



VALVOLE A SFERA

- Di solida e robusta costruzione.
- Parti a contatto con il fluido costruite esclusivamente in acciaio inossidabile AISI 316L. A richiesta, disponibili in acciaio inossidabile AISI 304L.
- Facilmente sterilizzabili. Elementi interni facilmente raggiungibili durante le fasi di lavaggio CIP nei modelli 50 e 51.
- Facilmente disassemblabili. Disassemblaggio in linea nei modelli 90 e 91. Guarnizione sanitaria nel modello 90.
- Sfera contenuta all'interno delle flange e conseguente alleggerimento della struttura e riduzioni dell'ingombro valvola nel modello 71.
- Un'estremità a saldare e un'estremità a richiesta a norme DIN, SMS, RJT, ISS, Gas, Eno, Macon nel modello 81.
- Corredabili di comandi manuali o pneumatici.
- Comandi pneumatici orizzontali e verticali a semplice effetto, doppio effetto e di regolazione flusso, corredabili di contatto di prossimità, microinterruttore (elettrico o pneumatico), elettrovalvola (24V CA, 24 V CC, 48 V CA), connettore.
- Massima pressione di esercizio: 10 bar.
- Possibilità di intercambiabilità tra le varie unificazioni.
- Finitura standard: lucidatura esterna e satinatura interna grana 150. Altre finiture a richiesta.

BALL VALVES

- Heavy duty construction.
- Parts in contact with the fluid made exclusively of AISI 316L stainless steel. On request available in AISI 304L stainless steel.
- Easy to sterilize. Internal parts easy to reach during CIP process in models 50 and 51.
- Easy to disassemble. On-line disassembly in models 90 and 91. Sanitary gasket in model 90.
- Ball contained in the flange with resulting lightening of the structure and reduction of valve volume in the 71 model.
- One welded end and one end, on request, produced in conformity with DIN, SMS, RJT, ISS, BSP, Eno and Macon standards in the 81 model.
- Can be equipped with manual or pneumatic controls.
- Horizontal and vertical single-, double-effect, and modulating pneumatic controls. Can be equipped with proximity contact, microswitch (electrical or pneumatic), solenoid valve (24 V AC, 24 V DC, 48 V AC), connector.
- Maximum operating pressure: 10 bars.
- Interchangeability between the different standards available.
- Standard finish: 150 grain external polishing and internal glazing. Other finishes on request.

VANNES À BOULE

- Fabrication solide et robuste.
- Parties en contact avec le fluide fabriquées exclusivement en acier inoxydable AISI 316L. Sur demande, disponibles en acier inoxydable AISI 304L.
- Facilement stérilisables. Éléments internes faciles à atteindre durant les opérations de lavage CIP pour les modèles 50 et 51.
- Facilement démontables. Démontage en ligne pour les modèles 90 et 91. Joint sanitaire pour le modèle 90.
- La boule contenue à l'intérieur des brides allège la structure et réduit l'encombrement de la vanne modèle 71.
- Un bout à souder et un bout, sur demande, conforme aux normes DIN, SMS, RJT, ISS, Gas, Eno, Macon pour le modèle 81.
- Peuvent être munies de commandes manuelles ou pneumatiques.
- Commandes pneumatiques horizontales et verticales à simple effet, double effet et pour le réglage du flux; peuvent être munies de contact de proximité, minirupteur (électrique ou pneumatique), électrovanne (24 V CA, 24 V CC, 48 V CA), connecteur.
- Pression d'exploitation maximum: 10 bars.
- Intercambiabilité possible entre les différents standards.
- Finissage standard: polissage extérieur et satinage intérieur grain 150. Autres finissages sur demande.



VÁLVULAS DE BOLA

- De fabricación sólida y robusta.
- Las partes que están en contacto con el fluido se fabrican exclusivamente en acero inoxidable AISI 316L. A pedido, se pueden suministrar en acero inoxidable AISI 304L.
- Fácilmente esterilizables. Los elementos internos son fácilmente accesibles durante las fases de lavado CIP en los modelos 50 y 51.
- Se pueden desmontar fácilmente. Desmontaje en línea en los modelos 90 y 91. Junta sanitaria en el modelo 90.
- Bola alojada en el interior de las bridas con consiguiente aligeramiento de la estructura y reducción de las dimensiones de la válvula en el modelo 71.
- Un extremo para soldar y un extremo a pedido según normas DIN, SMS, RJT, ISS, Gas, Eno, Macon en el modelo 81.
- Equipadas con mandos manuales o neumáticos.
- Mandos neumáticos horizontales y verticales de simple efecto, doble efecto y de regulación del flujo que se pueden equipar con microsensar, microrruptor (eléctrico o neumático), electroválvula (24 V CA, 24 V CC, 48 V CA), conector.
- Máxima presión de ejercicio: 10 bares.
- Posibilidad de intercambio entre las distintas unificaciones.
- Acabado estándar: pulido exterior y satinado interior grano 150. A pedido, se pueden suministrar otros acabados.

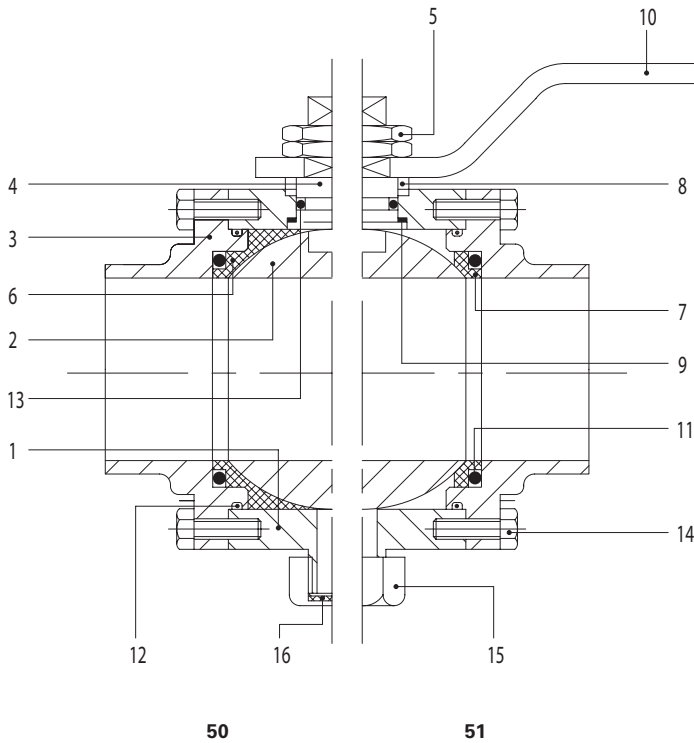


VALVOLE A SFERA CON DRENAGGIO

DRAINAGE BALL VALVE

VANNE À BOULE AVEC DRAINAGE

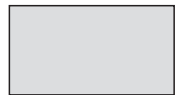
VÁLVULA DE BOLA CON DRENAJE



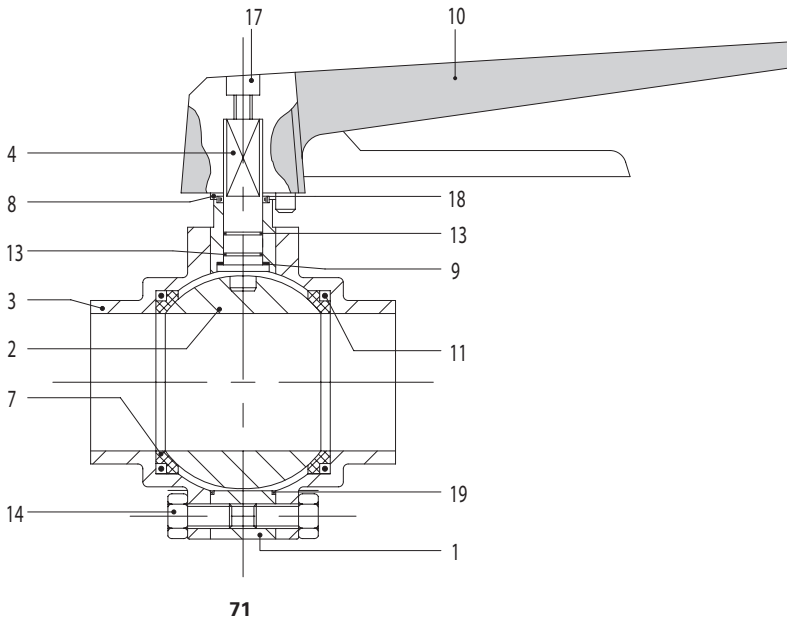
- | | |
|---|---|
| 1. Corpo valvola
Valve body
Corps vanne
Cuerpo | 9. Rondella
Washer
Rondelle
Arandela |
| 2. Sfera
Ball
Boule
Bola | 10. Maniglia
Handle
Poignée
Maneta |
| 3. Flangia
Flange
Bride
Brida | 11. Anello di tenuta OR
OR seal ring
Joint torique
Junta OR |
| 4. Perno
Spindle
Pivot
Perno | 12. Anello di tenuta OR
OR seal ring
Joint torique
Junta OR |
| 5. Dado esagonale
Hexagonal nut
Écrou hexagonal
Tuerca hexagonal | 13. Anello di tenuta OR
OR seal ring
Joint torique
Junta OR |
| 6. Guarnizione sanitaria
Sanitary gasket
Joint sanitaire
Junta sanitaria | 14. Vite esagonale
Hexagonal screw
Vis hexagonale
Tornillo hexagonal |
| 7. Guarnizione
Gasket
Joint
Junta | 15. Dado esagonale
Hexagonal nut
Écrou hexagonal
Tuerca hexagonal |
| 8. Distanziale
Spacer
Entretoise
Distanciador | 16. Pastiglia PTFE
PTFE pin
Pastille PTFE
Pastilla PTFE |

