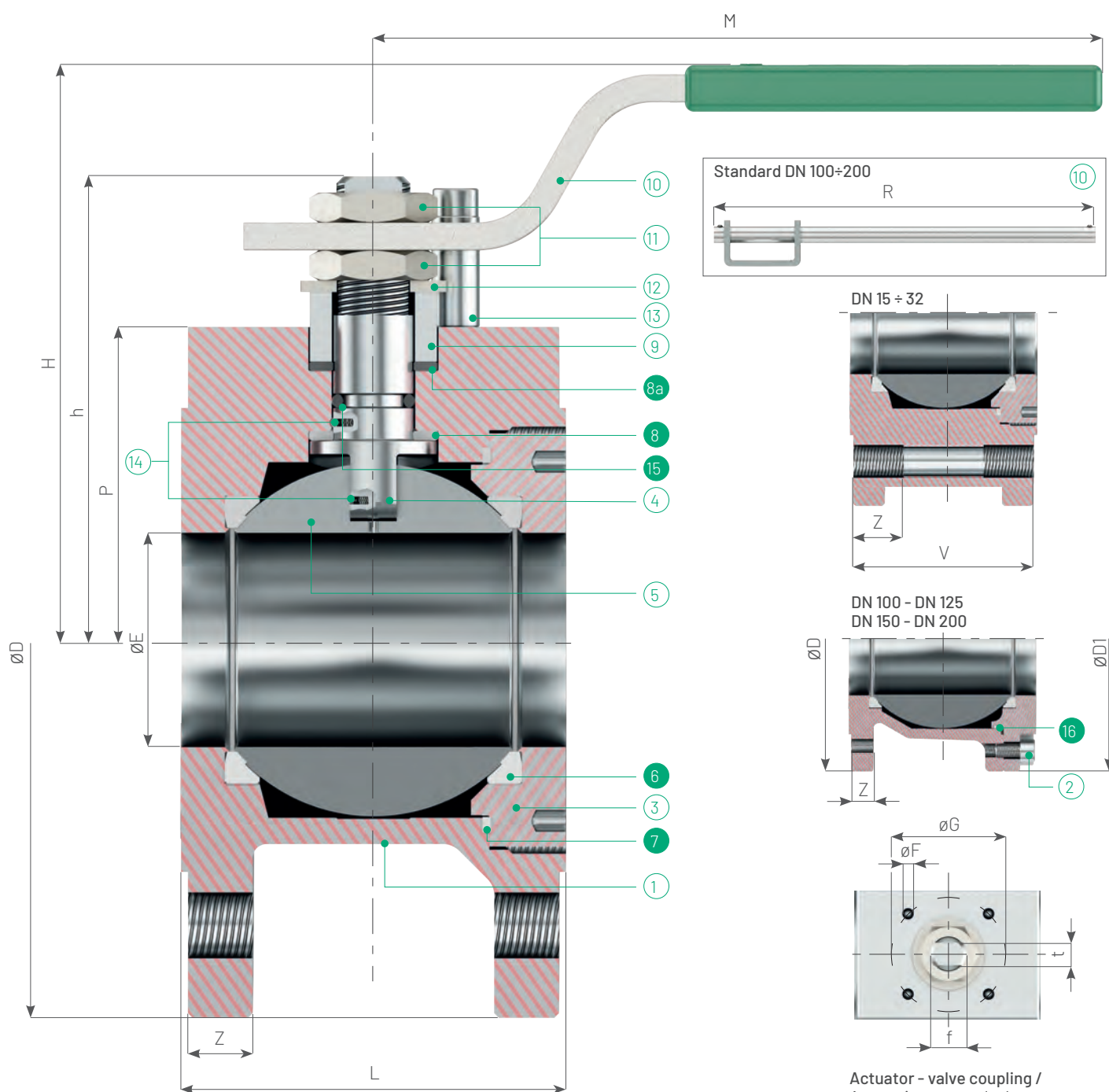
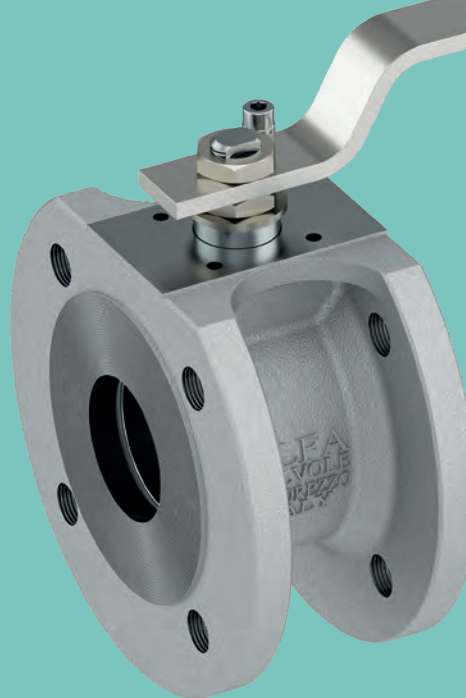
	DN	15	20	25	32	40	50	65	80	100	125	150	200
	ø	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
	ø E	14	19	24	29	38	48	64	76	95	SEE / VEDERE ALFA 10NF		
	L	36	39	43	51	63	83	107	120	152			
	M/R	150/-	150/-	185/-	185/-	275/-	275/-	380/-	380/-	440/500			
	H	84	87	95	99	118	126	143	149	200/185			
	h	52	54	69	72	95	101	122	127	151			
	P	33	36	43	48	63	68,5	82	88,5	101,5			
	f/t	10/6	10/6	12/8	12/8	16/10	16/10	22/14	22/14	30/18			
	Kg.	1,6	2	2,6	4,2	6,5	9,2	17,8	20,5	34			
	ISO 5211	F03	F03	F03	F03	F05	F05	F07	F07	F10			
	ø F	M5	M5	M5	M5	M6	M6	M8	M8	M10			
	ø G	36	36	36	36	50	50	70	70	102			
	V	34*	37*	40*	48*	60	32	33	35	31			
	Z	34*	37*	40*	48*	24	24	24	26	21			
	ø D	88	98	108	128	138	148	178	188	218			
VALVOLA PN	N° FORI	4	4	4	4	4	4	4	8	8			
	ø FORI	M12	M12	M12	M16	M16	M16	M16	M16	M16			
VALVOLA ANSI	N° FORI	4	4	4	4	4	4	4	4	8			
	ø FORO METR.	M14	M14	M14	M14	M14	M16	M16	M16	M16			
	ø FORO UNC	1/2"	1/2"	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"			

* Full threaded holes / Fori passanti filettati

ALFA 10NF

PN 10-40 | ANSI 150

wafer type ball valve



ALFA 10NF

PN 10-40 I ANSI 150

Standard valve materials / Materiali costruzione valvola standard

		PART NAME PARTICOLARE	Q.TY Q.TA'	MATERIALS MATERIALI
1		body / corpo	1	ASTM A216 WCB
2		screw / vite	8/12	C.I.8.8
3		closure / chiusura	1	ASTM A216 WCB
4		stem / stelo	1	ASTM A479 F316/316L *
5		ball / sfera	1	ASTM A351 CF8 *
6		seats / sedi	2	TFM
7		body gasket / guarnizione corpo	1	P.T.F.E./GRAPHOIL (DN≥100)
8		washer / bussola	1	P.T.F.E.
8a		stem gasket / guarnizione stelo	2	GRAPHOIL
9		gland / premiguarnizione	1	Carbon steel zinc coated
10		lever / leva	1	Carbon steel zinc coated
11		stem nut / dado stelo	2	Cl.8 Zinc coated
12		spring washer / molla a tazza	2	51 CrV4 Zinc coated
13		stop device / dispositivo di arresto	1	Cl. 8.8 Zinc coated
14		antistatic device / dispositivo antistatico	2	AISI 316
15		stem o-ring / o-ring stelo	1	VITON 75 Sh. A
16		body o-ring (DN ≥100) / o-ring corpo	1	P.T.F.E.

Spares parts / Parti di ricambio

* Until DN40 Included: ball CF8M, stem 316 / Fino a DN40 incluso: sfera CF8M, stelo 316

* From DN50 to DN200 included: ball CF8, stem 316 / Da DN50 a DN200 incluso: sfera CF8, stelo 316

DIMENSIONS / DIMENSIONI

	DN	15	20	25	32	40	50	65	80	100	125	150	200
	ø	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
	ø E	14	19	24	29	38	48	64	76	95	118	152	203
	L PN10/16	36	39	43	51	63	83	107	120	152	180	243	314
	L ANSI 150									N/A	210	255	314
	L PN 25/40												
	M/R	150/-	150/-	185/-	185/-	275/-	275/-	380/-	380/-	440/500	440/500	-/800	-/800
	H	84	87	95	99	118	126	143	149	200/185	210/200	273	322
	h	52	54	69	72	95	101	122	127	151	167	220	270
	P	33	36	43	48	63	68,5	82	88,5	103	122	153	200
	f/t	10/6	10/6	12/8	12/8	16/10	16/10	22/14	22/14	30/18	30/18	45/30	52/30
	Kg.	1.2	1,6	2,2	3	4,8	6,6	11	13,6	24,2	35,6	74	132
	ISO 5211	F03	F03	F03	F03	F05	F05	F07	F07	F10	F10	F14	F14
	ø F	M5	M5	M5	M5	M6	M6	M8	M8	M10	M10	M16	M16
	ø G	36	36	36	36	50	50	70	70	102	102	140	140
	V	34*	37*	40*	48*	-	-	-	-	-	-	-	-
	Z	34*	37*	40*	48*	13	14	15,5	15	18	22	23,5	26
VALVOLA PN	ø D/ø D1	90	100	105	125	148	165	185	200	218/218	252/252	284/305	340/380
	N° FORI	4	4	4	4	4	4	4	8	8	8	8	12
	ø FORI	M12	M12	M12	M16	M16	M16	M16	M16	M16	M16	M20	M20
VALVOLA ANSI	N° FORI	4	4	4	4	4	4	4	4	8	8	8	8
	ø FORO METR.	M14	M14	M14	M14	M14	M16	M16	M16	M16	M20	M20	M20
	ø FORO UNC	1/2"	1/2"	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	3/4"	3/4"	3/4"

