

K85

K85 121 063.791 DN1/4" – 4"
Ball valve butt welding BW



Size : DN 8 to 100 mm
Ends : Threaded BSP or NPT, Socket or Butt Welding
Min Temperature : -20°C
Max Temperature : + 180°C
Max Pressure : 63 Bars up to DN20
Specifications : Anti blow-out stem
Locking device
Full bore

Materials : Stainless steel

SPECIFICATIONS :

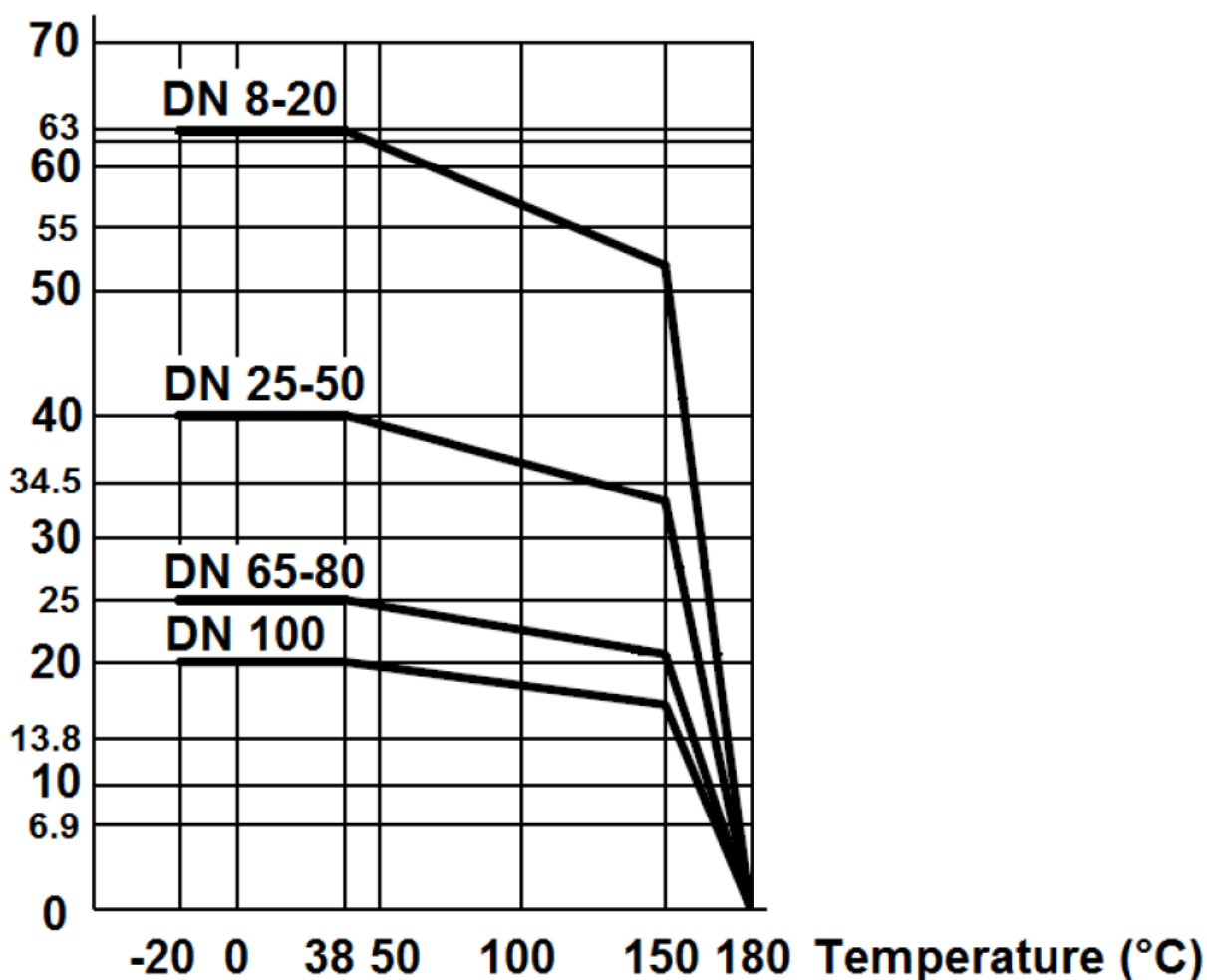
- Full bore
- Anto blow-out stem
- PTFE packing
- Locking device
- Stem extension in SS 304 (option)
- Blue handle cover possible

