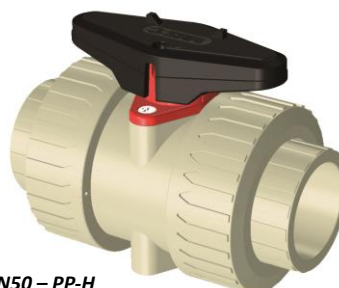


2-Way –BALL VALVE – DOUBLE UNION DN10 (3/8") to DN100 (4") – PVC-U, PVC-C, PP-H

Conform to the 2014/68/EU Directive



DN50 – PVC-C



DN50 – PP-H



DN50 – PVC-U

MAIN FEATURES

- PTFE Seats.
- EPDM or FPM O-rings behind seats.
- 2 Seals on spindle for an optimal sealing
- Stainless Steel support insert.
- Stainless Steel Actuation insert.
- Many Available Fittings.

STANDARDS & APPROVALS



DGS/SD7A N°571 : Approved products to drinking water networks



Standard NSF/ANSI 61 « Drinking water systems components - Health effects » (health effects of drinking water circuit components). NSF / ANSI Standard 61 establishes minimum health effects requirements for the chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking water systems.

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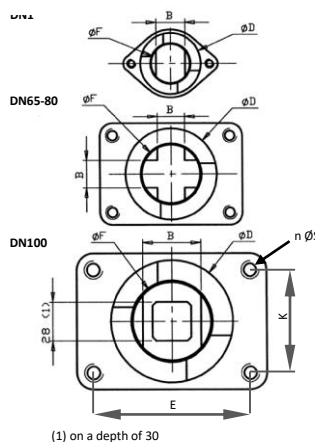
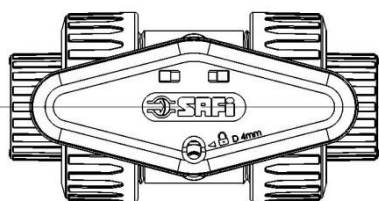
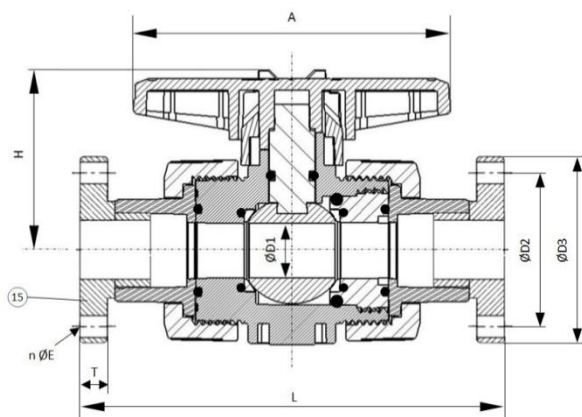
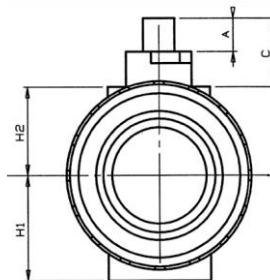
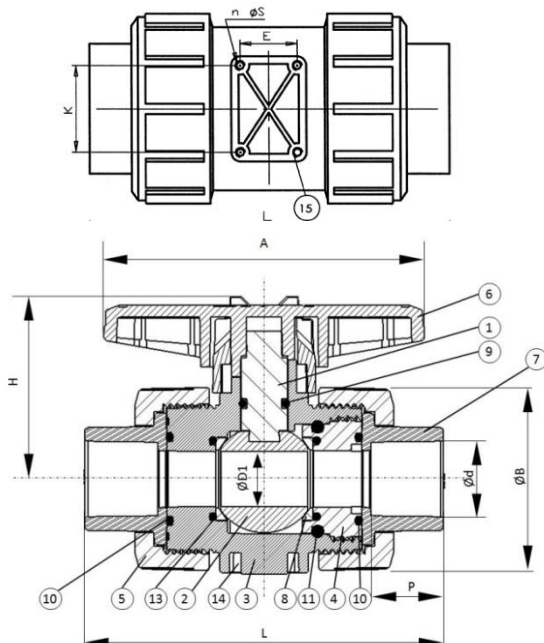
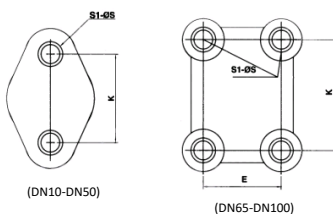
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DIMENSIONS

FIXINGS INSERTS
(top & bottom)



DN	Weight (Kg)			
	Metric Sockets Threaded		Flanges	
	PVC	PP-H	PVC	PP-H
10	0,24	0,17	0,46	-
15	0,24	0,17	0,46	0,34
20	0,36	0,26	0,72	0,48
25	0,50	0,36	0,90	0,70
32	1,07	0,72	1,76	1,24
40	1,08	0,72	1,88	1,24
50	1,76	1,22	2,86	1,96
65	2,93	1,99	4,42	3,76
80	5,16	3,54	6,90	6,14
100	8,18	5,60	9,90	9,08