* Full threaded holes / Fori passanti filettati

ASSEMBLY CONFIGURATIONS

Varianti di montaggio

SCREW MOUNTING / MONTAGGIO VITI

Removing one of 2 pipes, valve remains installed and in operation

Smontando una delle tubazioni, la valvola rimane installata e funzionante

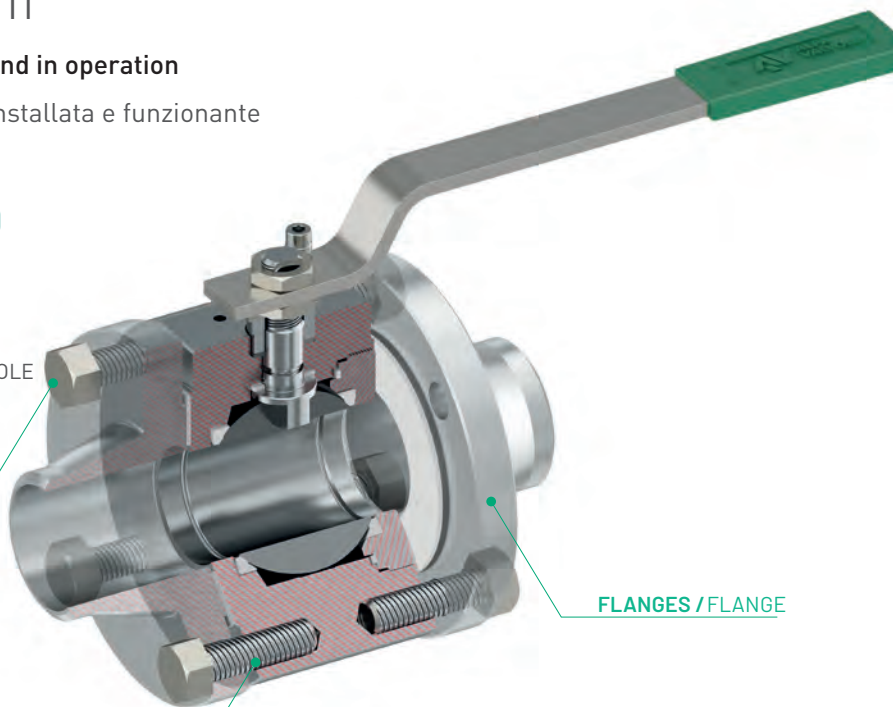
APPLICABLE TO / APPLICABILE A
ALFA 10N PN 10-40 | ANSI 150 / 300
ALFA 10NF PN 10-40 | ANSI 150
ALFA 10H.P. PN 63-100 | ANSI 600

STANDARD FOR ALL VALVES / STANDARD PER TUTTE LE VALVOLE

HEX BOLTS/VITI TE

THREADED HOLES /
FORI FILETTATI

FLANGES / FLANGE



BOTTOM TANK ASSEMBLY only in request / MONTAGGIO FONDO SERBATOIO solo su richiesta

Stay bolt machining / Lavorazione per montaggio prigionieri

Removing the pipe on downstream side, valve remains installed and in operation

Smontando la tubazione a valle, la valvola rimane installata e funzionante

APPLICABLE TO / APPLICABILE A
ALFA 10N PN 10-40 | ANSI 150
ALFA 10NF PN 10-40 | ANSI 150

APPLICABLE VALVES / VALVOLE APPLICABILI

DN	PN 16 / ANSI 150		ANSI 300	
	A1NF	A1N	A1NF	A1N
15				
20				
25				
32				
40				
50				
65				
80				*
100		*		

SPECIAL MACHINED HOLES /
FORI PER MONTAGGIO PRIGIONIERI

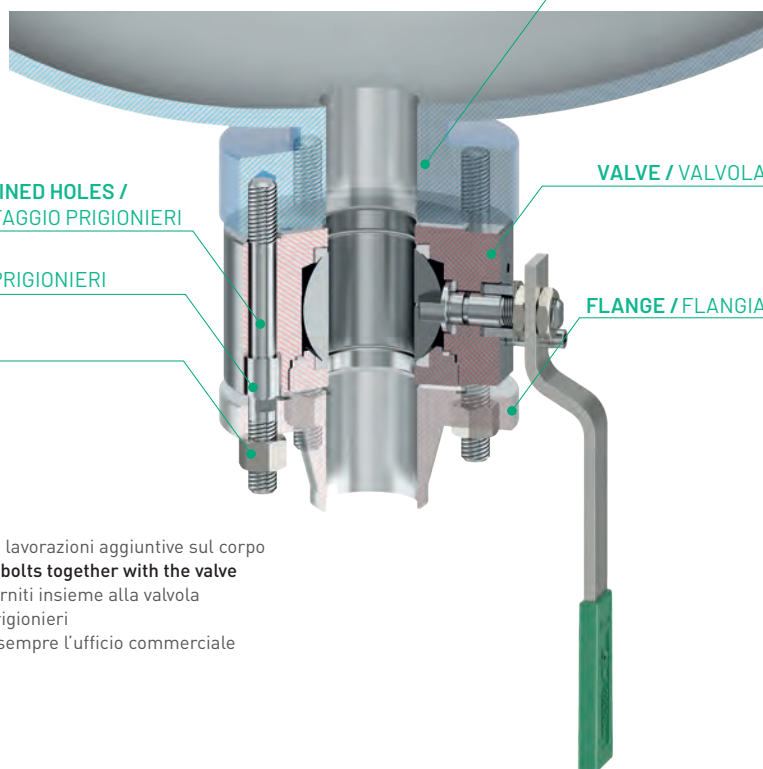
STAY BOLTS / PRIGIONIERI

NUTS / DADI

VESSEL / SERBATOIO

VALVE / VALVOLA

FLANGE / FLANGIA



* Drilling needs additional machining on the body / La foratura comporta lavorazioni aggiuntive sul corpo

Valve machining for long bolt mounting requires supply of special long bolts together with the valve

La lavorazione per prigionieri richiede l'utilizzo di prigionieri speciali, forniti insieme alla valvola

* Valve purchasable only with long bolt / Valvola acquistabile solo con i prigionieri

* For feasibility always contact the sales dept. / Per fattibilità contattare sempre l'ufficio commerciale

STUD BOLT MOUNTING / MONTAGGIO TIRANTI

Removing one of 2 pipes, valve DOESN'T remains installed

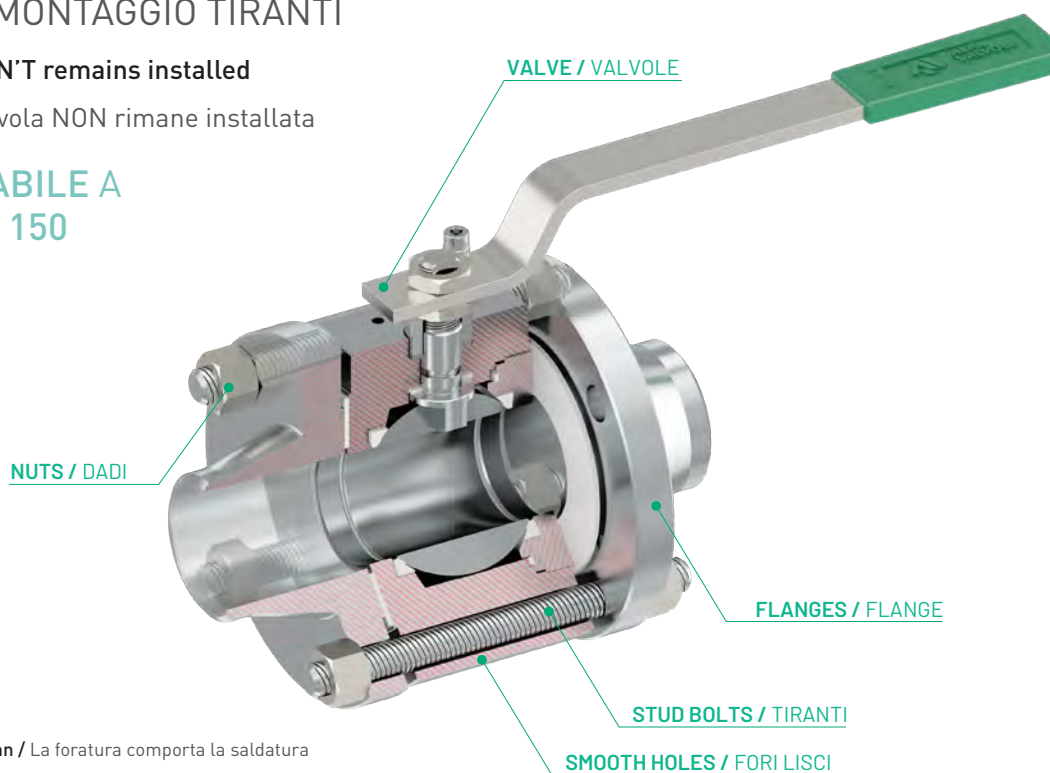
Smontando una delle tubazioni, la valvola NON rimane installata

APPLICABLE TO / APPLICABILE A
ALFA 10N PN 10-40 | ANSI 150

APPLICABLE VALVES / VALVOLE APPLICABILI

DN	PN 16		ANSI 150	
	A1NF	A1N	A1NF	A1N
15				
20				
25				
32				
40				
50				
65				
80				
100		*		*

* Drilling needs the welding of one flange on ISO plan / La foratura comporta la saldatura di una flangia sul piano ISO



BOTTOM TANK ASSEMBLY / MONTAGGIO FONDO SERBATOIO

Body smooth holes machining / Lavorazione fori lisci lato corpo

Removing the pipe on downstream side, valve remains installed and in operation

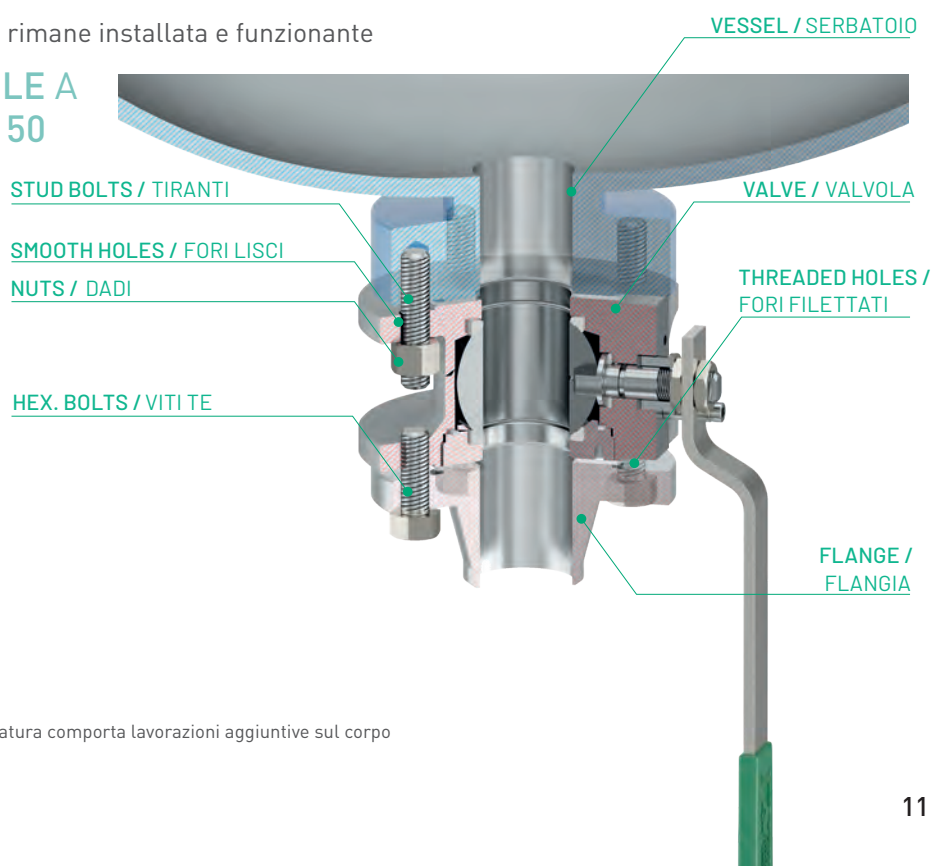
Smontando una delle tubazioni, la valvola rimane installata e funzionante