USE :

- Chemical and pharmaceutical industries, petrochemical industries
- Min and max Temperature Ts : -20°C to + 180°C
- Max Pressure Ps : 63 bars up to DN20, 40 bars from DN25 to 50, 25 bars from DN65 to 80 and 20 bars for DN100 (see graph under)

PRESSURE / TEMPERATURE GRAPH (STEAM AND COMPRESSED AIR EXCLUDED) :

Pressure (Bar)



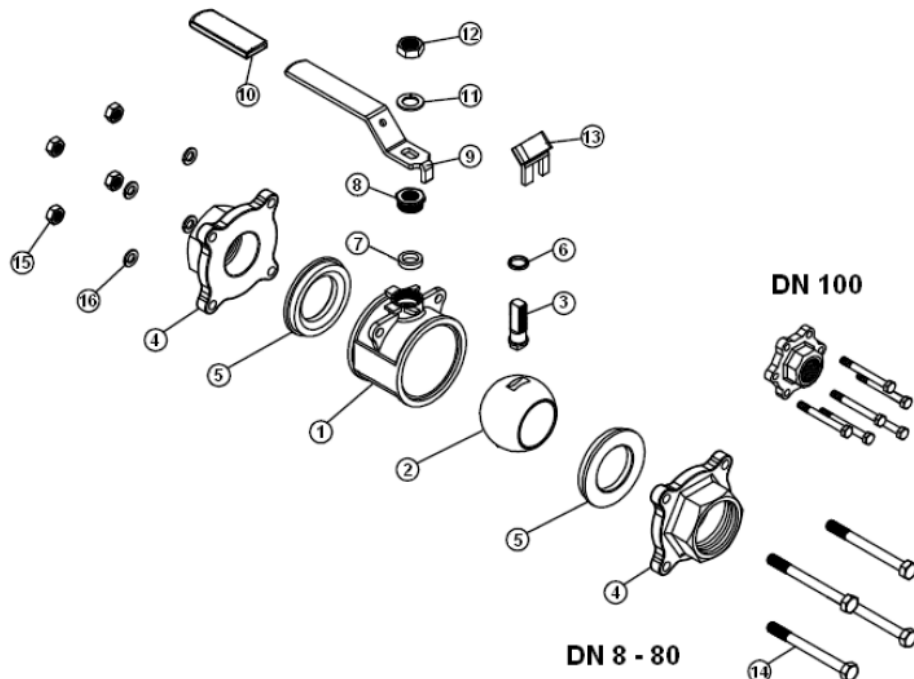
RANGE :

- Stainless steel 3 pieces ball valve Ref. **744/790/791/792** from DN 8 to DN 100
- Blue handle cover Ref. **9830444-9830449** from DN 8 to DN 100

ENDS :

- Female / female threaded BSP Ref. **790**
- Female / female threaded NPT Ref. **744**
- Socket Welding Ref. **792**
- Butt welding Ref. **791**