CODIFICAIONE
CODING
CODIFICATION
CODIFICACIÓN

Pos.	Cod. base	Norme	1"	1 1/2"	2"	2 1/2"	3"	4"	Mat.	Part. o agg.
1	K51		25	38	51	63	76	101	6L	01
2	K51		25	38	51	63	76	101	6L	02
3	K51	K	1"	1 1/2"	2"	2 1/2"	3"	4"	6L	03
3	K51	W	25	38	51	63	76	101	6L	03
4	K51		25	38/101	38/101	38/101	38/101	38/101	4L	04
5	K51		25	38/101	38/101	38/101	38/101	38/101	4L	05
6	K51		25	38	51	63	76	101	T	06
7	K51		25	38	51	63	76	101	T	07
8	K51		25	38/101	38/101	38/101	38/101	38/101	4L	08
9	K51		25	38/101	38/101	38/101	38/101	38/101	T	09
10	K51		25	38/101	38/101	38/101	38/101	38/101	4L	10
11	OR		3106	4162	158	6275	6312	6450	N	
12	OR		3125	3200	3262	3325	3400	3550	N	
13	OR		3043	3050	3050	3050	3050	3050	N	
14	VE		6x12	6x16	6x16	6x16	6x16	6x16	4L	
15	K51		25/101	25/101	25/101	25/101	25/101	25/101	4L	15
16	K51		25/101	25/101	25/101	25/101	25/101	25/101	T	16



VALVOLA A SFERA COMPATTA
COMPACT BALL VALVE
VANNE À BOULE COMPACTE
VÁLVULA DE BOLA COMPACTA

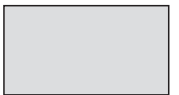


- | | |
|---|---|
| 1. Corpo valvola
Valve body
Corps vanne
Cuerpo | 10. Maniglia
Handle
Poignée
Maneta |
| 2. Sfera
Ball
Boule
Bola | 11. Anello di tenuta OR
OR seal ring
Joint torique
Junta OR |
| 3. Flangia
Flange
Bride
Brida | 13. Anello di tenuta OR
OR seal ring
Joint torique
Junta OR |
| 4. Perno
Spindle
Pivot
Perno | 14. Vite esagonale
Hexagonal screw
Vis 6 pans
Tornillo hexagonal |
| 7. Guarnizione
Gasket
Joint
Junta | 17. Vite brugola
Allen screw
Vis Allen
Tornillo Allen |
| 8. Distanziale
Spacer
Entretoise
Distanciador | 18. Rondella PTFE
PTFE washer
Rondelle PTFE
Arandela PTFE |
| 9. Rondella
Washer
Rondelle
Arandela | 19. Anello PTFE
PTFE ring
Joint PTFE
Junta PTFE |

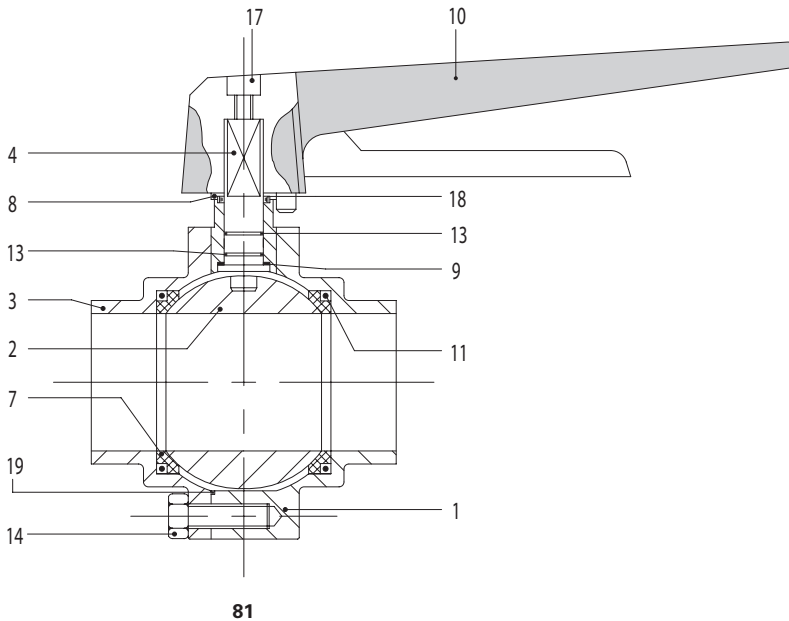
Brevetto n./Patent no./Brevet n./Patente n.
MI 97 U 000382

CODIFICAZIONE
CODING
CODIFICATION
CODIFICACIÓN

Pos.	Cod. base	Norme	1 1/2" 38	D 40 40	2" 51	D 50 52	2 1/2" 63	D 65 70	3" 76	D 80 85	Mat.	Part. o agg.
1	71		38/40	38/40	51/52	51/52	63	70	76	85	6L	01
2	71		38/40	38/40	51/52	51/52	63	70	76	85	6L	02
3	71	W	38	40	51	52	63	70	76	85	6L	03
3	71	D		40		50		65		80	6L	03
3	71	S	38		51		63		76		6L	03
3	71	B	38		51		63		76		6L	03
3	71	I	38		51		63		76		6L	03
4	71		38/40	38/40	51/52	51/52	63	70	76	85	4L	04
7	71		38/40	38/40	51/52	51/52	63	70	76	85	T	07
8	71		38/52	38/52	38/52	38/52	63/85	63/85	63/85	63/85	4L	08
9	71		38/52	38/52	38/52	38/52	63/85	63/85	63/85	63/85	T	09
10	7M8		25/76	25/76	25/76	25/76	25/76	25/76	25/76	85/101	A	
11	OR		3175	3175	3212	3212	4275	177	4325	4337	N	
13	OR		108	108	108	108	2043	2043	2043	2043	N	
14	VE		6x16	6x16	6x16	6x16	6x16	6x16	6x16	6x16	N	
17	TCCE		6x16	6x16	6x16	6x16	6x16	6x16	6x16	6x16	4L	
18	91		38/52	35/52	38/52	38/52	63/85	63/85	63/85	63/85	T	18
19	71		38/40	38/40	51/52	51/52	63	70	76	85	T	19



VALVOLA A SFERA
BALL VALVE
VANNE À BOULE
VÁLVULA DE BOLA



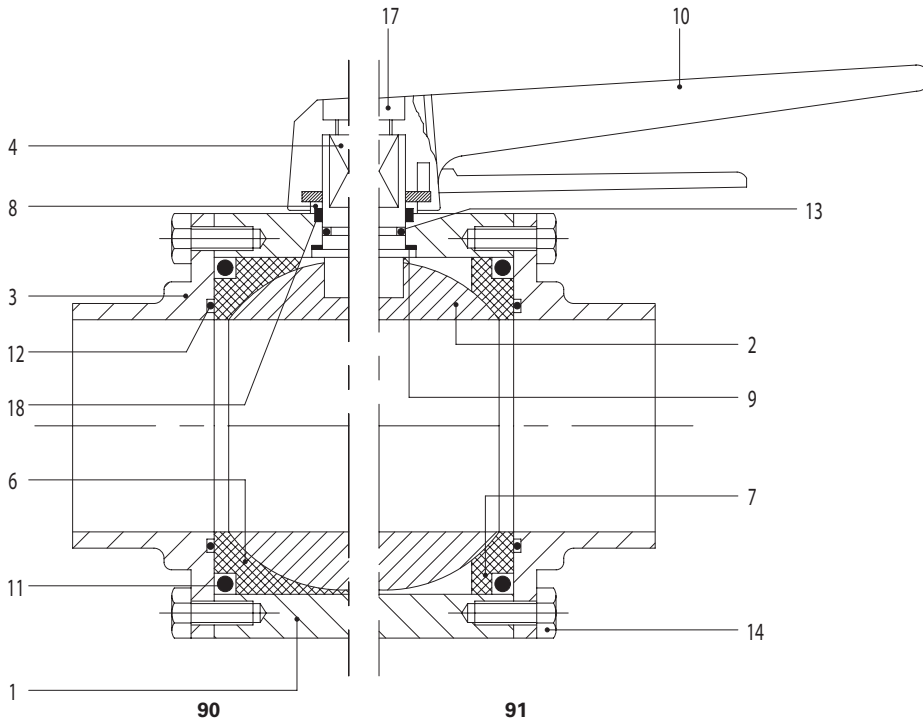
- | | |
|---|---|
| 1. Corpo valvola
Valve body
Corps vanne
Cuerpo | 11. Anello di tenuta OR
OR seal ring
Joint torique
Junta OR |
| 2. Sfera
Ball
Boule
Bola | 13. Anello di tenuta OR
OR seal ring
Joint torique
Junta OR |
| 3. Flangia
Flange
Bride
Brida | 14. Vite esagonale
Hexagonal screw
Vis 6 pans
Tornillo hexagonal |
| 4. Perno
Spindle
Pivot
Perno | 17. Vite brugola
Allen screw
Vis Allen
Tornillo Allen |
| 7. Guarnizione
Gasket
Joint
Junta | 18. Rondella PTFE
PTFE washer
Rondelle PTFE
Arandela PTFE |
| 8. Distanziale
Spacer
Entretoise
Distanciador | 19. Anello PTFE
PTFE ring
Joint PTFE
Junta PTFE |
| 9. Rondella
Washer
Rondelle
Arandela | |
| 10. Maniglia
Handle
Poignée
Maneta | |