APPLICABLE TO / APPLICABILE A
ALFA 10NF PN 10-40 | ANSI 150

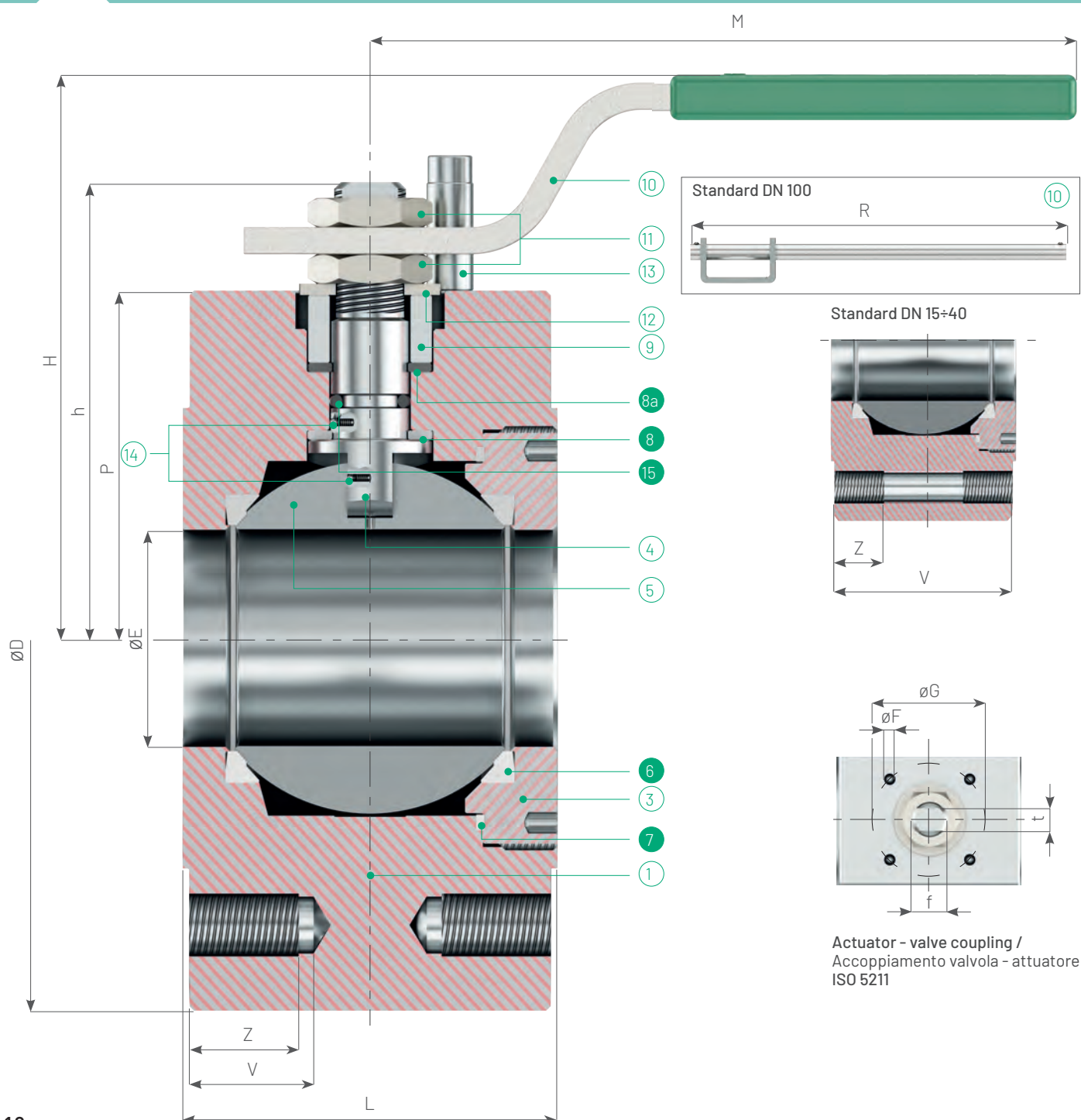
APPLICABLE VALVES / VALVOLE APPLICABILI

DN	PN 16		ANSI 150	
	A1NF	A1N	A1NF	A1N
15				
20				
25				
32				
40	*		*	
50				
65				
80				
100				
125				
150				
200	*		*	

* Drilling needs additional machining on the body / La foratura comporta lavorazioni aggiuntive sul corpo



ALFA 10N ANSI 300 wafer type ball valve



ALFA 10N

ANSI 300

Standard valve materials / Materiali costruzione valvola standard

		PART NAME PARTICOLARE	Q.TY Q.TA'	MATERIALS MATERIALI	
1		body / corpo	1	ASTM A105	ASTM A479 316/316L
2		screw / vite	8	Cl. 8.8 Zinc.	A4-70 (AISI 316)
3		closure / chiusura	1	ASTM A105	ASTM A479 316/316L
4		stem / stelo	1	ASTM A479 F316/316L *	ASTM A479 F316/316L
5		ball / sfera	1	ASTM A351 CF8 *	ASTM A351 CF8M
6		seats / sedi	2	TFM	
7		body gasket / guarnizione corpo	1	P.T.F.E./GRAPHOIL (DN≥100)	
8		washer / bussola	1	P.T.F.E	
8a		stem gasket / guarnizione stelo	2	GRAPHOIL	
9		gland / premiguarnizione	1	Carbon steel zinc coated	Stainless Steel 316
10		lever / leva	1	Carbon steel zinc coated	
11		stem nut / dado stelo	2	Cl.8 Zinc coated	A4-40 (AISI 316)
12		spring washer / molla a tazza	2	51 CrV4 Zinc coated	AISI 301
13		stop device / dispositivo di arresto	1	Cl. 8.8 Zinc coated	AISI 316
14		antistatic device / dispositivo antistatico	2	AISI 316	
15		stem o-ring / o-ring stelo	1	VITON 75 Sh. A	
16		body o-ring (DN ≥100) / o-ring corpo	1	P.T.F.E.	

Spares parts / Parti di ricambio

* Until DN40 Included: ball CF8M, stem 316 / Fino a DN40 incluso: sfera CF8M, stelo 316

* From DN50 to DN100 included: ball CF8, stem 316 / Da DN50 a DN100 incluso: sfera CF8, stelo 316

DIMENSIONS / DIMENSIONI

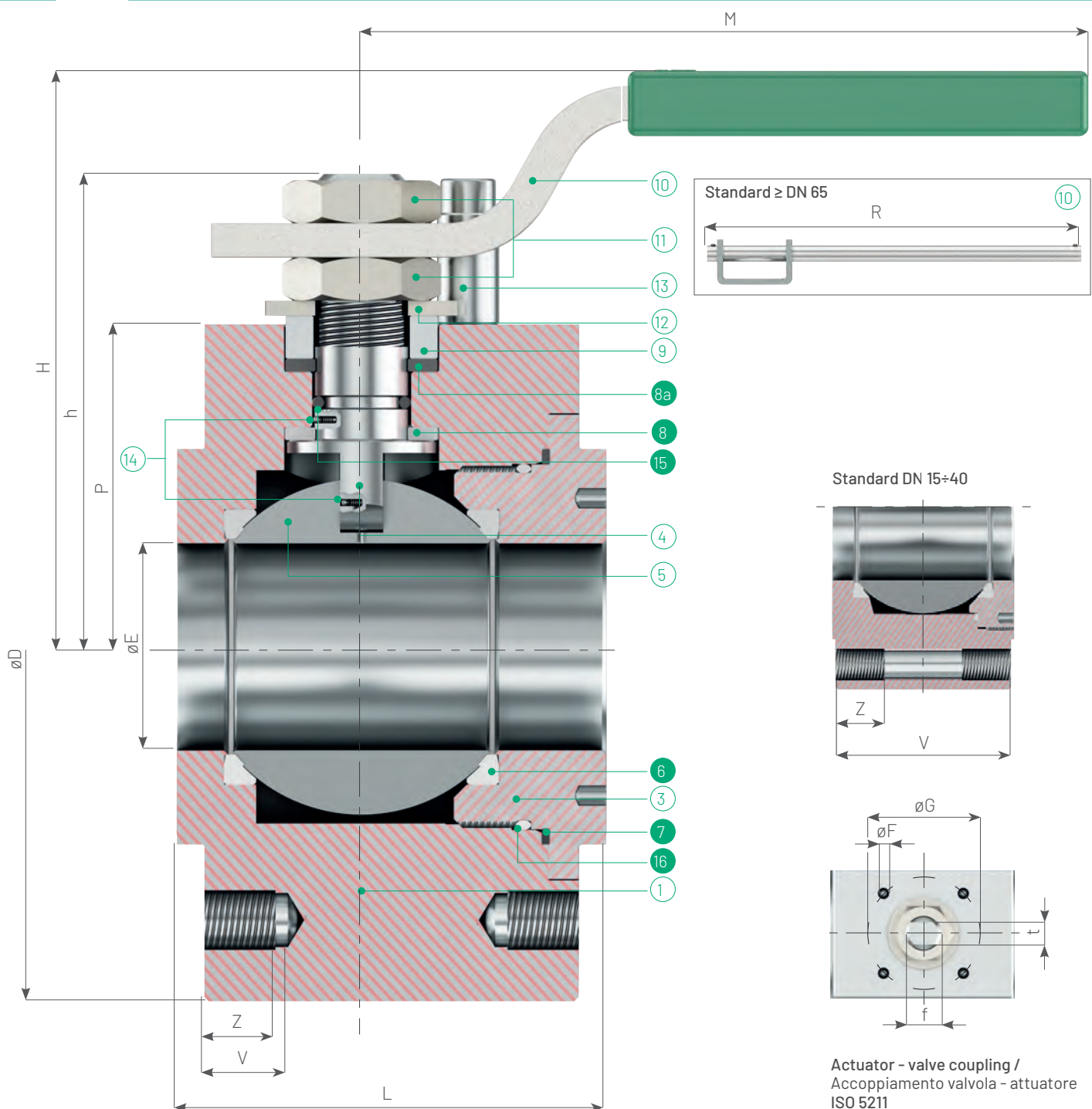
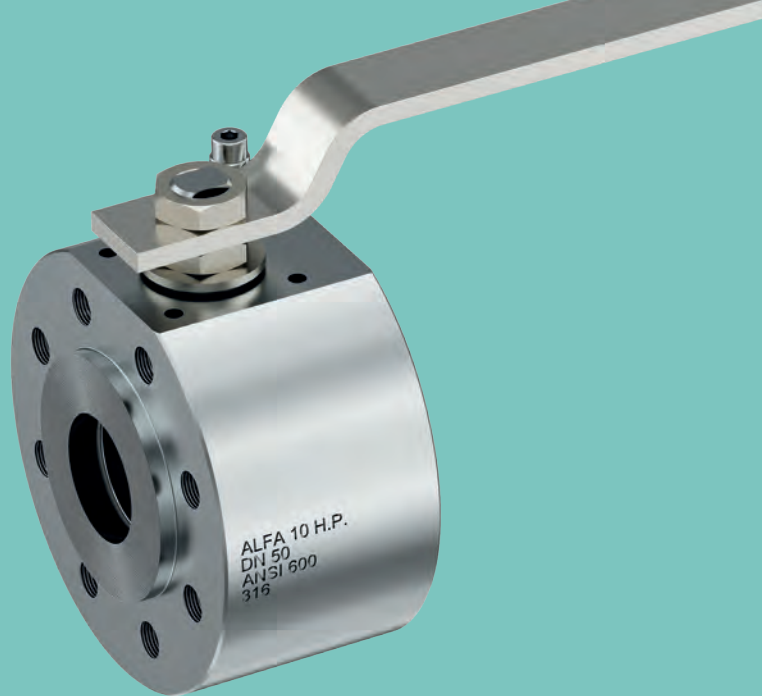
DN	15	20	25	32	40	50	65	80	100
ø	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ø E	14	19	24	29	38	48	64	76	95
L	36	39	43	51	63	83	107	120	152
M/R	150/-	150/-	185/-	185/-	275/-	275/-	380/-	380/-	440/500
H	84	87	95	99	118	126	143	149	200/185
h	52	54	69	72	95	101	122	127	151
P	33	36	43	48	63	77	86	90	113
f/t	10/6	10/6	12/8	12/8	16/10	16/10	22/14	22/14	30/18
Kg.	1.7	2,3	3	4	7	11,8	17	26	46
ISO 5211	F03	F03	F03	F03	F05	F05	F07	F07	F10
ø F	M5	M5	M5	M5	M6	M6	M8	M8	M10
ø G	36	36	36	36	50	50	70	70	102
V	34*	37*	40*	60*	48*	32	38	35	40
Z	34*	37*	40*	60*	48*	24	28	26	30
ø D	96	118	124	133	156	165	189	209	254
N° FORI	4	4	4	4	4	8	8	8	8
ø FORO METR.	M14	M16	M16	M16	M20	M16	M20	M20	M20
ø FORO UNC.	1/2"	5/8"	5/8"	5/8"	3/4"	5/8"	3/4"	3/4"	3/4"