DN	ØD1	ØD2			ØD3			Øe			n			Ød		
		DIN	ANSI	JIS	DIN	ANSI	JIS	DIN	ANSI	JIS	DIN	ANSI	JIS	Metric sockets	Schedule 80	Threaded
10	10	65	60,6	70	95	88,9	95	14	15,9	15	4	4	4	15	21,5	R3/8"
15	15	65	60,6	70	95	88,9	95	14	15,9	15	4	4	4	20	21,5	R1/2"
20	19	75	69,9	75	105	98,4	100	14	15,9	15	4	4	4	25	26,8	R3/4"
25	25	85	79,4	90	115	108	125	14	15,9	19	4	4	4	32	33,7	R1"
32	38	100	88,9	100	140	117,5	135	18	15,9	19	4	4	4	40	42,4	R1 1/4"
40	38	110	98,4	105	150	127	140	18	15,9	19	4	4	4	50	48,6	R1 1/2"
50	48	125	120,7	120	165	152,4	155	18	19	19	4	4	4	63	60,6	R2"
65	65	145	139,7	140	185	177,8	175	18	19	19	4	4	4	75	73,4	R2 1/2"
80	78	160	152,4	150	200	190,5	185	18	19	19	8	8	8	90	89,3	R3"
100	102	180	190,5	175	220	228,6	210	18	19	19	8	8	8	110	114,8	R4"

*DN10 flanged = PVC only

DIN = Drilling in accordance with EN 1092-1 PN10/PN16

ANSI = Drilling in accordance with EN1759-1/ASME B16.5 Class 150

General Tolerance : <=DN50 = +/-2mm; >=DN65 = +/-3mm

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			L															
			Sockets			A Flanges												
DN	ØD1	P	PVC-U PVC-C	PP-H		PVC-U PVC-C	PP-H	A	ØB	C	E	ØF	G	H	H1	H2	ØJ	
			solvent socket	Welding socket	Threaded													
10	10	16	115	-	-	153	-	82,7	53,2	17	-	13,2	9,5	51	28	24	20,3	
15	15	16	115	112	112	153	153	82,7	53,2	17	-	13,2	9,5	51	28	24	20,3	
20	19	18,5	126	112	122	165	158	101,2	63	21,5	-	16,2	12	63	33	30	22,5	
25	25	22	144	143	140	189	181	111,8	72,2	24	-	20	15,7	72	37	34	27,3	
32	38	26	183	177	178	226	210	121,4	97	32	-	22,5	16,5	86	40	40	34,5	
40	38	31	183	178	178	226	224	121,4	97	32	-	22,5	16,5	86	40	40	34,5	
50	48	37,5	202	200	200	253	250	149,3	118,9	37	-	25,5	19	100	52	50	38	
65	65	43,5	233	225	225	281	278	190	150,1	58,5	41	27	14	140	79	64	45	
80	78	51	274	270	270	330	325	230,1	183,9	68,5	41	33	17	165,1	95	75	53,7	
100	102	61	325	320	323	378	376	274	226	63	50	53	47,5	172	103	94	74,7	

*DN10 flanged = PVC only

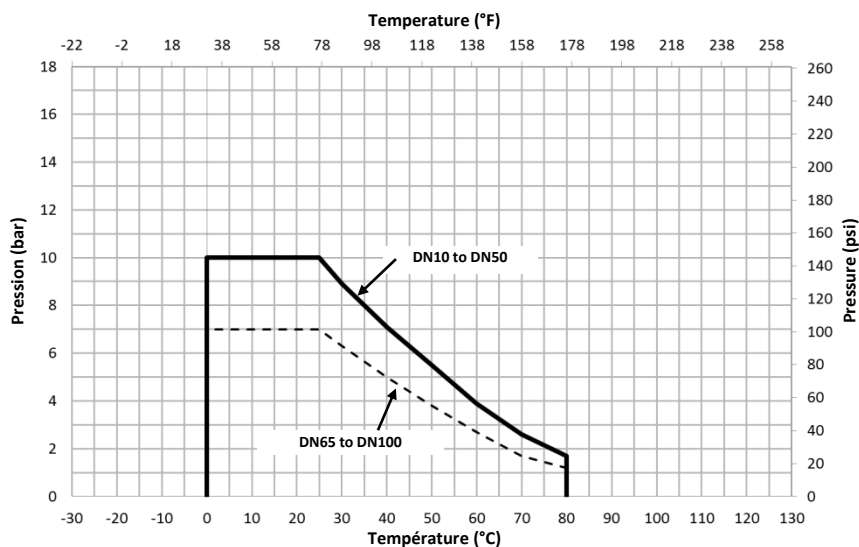
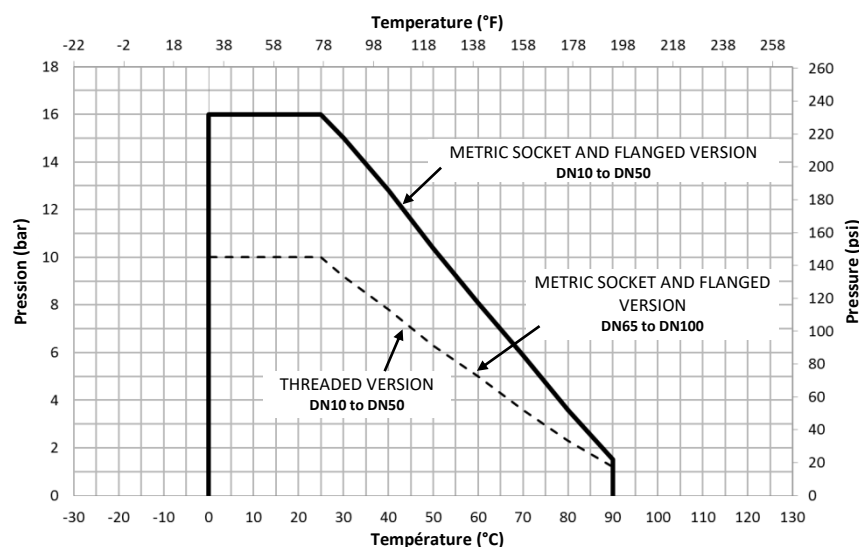
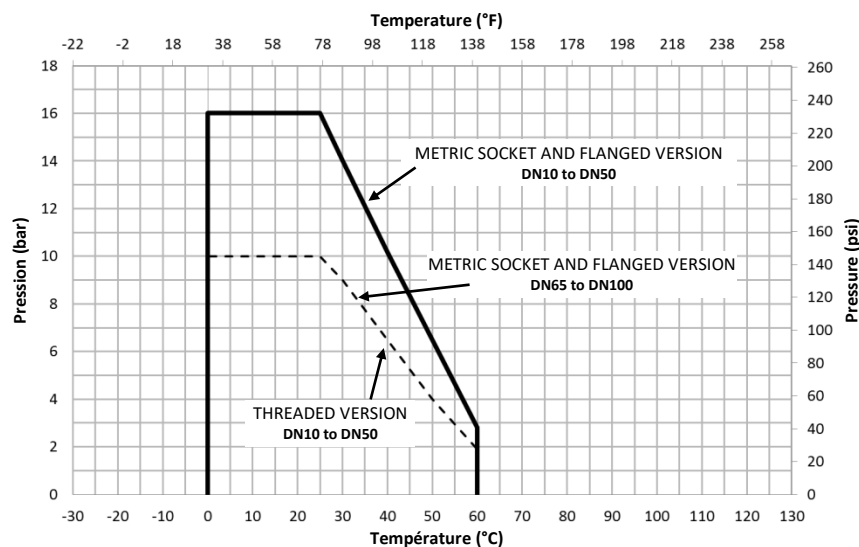
General Tolerance : <=DN50 = +/-2mm; >=DN65 = +/-3mm

