sferaco
VALVES, METERS & FITTINGS

ISO 9001 : 2015
BUREAU VERITAS
Certification

REF. 747

3 PIECES BALL VALVE WITH ISO MOUNTING PAD PN 63 PERFORMANCE RANGE BSP

3 pieces stainless steel ball valve fully encapsulated bolts with full bore for Chemical industries, petrochemical industries, hydraulic installation, heating, water distribution, compressed air.
Fugitive emission according to TA LUFT for an excellent tightness on the stem and to prevent external leakage.
PTFE filled with graphite packing, FKM O ring gasket on stem and PTFE filled with stainless steel seat.
Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22 thanks to the antistatic device.
Handling with locking device, on request possible with handwheel or stem extension.
Thanks to the ISO 5211 plate, an actuator can be installed directly on the valve.

Certificate 3.1

Lloyd's Register
PED/2014/68/UE

Size:	DN1/4" to DN4"
Connection :	Female BSP
Min Temperature :	-30°C
Max Temperature :	+220°C
Max Pressure :	63 Bars up to DN50, 40 Bars over
Specifications :	ISO 5211 direct mounting pad PTFE filled with Stainless steel seat Anti blow-out stem, full bore Fugitive emission TA LUFT ATEX
Materials :	Stainless steel EN 1.4408

Sferaco 90 rue du Ruisseau 38297 St Quentin Fallavier Tel: + 33 (0) 474.94.15.90 Fax: + 33 (0) 474.95.62.08 Internet: www.sferaco.fr E-mail : info@sferaco.fr

Information provided as an indication and subject to possible modification

3 PIECES BALL VALVE WITH ISO MOUNTING PAD PN 63 PERFORMANCE RANGE BSP

SPECIFICATIONS :

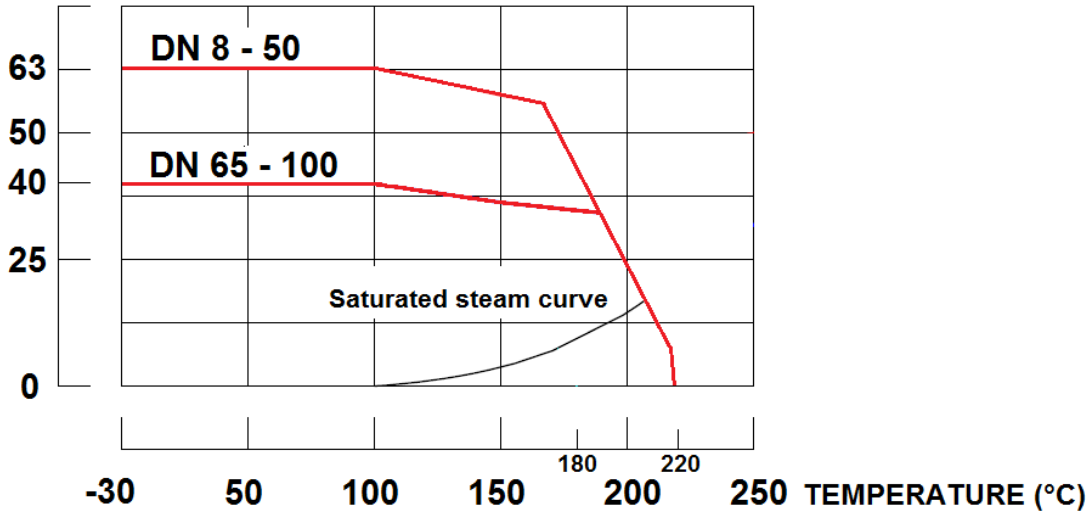
- Full bore
- Anti blow-out stem
- Special gland pack with elastic washer
- Antistatic device from DN8 to 32, double antistatic device (ball between body-stem and ball-stem) from DN40 to 100
- PTFE filled with stainless steel seat
- Locking device
- Blue handle cover possible
- ISO 5211 direct mounting pad

USE :

- Chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air
- Steam : 18 bars maximum
- Vacuum : 10^{-2} torr
- Min and max Temperature Ts : -30°C to + 220°C
- Max Pressure Ps : 63 bars up to DN50 and 40 bars over (see graph)