* Full threaded holes / Fori passanti filettati

ALFA 10HP

PN 63-100 | ANSI 600

wafer type ball valve



ALFA 10HP

PN 63-100 | ANSI 600

Standard valve materials / Materiali costruzione valvola standard

		PART NAME PARTICOLARE	Q.TY Q.TA'	MATERIALS MATERIALI	
1		body / corpo	1	ASTM A105	ASTM A479 316/316L
3		closure / chiusura	1	ASTM A105	ASTM A479 316/316L
4		stem / stelo	1	ASTM A182 F51	
5		ball / sfera	1	ASTM A351 CF8 *	ASTM A351 CF8M
6		seats / sedi	2	TFM / P.T.F.E.+ A.M. (DN ≥40)	
7		body gasket / guarnizione corpo	1	P.T.F.E. / GRAPHOIL (DN ≥50)	
8		washer / bussola	1	P.T.F.E.	
8a		stem gasket / guarnizione stelo	2	GRAPHOIL	
9		gland / premiguarnizione	1	Carbon Steel Zinc Coated	Stainless Steel 316
10		lever / leva	1	Carbon Steel Zinc coated	
11		stem nut / dado stelo	2	Cl. 8 Zinc coated	A4-40 (AISI 316)
12		spring washer / molla a tazza	2	51CrV4 Zinc coated	AISI 301
13		stop device / dispositivo di arresto	1	Cl. 8.8 Zinc coated	AISI 316
14		antistatic device / dispositivo antistatico	2	AISI 316	
15		stem o-ring / o-ring stelo	1	VITON 90 Sh. A AED	
16		body o-ring (DN ≥50) / o-ring corpo	1	VITON 90 Sh. A AED	

 Spares parts / Parti di ricambio

* Until DN40 Included: ball CF8M / Fino a DN40 incluso: sfera CF8M

DIMENSIONS / DIMENSIONI

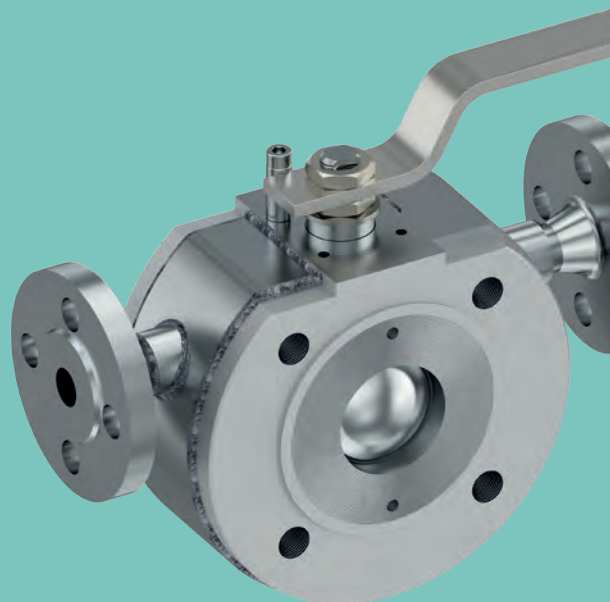
	DN	15	20	25	32	40	50	65	80	100
	Ø	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	Ø E	14	19	24	29	38	48	64	76	95
	L	55	60	65	75	85	100	125	150	185
	M/R	150/-	150/-	275/-	275/-	380/-	380/-	440/500	440/500	-/800
	H	84	87	102	105	125	134	181/70	186/174	231
	h	52	54	75	78	104	110	136	141	175
	P PN63	33	36	51	53	65	75	93	97,5	107
	P PN100							95,5	105	115
	P ANSI600							85,5	95	121,5
	f/t	10/6	10/6	16/10	16/10	22/14	22/14	30/18	30/18	45/30
	Kg.	2,5	5	6	9	10	14	31	40	67
	ISO 5211	F03	F03	F05	F05	F07	F07	F10	F10	F14
	Ø F	M5	M5	M6	M6	M8	M8	M10	M10	M16
	Ø G	36	36	50	50	70	70	102	102	140
	V	43*	47*	52*	62*	72*	30	36	40	45
	Z	43*	47*	52*	62*	72*	24	28	30	35
	Ø D (ANSI)	96	118	124	133	156	165	191	209	273
	Ø D (PN63)	105	129	139	155	169	179	205	215	249
	Ø D (PN100)	105	129	139	155	169	195	219	229	265
VALVOLA PN	N° FORI	4	4	4	4	4	4	8	8	8
	Ø FORI	M14	M16	M26	M20	M20	M24	M24	M24	M27
VALVOLA ANSI	N° FORI	4	4	4	4	4	8	8	8	8
	Ø FORO METR.	M14	M16	M16	M16	M20	M16	M20	M20	M24
	Ø FORO UNC	1/2"	5/8"	5/8"	5/8"	3/4"	5/8"	3/4"	3/4"	7/8"