DN	K	Q	ØS	S1	T
10	31	9	M4	4	15
15	31	9	M4	4	15
20	37	9	M6	4	15
25	40	12,5	M6	4	17
32	55	14,5	M8	4	17
40	55	14,5	M8	4	19
50	68	18	M8	4	21
65	80	30	M8	8	21
80	80	31,5	M8	8	22
100	121	33	M8	8	22

*DN10 flanged = PVC only

General Tolerance : <=DN50 = +/-2mm; >=DN65 = +/-3mm

PRESSURE / TEMPERATURE CURVES



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Pressure/ Temperature Summary

Type of Seals	Working Temperature		
	PVC-U	PVC-C	PP-H
EPDM / FPM	0°C to +60°C	0°C to +90°C	0°C to +80°C

The mechanical characteristics of the FPM and FFPM seals subjected to an ambient temperature below -5°C require the implementation of proper insulation on the valves equipped with such seals. Contact us for more information.

DN	Working Pressure								
	PVC-U / PVC-C			PP-H			PVDF		
	Metric Socket	Threaded	Flanges	Metric Socket	Threaded	Flanges	Metric Socket	Threaded	Flanges
10	16	10	16	10	10	-	10	10	10
15	16	10	16	10	10	10	10	10	10
20	16	10	16	10	10	10	10	10	10
25	16	10	16	10	10	10	10	10	10
32	16	10	16	10	10	10	10	10	10
40	16	10	16	10	10	10	10	10	10
50	16	10	16	10	10	10	10	10	10
65	10	10	10	7	7	7	7	7	7
80	10	10	10	7	7	7	7	7	7
100	10	10	10	7	7	7	7	7	7

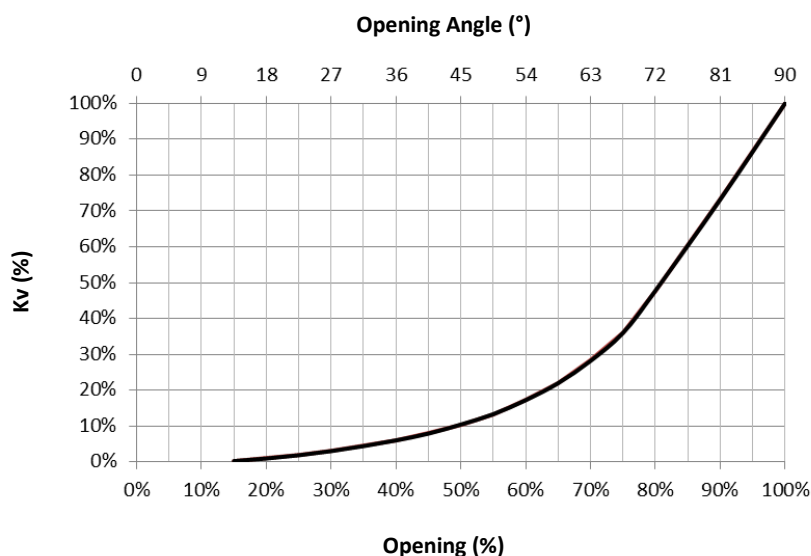
*DN10 flanged = PVC only

PRESSURE LOSS

DN	Kv (m ³ /h)
10	6,7
15	10,8
20	22,6
25	43,6
32	80,1
40	119,3
50	192,1
65	320,1
80	428,1
100	620,1

Kv defined according to NF EN 1267

Our valves are guaranteed for an average fluid velocity in the pipeline of ≤ 2 m/s. Please contact us with the working conditions for any higher speed.



CHEMICAL RESISTANCE

The chemical resistance of the valve is subject to the type of fluid, the temperature, the pressure, as well as the materials and seals of the valve.