PRESSURE / TEMPERATURE GRAPH :

Pressure (Bar)



TORQUE VALUES (in Nm without safety coefficient) :

DN (mm)	8	10	15	20	25	32	40	50	65	80	100
NPS (")	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
Torque (Nm)	7.6	7.6	7.6	14.5	21	25	35	60	80	88	190

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BOLT TIGHTENING TABLE (in Nm):

DN (mm)	8	10	15	20	25	32	40	50	65	80	100
NPS (")	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
Torque (Nm)	6.9	6.9	6.9	9.8	9.8	11.8	15.7	20.6	54.9	73.5	94.1

FLOW COEFFICIENT Kvs (M3 / h) :

DN (mm)	8	10	15	20	25	32	40	50	65	80	100
NPS (")	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
Kvs (m3/h)	17.2	21	31.3	57.9	94.3	157.9	227.9	414.8	720.2	1091	1754

RANGE :

- 3 pieces stainless steel body valve Performance range Female / female threaded BSP ends **Ref. 747** from DN 1/4" to DN 4"
- Blue handle cover **Ref. 9830432-9830436** from DN 8 to DN 100

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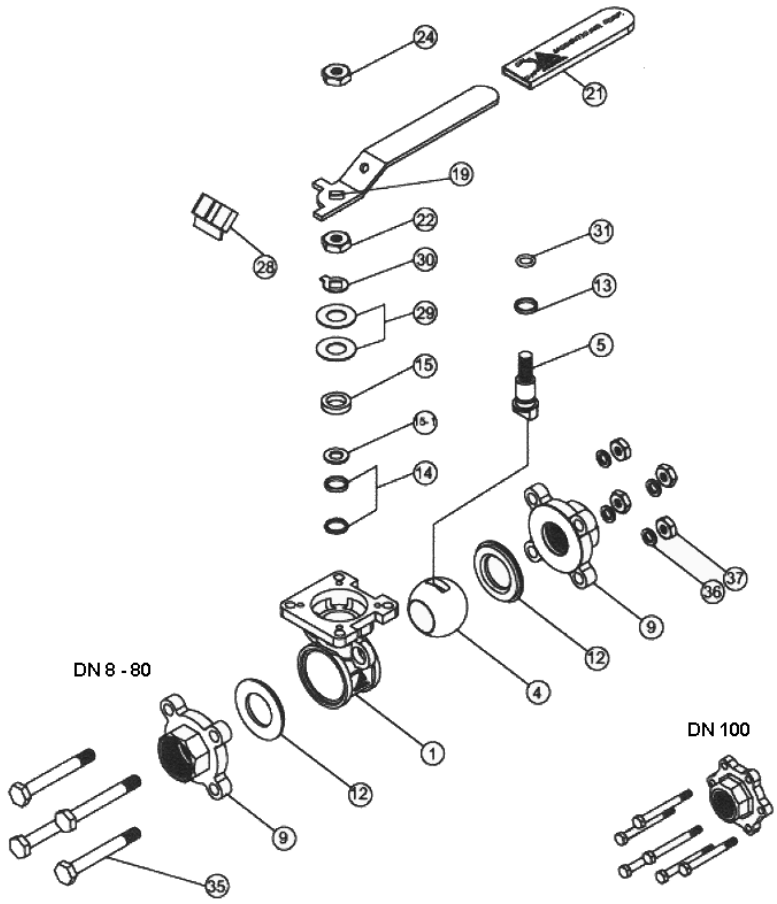
MATERIALS :



(* : included in gaskets kit)

Item	Designation	Materials
1	Body	EN 1.4408
4	Ball	ASTM A351 CF8M
5	Stem	AISI 316
9	Ends	EN 1.4408
12*	Seat	PTFE with 50% AISI 316
13*	Thrust washer	PTFE with 25% grafoil
14*	Stem packing	PTFE with 25% grafoil
15-1*	Packing Follwer	PTFE with 15% grafoil
15	Gland bush	AISI 304
19	Handle	
21	Handle cover	Plastic
22	Stem nut	AISI 304
24	Handle nut	
28	Locking device	
29	Elastic washer	AISI 301
30	Tab washer	AISI 304
31*	O-ring	FKM
35	Body bolt	AISI 304
36	Bolt washer	
37	Bolt nut	