* Full threaded holes / Fori passanti filettati

ALFA 11N/11NF

PN 10-40 | ANSI 150-300

wafer type ball valve



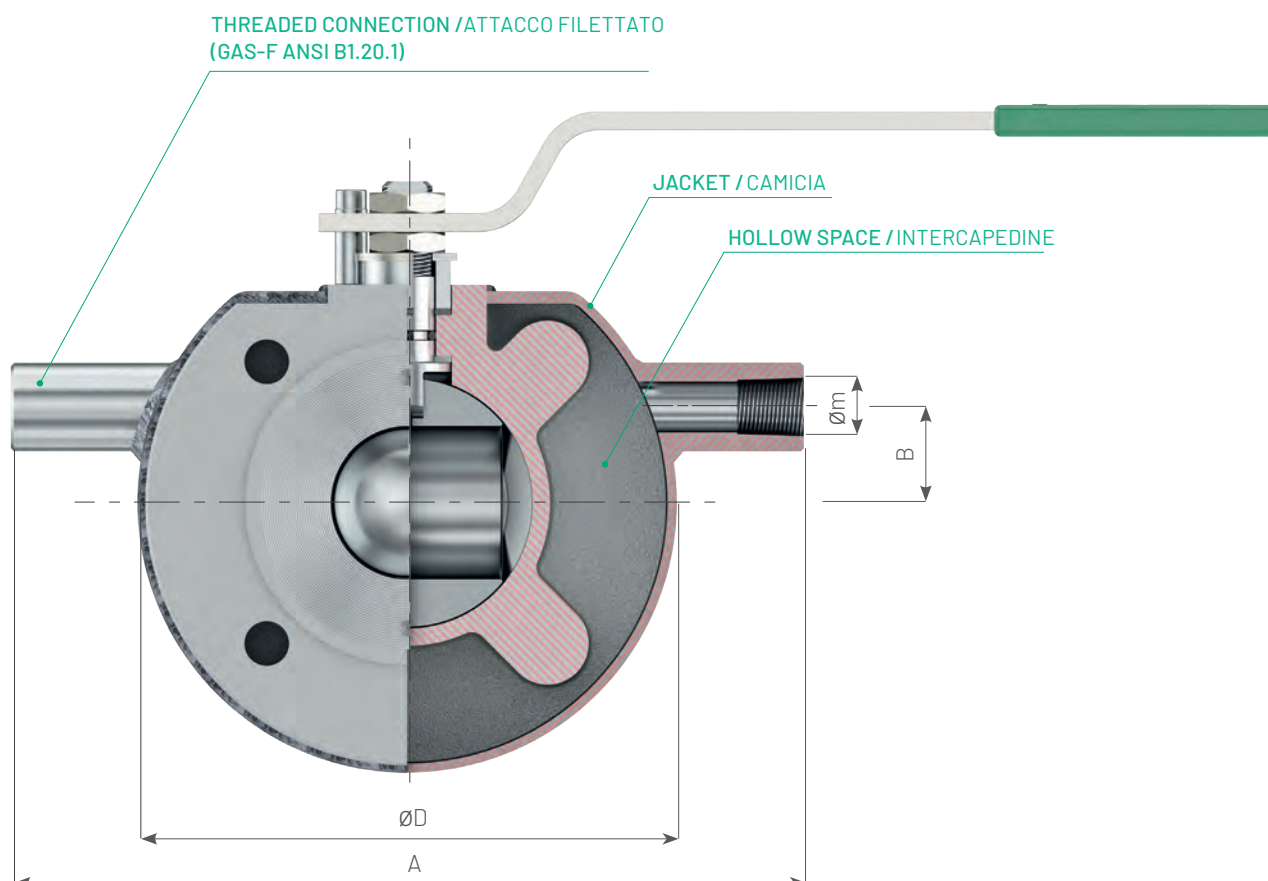
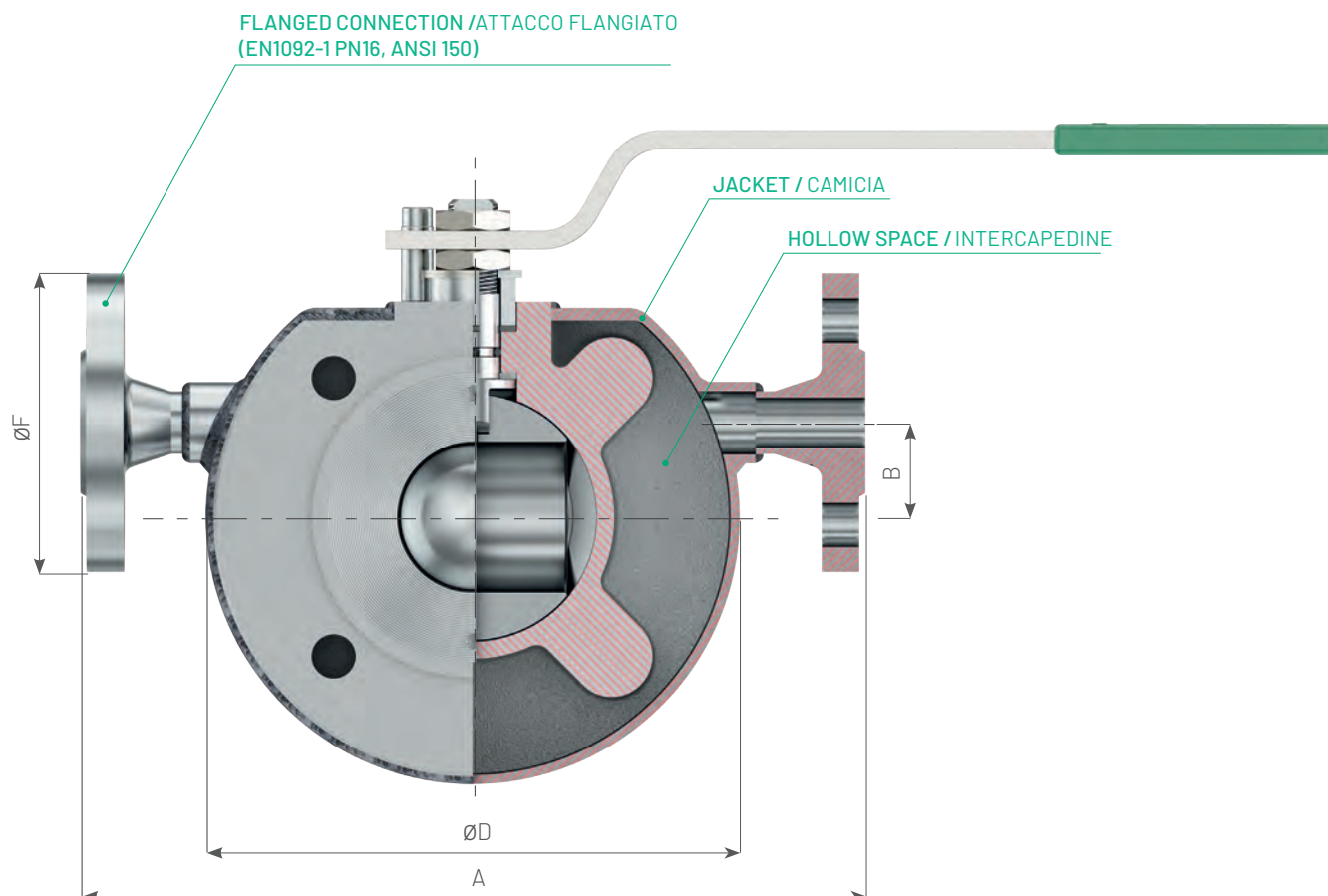
DIMENSIONS / DIMENSIONI

- **Heating/cooling jacket integral to the valve body, applicable on bar stock valve (A10N) and on casting body valve (A10NF)** / Camicia di riscaldamento/raffreddamento integrale, fornibile sia con valvola da barra (A10N) che valvola da fusione (A10NF).
- **For application requiring a fixed fluid temperature inside the valve body, through circulation inside the jacket of hot water, steam, diathermic oil or other fluid** / Per applicazioni che necessitano il mantenimento di una temperatura del fluido di processo all'interno della valvola costante, mediante circolazione all'interno della camicia di acqua calda, vapore, olio diatermico o altro fluido.
- **Metal thickness / Spessore lamiera : 3 mm**
- **Jacket hollow space / Intercapepine camera : 10 mm**
- **Maximum operating jacket pressure / Pressione massima di funzionamento camicia : 16 bar**
- **Jacket material / Materiale camicia :**
Carbon steel type S235 JR (Carbon steel body valves)/ Acciaio al carbonio S235 JR (Valvole acciaio al carbonio)
Pickled stainless steel AISI 316 (Stainless steel body valves)/ Acciaio inossidabile AISI 316 decappato (Valvole acciaio inox)
- **100% hydraulic tested - welding process ASME qualified / Test idraulico al 100% - processo di saldatura qualificato ASME.**
- **For valve technical features, please refers to standard valve family / Per le caratteristiche costruttive delle valvole fare riferimento alle famiglie base.**
- **For different configuration type, number and position of jacket connection please contact our engineering dept / Per varianti su tipo, numero e posizione attacchi contattare l'ufficio tecnico.**

DIMENSIONS / DIMENSIONI

DN	15	20	25	32	40	50	65	80	100	125	150	200
ø	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
A	180	180	190	210	230	250	270	300	340	380	420	500
B	-	-	-	25	30	30	45	50	70	80	95	130
ø D	114	124	131	151	174	191	211	226	244	278	310/331	366/406
ø m	1/2" GAS								1" GAS			
ø F	DN 15								DN 25			
Kg. Threaded/ Filettate	2,7	3,1	3,7	4,5	6,8	8,6	14	16,6	28,2	41,6	82	142
Kg. Flanged/ Flangiate	4,7	5,1	5,7	6,5	8,8	10,6	16	18,6	32,2	45,6	86	146

For construction and dimensions see ALFA 10N/10NF / Per costruzione e dimensioni vedere ALFA 10N/10NF
 Weight for casting body valves / Peso per valvole ricavate da fusione



(P,T) DIAGRAMS

Diagrammi (P,T)

ALFA 10N/10NF – 10HP – 11N/11NF

Pressure - temperature diagrams shown the standard working conditions (pressure & temperature) for the specific valve. These conditions refer to a continuous use. For transitions for peak condition, an overload until 10% is accepted. In these cases we suggest anyway to contact engineering dept.

For all diagrams valves in carbon steel / WCB the minimum temperature is -29°C

I diagrammi pressione - temperatura identificano le condizioni di uso contemporanee di pressione e temperatura a cui la valvola può operare. Tali condizioni sono da riferirsi ad un uso continuo. Per condizioni transitorie o di picco, scostamenti fino al 10% sono tollerati. In tali casistiche consultare comunque l'ufficio tecnico di Alfa Valvole. Per tutti i diagrammi le valvole in acciaio al carbonio A105 / WCB la temperatura minima è -29°C.

TFM SEATS / SEDI IN TFM

MAIN FEATURES / CARATTERISTICHE

- **PTFE reinforced at molecular stage** / PTFE rinforzato a livello molecolare
- **Chemical optimized structure guarantees a constant response in continuous service until 200°C** / La struttura chimica ottimizzata garantisce performance stabili in servizio continuo fino a 200°C
- **Lubricating properties, dimensional stability and chemical compatibility equal to virgin PTFE** / Potere lubrificante, stabilità dimensionale e compatibilità chimica del PTFE
- **Mechanical and wear resistance equal to reinforced PTFE** / Resistenza meccanica e all'usura equivalente al PTFE rinforzato



ALFAGRAPH SEATS / SEDI IN ALFAGRAPH

MAIN FEATURES / CARATTERISTICHE

- **Company owned compound: PTFE + CARBON + GRAPHITE** / Mescola proprietaria: PTFE + CARBONE + VETRO + GRAFITE
- **Increased pressure resistance until 220°C thanks to the carbon filling** / incremento della resistenza alla pressione fino a 220°C grazie alla presenza di carbone
- **Less deformation under load thanks to the glass filling** / Minore deformazione sotto carico grazie alla presenza di vetro
- **Better operating torque control thanks to lubricating power of graphite filling** / Coppie sotto controllo grazie al potere lubrificante della grafite



PTFE SEATS + METAL CORE / SEDI IN PTFE + AM

MAIN FEATURES / CARATTERISTICHE

- **PTFE enclosure with metal core in AISI 316** / Ptfе con inserto metallico in AISI 316
- **Better performances at temperature until 210° C thanks to metal core** / Il nucleo metallico garantisce ottime performance a temperature fino a 210° C e ad alte pressioni
- **Chemical compatibility thanks to PTFE enclosure** / La capsula in PTFE garantisce compatibilità chimica
- **Increased dimensional stability thanks to an optimized production process** / Incrementata stabilità dimensionale grazie al processo di produzione della sede



PEEK SEATS / SEDI IN PEEK

MAIN FEATURES / CARATTERISTICHE

- **Semi-Crystalline polymer with unique combination of mechanical and thermal properties** / Polimero semi-cristallino con proprietà meccaniche e termiche uniche
- **Withstand temperature until 250°C and pressure until 420 Bar** / Resiste a temperature fino 250°C e pressioni di 420 bar
- **Excellent chemical compatibility (Only known solvent: sulfuric acid)** / Eccellente compatibilità chimica (Unico solvente noto: acido solforico concentrato)



Notes / Eccezioni

To obtain maximum temperature performances (> 210°C), also valve O-Ring replacement is needed / Per ottenere le massime performance di temperatura (> 210°C) è necessario sostituire gli O-Ring valvola

Using PEEK seats increase torque about of 100% / Il montaggio di sedi in peek aumenta le coppie della valvola di circa il 100%