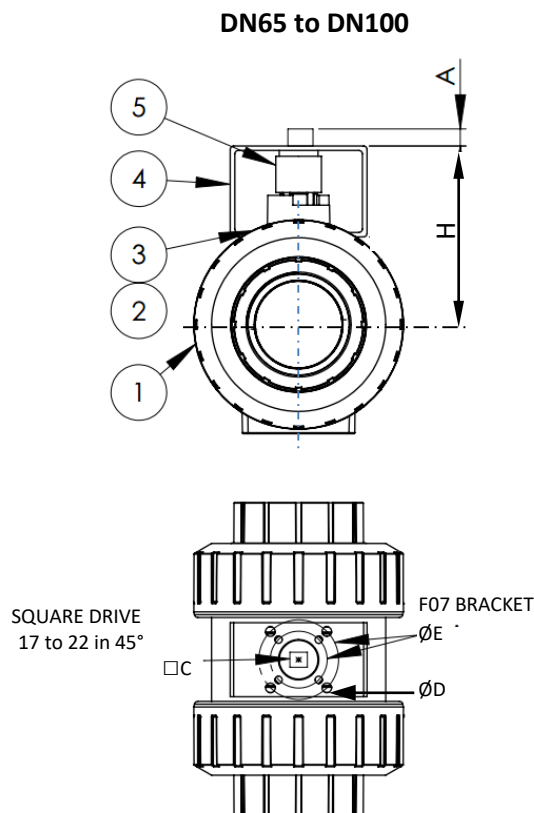
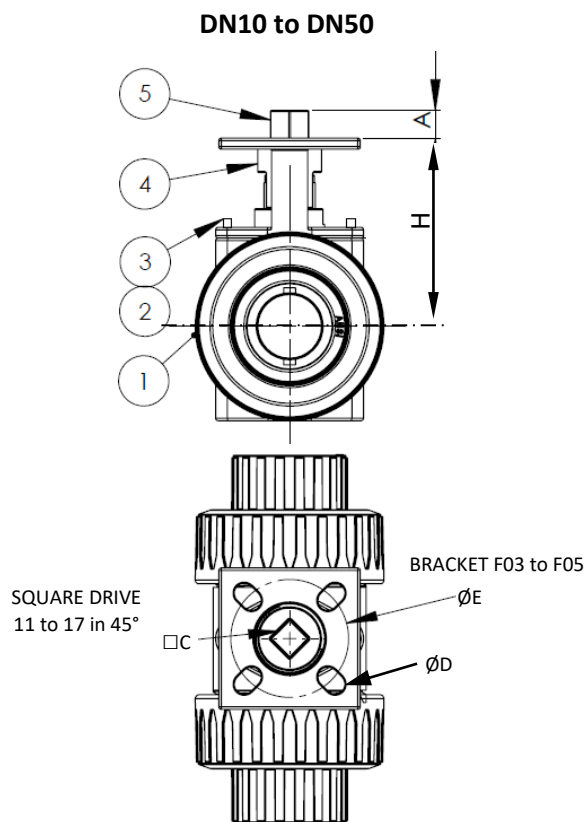
Please contact us to have a personalized analysis of the resistance of one of our products to a given fluid

You can also consult, for information only, the table given in ISO 10358. However, this table cannot be considered as a recommendation by SAFI who could not be held liable for the use of this document.

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OPTION: MOUNTING KIT (ISO 5211)



ITEM	No.		DESCRIPTION	MATERIAL
	DN15 to DN50	DN65 to DN100		
1	1	1	2-Way Ball Valve DN10 to DN100	PVC-U / PVC-C / PP-H
2	2	4	Screw TCHC	SS 316
3	2	4	Washer	SS 316
4	1	1	Bracket	SS 304+Epoxy
5	1	1	Douille	SS 304+Epoxy

DN	A	H	ISO 5211 FIXINGS											
			F03			F04			F05			F07		
			C	ØD*	ØE*	C	ØD*	ØE*	C	ØD*	ØE*	C	ØD*	ØE*
10	10	52	11 or 14	Ø6,7	Ø30	11 or 14	Ø6,7	Ø42	-	-	-	-	-	-
15	10	52	11 or 14	Ø6,7	Ø30	11 or 14	Ø6,7	Ø42	-	-	-	-	-	-
20	10	69	-	-	-	11 or 14	Ø7,7	Ø42	11 or 14	Ø7,7	Ø50	-	-	-
25	10	73	-	-	-	11 or 14	Ø7,7	Ø42	11 or 14	Ø7,7	Ø50	-	-	-
32	11,5	96	-	-	-	-	-	-	14	Ø7	Ø50	-	-	-
40	11,5	96	-	-	-	-	-	-	14	Ø7	Ø50	-	-	-
50	11,5	106	-	-	-	-	-	-	14 ou 17	Ø7	Ø50	-	-	-
65	14	131	-	-	-	-	-	-	-	-	-	17 or 22	Ø9,7	Ø70
80	8,8	157	-	-	-	-	-	-	-	-	-	17 or 22	Ø9,7	Ø70
100	8,8	162	-	-	-	-	-	-	-	-	-	22	Ø9,7	Ø70

Other Dimensions: On Request * Multistandard bracket

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Available Kits

DN	ISO 5211 FIXINGS (CONNECTION/SQ* 45°)		WEIGHT OF KIT	PRODUCT CODE
DN10/DN15	F03/F04	11	Contact us	KIT0060
	F03/F04	14		KIT0061
DN20	F04/F05	11		KIT0051
	F04/F05	14		KIT0062
DN25	F04/F05	11		KIT0052
	F04/F05	14		KIT0063
DN32	F05	14		KIT0064
DN40	F05	14		KIT0064
DN50	F05	14		KIT0066
	F05	17		KIT0067
DN65	F07	17		KIT0068
	F07	22		KIT0069
DN80	F07	17		KIT0070
	F07	22		KIT0071
	F07	27		KIT0397
DN100	F07	17		KIT0396
	F07	22		KIT0072
	F07	27		KIT0398

*SQ =Square drive 45°

Minimum operating torque required to actuate valve

MINIMUM REQUIRED TORQUE	
DN	PVC-U / PVC-C / PP-H
DN10/DN15	4 N.m
DN20	
DN25	10,6 N.m
DN32	
DN40	
DN50	20 N.m
DN65	50 N.m
DN80	70 N.m
DN100	

The « valve torque for actuation » is the required torque to open the valve when $dP=P_N$ and including a safety coefficient.