CODIFICAZIONE
CODING
CODIFICATION
CODIFICACIÓN

Pos.	Cod. base	Norme	1 1/2" 38	D 40 40	2" 51	D 50 52	2 1/2" 63	D 65 70	3" 76	D 80 85	Mat.	Part. o agg.
1	81		38/40	38/40	51/52	51/52	63	70	76	85	6L	01
2	71		38/40	38/40	51/52	51/52	63	70	76	85	6L	02
3	71	W	38	40	51	52	63	70	76	85	6L	03
3	71	D		40		50		65		80	6L	03
3	71	S	38		51		63		76		6L	03
3	71	B	38		51		63		76		6L	03
3	71	I	38		51		63		76		6L	03
4	71		38/40	38/40	51/52	51/52	63	70	76	85	4L	04
7	71		38/40	38/40	51/52	51/52	63	70	76	85	T	07
8	71		38/52	38/52	38/52	38/52	63/85	63/85	63/85	63/85	4L	08
9	71		38/52	38/52	38/52	38/52	63/85	63/85	63/85	63/85	T	09
10	7M8		25/76	25/76	25/76	25/76	25/76	25/76	25/76	85/101	A	
11	OR		3175	3175	3212	3212	4275	177	4325	4337	N	
13	OR		108	108	108	108	2043	2043	2043	2043	N	
14	VE		6x16	6x16	6x16	6x16	6x16	6x16	6x16	6x16	N	
17	TCCE		6x16	6x16	6x16	6x16	6x16	6x16	6x16	6x16	4L	
18	91		38/52	38/52	38/52	38/52	63/85	63/85	63/85	63/85	T	18
19	71		38/40	38/40	51/52	51/52	63	70	76	85	T	19



VALVOLA A SFERA ESTRAIBILE
EXTRACTABLE BALL VALVE
VANNE À BOULE EXTRACTIBLE
VÁLVULA DE BOLA ESTRAÍBLE



- | | |
|---|---|
| 1. Corpo valvola
Valve body
Corps vanne
Cuerpo | 10. Maniglia
Handle
Poignée
Maneta |
| 2. Sfera
Ball
Boule
Bola | 11. Anello di tenuta OR
OR seal ring
Joint torique
Junta OR |
| 3. Flangia
Flange
Bride
Brida | 12. Anello di tenuta OR
OR seal ring
Joint torique
Junta OR |
| 4. Perno
Spindle
Pivot
Perno | 13. Anello di tenuta OR
OR seal ring
Joint torique
Junta OR |
| 6. Guarnizione sanitaria
Sanitary gasket
Joint sanitaire
Junta sanitaria | 14. Vite esagonale
Hexagonal screw
Vis 6 pans
Tornillo hexagonal |
| 7. Guarnizione
Gasket
Joint
Junta | 17. Vite brugola
Allen screw
Vis Allen
Tornillo Allen |
| 8. Distanziale
Spacer
Entretoise
Distanciador | 18. Rondella
Washer
Rondelle
Arandela |
| 9. Rondella
Washer
Rondelle
Arandela | |

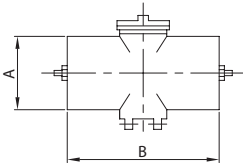
CODIFICAIONE
CODING
CODIFICATION
CODIFICACIÓN

Pos.	Cod. base	Norme	1" 25	D 25 28	D 32 34	1 1/2" 38	D 40 40	2" 51	D 50 52	2 1/2" 63	D 65 70	3" 76	D 80 85	Mat.	Part. o agg.
1	91		25/28	25/28	34/40	34/40	34/40	51/52	51/52	63/70	63/70	76/85	76/85	6L	01
2	91		25/28	25/28	34/40	34/40	34/40	51/52	51/52	63/70	63/70	76/85	76/85	6L	02
3	91	W	25	28	34	38	40	51	52	63	70	76	85	6L	03
3	91	D		25	32		40		50		65		80	6L	03
3	91	S	25			38		51		63		76		6L	03
3	91	B	25			38		51		63		76		6L	03
3	91	I	25			38		51		63		76		6L	03
4	91		25/28	25/28	34/40	34/40	34/40	51/52	51/52	63/70	63/70	76/85	76/85	4L	04
6	90		25/28	25/28	34/40	34/40	34/40	51/52	51/52	63/70	63/70	76/85	76/85	T	06
7	91		25/28	25/28	34/40	34/40	34/40	51/52	51/52	63/70	63/70	76/85	76/85	T	07
8	91		25/52	25/52	25/52	25/52	25/52	25/52	25/52	63/85	63/85	63/85	63/85	4L	08
9	91		25/52	25/52	25/52	25/52	25/52	25/52	25/52	63/85	63/85	63/85	63/85	T	09
10	7M8		25/52	25/52	25/52	25/52	25/52	25/52	25/52	63/85	63/85	63/85	63/85	A	
11	OR		4131	4131	6200	6200	6200	6250	6250	6337	6337	189	189	N	
12	OR		2106	2106	3162	3162	3162	3206	3206	3256	3256	3300	3300	N	
13	OR		2050	2050	2050	2050	2050	2050	2050	2056	2056	2056	2056	N	
14	VE		6X12	6X12	6X16	6X16	6X16	6X16	6X16	6X16	6X16	6X16	6X16	4L	
17	TCCE		6X16	6X16	6X16	6X16	6X16	6X16	6X16	6X16	6X16	6X16	6X16	4L	
18	91		25/52	25/52	25/52	25/52	25/52	25/52	25/52	63/85	63/85	63/85	63/85	NY	18



CILINDRO PNEUM. DE.
PNEUM. ACTUATOR DE.
VÉRIN PNEUM. DE.
CILINDRO NEUM. DE.

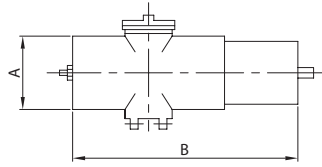
7C1 L



DN	A	B	gr
25/52	60,0	138,5	1.460
63/85	76,0	161,0	2.100
101/104	89,0	180,0	2.960

CILINDRO PNEUM. SE.
PNEUM. ACTUATOR SE.
VÉRIN PNEUM. SE.
CILINDRO NEUM. SE.