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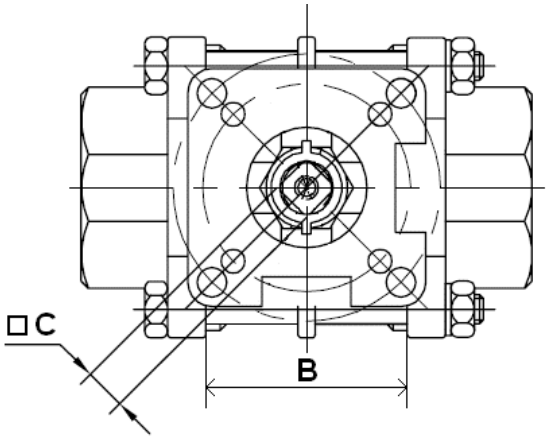
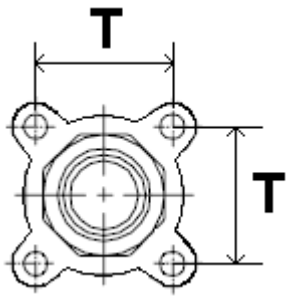
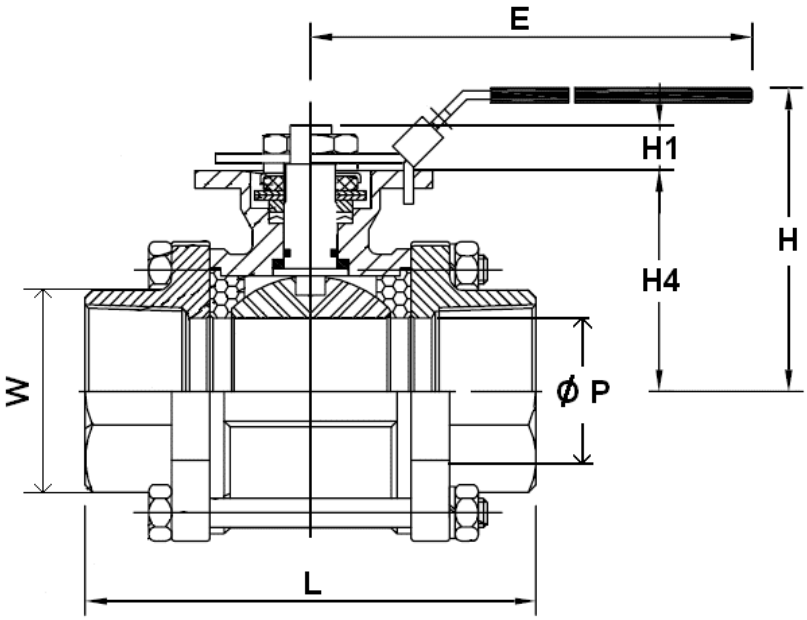
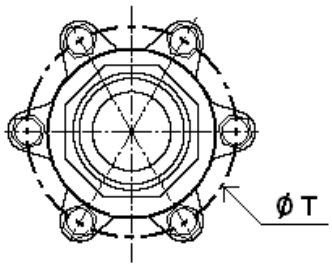
SIZE (in mm) :





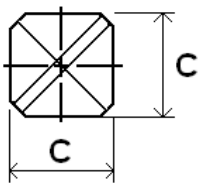
DN 1/4" – 3"





DN 4"

Stem size :



DN (mm)	8	10	15	20	25	32	40	50	65	80	100
NPS (")	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
Ø P	11.5	12.5	15	20	25	32	38	50	65	80	100
L	63.5	63.5	63.5	72.5	81	94.5	108	121.5	157.5	190	225
B	22.5	22.5	22.5	27.5	34	42.5	52	63.5	85.5	102	128.5
E	112	112	112	112	136	185	197.9	197.9	267	267	322
H	73	73	73	80.8	90.5	98.7	115.3	124	155	164.5	216.7
H1	8.5	8.5	8.5	8.5	9.5	9.5	14	13.7	18	18	18
H4	37	37	37	45	53.5	59	74.8	83.5	108.8	118.3	153.8
C	9	9	9	9	9	9	14	14	17	17	17
T	31	31	31	35	41	49	59	71	91	107	195
W (on flat)	28	28	28	34	42	50	58	70	88	103	128
Weight (in Kg)	0.64	0.62	0.58	0.75	1.03	1.62	2.5	3.7	7.8	11.3	22
Ref.	747003	747003	747004	747005	747006	747007	747008	747009	747010	747011	747012