OPTION: PNEUMATIC ACTUATION

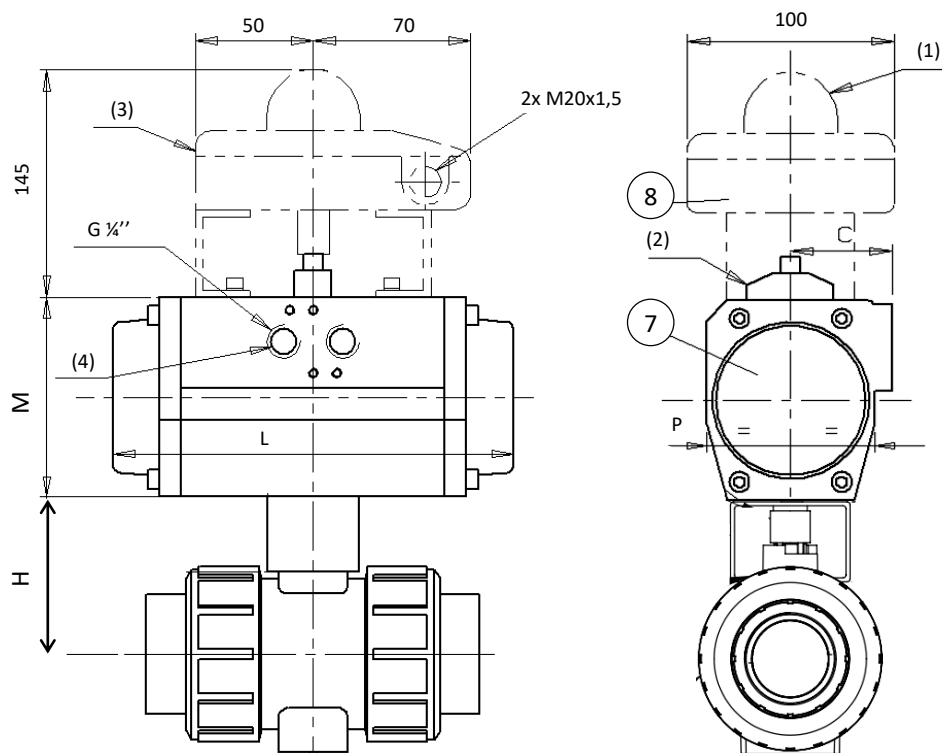


Diagram representing assemble on a DN50

N°	QTY	DESCRIPTION	MATERIAL
7	1	Actuator Double Acting or Fail Safe	Polyamide or Aluminium or Stainless Steel
8	1	Limit Switch Box (option)	Aluminium Or Stainless Steel

- (1) Visual position indicator of Limit Switch Box.
- (2) Visual position indicator of Actuator
- (3) Limit Switch Box (option)
- (4) NAMUR mounting pattern for electro pneumatic control

Pneumatic Actuators recommendation according to DN and Material of the Valves

POLYAMIDE Actuator

DN	ACTUATOR	ISO 5211 FIXINGS (CONNECTION/DSS*)		H	C	L	M	P	WEIGHT of Actuator in Kg	PRODUCT CODE	MATERIAL		
DN10 to DN20	Double Acting (DA)	F04	11	See dimensions for each DN on page 8	41	119	70	53	0,57	2007-73A	Actuator in Polyamide		
	Fail Safe	F05	14		51	160	90	86	1,39	2007-73T (NC) 2007-75T (NO)			
DN25 to DN40	Double Acting (DA)	F04	11		51	160	90	70	1.19	2007-73A(DN25) 2007-73B			
	Fail Safe	F05	14		51	160	90	70	1,39	2007-73M (NC) 2007-75M (NO)			
DN50	Double Acting (DA)	F04	11		66	175	111,5	70	1,97	2007-73B			
	Fail Safe	F05	17		66	175	111,5	70	2,34	2007-73N (NC) 2007-75N (NO)			
DN65 to DN100	Double Acting (DA)	Passage on Actuator aluminium obligatory											
	Fail Safe	Passage on Actuator aluminium obligatory											