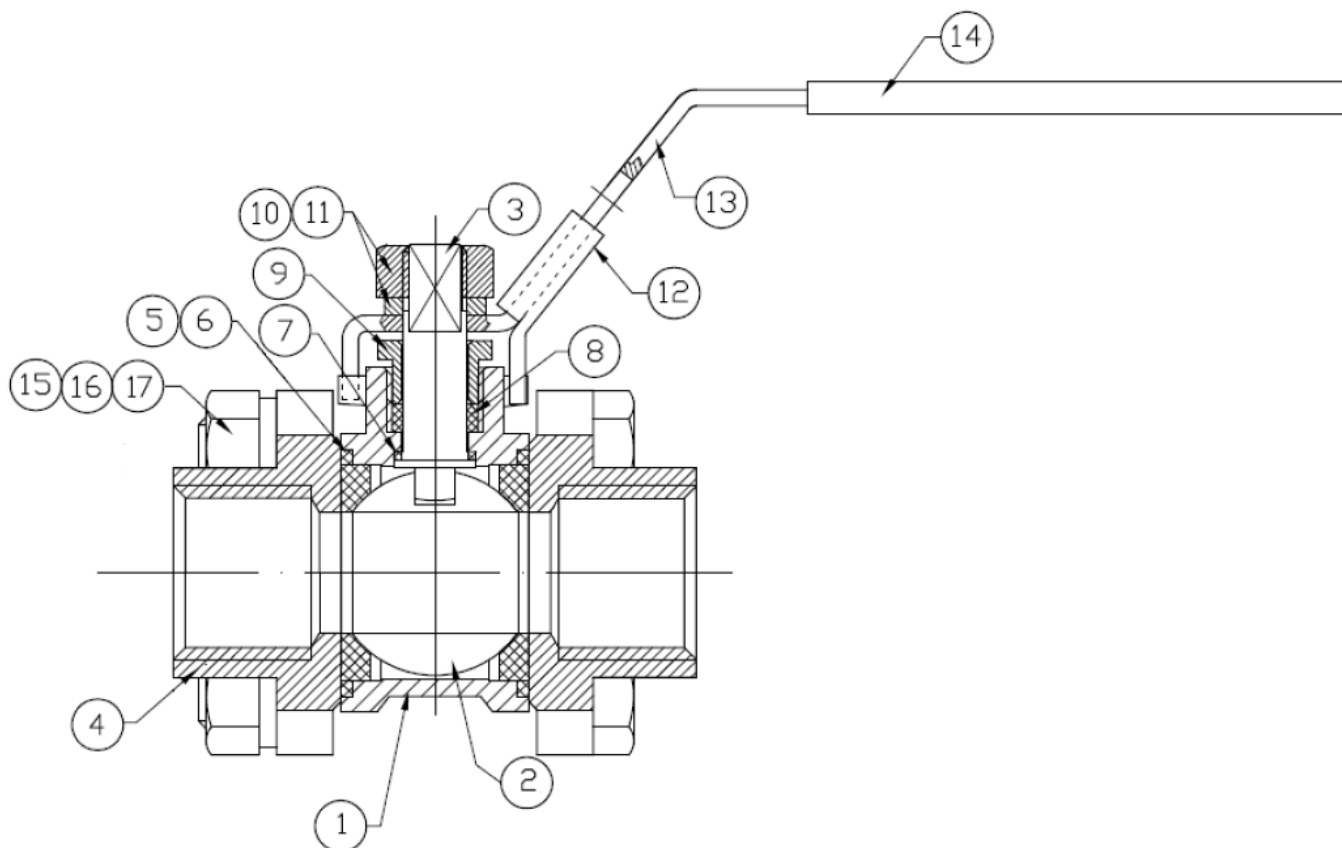
MATERIALS FOR DN8 AND FROM DN15 TO 100 REF. 790/791/792/744 :



Item	Designation	Materials Ref. 790/791/792/744 DN8 and DN15-100
1	Body	ASTM A351 CF8M
2	Ball	ASTM A351 CF8M
3	Stem	SS 316
4	Ends	ASTM A351 CF8M
5*	Seat	PTFE filled with 15% glass fiber
6*	Thrust washer	PTFE
7*	Packing	PTFE
8	Packing nut	SS 304
9	Handle	SS 304
10	Handle cover	Plastic
11	Handle washer	SS 304
12	Handle nut	SS 304
13	Locking device	SS 304
14	Bolt	SS 201
15	Nut	SS 304
16	Washer	SS 304

(* : Included in gaskets kit)