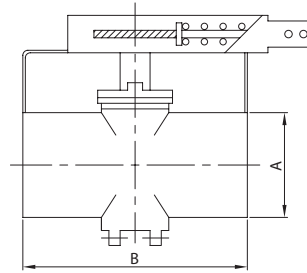
7C2 L



DN	A	B	gr
25/52	76,0	240,0	2.190
63/85	89,0	260,0	3.150

C. PNEUM. REGOL. FLUSSO
REGUL. FLUX PNEUM. ACT.
VÉ. PNEUM. RÉGULATION
CIL. NEUM. REGULACIÓN

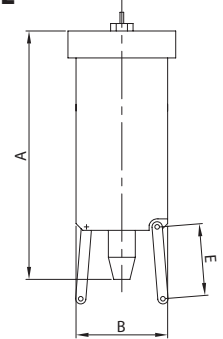
7C1 L M



DN	A	B	gr
25/104	89,0	180,0	4.160

C. PNEUM. SE. VERTICALE
PNEUM. ACT. SE. VERTICAL
VÉ. PNEUM. SE. VERTICALE
CIL. NEUM. SE. VERTICAL

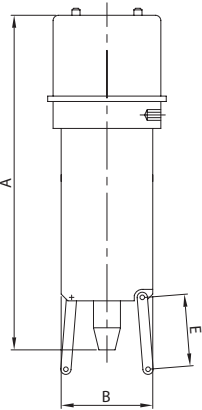
7C4 L



DN	A	B	E	gr
25/52	211,0	76,0	64,0	3.700
63/104	211,0	76,0	58,0	3.700

C. PN. UNITÀ CONTR.
CONTR. UNIT PN. ACT.
VÉ. PN. UNITÉ CONTR.
CIL. N. UNIDAD CONTR.

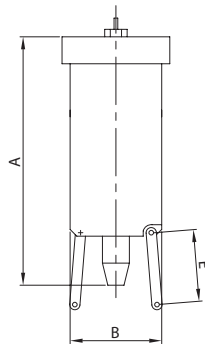
7C4 UC



DN	A	B	E	gr
25/52	316,0	76,0	64,0	3.900
63/104	316,0	76,0	58,0	3.900

C. PN. DE. VERTICALE
PN. ACT. DE. VERTICAL
VÉ. PN. DE. VERTICALE
CIL. N. DE. VERTICAL

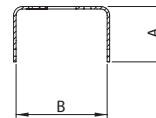
7C5 L



DN	A	B	E	gr
25/52	211,0	76,0	64,0	3.700
63/104	211,0	76,0	58,0	3.700

STAFFA
BRACKET
SUPPORT
BRIDA

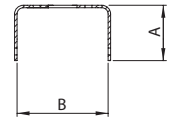
7C9 91



DN	A	B	gr
25	59,0	46,0	200
38	62,0	62,0	210
51	66,5	74,0	240
63	68,5	88,0	260
76	66,0	99,0	260

STAFFA
BRACKET
SUPPORT
BRIDA

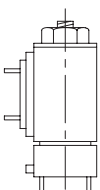
7C9 51



DN	A	B	gr
25	68,5	45,0	220
38	80,5	61,0	240
51	77,0	72,0	260
63	75,5	86,0	300
76	76,0	97,0	300
101	75,5	126,0	330

ELETTROVALVOLA
SOLENOID VALVE
ÉLECTROVANNE
ELECTROVÁLVULA

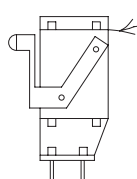
015 NC



015 NA

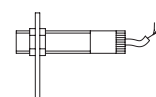
MICROINTERRUTTORE
MICROSWITCH
MINIRUPTEUR
MICRORRUPTOR

014 1

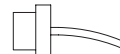


CONTATTO DI PROSSIMITÀ
PROXIMITY CONTACT
CONTACT DE PROXIMITÉ
MICROSENSOR

013 O

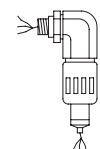


013 S

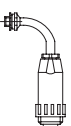


CONNETTORE
CONNECTOR
CONNECTEUR
CONECTOR

030 H



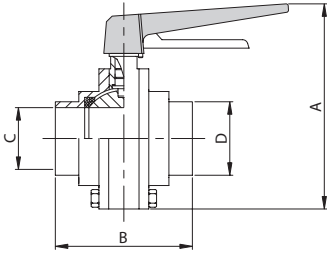
030 S





V. SFERA COMPATTA EL.
COMPACT BALL V. PE.
V. BOULE COMPACTE BL.
V. BOLA COMPACTA EL.

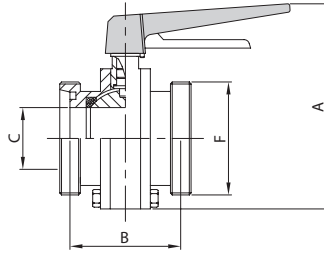
W71



DN	A	B	C	D	gr
40	138,0	73,0	37,0	40,0	1.600
52	155,0	80,0	49,0	52,0	2.600
70	187,0	112,0	66,0	70,0	4.700
85	204,0	121,0	81,0	85,0	5.500

V. SFERA COMPATTA EF.
COMPACT BALL V. ME.
V. BOULE COMPACTE BF.
V. BOLA COMPACTA ER.

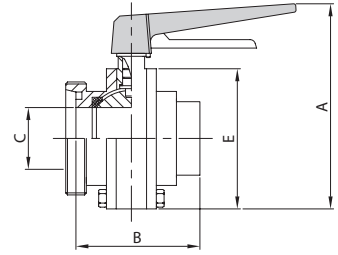
D71



DN	A	B	C	F	gr
40	138,0	73,0	37,0	65-6	1.900
50	155,0	106,0	66,0	96-6	2.900
65	187,0	114,0	81,0	110-4	5.300
80	204,0	114,0	81,0	110-4	6.300

V. SFERA COMPATTA EL./EF.
COMPACT BALL V. PE./ME.
V. BOULE COMPACTE BL./BF.
V. BOLA COMPACTA EL./ER.

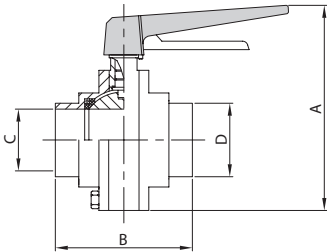
WD71



DN	A	B	C	E	gr
40	138,0	73,0	37,0	81,0	1.750
50	155,0	78,0	49,0	98,0	2.750
65	187,0	109,0	66,0	130,0	5.000
80	204,0	117,5	81,0	147,0	5.800

VALVOLA SFERA EL.
BALL VALVE PE.
VANNE BOULE BL.
VÁLVULA BOLA EL.

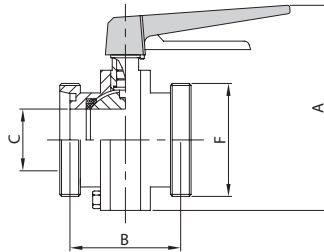
W81



DN	A	B	C	D	gr
40	138,0	73,0	37,0	40,0	1.600
52	155,0	80,0	49,0	52,0	2.600
70	187,0	112,0	66,0	70,0	4.700
85	204,0	121,0	81,0	85,0	5.500

VALVOLA SFERA EF.
BALL VALVE ME.
VANNE BOULE BF.
VÁLVULA BOLA ER.

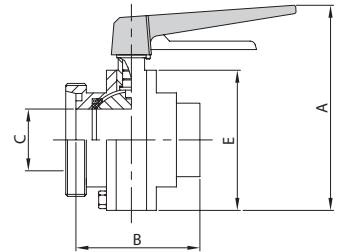
D81



DN	A	B	C	F	gr
40	138,0	73,0	37,0	65-6	1.900
50	155,0	76,0	49,0	78-6	2.900
65	187,0	106,0	66,0	96-6	5.300
80	204,0	114,0	81,0	110-4	6.300

VALVOLA SFERA EL./EF.
BALL VALVE PE./ME.
VANNE BOULE BL./BF.
VÁLVULA BOLA EL./ER.

WD81

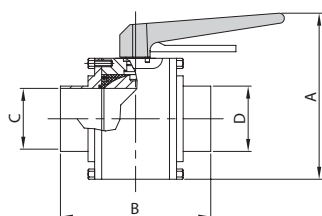


DN	A	B	C	E	gr
40	138,0	73,0	37,0	81,0	1.750
50	155,0	78,0	49,0	98,0	2.750
65	187,0	109,0	66,0	130,0	5.000
80	204,0	117,5	81,0	147,0	5.800



V. SFERA ESTRAIBILE SANIT. EL.
SANIT. EXTRACTABLE BALL V. PE.
V. BOULE EXTRACT. SANIT. BL.
V. BOLA EXTRAIBILE SANIT. EL.

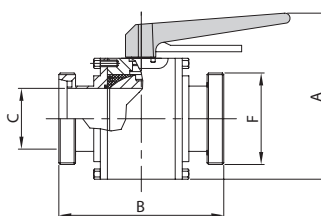
W90



DN	A	B	C	D	gr
28	110,0	96,0	25,0	28,0	1.130
34	130,0	109,0	31,0	34,0	2.070
40	130,0	109,0	37,0	40,0	2.070
52	145,0	124,0	49,0	52,0	2.800
70	168,0	135,0	66,0	70,0	4.840
85	182,0	158,0	81,0	85,0	7.480

V. SFERA ESTRAIBILE SANIT. EF.
SANIT. EXTRACTABLE BALL V. ME.
V. BOULE EXTRACT. SANIT. BF.
V. BOLA EXTRAIBILE SANIT. ER.

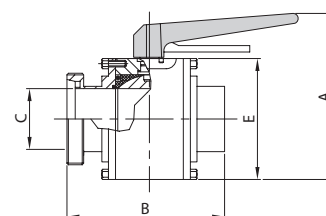
D90



DN	A	B	C	F	gr
25	110,0	88,0	25,0	52-6	1.330
32	130,0	103,0	31,0	58-6	2.370
40	130,0	103,0	37,0	65-6	2.370
50	145,0	116,0	49,0	78-6	3.100
65	168,0	134,0	66,0	95-6	5.440
80	182,0	153,0	81,0	110-4	8.080