ALUMINIUM Actuator

DN	ACTUATOR	ISO 5211 FIXINGS (CONNECTION/DSS*)		H	C	L	M	P	WEIGHT of Actuator in Kg	PRODUCT CODE	MATERIAL
DN10 to DN20	Double Acting (DA)	F03/F05	11	See dimensions for each DN on page 6	40	119	71	67	0,91	2007-83A	Actuator in Aluminium
	Fail Safe	F05/F07	14		47	175	81	81	1,69	2007-84C (NC) 2007-85C (NO)	
DN25 to DN40	Double Acting (DA)	F05/F07	14		47	175	81	81	1,69	2007-83A(DN25) 2007-83C	
	Fail Safe	F05/F07	14		47	175	81	81	1,69	2007-84C (NC) 2007-85C (NO)	
DN50	Double Acting (DA)	F05/F07	17		54	186	98	96	2,15	2007-83D	
	Fail Safe	F05/F07	17		54	186	98	96	2,53	2007-84D (NC) 2007-85D (NO)	
DN65	Double Acting (DA)	F05/F07	17		54	186	98	96	2,15	2007-83D	
	Fail Safe	F07/F10	22		66	261	154	131	7,89	2007-84G (NC) 2007-85G (NO)	
DN80	Double Acting (DA)	F05/F07	22		54	261	154	131	3,25	2007-83E	
	Fail Safe	F07/F10	22		66	261	154	131	7,89	2007-84G (NC) 2007-85G (NO)	
DN100	Double Acting (DA)	F07/F10	22		66	261	154	131	6,45	2007-83G	
	Fail Safe	F07/F10	22		66	261	154	131	7,89	2007-84G (NC) 2007-85G (NO)	

*DSS = Double Square Socket

C = Normally Closed – NO = Normally Open

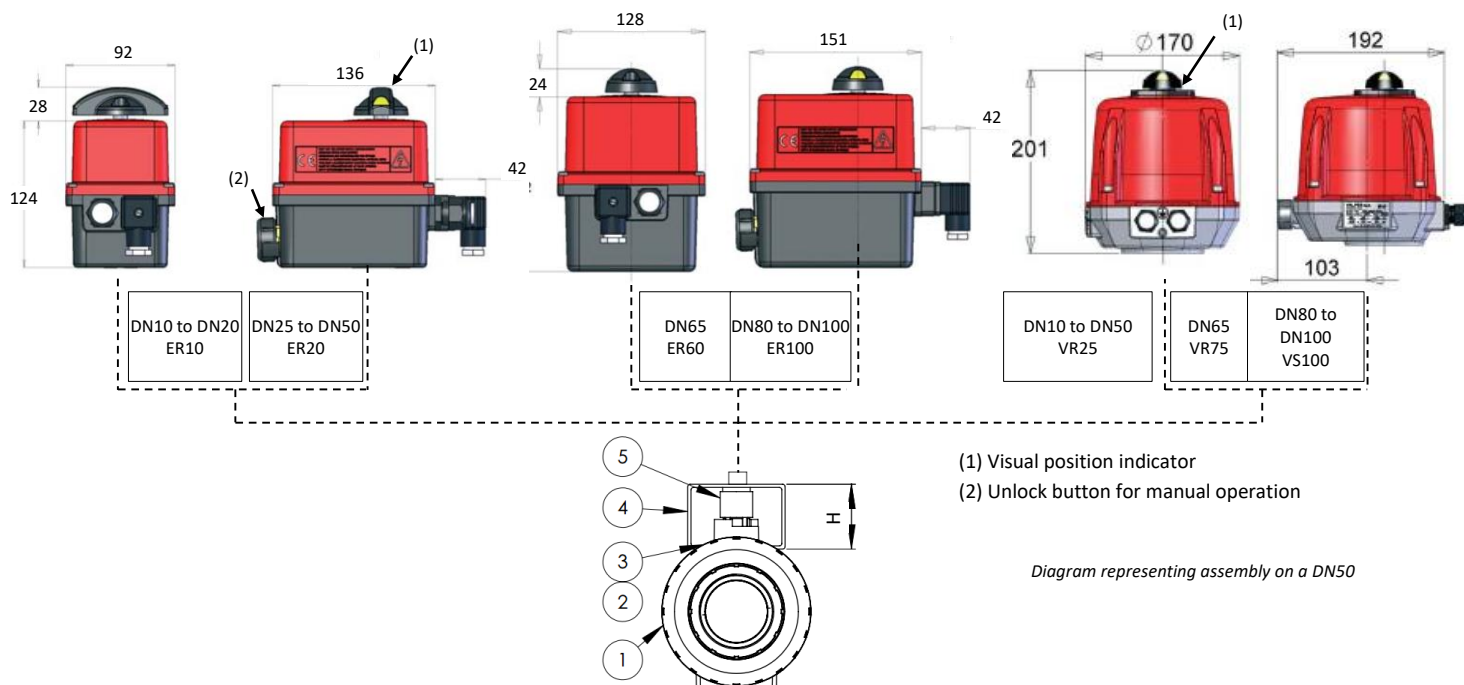
Find all the information concerning these actuators by consulting our TDS-ACTPN-0001 product sheet.

Contact us, for other type of Actuators or Limit Switch Boxes

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OPTION: ELECTRIC ACTUATION



DN	MODEL	ISO 5211 FIXINGS (CONNECTION/DSS*)		H	WEIGHT KG	PRODUCT CODE	MATERIAL	ROTATION 90°
DN 10 to 20	ER10 (15-30V AC 12-48V DC)	F03-F05	14	See dimensions for each DN on page 6	1 to 2,1	2907-39B	PA6	11s
	ER10 (90-240V AC 90-350V DC)	F03-F05	14		1 to 2,1	2907-39A	PA6	11s
	VR25 (400V three phase)	F05-F07	17		3,1 to 4,4	2907-50I	Alu + PA6	10s
DN 25 to 50	ER20 (15-30V AC 12-48V DC)	F03-F05	14		1 to 2,1	2907-40A	PA6	12s
	ER20 (90-240V 90-350V DC)	F03-F05	14		1 to 2,1	2907-40C	PA6	12s
	VR25 (400V three phase)	F05-F07	17		3,1 to 4,4	2907-50I	Alu + PA6	10s
DN 65	ER60 (15-30V AC 12-48V DC)	F05-F07	22		1 to 2,1	2907-43F	PA6	12s
	ER60 (90-240V AC 90-350V DC)	F05-F07	22		1 to 2,1	2907-43B	PA6	12s
	VR75 (400V three phase)	F05-F07	17		3,1 to 4,4	2907-44J	Alu + PA6	20s
DN 80 to 100	ER100 (15-30V AC 12-48V DC)	F05-F07	22		1 to 2,1	2907-49D	PA6	22s
	ER100 (90-240V AC 90-350V DC)	F05-F07	22		1 to 2,1	2907-49B	PA6	23s
	VS100 (400V Three phase)	F05-F07	17		5,1 to 6,4	2907-45I	Alu + PA6	15s

