

DV

PN 16

Class 150



CONSTRUCTION & DESIGN

In L, T or X Full bore
3 or 4 way
Floating ball, supported by four seats
Anti-static device
Blow-out proof stem

STANDARDS

Design
Flanges
Screwed ends
Face to face
Top flange
Testings

DIN
DIN 3357
EN 1092 part 1
ISO 228/1
Estánd. fab. - Manuf. std.
ISO 5211/Capi ADDS 2.02
EN 12266/1

ANSI
BS 5351
ASME B16.5 RF
ASME B1.20.1 NPT

FEATURES

High performance double stuffing box and low emissions
Internal wetted parts are acc. NACE Standard MRO175

OPTIONS

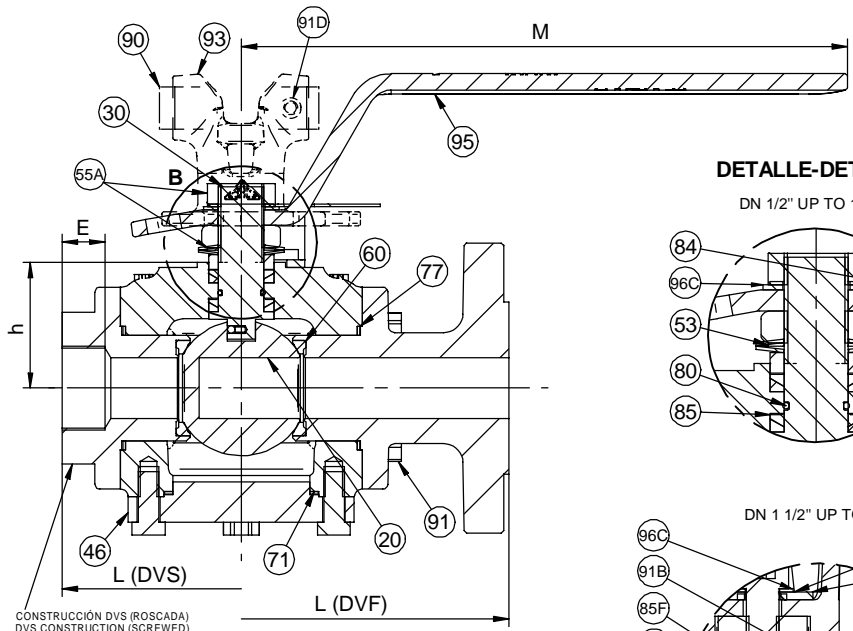
DIN PN 40
ANSI Class 300

MATERIALS		SS	CS
1	Bodies	EN 10213-4 1.4408	EN 10213-2 1.0619
2	Seats	PTFE-MOD	
3	Stem	ASTMA-479 316	
4	Ball	EN 10213-4 1.4408	
5	Gaskets	PTFE	
6	Bolts	A4-70	8.8

DV-F	DV-S	D	DV-F	DV-S	M	N	h	ISO 5211	Cv				PN 16 / Class 150	DV-F	DV-S
									L	T ^(*)	X	TORQUE ^(*)	WEIGHT		
DN	NPS	mm										Nm	Kg		
15	1/2"	13	175	120	180	107	32,5	F03	9	8,6	18	6,3	7	6,7	4,2
20	3/4"	18	190	130	180	119	42	F04	15	15	36	11,2	16	8,8	5,5
25	1"	24	212	142	240	124	50	F05	24	24	60	18,5	20	11,8	7,6
32	1 1/4"	30	220	171	240	132	57	F05	39	39	106	29	44	16,5	10,9
40	1 1/2"	40	260	190	320	161	89,5	F07	61	61	175	45	67	25,3	18
50	2"	50	290	218	320	168	96,5	F07	95	95	294	70	99	32,8	23,7
65	-	65	325	-	550	201,5	120	F10	161	161	536	118	153	53,2	-
80	-	80	370	-	550	216,5	135	F10	243	343	862	179	259	77,6	-
100	-	100	450	-	700	288	177,5	F12	380	380	1432	280	409	130,5	-
125	-	125	460	-	700	281	170,5	F12	513	613	2483	425	618	144,9	-
150	-	150	500	-	700	328	198	F14	855	855	3632	630	781	190,7	-

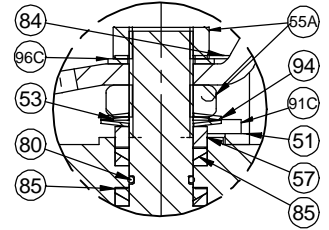
(*) Normally expected torque, in clean conditions. For actuator sizing allow adequate safety factor.

(1) Smaller Cv belongs to 90° L conf., bigger Cv belongs to straight bore.