V. SFERA ESTR. SANIT. EL./EF.
SANIT. EXTRACT. BALL V. PE./ME.
V. BOULE EXTR. SANIT. BL./BF.
V. BOLA EXTR. SANIT. EL./ER.

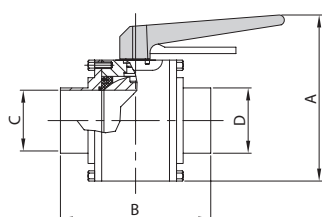
WD90



DN	A	B	C	E	gr
25	110,0	91,5	25,0	60,0	1.230
32	130,0	106,0	31,0	80,0	2.220
40	130,0	106,0	37,0	80,0	2.220
50	145,0	120,0	49,0	95,0	2.950
65	168,0	134,5	66,0	118,0	5.140
80	182,0	155,5	81,0	132,0	7.780

V. SFERA ESTRAIBILE EL.
EXTRACTABLE BALL V. PE.
V. BOULE EXTRACTIBLE BL.
V. BOLA EXTRAIBILE EL.

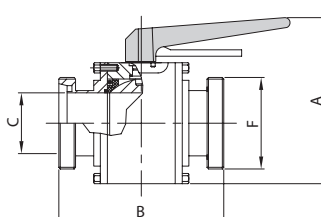
W91



DN	A	B	C	D	gr
28	110,0	96,0	25,0	28,0	1.120
34	130,0	109,0	31,0	34,0	2.060
40	130,0	109,0	37,0	40,0	2.060
52	145,0	124,0	49,0	52,0	2.780
70	168,0	135,0	66,0	70,0	4.820
85	182,0	158,0	81,0	85,0	7.450

V. SFERA ESTRAIBILE EF.
EXTRACTABLE BALL V. ME.
V. BOULE EXTRACTIBLE BF.
V. BOLA EXTRAIBILE ER.

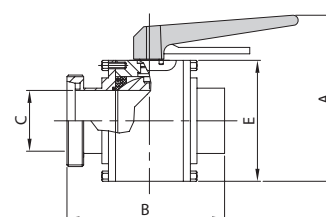
D91



DN	A	B	C	F	gr
25	110,0	88,0	25,0	52-6	1.320
32	130,0	103,0	31,0	58-6	2.360
40	130,0	103,0	37,0	65-6	2.360
50	145,0	116,0	49,0	78-6	3.080
65	168,0	134,0	66,0	95-6	5.420
80	182,0	153,0	81,0	110-4	8.050

V. SFERA ESTRAIBILE EL./EF.
EXTRACTABLE BALL V. PE./ME.
V. BOULE EXTRACTIBLE BL./BF.
V. BOLA EXTRAIBILE EL./ER.

WD91

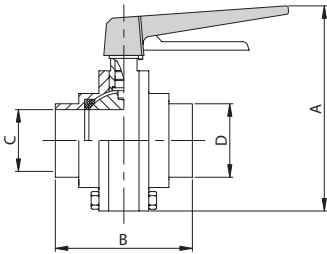


DN	A	B	C	E	gr
25	110,0	91,5	25,0	60,0	1.220
32	130,0	106,0	31,0	80,0	2.210
40	130,0	106,0	37,0	80,0	2.210
50	145,0	120,0	49,0	95,0	2.930
65	168,0	134,5	66,0	118,0	5.120
80	182,0	155,5	81,0	132,0	7.750



V. SFERA COMPATTA EL.
COMPACT BALL V. PE.
V. BOULE COMPACTE BL.
V. BOLA COMPACTA EL.

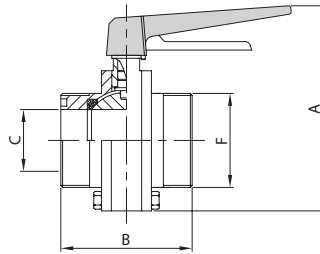
W71



DN	A	B	C	D	gr
38	138,0	73,0	35,1	38,1	1.600
51	155,0	80,0	47,8	50,8	2.600
63	176,0	97,0	60,5	63,5	4.000
76	190,0	109,0	72,9	76,2	5.000

V. SFERA COMPATTA EF.
COMPACT BALL V. ME.
V. BOULE COMPACTE BF.
V. BOLA COMPACTA ER.

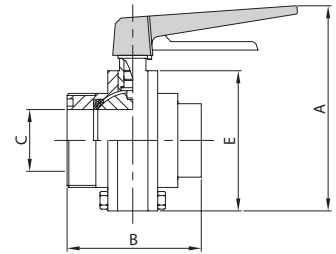
S71



DN	A	B	C	F	gr
38	138,0	87,0	35,1	60-6	1.900
51	155,0	90,0	47,8	70-6	2.900
63	176,0	105,0	60,5	85-6	4.600
76	190,0	121,0	72,9	98-6	5.600

V. SFERA COMPATTA EL./EF.
COMPACT BALL V. PE./ME.
V. BOULE COMPACTE BL./BF.
V. BOLA COMPACTA EL./ER.

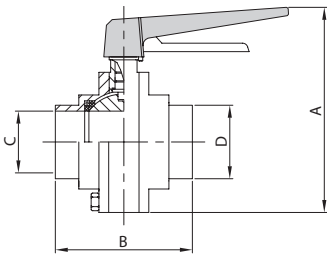
WS71



DN	A	B	C	E	gr
38	138,0	80,0	35,1	81,0	1.750
51	155,0	85,0	47,8	98,0	2.750
63	176,0	101,0	60,5	119,0	4.300
76	190,0	115,0	72,9	133,0	5.300

VALVOLA SFERA EL.
BALL VALVE PE.
VANNE BOULE BL.
VÁLVULA BOLA EL.

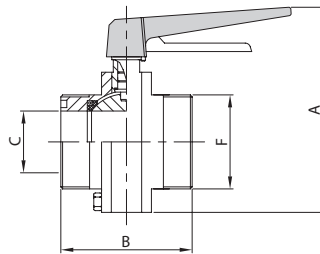
W81



DN	A	B	C	D	gr
38	138,0	73,0	35,1	38,1	1.600
51	155,0	80,0	47,8	50,8	2.600
63	176,0	97,0	60,5	63,5	4.000
76	190,0	109,0	72,9	76,2	5.000

VALVOLA SFERA EF.
BALL VALVE ME.
VANNE BOULE BF.
VÁLVULA BOLA ER.

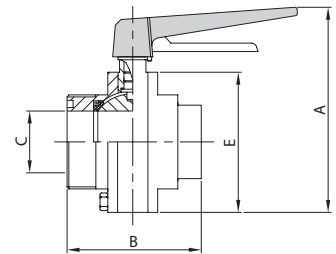
S81



DN	A	B	C	F	gr
38	138,0	87,0	35,1	60-6	1.900
51	155,0	90,0	47,8	70-6	2.900
63	176,0	105,0	60,5	85-6	4.600
76	190,0	121,0	72,9	98-6	5.600

VALVOLA SFERA EL./EF.
BALL VALVE PE./ME.
VANNE BOULE BL./BF.
VÁLVULA BOLA EL./ER.

WS81

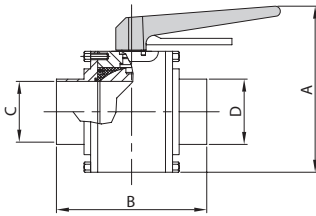


DN	A	B	C	E	gr
38	138,0	80,0	35,1	81,0	1.750
51	155,0	85,0	47,8	98,0	2.750
63	176,0	101,0	60,5	119,0	4.300
76	190,0	115,0	72,9	133,0	5.300



V. SFERA ESTRAIBILE SANIT. EL.
SANIT. EXTRACTABLE BALL V. PE.
V. BOULE EXTRACT. SANIT. BL.
V. BOLA EXTRAIBILE SANIT. EL.

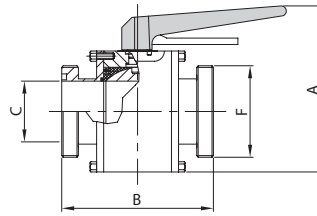
W90



DN	A	B	C	D	gr
25	110,0	96,0	22,1	25,4	1.130
38	130,0	109,0	34,8	38,1	2.070
51	145,0	124,0	47,5	50,8	2.800
63	168,0	135,0	60,2	63,5	4.840
76	182,0	158,0	72,0	76,2	7.480

V. SFERA ESTRAIBILE SANIT. EF.
SANIT. EXTRACTABLE BALL V. ME.
V. BOULE EXTRACT. SANIT. BF.
V. BOLA EXTRAIBILE SANIT. ER.

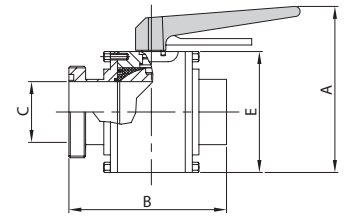
S90



DN	A	B	C	F	gr
25	110,0	96,0	22,1	40-6	1.330
38	130,0	120,0	34,8	60-6	2.370
51	145,0	134,0	47,5	70-6	3.100
63	168,0	156,0	60,2	85-6	5.440
76	182,0	167,0	72,0	98-6	8.080