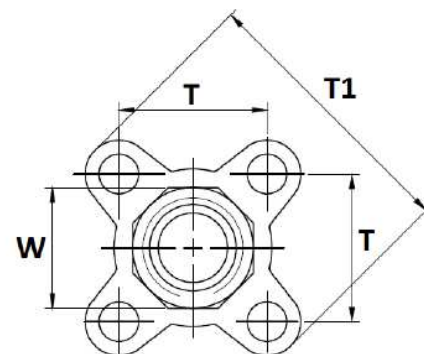
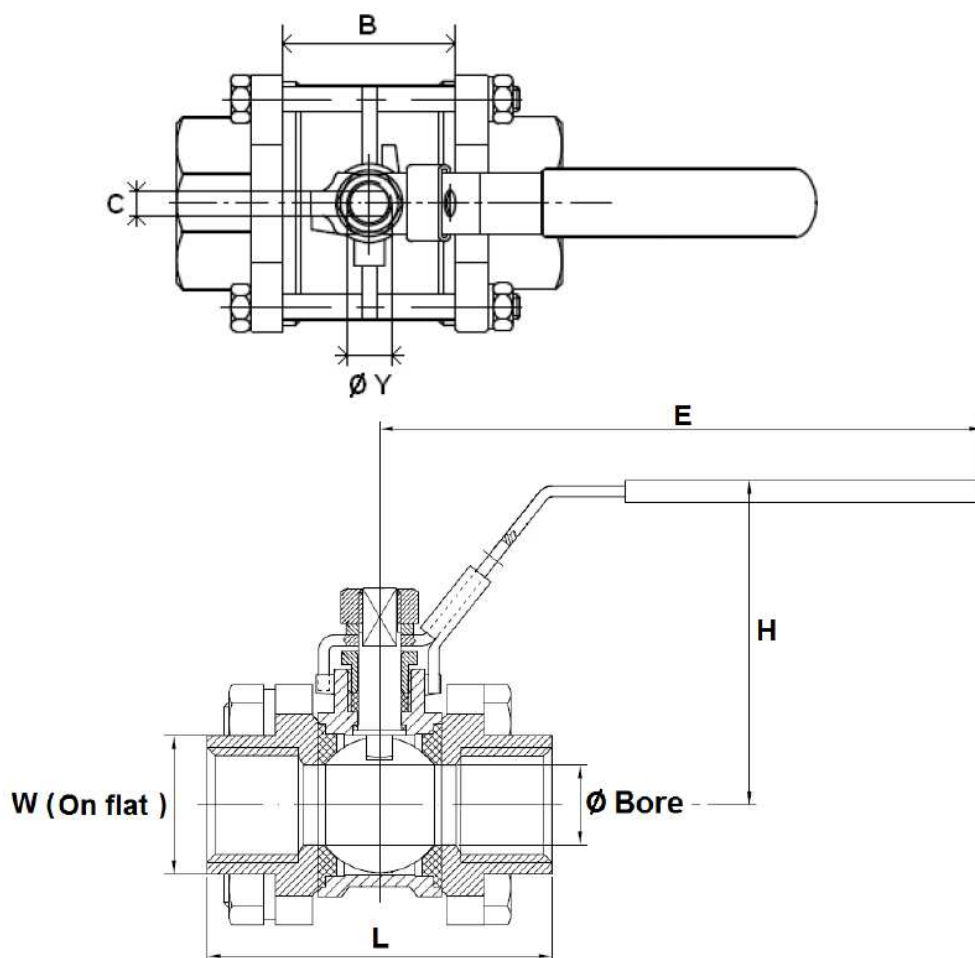
MATERIALS FOR DN10 REF. 790/791/792/744 :