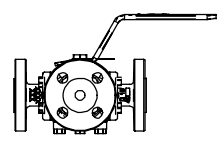
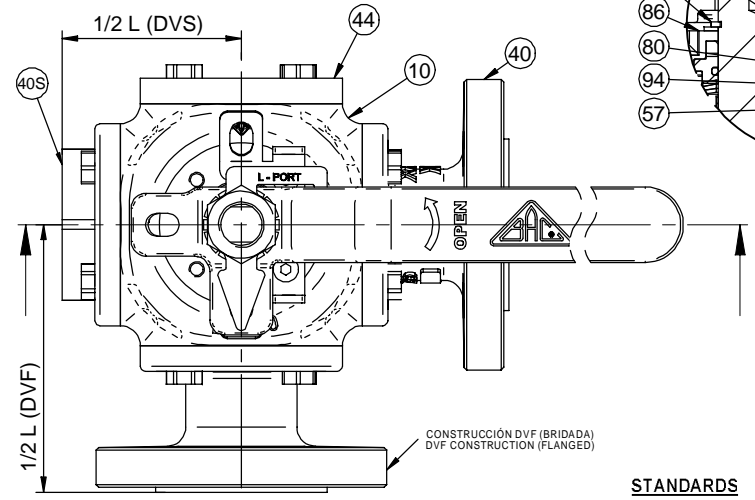
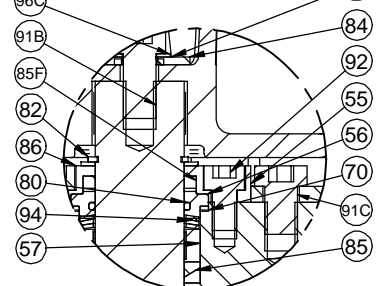


DETALLE-DETAIL B

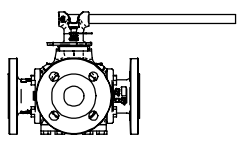
DN 1/2" UP TO 1 1/4"



DN 1 1/2" UP TO 6"



DN 1/2" UP TO 1 1/4"

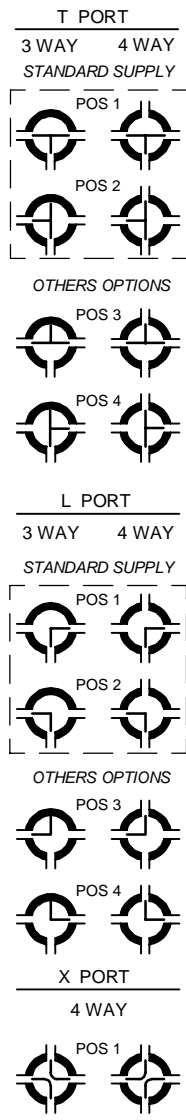


DN 1 1/2" UP TO 6"

STANDARDS

- FLANGED ASME B16.5RF
- FEMALE SCREWED ENDS ANSI B 1.20.1 NPT
- ANTI-STATIC BS 5351
- INTERNAL WETTED PARTS NACE MR0175
- TOP FLANGE ISO 5211

- ACC. CAPI SPEC. ADDS 2.02



Size DN	15	20	25	32	40	50	65	80	100	125	150
D	13	18	24	30	40	50	65	80	100	125	150
L (DVF)	175	190	212	220	260	290	325	370	450	460	500
L (DVS)	120	130	142	171	190	218					
N	106.7	119	124	132	161	168	201.5	216.5	288.2	281.2	327.7
h	32.5	42	49.75	57	89.5	96.5	120	135	177.5	170.5	198
E	14	19	17	18	18	18					
M	180	180	240	240	320	320	550	550	695	695	685
ISO 5211	F03	F04	F05	F05	F07	F07	F10	F10	F12	F12	F14
WEIGHT Kg. DVF	6.6	8.9	11.8	16.7	25.3	32.8	51.8	78.6	130.8	144.9	190.7
WEIGHT Kg. DVS	4.2	5.5	7.6	10.9	18	23.3					