V. SFERA ESTR. SANIT. EL./EF.
SANIT. EXTRACT. BALL V. PE./ME.
V. BOULE EXTR. SANIT. BL./BF.
V. BOLA EXTR. SANIT. EL./ER.

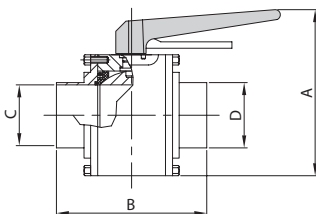
WS90



DN	A	B	C	E	gr
25	110,0	96,0	22,1	60,0	1.230
38	130,0	114,5	34,8	80,0	2.220
51	145,0	129,0	47,5	95,0	2.950
63	168,0	145,5	60,2	118,0	5.140
76	182,0	162,5	72,0	132,0	7.780

V. SFERA ESTRAIBILE EL.
EXTRACTABLE BALL V. PE.
V. BOULE EXTRACTIBLE BL.
V. BOLA EXTRAIBILE EL.

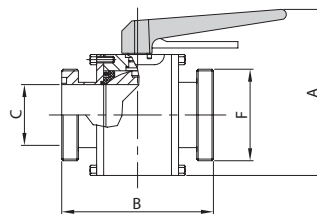
W91



DN	A	B	C	D	gr
25	110,0	96,0	22,1	25,4	1.120
38	130,0	109,0	34,8	38,1	2.060
51	145,0	124,0	47,5	50,8	2.780
63	168,0	135,0	60,2	63,5	4.820
76	182,0	158,0	72,0	76,2	7.450

V. SFERA ESTRAIBILE EF.
EXTRACTABLE BALL V. ME.
V. BOULE EXTRACTIBLE BF.
V. BOLA EXTRAIBILE ER.

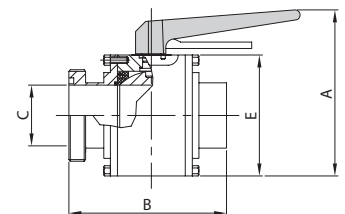
S91



DN	A	B	C	F	gr
25	110,0	96,0	22,1	40-6	1.320
38	130,0	120,0	34,8	60-6	2.360
51	145,0	134,0	47,5	70-6	3.080
63	168,0	156,0	60,2	85-6	5.420
76	182,0	167,0	72,0	98-6	8.050

V. SFERA ESTRAIBILE EL./EF.
EXTRACTABLE BALL V. PE./ME.
V. BOULE EXTRACTIBLE BL./BF.
V. BOLA EXTRAIBILE EL./ER.

WS91

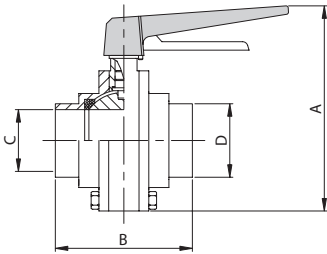


DN	A	B	C	E	gr
25	110,0	96,0	22,1	60,0	1.220
38	130,0	114,5	34,8	80,0	2.210
51	145,0	129,0	47,5	95,0	2.930
63	168,0	145,5	60,2	118,0	5.120
76	182,0	162,5	72,0	132,0	7.750



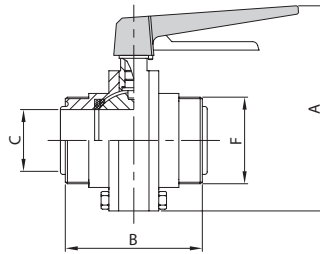
V. SFERA COMPATTA EL.
COMPACT BALL V. PE.
V. BOULE COMPACTE BL.
V. BOLA COMPACTA EL.

W71



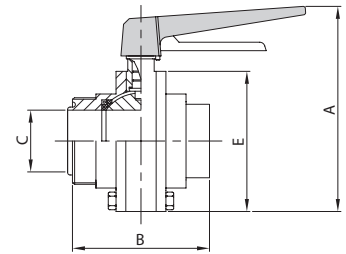
V. SFERA COMPATTA EF.
COMPACT BALL V. ME.
V. BOULE COMPACTE BF.
V. BOLA COMPACTA ER.

B71



V. SFERA COMPATTA EL./EF.
COMPACT BALL V. PE./ME.
V. BOULE COMPACTE BL./BF.
V. BOLA COMPACTA EL./ER.

WB71



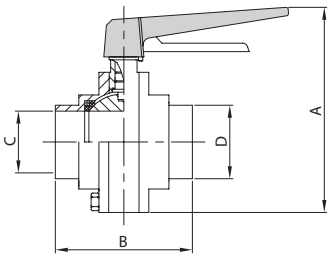
DN	A	B	C	D	gr
38	138,0	73,0	35,1	38,1	1.600
51	155,0	80,0	47,8	50,8	2.600
63	176,0	97,0	60,5	63,5	4.000
76	190,0	109,0	72,9	76,2	5.000

DN	A	B	C	F	gr
38	138,0	88,0	34,8	58-8	1.900
51	155,0	94,0	47,5	73-6	2.900
63	176,0	102,0	60,2	85-6	4.600
76	190,0	116,0	72,9	98-6	5.600

DN	A	B	C	E	gr
38	138,0	80,5	34,8	81,0	1.750
51	155,0	87,0	47,5	98,0	2.750
63	176,0	99,5	60,2	119,0	4.300
76	190,0	112,5	72,9	133,0	5.300

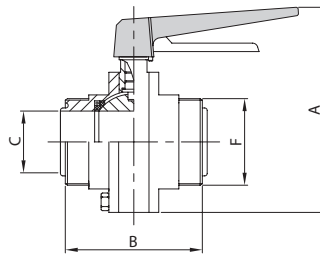
VALVOLA SFERA EL.
BALL VALVE PE.
VANNE BOULE BL.
VÁLVULA BOLA EL.

W81



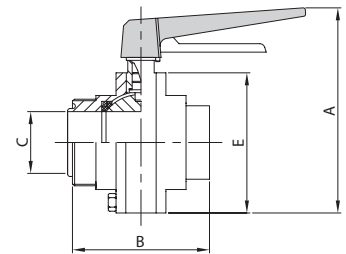
VALVOLA SFERA EF.
BALL VALVE ME.
VANNE BOULE BF.
VÁLVULA BOLA ER.

B81



VALVOLA SFERA EL./EF.
BALL VALVE PE./ME.
VANNE BOULE BL./BF.
VÁLVULA BOLA EL./ER.

WB81



DN	A	B	C	D	gr
38	138,0	73,0	35,1	38,1	1.600
51	155,0	80,0	47,8	50,8	2.600
63	176,0	97,0	60,5	63,5	4.000
76	190,0	109,0	72,9	76,2	5.000

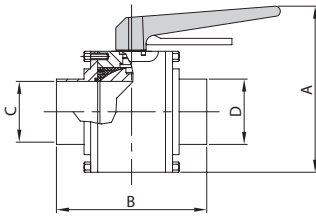
DN	A	B	C	F	gr
38	138,0	88,0	34,8	58-8	1.900
51	155,0	94,0	47,5	73-6	2.900
63	176,0	102,0	60,2	85-6	4.600
76	190,0	116,0	72,9	98-6	5.600

DN	A	B	C	E	gr
38	138,0	80,5	34,8	81,0	1.750
51	155,0	87,0	47,5	98,0	2.750
63	176,0	99,5	60,2	119,0	4.300
76	190,0	112,5	72,9	133,0	5.300



V. SFERA ESTRAIBILE SANIT. EL.
SANIT. EXTRACTABLE BALL V. PE.
V. BOULE EXTRACT. SANIT. BL.
V. BOLA EXTRAIBILE SANIT. EL.

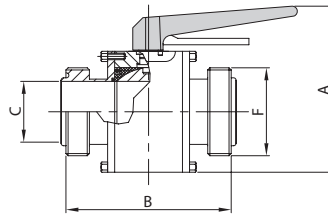
W90



DN	A	B	C	D	gr
25	110,0	96,0	22,1	25,4	1.130
38	130,0	109,0	34,8	38,1	2.070
51	145,0	124,0	47,5	50,8	2.800
63	168,0	135,0	60,2	63,5	4.840
76	182,0	158,0	72,0	76,2	7.480