*DSS = Double Square Socket

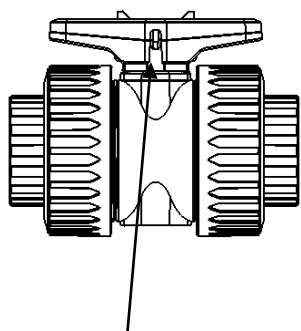
Find all the information concerning these actuators by consulting our TDS-ACTEL-0001 product sheet

Multiple Options Available: Contact Us for more information

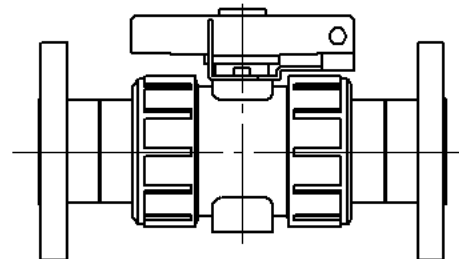
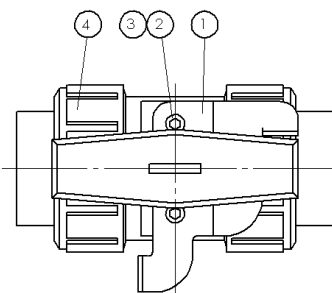
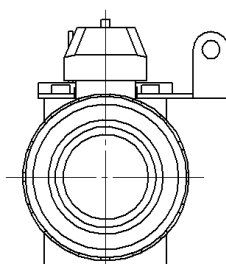
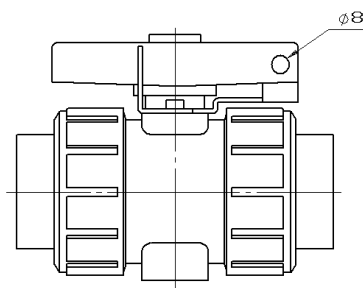
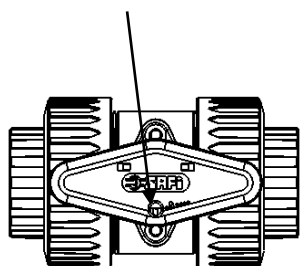
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OPTION: LOCKING SYSTEM



Handle with Locking system included



Locking system for DN10 to DN50

Locking system for DN65 to DN100

Handle with locking system included :
Ø4 Padlock wire for DN10 to DN25
Ø6 Padlock wire for DN32 to DN50

N°	QTY	DESCRIPTION	MATERIAL	DN65	DN80	DN100
1	1	LOCKING Plate*	SS 316	KIT7362	KIT7362	KIT7392
2	3	Washer	SS 316			
3	3	Screw TCHC	SS 316			
4	1	DN10 to DN100 2-way	PVC-U PVC-C PP-H PVDF	3101 Series 3111 Series 3150 Series		

*For a Padlock wire of Ø6

NOTE: Padlock not included

OTHER AVAILABLE OPTIONS

- . Manual Operation with Spring Return
- . Extended Spindle
- . Thermal Insulation Extension
- . Limit Switch Box

Contact us, for more information on the Available Options.

DETERMINING A PRODUCT CODE

TYPE	SPECIFICATION	DN	Fitting (Inlet)	Fitting (Outlet)	Seals
3101 = PVC-U Ball Valve 3111 = PVC-C Ball Valve 3150 = PP-H Ball Valve	- = Standard Ball Valve Z = Special Ball Valve	99 = DN10 00 = DN15 01 = DN20 02 = DN25 03 = DN32 04 = DN40 05 = DN50 06 = DN65 07 = DN80 08 = DN100	A = BSP Threaded Socket B = PVC-U DIN Metric plain socket C = PPH Metric plain socket F = Flange with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) G = Flange with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI) Different types of fittings are available, consult the TDS-EQUIP-3101 product sheet	A = BSP Threaded Socket B = PVC-U DIN Metric plain socket C = PPH Metric plain socket F = Flange with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) G = Flange with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI) Different types of fittings are available, consult the TDS-EQUIP-3101 product sheet	E = EPDM V = FPM Z = FPM type SAFKM5

RTS = Robinet à Tournant Sphérique

DN10 flanged = PVC only

Example: 3101-05BBE

3101	-	05	B	B	E
PVC-U Ball Valve	Standard Ball Valve	DN50	PVC-U DIN Metric plain socket	PVC-U DIN Metric plain socket	EPDM

Example: RTS + ACTUATION: 3101-05BBE + KIT00037 + 2007-73N

3101-05BBE	+	KIT00067	+	2007-73N
PVC-U Ball Valve DN50 PVC-U DIN Metric plain sockets EPDM Seals	+	MOUNTING KIT for a DN50	+	Pneumatic Actuator Fail Safe Normally Closed (NC)