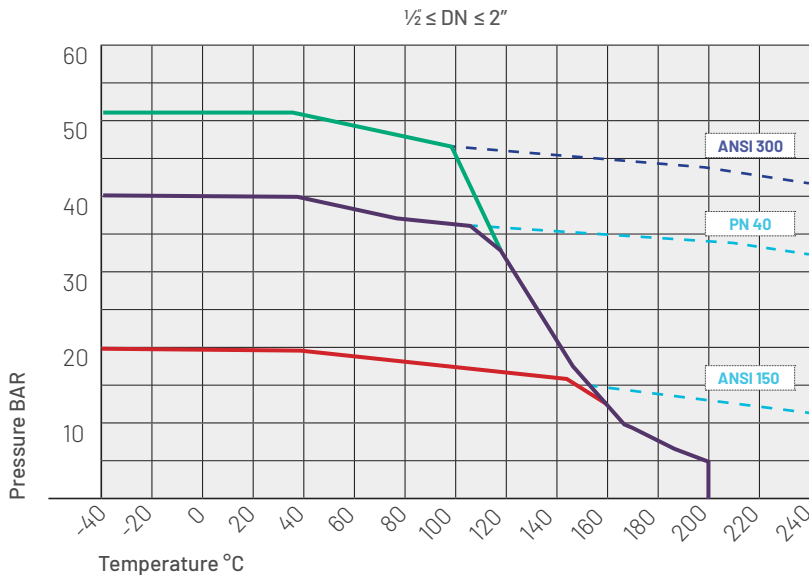
High temperature performances cannot guarantee class VI tightness at room temperature / La performance ad alte temperature non garantisce la tenuta in classe VI della valvola a temperatura ambiente

Peek seated valve could not be fire safe certified (please contact your Alfa Valvole reference) / La valvola con sedi in peek potrebbe non essere certificata fire safe. (Contattare il vostro referente Alfa Valvole)



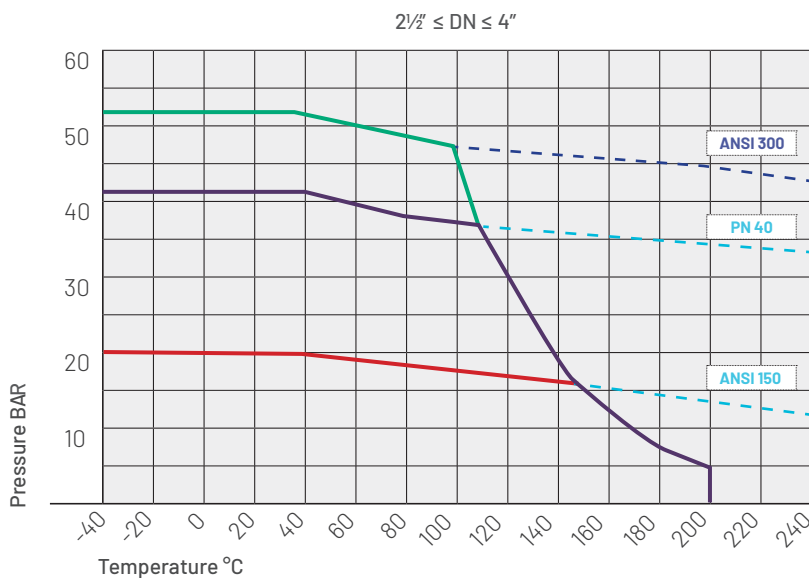
VALVES / VALVOLE ALFA 10N/10NF – 11N/11NF

TFM SEATS / SEDI IN TFM (STANDARD EXECUTION)

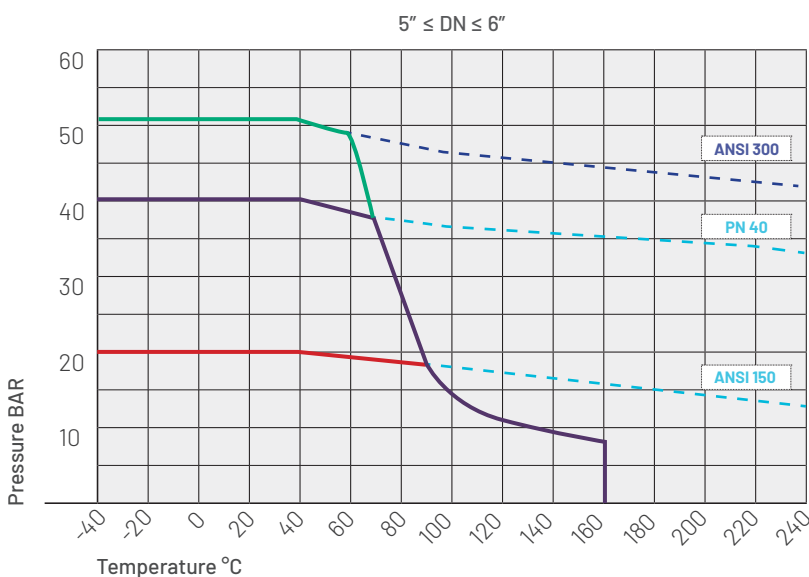


- ANSI 150
- PN 10 - 40
- ANSI 300

DN	$\frac{1}{2} \leq DN \leq 2''$ (15 ≤ DN ≤ 50)
P max @ Tmax	6,5 bar @ 200°C



DN	$2\frac{1}{2} \leq DN \leq 4''$ (65 ≤ DN ≤ 100)
P max @ Tmax	5,5 bar @ 200°C

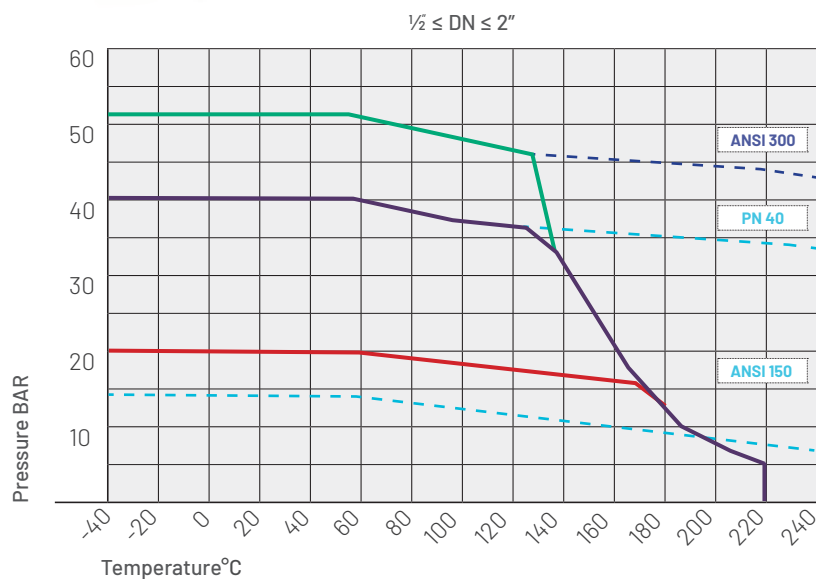


DN	$5'' \leq DN \leq 6''$ (125 ≤ DN ≤ 150)
P max @ Tmax	8 bar @ 160°C



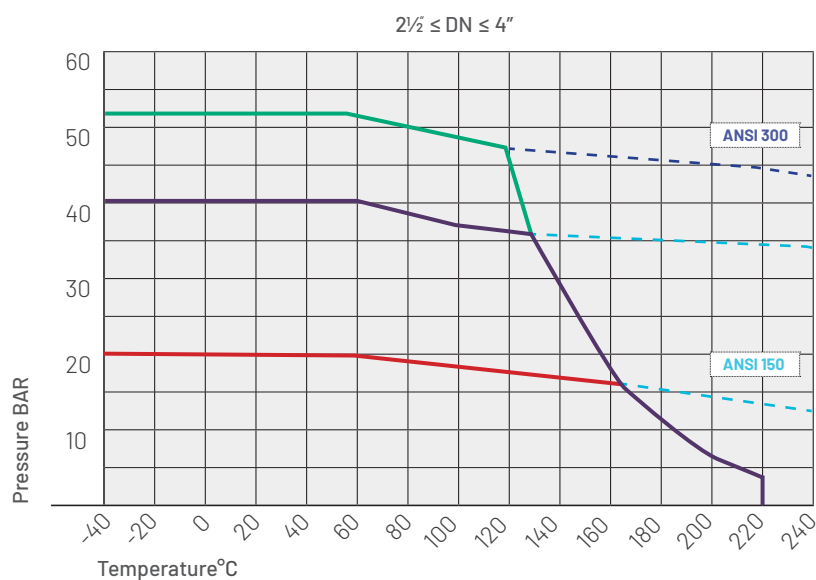
VALVES / VALVOLE ALFA 10N/10NF – 11N/11NF

ALFAGRAPH SEATS / SEDI IN ALFAGRAPH (ON REQUEST)

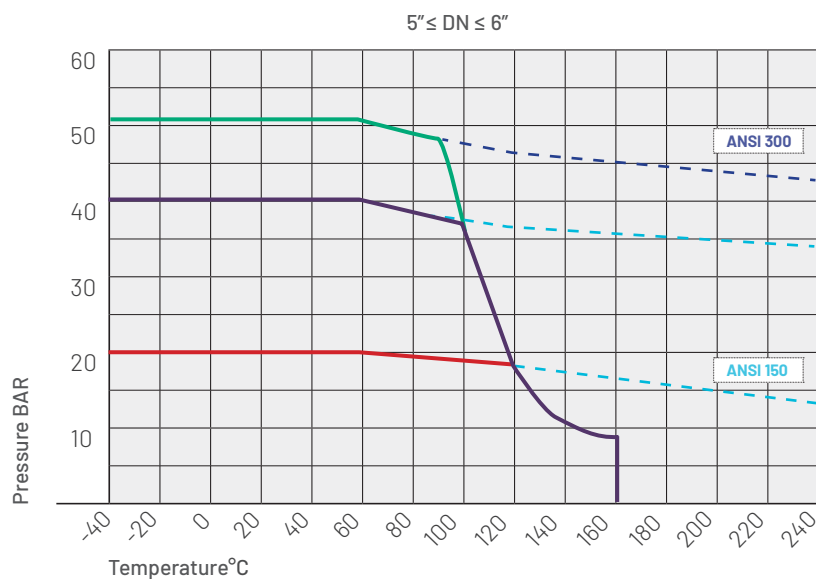


- ANSI 150
- PN 10 - 40
- ANSI 300

DN	$\frac{1}{2} \leq DN \leq 2"$ (15 ≤ DN ≤ 50)
P max @ Tmax	5 bar @ 220°C



DN	$2\frac{1}{2} \leq DN \leq 4"$ (65 ≤ DN ≤ 100)
P max @ Tmax	4 bar @ 220°C



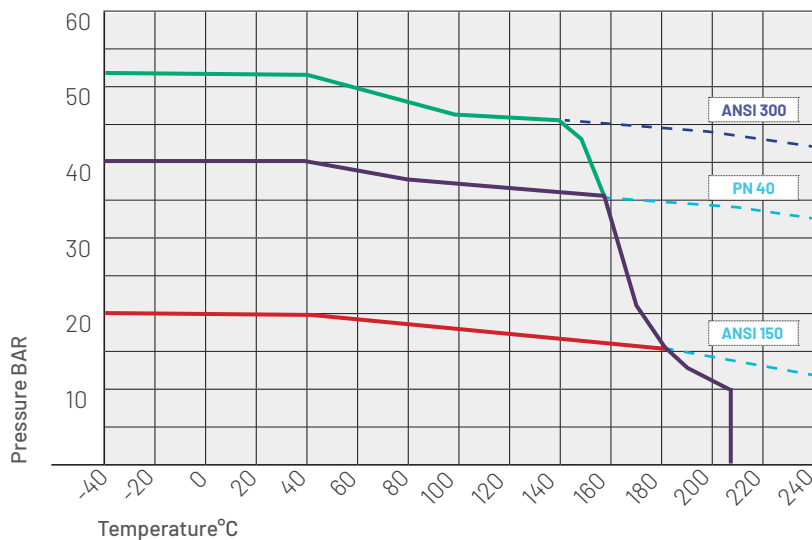
DN	$5" \leq DN \leq 6"$ (125 ≤ DN ≤ 150)
P max @ Tmax	8 bar @ 160°C