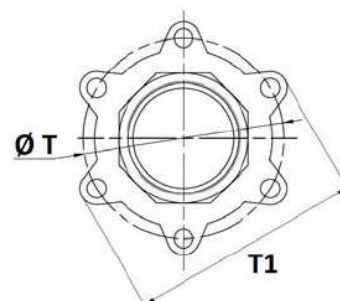
Item	Designation	Materials Ref. 790/791/792/744 DN10
1	Body	ASTM A351 CF8M
2	Ball	ASTM A351 CF8M
3	Stem	SS 316
4	Ends	ASTM A351 CF8M
5*	Seat	PTFE filled with 15% glass fiber
6*	Body gasket	PTFE filled with 15% glass fiber
7*	Thrust washer	PTFE
8*	Packing	PTFE
9	Packing nut	SS 304
10	Handle nut	SS 304
11	Handle washer	SS 304
12	Locking device	SS 304
13	Handle	SS 304
14	Handle cover	Plastic
15	Bolt	SS 201
16	Nut	SS 304
17	Washer	SS 304

(* : Included in gaskets kit)

SIZE THREADED STAINLESS STEEL TYPES (in mm) REF. 790 / 744 :



DN 1/4" - 3"

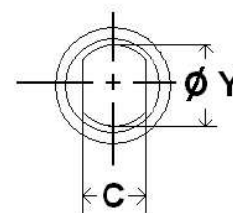


DN 4"

(2 parts seat for DN3/8")

Stem size :

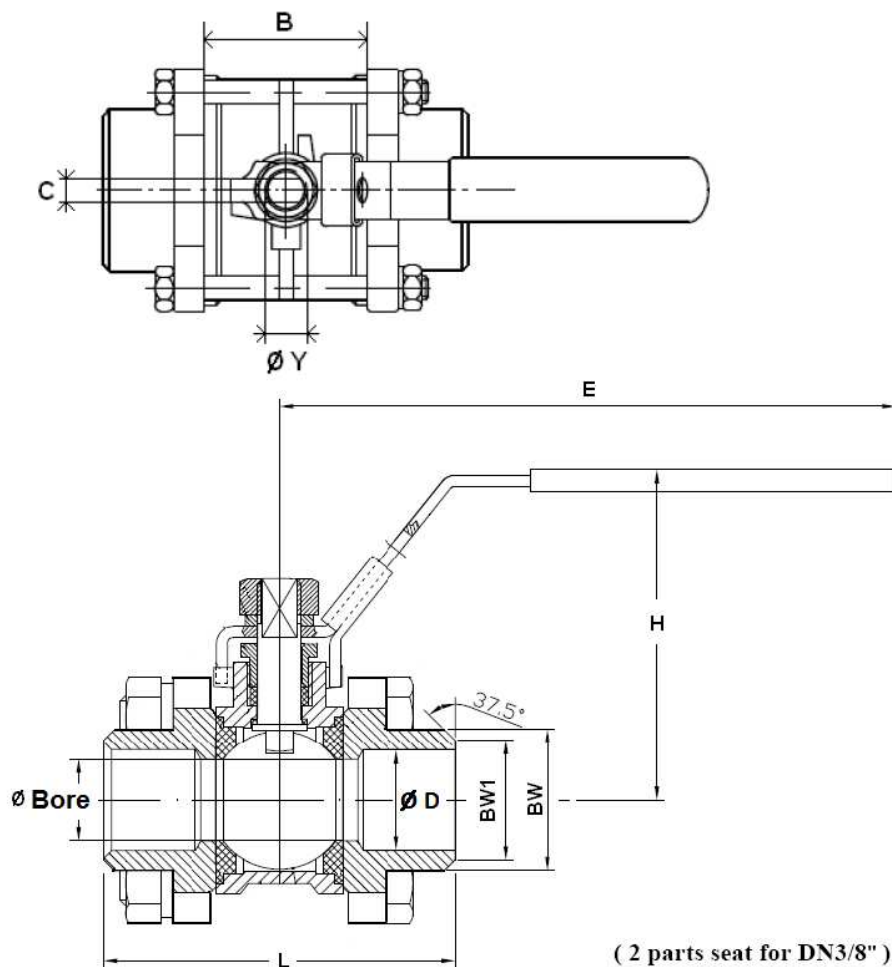
Ref.	DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
790	$\varnothing$ Bore	9.2	12.8	15	20	25	32	38	50	65	80	100
	L	60	60	63	70	82	96	107	124	164.6	182.7	217.7
	B	22	22	23.3	28	34	43	49	62.4	88.1	100.2	119.1
	E	136	136	136	136	165	165	190	190	300	300	335
	H	52	52	63	68	79	88	97	108	128	140	172
744	$\varnothing Y$	8	8	8	8	10	10	12	12	14	14	20
Threaded	C	5	5	5	5	6.5	6.5	8.5	8.5	9.8	9.8	16
	T	27.2	27.2	31.8	40	45	53	63.3	78.8	98.3	116.6	200.5
	T1	51	51	59.5	71	80	91.5	106	132.8	164	194	231.5
	W	18	22	26	33	40	48	55	67	84.5	101	127
	Weight (Kg)	0.33	0.34	0.49	0.64	0.96	1.37	2.2	3.75	6.85	10.2	20.5