96C	WASHER DIN 6798.A	1		A2-70 DIN 267/11
96	WASHER	1		SS 304 (1.4301)
95	WRENCH	1		SS 304 (1.4301)
94	SPRING WASHER	2 / 3		SS 316
93	WRENCH SUPPORT	1		NI GGG-40
92	GLAND BOLT DIN 912	4		A2-70 DIN 267/11
91D	WRENCH SUPPORT BOLT	1		A2-70 DIN 267/11
91C	STOP PLATE BOLT DIN 7984	2		A2-70 DIN 267/11
91B	WRENCH BOLT DIN 933	1		A2-70 DIN 267/11
90	WRENCH TUBE	1		CS ST.42 (ZNC PLATED)
91	BODY CONNECTOR BOLT DN 933		A4-70 DIN 267/11	C. STEEL 8.8
86	AXIAL BEARING	1 / 2		PTFE VIRGIN
85F	FIRESAFE STEM SEAL	1		GRAPHITE
85	GLAND PACKING	1		PTFE MOD.
84	PORT INDICATOR	1		SS 304 (1.4301)
82	CIRCLIP DIN 471	1		SS 420 (1.4034)
80	O-RING	1		VITON PTFE COATING
77	INSERT GASKET	1		PTFE
71	BODY SEAL	1		PTFE
70	TOP SEAL	1		PTFE
60	SEAT	2		PTFE MOD.
57	GUIDE RING	1		SS 316 (1.4401)
56	FOLLOWER	1		SS 316 (1.4401)
55A	TOP FLANGE BOLT DIN 439	2		A2-70 DIN 267/11
55	GLAND PLATE	1	SS 304 (1.4301)	C. STEEL
53	LOCK WASHER	1		SS 304 (1.4301)
51	INDICATOR	1		SS 304 (1.4301)
46	BOTTOM COVER	1	EN 10213-4 (1.4408)	EN 10213-2 2.0619 DN 17243 1.0460
44	END FLANGE		EN 10213-4 (1.4408)	EN 10213-2 2.0619 DN 17243 1.0460
40S	BODY CONNECTOR (DVS)		EN 10213-4 (1.4408)	EN 10213-2 2.0619 DN 17243 1.0460
40	BODY CONNECTOR (DVF)		EN 10213-4 (1.4408)	EN 10213-2 2.0619 DN 17243 1.0460
30	STEM	1		SS 316 (1.4401)
20	BALL	1		ASTM A-351 CF8M OR SS 316 (1.4401)
10	BODY	1	ASTM A-351 CF8M	ASTM A-218 WCC ASTMA-105 N
POS.	DENOMINATION	QTY.	MATERIAL SS VERSION	MATERIAL CS VERSION



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Título / Title PLANO GENERAL CON LISTA DE MATERIALES VÁLVULA DE BOLA TIPO DVF #150, DVS NPT GENERAL DRAWING WITH MATERIAL LIST BALL VALVE DVF #150, DVS NPT, TYPES		Dibujado / Drawn Natalia García	Escala / Scale
Aprobado / Approved Carles Bach		Fecha / Date	
Plano nº / Drawing nr. 18-1001		Rev.	

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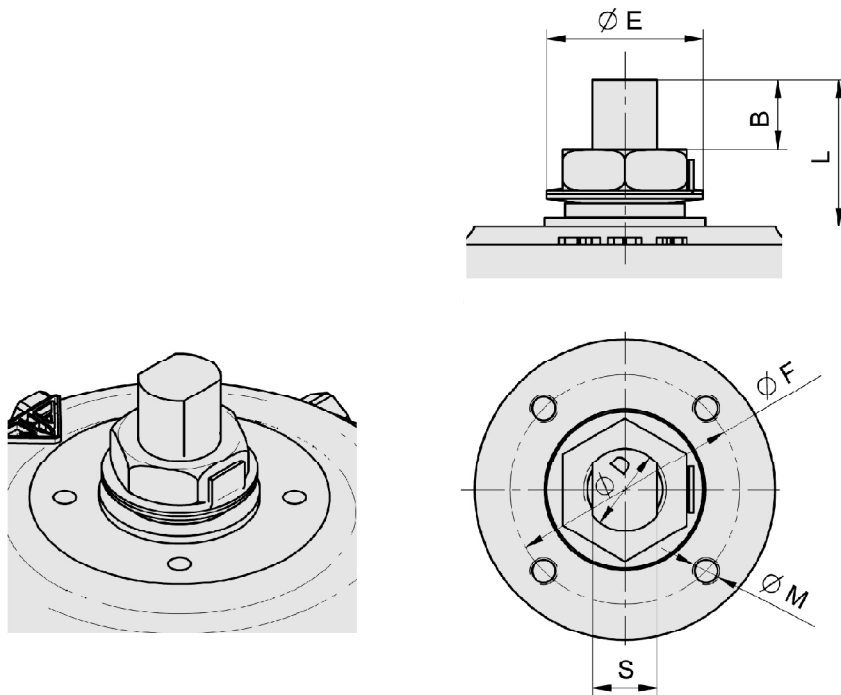


BAC VALVES

DIMENSIONES SALIDA DE EJE
BARE STEM DIMENSIONS

DT-BV28 Rev. 0

DV-F, DV-S



		ISO 5211	Ø D	S	Ø F	M	L	B	Ø E
15	1/2"	F03	12	9	36	M5	21.5	10	25
20	3/4"	F04	14	11	42	M5	27	13	30
25	1"	F05	18	14	50	M6	32	15	35
32	1 1/4"	F05	18	14	50	M6	32	15	35