VALVES / VALVOLE ALFA 10N/10NF – 11N/11NF

PTFE SEATS + METAL CORE / SEDI IN PTFE + AM (ON REQUEST)

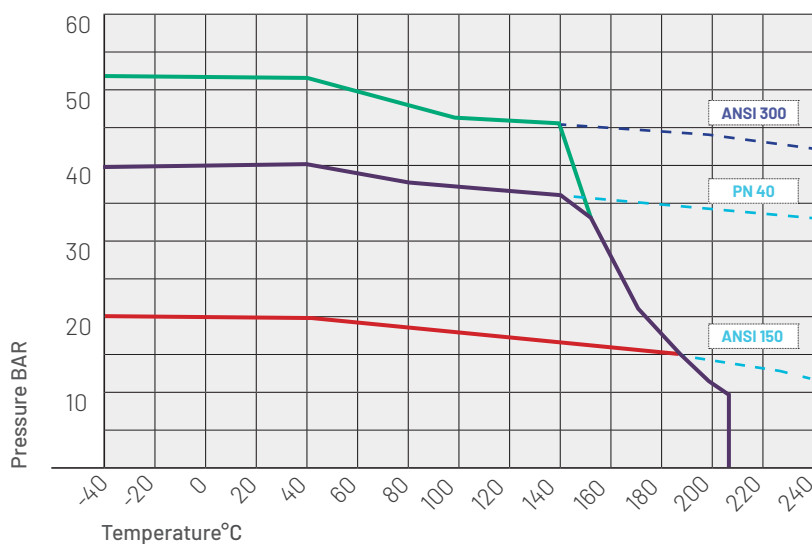
$\frac{1}{2}'' \leq DN \leq 2''$



- ANSI 150
- PN 10 - 40
- ANSI 300

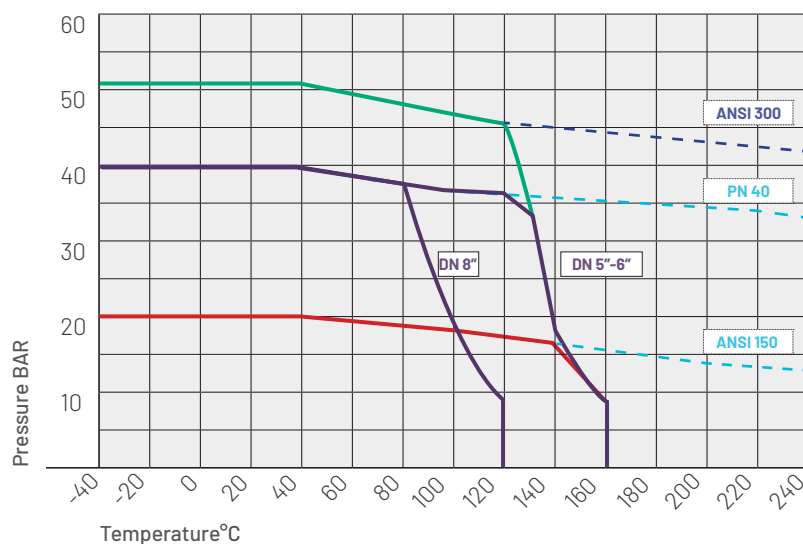
DN	$\frac{1}{2}'' \leq DN \leq 2''$ (15 ≤ DN ≤ 50)
P max @ Tmax	10 bar @ 210°C

$2\frac{1}{2}'' \leq DN \leq 4''$



DN	$2\frac{1}{2}'' \leq DN \leq 4''$ (65 ≤ DN ≤ 100)
P max @ Tmax	9 bar @ 210°C

$5'' \leq DN \leq 8''$

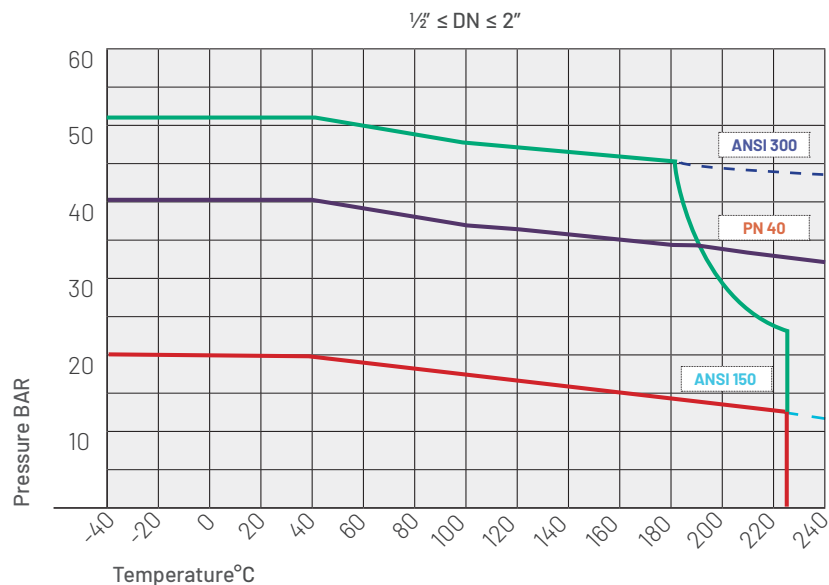


DN	$5'' \leq DN \leq 8''$ (125 ≤ DN ≤ 200)
P max @ Tmax	8 bar @ 160°C (DN 125-150) 8 bar @ 120°C (DN 200)



VALVES / VALVOLE ALFA 10N/10NF – 11N/11NF

PEEK SEATS / SEDI IN PEEK (ON REQUEST)

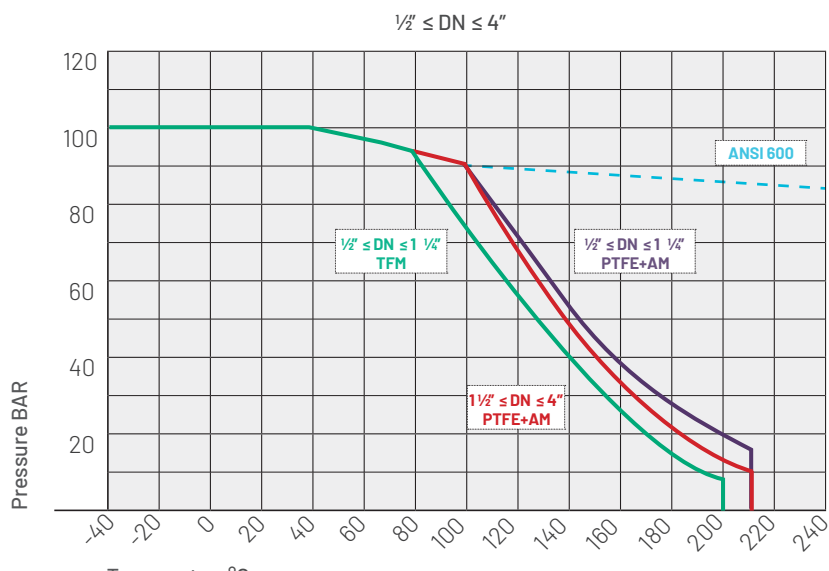


- ANSI 150
- PN 10 - 40
- ANSI 300

DN	$\frac{1}{2}'' \leq DN \leq 2''$ (15 ≤ DN ≤ 50)
P max @ Tmax	12,4 bar @ 230°C (ANSI 150 – PN 10-40) 23 bar @ 230°C (ANSI 300)

VALVES / VALVOLE ALFA 10HP

TFM/PTFE + METAL CORE SEATS / SEDI IN TFM/PTFE + AM



- ANSI 600, 15 ≤ DN ≤ 32 – TFM
- ANSI 600, 15 ≤ DN ≤ 32 – PTFE + AM
- ANSI 600, 40 ≤ DN ≤ 100 – PTFE + AM

DN	$\frac{1}{2}'' \leq DN \leq 1 \frac{1}{4}''$ (15 ≤ DN ≤ 50)
P max @ Tmax	6,5 bar @ 200°C (TFM SEATS) 10 bar @ 210°C (PTFE + AM SEATS)

DN	$1 \frac{1}{2}'' \leq DN \leq 4''$ (65 ≤ DN ≤ 100)
P max @ Tmax	9 bar @ 210°C (PTFE + AM SEATS)

ADDITIONAL MACHINING



Lavorazioni aggiuntive

SPIRALWOUND EXECUTION / ESECUZIONE PER SPIROMETALLICHE

RESTRICTION FOR DN OR BODY TYPE / LIMITAZIONI SU DN O FINITURA CORPO

DN	FUSO / CASTING	BARRA/BAR
15		
20		
25		
32		
40		
50		
65		
80		
100		
125		
150		
200		

APPLICABLE VALVES / VALVOLE APPLICABILI

A1N (PN 10/40)	A1N (#150)	A1N (#300)	A1H (#600)

→ The special closure allows the mounting of spiralwound gaskets to avoid the risk of interference with the pin holes

→ Where not applicable is not needed due to valve design (bolted closure instead of threaded closure)

La ghiera fresata permette il montaggio valvola con guarnizioni spirometalliche, eliminando il rischio di interferenza area di tenuta con i fori spina
Le valvole su cui non è fattibile presentano progetto con chiusura imbullonata e non avvitata, per cui non si rende necessario differenziare

PN 06 DRILLING / FORATURA PN 06

RESTRICTION FOR DN OR BODY TYPE / LIMITAZIONI SU DN O FINITURA CORPO

DN	FUSO / CASTING	BARRA/BAR
15		
20		
25		
32		
40		
50		
65	*	*
80	*	
100	**	
125		
150		
200		

* Drilling done after closure assembling (maintenance not possible) /
Foratura effettuata dopo il montaggio (valvola non manutenzionabile)

** PN 06 drilling available only for WCB /
Foratura PN 6 disponibile solo per WCB

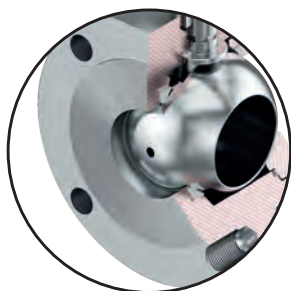
→ PN 06 drilling is performed to make possible valve assembling on PN 06 line, without modifying other valve features

→ Where not applicable is not needed due to valve design

La foratura PN 06 è realizzata per permettere il montaggio valvola su linee a rating PN 06 senza modificare altre caratteristiche della valvola
Le valvole su cui non è fattibile presentano ostacoli progettuali