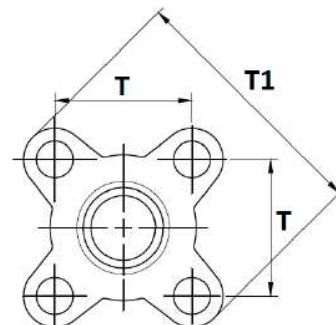
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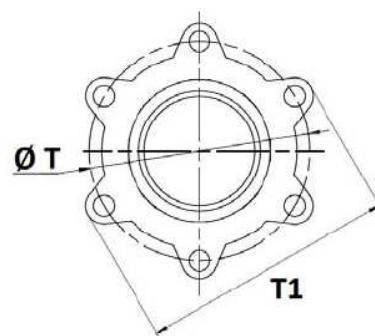
SIZE BUTT WELDING STAINLESS STEEL TYPES (in mm) REF. 791 :



(2 parts seat for DN3/8")

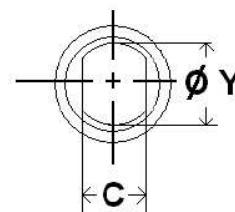


DN 1/4" - 3"



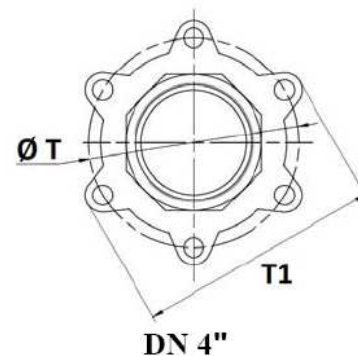
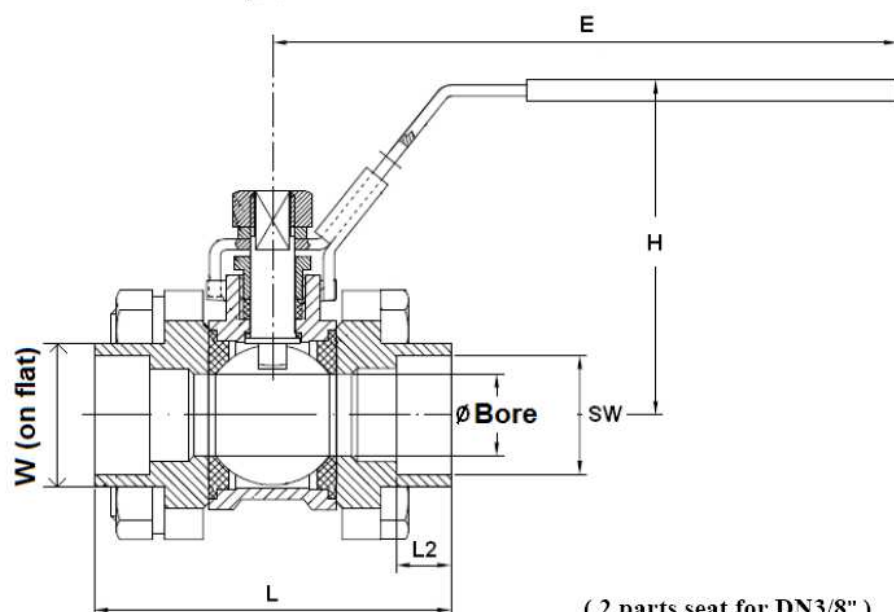
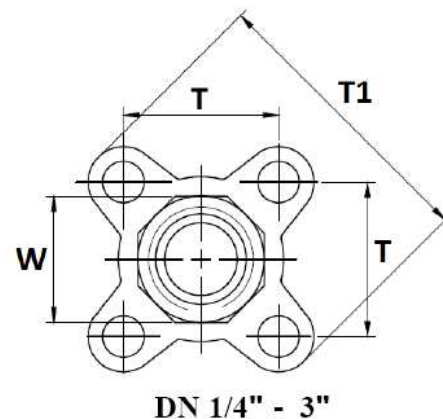
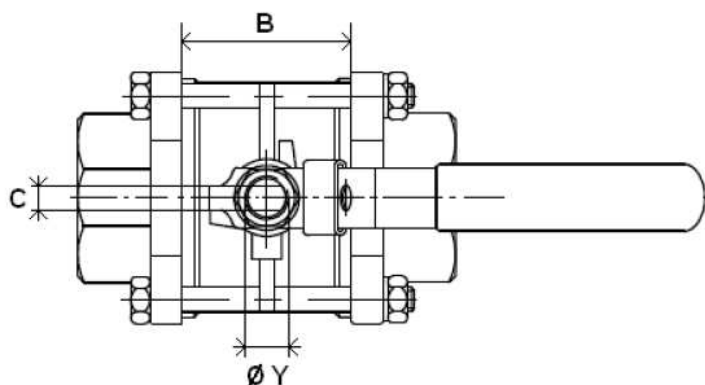
DN 4"