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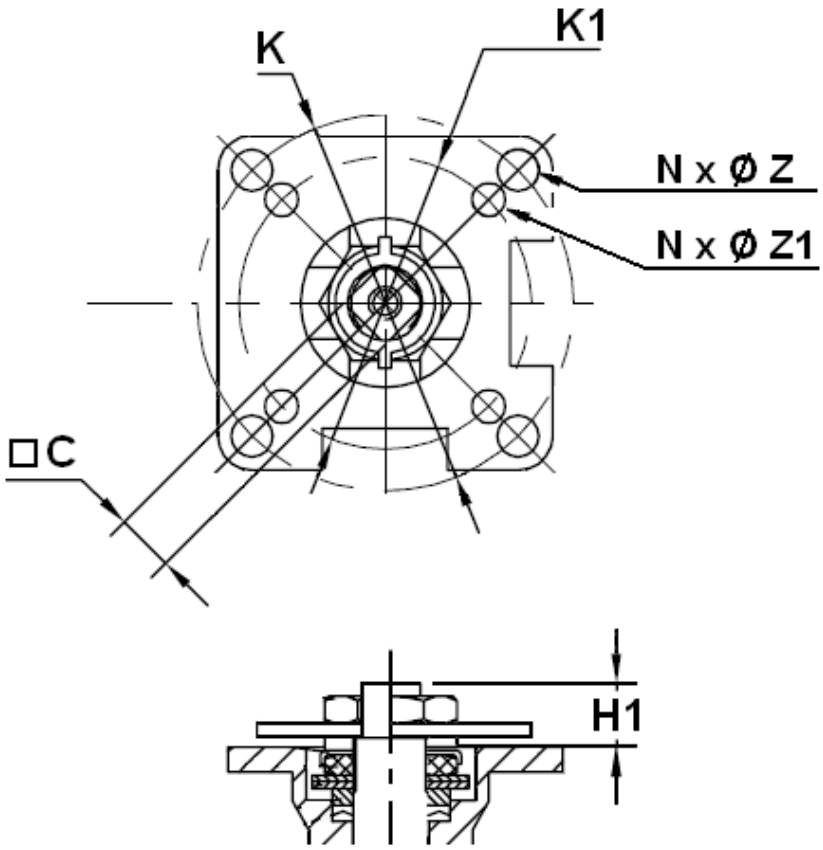
ISO MOUNTING PAD AND STEM SIZE (in mm) :



DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
C	9	9	9	9	9	9	14	14	17	17	17
H1	8.5	8.5	8.5	8.5	9.5	9.5	14	13.7	18	18	18
Ø K	50	50	50	50	50	50	70	70	102	102	102
ISO	F05	F05	F05	F05	F05	F05	F07	F07	F10	F10	F10
N x Ø Z	4 x 7	4 x 7	4 x 7	4 x 7	4 x 7	4 x 7	4 x 9	4 x 9	4 x 11	4 x 11	4 x 11
Ø K1	36	36	36	36	36	36	50	50	70	70	70
ISO 1	F03	F03	F03	F03	F03	F03	F05	F05	F07	F07	F07
N x Ø Z1	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 7	4 x 7	4 x 9	4 x 9	4 x 9

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STANDARDS :

- Manufacturer certified ISO 9001 : 2015
- DIRECTIVE 2014/68/EU : CE N° 0038
  Risk category III Module H
- Certificate 3.1 on request
- Construction according EN 12516
- Designing according to ASME B16.34
- Pressure tests according to EN 12266-1, rate A
- Threaded cylindrical BSP ends according to ISO 228-1
- ISO 5211 mounting pad
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 &22 (optional marking) according directive 2014/34/EU
- Tightness on stem according to TA LUFT VDI 2440/3.3.1.3

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.
The customer must check the right choice of the products with the real service conditions.