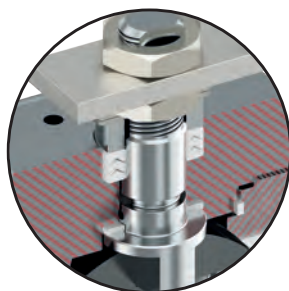
OPTIONAL EXECUTIONS

Esecuzioni optional



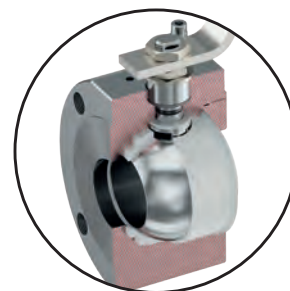
BALANCE HOLE / FORO DI EQUILIBRIO

Balancing hole between ball cavity and upstream pipeline that avoid overpressures. Valve become unidirectional / Equilibra la pressione tra cavità sfera e tubazione a monte, eliminando sovrappressioni. Rende la valvola monodirezionale



CHEVRON RING / PACCO A V

V-Shaped 3 pieces gasket: guarantees maximum tightness from stem area, suitable for every fluid and for vacuum conditions / Tripla guarnizione in PTFE sagomata che garantisce massima tenuta del premistoppa, adatta ad ogni fluido e a condizioni di vuoto



INTEGRAL POCKET SEATS / SEDI INTEGRALI

PTFE integral pocket seats, designed to avoid any potential medium deposit between body and ball / Tenuta integrale in PTFE che avvolge completamente la sfera ed impedisce il deposito di materiale tra sfera e corpo



DOUBLE SEALING EXTENSION / PROLUNGA DOPPIA TENUTA

Extension (100mm) featured by additional gasket kit featured to have double sealing from stem area / Prolunga dotata di set di guarnizioni per garantire una doppia tenuta del premistoppa



CRYOGENIC STEM EXTENSION / ESTENSIONE STELO CRIOGENICA

Special valve and stem execution with 250 mm elongation, suitable for valve usage in cryogenic conditions / Costruzione stelo e valvola con prolunga H 250 mm, idonea ad utilizzo valvola con fluidi criogenici



LEVER EXTENSION / ESTENSIONE LEVA

Lever extension suitable to operate the valve with insulation coverage / Estensione leva che permette di manovrare la valvola in caso di coibentazione



LOCKING DEVICE / DISPOSITIVO DI BLOCCAGGIO ALTO

Device suitable to safety lock the valve in open or closed position. Can be assembled also on field. FOR INSULATED VALVES / Dispositivo, montabile anche in campo, atto a lucchettare la valvola in posizione di aperto/chiuso. PER VALVOLE COIBENTATE



LOCKING DEVICE / DISPOSITIVO DI BLOCCAGGIO BASSO

Device suitable to safety lock the valve in open or closed position. Can be assembled also on field / Dispositivo, montabile anche in campo, atto a lucchettare la valvola in posizione di aperto/chiuso



VALVE DEGREASING FOR OXYGEN SERVICE /

VALVOLE SGRASSATE PER USO OSSIGENO

Valves fully degreased for oxygen service (O2) use, cleaned with Ultrasonic Devices, assembled and tested in white room / Valvole sgrassate per uso su ossigeno (O2): componenti puliti con ultrasuoni, assemblaggio e test in camera bianca.



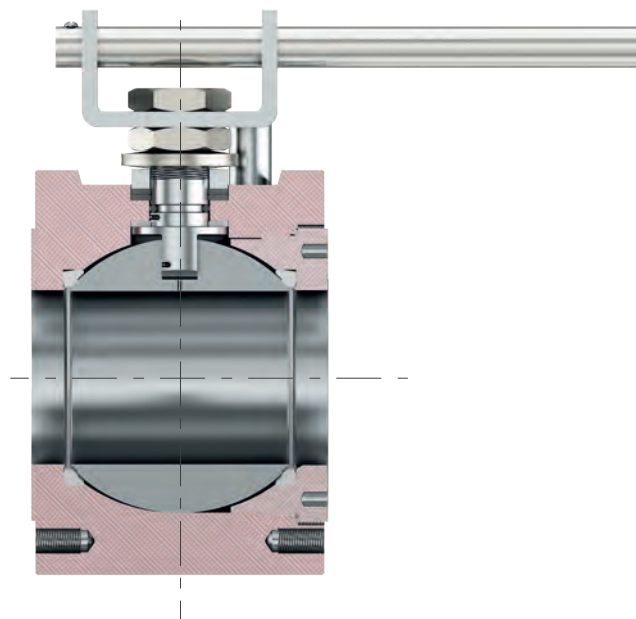
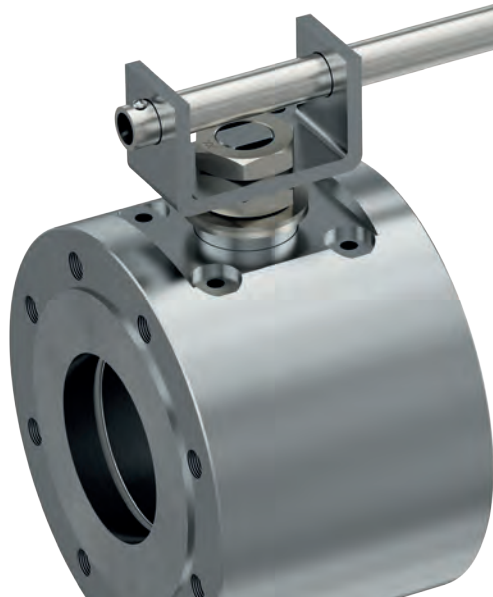
Please contact sales/Tech Dept for application on requested valve / Contattare sales/tech dept per applicabilità sulla valvola richiesta



Applicazioni per mercati specifici

FOOD MARKET

ALFA 10 CALL



FOOD & BEVERAGE VALVE MARKET / VALVOLA SPECIFICA PER IL MERCATO ALIMENTARE

Featured by body and closure special machining designed to minimize body cavity clearance /
Caratterizzata da lavorazione interna corpo e chiusura tale da minimizzare la cavità corpo

FEATURES / CARATTERISTICHE

- Bar stock machining, ASTM A105 or ASTM A182 F316/316L / Costruzione corpo da barra, corpo in ASTM A105 o ASTM A182 F316/316L
- Size: from DN 15 to DN 50 / Diametro: da DN 15 a DN 50
- Rating: PN 10-40 or ANSI 150 / Rating: PN 10-40 o ANSI 150
- Available for heating jacket application / Disponibile per applicazione camicia di riscaldamento
- Available for internal (body and ball) polished surface, with roughness grade Ra = 0,8 / Possibilità di avere lavorazione interna corpo e sfera lucidata a Ra 0,8

CERTIFICATION / CERTIFICAZIONE

- Stainless steel valve available with MOCA certification (Materials and object in contact with food - (Regulation (CE) n. 1935/2004 & Regulation (CE) n. 2023/2006 / Valvola in 316 fornibile certificata moca (Materiale e Oggetti per Contatto Alimentare - (Direttiva (CE) n. 1935/2004 & Direttiva (CE) n. 2023/2006)



M.O.C.A. (EC) 1935/2004

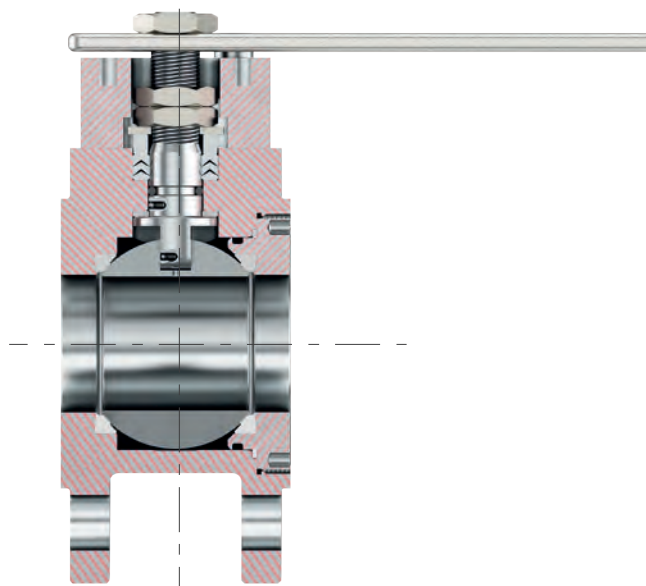
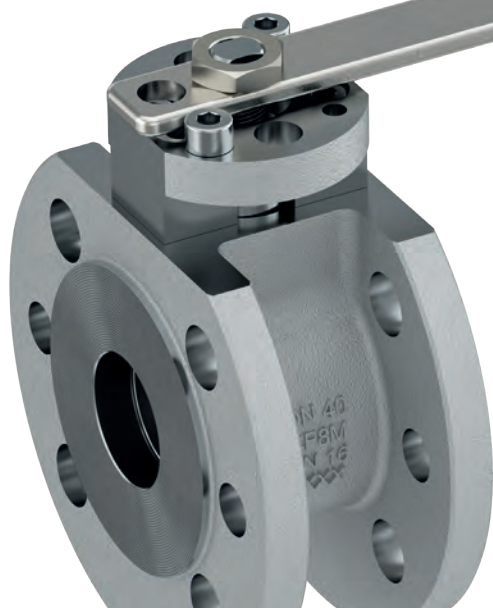


For cost and lead time contact Alfa Valvole / Per extra costo e tempi di fornitura contattare Alfa Valvole

Applicazioni per mercati specifici

TRANSPORTATION MARKET

ALFA 10 VAG



TRANSPORTATION (RAIL & ROAD) VALVE MARKET / VALVOLA SPECIFICA PER IL MERCATO FERROVIARIO

Featured by specific design, light and compact, suitable for assembly on rail tank with locking devices and additional safety devices /
Caratterizzata da design specifico, leggero e compatto, per permettere il montaggio su vagoni con lucchetti e fermi di sicurezza aggiuntivi

FEATURES / CARATTERISTICHE

- Casting technology, ASTM A351 CF8M body / Costruzione corpo da fusione, corpo in ASTM A351 CF8M
- Size from DN 40 to DN 100 / Diametro: da DN 40 a DN 100
- Rating: PN 16 / Rating: PN 16
- Available for heating jacket application / Disponibile per applicazione camicia di riscaldamento
- Wafer construction, smooth holes on flanges / Costruzione wafer, fori lisci sulle flange
- Virgin PTFE gaskets / Guarnizioni in PTFE vergine

CERTIFICATION / CERTIFICAZIONE

- Valve covered by T-PED certification according to ADR/RID and EN 14432:2014, produced under I.I.S (in-house inspection service) / Valvola coperta da certificazione di tipo T-PED secondo ADR/RID e EN14432 e sottoposta a I.I.S (in-house inspection service)



Cert. Nr. ADR/RID/ADN-T-AFV 002/004-17-ITA



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