Stem size :



Ref.	DN	8	10	15	20	25	32	40	50	65	80	100
791 B.W.	Ø Bore	9.2	12.8	15	20	25	32	38	50	65	80	100
	L	60	60	63	70	82	96	107	124	162.6	180.7	221.7
	B	22	22	23.3	28	34	43	49	62.4	88.1	100.2	119.1
	E	136	136	136	136	165	165	190	190	300	300	335
	H	52	52	63	68	79	88	97	108	128	140	172
	Ø Y	8	8	8	8	10	10	12	12	14	14	20
	C	5	5	5	5	6.5	6.5	8.5	8.5	9.8	9.8	16
	T	27.2	27.2	31.8	40	45	53	63.3	78.8	98.3	116.6	200.5
	T1	51	51	59.5	71	80	91.5	106	132.8	164	194	231.5
	BW	14	17.5	22	27.5	34	43	49	61	76.5	90	115
	BW1	12	14.5	17	22.5	28.6	36	43	54	68	84	104
	Ø D	9.2	12.8	15	20	25	32	39.8	50	65	80	100
	Weight (Kg)	0.33	0.33	0.49	0.64	0.96	1.37	2.2	3.75	6.85	10.2	20.5

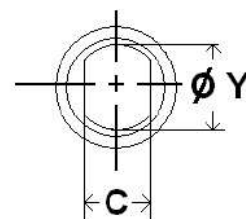
SIZE SOCKET WELDING STAINLESS STEEL TYPES (in mm) REF. 792 :