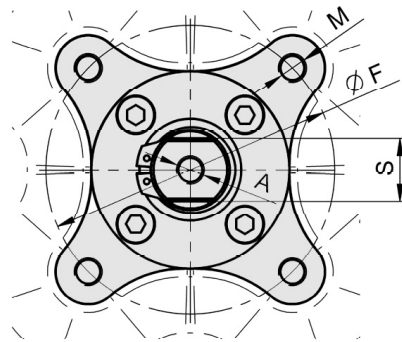
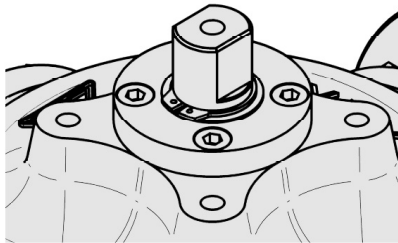
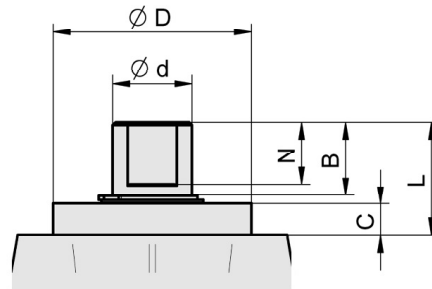


BAC VALVES

DIMENSIONES SALIDA DE EJE
BARE STEM DIMENSIONS

DT-BV28 Rev. 0

DV-F, DV-S



		ISO 5211	Ø D	Ø F	C	Ø d	S	A	B	Ø M	N	L
40	1 ½"	F07	55	70	9	22	17	M8	19	M8	17	30
50	2"	F07	55	70	9	22	17	M8	19	M8	17	30
65	2 ½"	F10	70	102	11	28	22	M10	26	M10	22	40
80	3"	F10	70	102	11	28	22	M10	26	M10	22	40
100	4"	F12	85	125	14	36	27	M12	32.5	M12	27	50
125	5"	F12	85	125	14	36	27	M12	32.5	M12	27	50
150	6"	F14	100	140	17	48	36	M16	42	M16	36	63



VALORES DE PARES PARA CONDICIONES ESTÁNDAR (Nm)
VALUES OF TORQUES FOR STANDARD CONDITIONS (Nm)

Agua limpia, asientos PTFE MOD., temperatura ambiente - Clean water, PTFE MOD. seats, room temperature

DIMENSION VÁLVULA VALVE SIZE		DE CERRADO A ABIERTO - FROM CLOSE TO OPEN				MAX. PAR PERMITIDO DEL EJE MAX. ALLOWABLE STEM TORQUE SS 316
		PRESIÓN DIFERENCIAL (BAR) DIFERENCIAL PRESSURE (BAR)				
DN	NPS	PN 16 - CLASS 150				Nm
		6	10	16	20	
15	1/2	6	6	6	7	36
20	3/4	15	16	16	16	63
25	1	20	20	20	20	135
32	1 ¼	37	39	42	44	135
40	1 ½	57	59	64	67	264
50	2	76	83	92	99	264
65	2 ½	128	135	146	153	559
80	3	218	229	247	259	559
100	4	302	333	378	409	1099
125	5	482	521	579	618	1099
150	6	651	686	742	781	2604

FACTORES EN RELACION A LA POSICIÓN DE LA VÁLVULA

Par arranque desde abierto :70%
 Par de giro :50%
 Par final cierre :65%

valor de la tabla

FACTORS IN RELATION TO VALVE POSITION

Break away from open :70%
 Runnig valve :40%
 Reseating valve :65%

from table value

FACTORES DE SEGURIDAD PARA DIMENSIONES DE ACTUADORES

Para condiciones estándar :x 1.5
 Para condiciones severas :x 2
 Larga inactividad :x 2 mínimo (1)

SAFETY FACTORS FOR ACTUATOR SIZING

For standard conditions :x 1.5
 For severe conditions :x 2
 Long inactivity :x 2 minimum (1)

Nota: Se aconseja que las válvulas deben ser actuadas rutinariamente. Las válvulas no operadas por largos periodos de tiempo pueden provocar muy elevados pares de accionamientos.

(1) En condiciones severas cuando el par de la válvula, supera el máximo par permitido del eje, se aconseja aplicar un material adecuado.

Note: It is advisable that valves should be routinely actuated. Valves not operated for long periods of time could cause very highed torques performance.

(1) For severe conditions, when valve torque its over M.A.S.T. it is advisable to use an adequate material.