V. SFERA ESTRAIBILE SANIT. EF.
SANIT. EXTRACTABLE BALL V. ME.
V. BOULE EXTRACT. SANIT. BF.
V. BOLA EXTRAIBILE SANIT. ER.

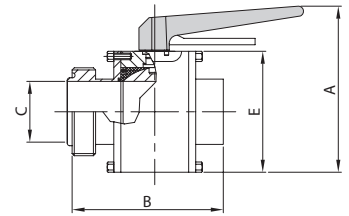
B90



DN	A	B	C	F	gr
25	110,0	102,0	22,1	46-8	1.330
38	130,0	119,0	34,8	58-8	2.370
51	145,0	130,0	47,5	73-6	3.100
63	168,0	146,0	60,2	85-6	5.440
76	182,0	158,0	72,0	98-6	8.080

V. SFERA ESTR. SANIT. EL./EF.
SANIT. EXTRACT. BALL V. PE./ME.
V. BOULE EXTR. SANIT. BL./BF.
V. BOLA EXTR. SANIT. EL./ER.

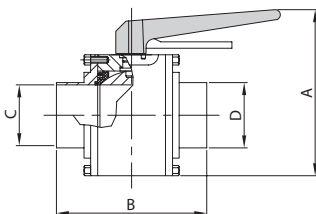
WB90



DN	A	B	C	E	gr
25	110,0	99,0	22,1	60,0	1.230
38	130,0	114,0	34,8	80,0	2.220
51	145,0	127,0	47,5	95,0	2.950
63	168,0	140,5	60,2	118,0	5.140
76	182,0	158,0	72,0	132,0	7.780

V. SFERA ESTRAIBILE EL.
EXTRACTABLE BALL V. PE.
V. BOULE EXTRACTIBLE BL.
V. BOLA EXTRAIBILE EL.

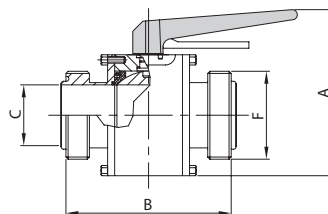
W91



DN	A	B	C	D	gr
25	110,0	96,0	22,1	25,4	1.120
38	130,0	109,0	34,8	38,1	2.060
51	145,0	124,0	47,5	50,8	2.780
63	168,0	135,0	60,2	63,5	4.820
76	182,0	158,0	72,0	76,2	7.450

V. SFERA ESTRAIBILE EF.
EXTRACTABLE BALL V. ME.
V. BOULE EXTRACTIBLE BF.
V. BOLA EXTRAIBILE ER.

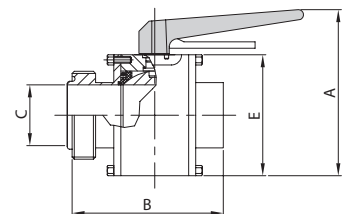
B91



DN	A	B	C	F	gr
25	110,0	102,0	22,1	46-8	1.320
38	130,0	119,0	34,8	58-8	2.360
51	145,0	130,0	47,5	73-6	3.080
63	168,0	146,0	60,2	85-6	5.420
76	182,0	158,0	72,0	98-6	8.050

V. SFERA ESTRAIBILE EL./EF.
EXTRACTABLE BALL V. PE./ME.
V. BOULE EXTRACTIBLE BL./BF.
V. BOLA EXTRAIBILE EL./ER.

WB91

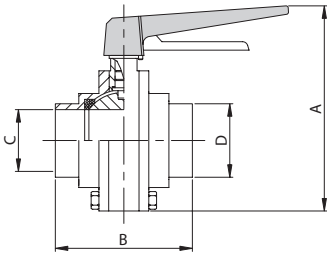


DN	A	B	C	E	gr
25	110,0	99,0	22,1	60,0	1.220
38	130,0	114,0	34,8	80,0	2.210
51	145,0	127,0	47,5	95,0	2.930
63	168,0	140,5	60,2	118,0	5.120
76	182,0	158,0	72,0	132,0	7.750



V. SFERA COMPATTA EL.
COMPACT BALL V. PE.
V. BOULE COMPACTE BL.
V. BOLA COMPACTA EL.

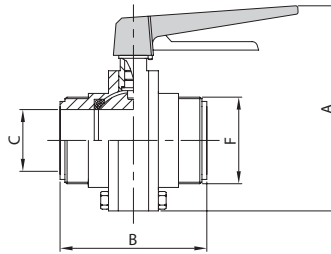
W71



DN	A	B	C	D	gr
38	138,0	73,0	35,1	38,1	1.600
51	155,0	80,0	47,8	50,8	2.600
63	176,0	97,0	60,5	63,5	4.000
76	190,0	109,0	72,9	76,2	5.000

V. SFERA COMPATTA EF.
COMPACT BALL V. ME.
V. BOULE COMPACTE BF.
V. BOLA COMPACTA ER.

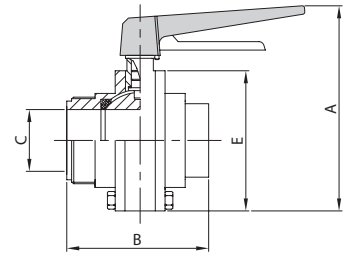
I71



DN	A	B	C	F	gr
38	138,0	93,0	34,8	50-8	1.900
51	155,0	104,0	47,5	64-8	2.900
63	176,0	120,0	60,2	77-8	4.600
76	190,0	131,0	72,9	91-8	5.600

V. SFERA COMPATTA EL./EF.
COMPACT BALL V. PE./ME.
V. BOULE COMPACTE BL./BF.
V. BOLA COMPACTA EL./ER.

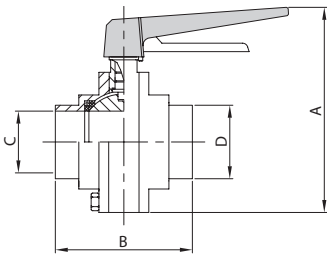
WI71



DN	A	B	C	E	gr
38	138,0	83,0	34,8	81,0	1.750
51	155,0	92,0	47,5	98,0	2.750
63	176,0	108,0	60,2	119,0	4.300
76	190,0	120,0	72,9	133,0	5.300

VALVOLA SFERA EL.
BALL VALVE PE.
VANNE BOULE BL.
VÁLVULA BOLA EL.

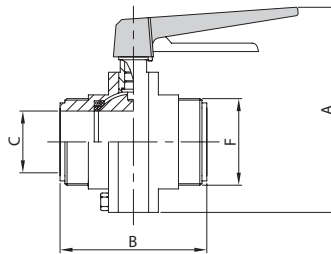
W81



DN	A	B	C	D	gr
38	138,0	73,0	35,1	38,1	1.600
51	155,0	80,0	47,8	50,8	2.600
63	176,0	97,0	60,5	63,5	4.000
76	190,0	109,0	72,9	76,2	5.000

VALVOLA SFERA EF.
BALL VALVE ME.
VANNE BOULE BF.
VÁLVULA BOLA ER.

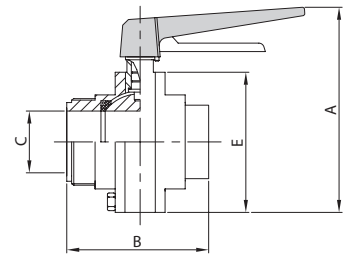
I81



DN	A	B	C	F	gr
38	138,0	93,0	34,8	50-8	1.900
51	155,0	104,0	47,5	64-8	2.900
63	176,0	120,0	60,2	77-8	4.600
76	190,0	131,0	72,9	91-8	5.600

VALVOLA SFERA EL./EF.
BALL VALVE PE./ME.
VANNE BOULE BL./BF.
VÁLVULA BOLA EL./ER.

WI81

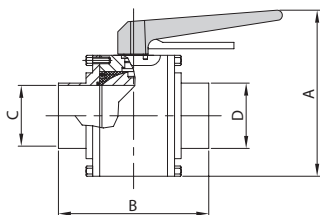


DN	A	B	C	E	gr
38	138,0	83,0	34,8	81,0	1.750
51	155,0	92,0	47,5	98,0	2.750
63	176,0	108,0	60,2	119,0	4.300
76	190,0	120,0	72,9	133,0	5.300



V. SFERA ESTRAIBILE SANIT. EL.
SANIT. EXTRACTABLE BALL V. PE.
V. BOULE EXTRACT. SANIT. BL.
V. BOLA EXTRAIBILE SANIT. EL.

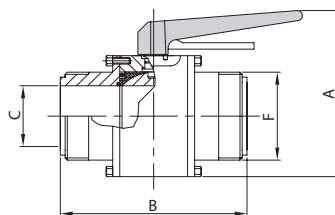
W90



DN	A	B	C	D	gr
25	110,0	96,0	22,1	25,4	1.130
38	130,0	109,0	34,8	38,1	2.070
51	145,0	124,0	47,5	50,8	2.800
63	168,0	135,0	60,2	63,5	4.840
76	182,0	158,0	72,0	76,2	7.480