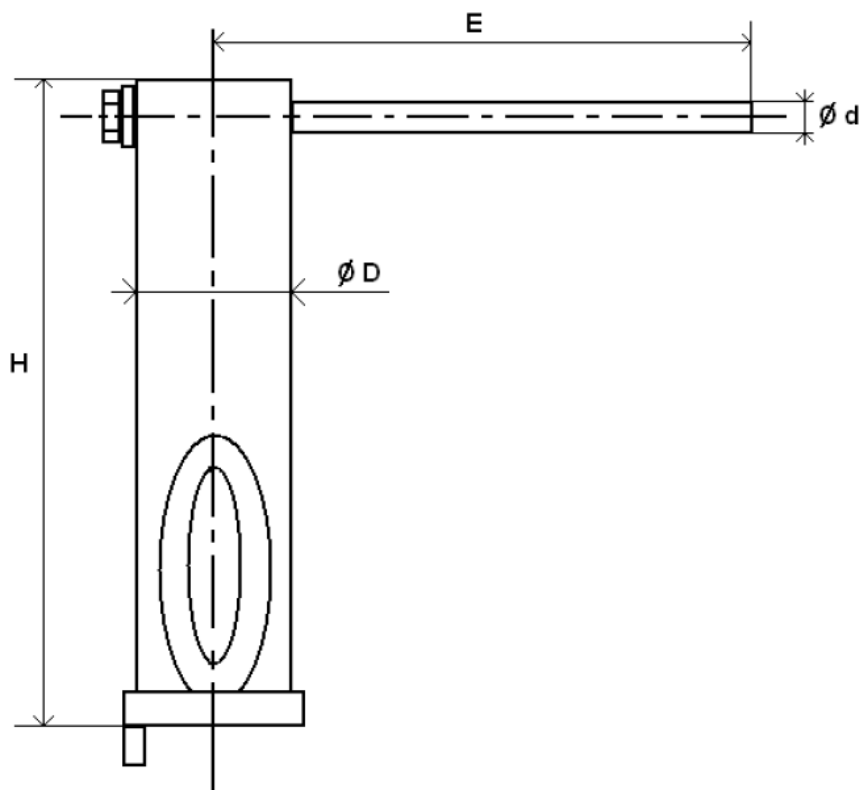
(2 parts seat for DN3/8")

Stem size :

Ref.	DN	8	10	15	20	25	32	40	50	65	80	100
792	Ø Bore	9.2	12.8	15	20	25	32	38	50	65	80	100
	L	60	60	63	70	82	96	107	124	164.6	182.7	217.7
	B	22	22	23.3	28	34	43	49	62.4	88.1	100.2	119.1
	L2	10	10	10	13	13	13	13	16	16	16	19
	E	136	136	136	136	165	165	190	190	300	300	335
	H	52	52	63	68	79	88	97	108	128	140	172
	Ø Y	8	8	8	8	10	10	12	12	14	14	20
	C	5	5	5	5	6.5	6.5	8.5	8.5	9.8	9.8	16
	T	27.2	27.2	31.8	40	45	53	63.3	78.8	98.3	116.6	200.5
	T1	51	51	59.5	71	80	91.5	106	132.8	164	194	231.5
	W	18	22	26	33	40	48	55	67	84.5	101	127
	SW	14.1	17.6	21.9	27.4	34.2	42.8	48.8	61.1	77	89.9	115.4
	Weight (Kg)	0.33	0.33	0.49	0.64	0.96	1.37	2.2	3.75	6.85	10.2	20.5



STEM EXTENSION (in mm) :



Ref.	DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
981060	H	125.5	125.5	125.5	125.5	125.5	125.5	127.5	127.5
	E	125	125	125	125	158	158	190	190
	Ø D	28	28	28	28	32	32	36	36
	Ø d	12	12	12	12	14	14	14	14
	Weight (Kg)	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.6

TORQUE VALUES (In Nm without safety coefficient) :

DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
Torque (Nm)	5	5	5	8	12.5	17	21	30	45	70	100

BOLT TIGHTENING TABLE (in Nm) :

DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
Couple (Nm)	4	4	8	8	10	13	20	20	35	45	65

FLOW COEFFICIENT Kvs (M3 / h) :

DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
Kvs (m3/h)	12.4	24.01	33	58.6	91.6	148.2	211.6	366.4	619.2	938	1465.6

STANDARDS :

- Fabrication according to ISO 9001 : 2008
- DIRECTIVE 97/23/CE : CE N° 0035
Risk Category III Module H
- Pressure tests according to EN 12266-1, range A
- Threaded BSP cylindrical ends according to ISO 228-1
- Threaded NPT ends according to ANSI B1.20.1