V. SFERA ESTRAIBILE SANIT. EF.
SANIT. EXTRACTABLE BALL V. ME.
V. BOULE EXTRACT. SANIT. BF.
V. BOLA EXTRAIBILE SANIT. ER.

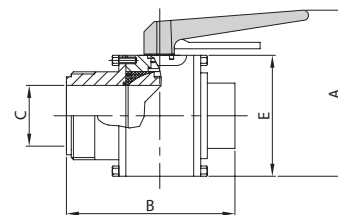
I90



DN	A	B	C	F	gr
25	110,0	108,0	22,1	37-8	1.330
38	130,0	123,0	34,8	50-8	2.370
51	145,0	136,0	47,5	64-8	3.100
63	168,0	150,0	60,2	77-8	5.440
76	182,0	161,0	72,0	91-8	8.080

V. SFERA ESTR. SANIT. EL./EF.
SANIT. EXTRACT. BALL V. PE./ME.
V. BOULE EXTR. SANIT. BL./BF.
V. BOLA EXTR. SANIT. EL./ER.

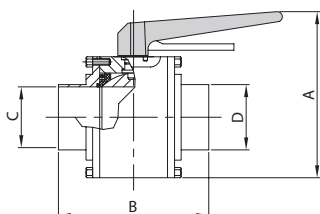
WI90



DN	A	B	C	E	gr
25	110,0	102,0	22,1	60,0	1.230
38	130,0	116,0	34,8	80,0	2.220
51	145,0	130,0	47,5	95,0	2.950
63	168,0	142,5	60,2	118,0	5.140
76	182,0	159,5	72,0	132,0	7.780

V. SFERA ESTRAIBILE EL.
EXTRACTABLE BALL V. PE.
V. BOULE EXTRACTIBLE BL.
V. BOLA EXTRAIBILE EL.

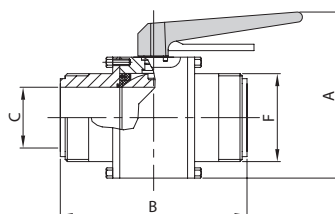
W91



DN	A	B	C	D	gr
25	110,0	96,0	22,1	25,4	1.120
38	130,0	109,0	34,8	38,1	2.060
51	145,0	124,0	47,5	50,8	2.780
63	168,0	135,0	60,2	63,5	4.820
76	182,0	158,0	72,0	76,2	7.450

V. SFERA ESTRAIBILE EF.
EXTRACTABLE BALL V. ME.
V. BOULE EXTRACTIBLE BF.
V. BOLA EXTRAIBILE ER.

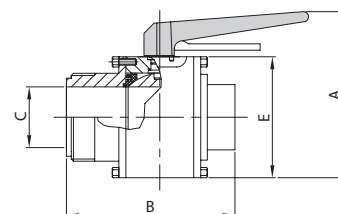
I91



DN	A	B	C	F	gr
25	110,0	108,0	22,1	37-8	1.320
38	130,0	123,0	34,8	50-8	2.360
51	145,0	136,0	47,5	64-8	3.080
63	168,0	150,0	60,2	77-8	5.420
76	182,0	161,0	72,0	91-8	8.050

V. SFERA ESTRAIBILE EL./EF.
EXTRACTABLE BALL V. PE./ME.
V. BOULE EXTRACTIBLE BL./BF.
V. BOLA EXTRAIBILE EL./ER.

WI91

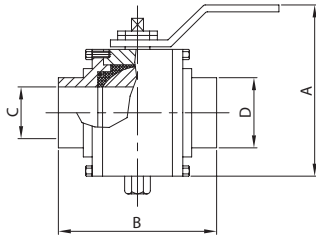


DN	A	B	C	E	gr
25	110,0	102,0	22,1	60,0	1.220
38	130,0	116,0	34,8	80,0	2.210
51	145,0	130,0	47,5	95,0	2.930
63	168,0	142,5	60,2	118,0	5.120
76	182,0	159,5	72,0	132,0	7.750



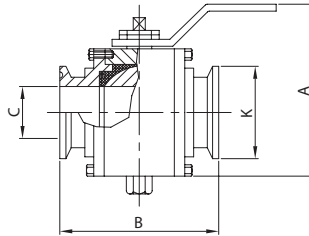
V. SFERA SAN. DRENAGGIO EL.
SAN. DRAINAGE BALL V. PE.
V. BOULE SAN. DRAINAGE BL.
V. BOLA SAN. DRENAJE EL.

W50



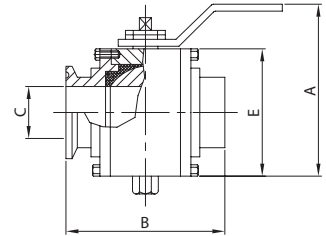
V. SFERA SAN. DR. E. SM.
SAN. DR. BALL V. E. FR.
V. BOULE SAN. DR. B. FR.
V. BOLA SAN. DR. E. SM.

K50



V. SFERA SAN. DR. EL./E. SM.
SAN. DR. BALL V. PE./E. FR.
V. BOULE SAN. DR. BL./B. FR.
V. BOLA SAN. DR. EL./E. SM.

WK50



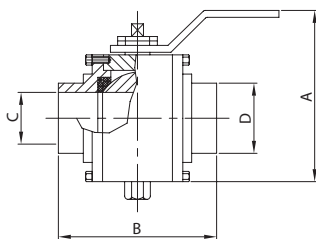
DN	A	B	C	D	gr	
1"	25	90,0	95,0	22,1	25,4	1.100
1 1/2"	38	110,0	107,0	34,8	38,1	2.090
2"	51	126,0	118,0	47,5	50,8	3.140
2 1/2"	63	143,0	135,0	60,2	63,5	4.730
3"	76	163,0	158,0	72,0	76,2	6.940
4"	101	202,0	170,0	97,4	101,6	13.570

DN	A	B	C	K	gr	
1"	25	90,0	95,0	22,1	50,5	1.120
1 1/2"	38	110,0	107,0	34,8	50,5	2.120
2"	51	126,0	118,0	47,5	64,0	3.190
2 1/2"	63	143,0	135,0	60,2	77,5	4.790
3"	76	163,0	158,0	72,0	91,0	7.010
4"	101	202,0	170,0	97,4	119,0	13.670

DN	A	B	C	E	gr	
1"	25	90,0	95,0	22,1	58,0	1.110
1 1/2"	38	110,0	107,0	34,8	77,0	2.105
2"	51	126,0	118,0	47,5	93,0	3.165
2 1/2"	63	143,0	135,0	60,2	113,0	4.760
3"	76	163,0	158,0	72,0	129,0	6.975
4"	101	202,0	170,0	97,4	169,0	13.620

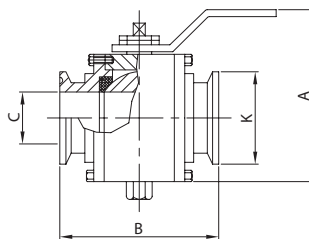
VALVOLA SFERA DRENAGGIO EL.
DRAINAGE BALL VALVE PE.
VANNE BOULE DRAINAGE BL.
VÁLVULA BOLA DRENAJE EL.

W51



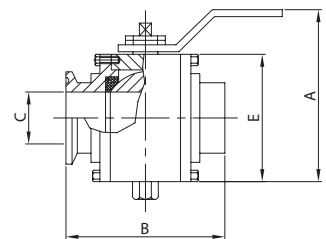
V. SFERA DRENAGGIO E. SM.
DRAINAGE BALL V. E. FR.
V. BOULE DRAINAGE B. FR.
V. BOLA DRENAJE E. SM.

K51



V. SFERA DRENAGGIO EL./E. SM.
DRAINAGE BALL V. PE./E. FR.
V. BOULE DRAINAGE BL./B. FR.
V. BOLA DRENAJE EL./E. SM.

WK51



DN	A	B	C	D	gr	
1"	25	90,0	95,0	22,1	25,4	1.090
1 1/2"	38	110,0	107,0	34,8	38,1	2.080
2"	51	126,0	118,0	47,5	50,8	3.120
2 1/2"	63	143,0	135,0	60,0	63,5	4.710
3"	76	163,0	158,0	72,0	76,2	6.910
4"	101	202,0	170,0	97,0	101,6	13.530

DN	A	B	C	K	gr	
1"	25	90,0	95,0	22,1	50,5	1.110
1 1/2"	38	110,0	107,0	34,8	50,5	2.110
2"	51	126,0	118,0	47,5	64,0	3.170
2 1/2"	63	143,0	135,0	60,0	77,5	4.770
3"	76	163,0	158,0	72,0	91,0	6.980
4"	101	202,0	170,0	97,0	119,0	13.630

DN	A	B	C	E	gr	
1"	25	90,0	95,0	22,1	58,0	1.110
1 1/2"	38	110,0	107,0	34,8	77,0	2.095
2"	51	126,0	118,0	47,5	93,0	3.145
2 1/2"	63	143,0	135,0	60,0	113,0	4.740
3"	76	163,0	158,0	72,0	129,0	6.945
4"	101	202,0	170,0	97,0	169,0	13.580