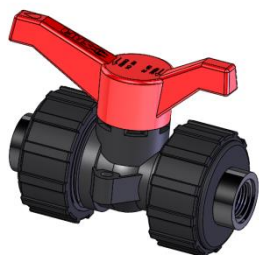
Example: Ball Valve + LOCKING SYSTEM: 3101-08BBE + KIT7362

3101-08BBE	+	KIT7362
PVC-U Ball Valve DN80 PVC-U DIN Metric plain sockets EPDM Seals	+	LOCKING SYSTEM for a DN80

2 & 3-WAY - DOUBLE UNION – BALL VALVE

DN15 (1/2") to DN50 (2") – PPGF, PVDF

Conform to the 2014/68/EU Directive



DN15 – 2-way
PPGF



DN50 – 2-way
PPGF



DN50 – 3-way
PVDF

MAIN FEATURES

- Full Bore .
- Inner Shape promoting flow and limiting retention zones.
- 2 lateral fixing points for valve installation or actuation.
- Easy to actuate manual valve to desired control (Electric or Pneumatic) by removable handle.
- Color Handle and safety plate indicating type of Seals (Red = EPDM, Green = FPM, blue = FEP/FFPM).
- Many Available Fittings.

STANDARDS & APPROVALS



DGS/SD7A N°571 : Circular on the terms and conditions for the verification of the sanitary conformity of the constituent materials of accessories or subassembly accessories, consisting of organic elements in contact with water intended for human consumption (Food Grade Approval)



Products complying with the requirements of EN ISO Standard 15848-1 (Class B) and German standard TA-Luft VDI 2440, which define external leak criteria for leaktight systems



NR320 : Certification scheme of materials and equipment for the classification of marine units

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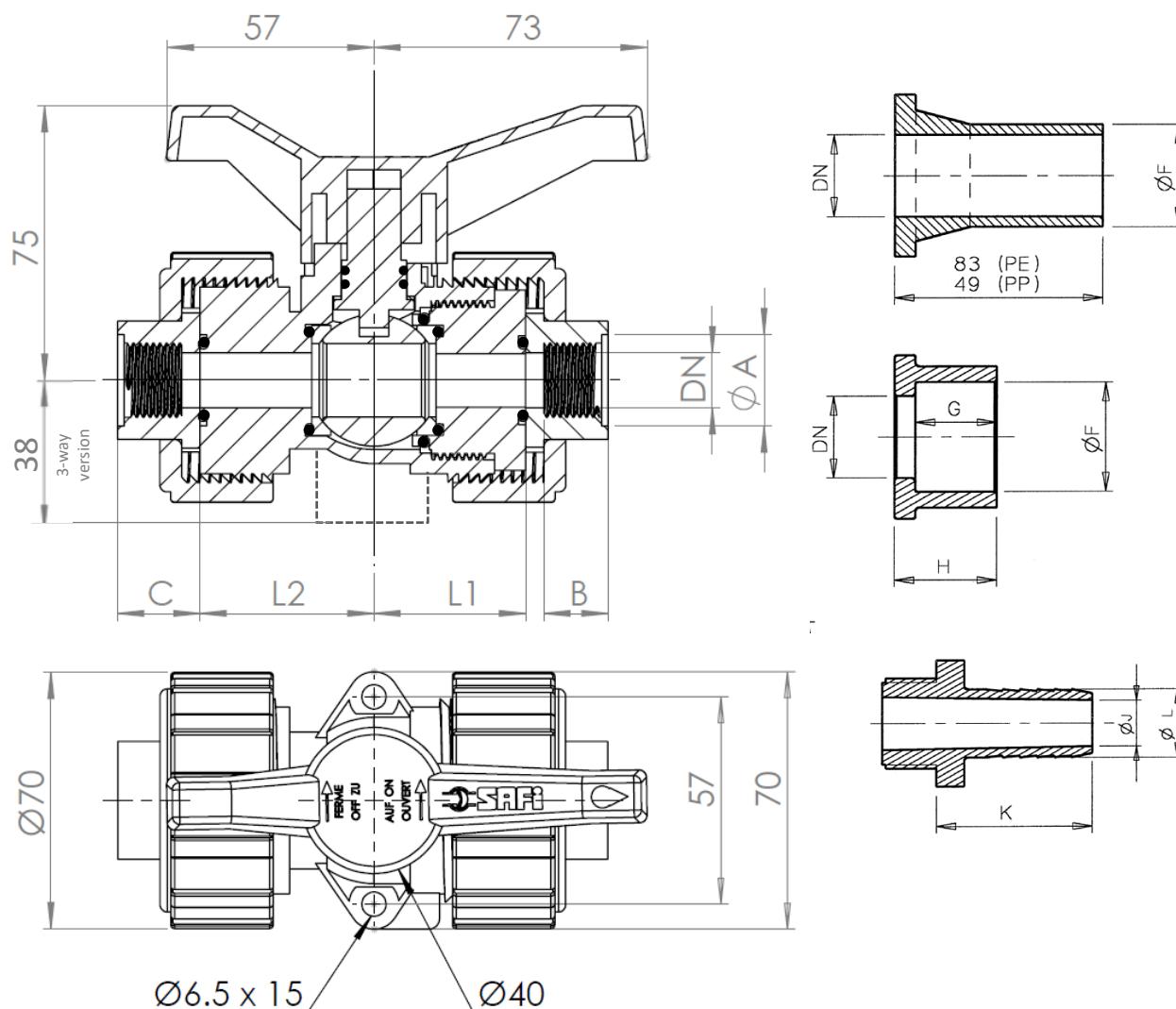
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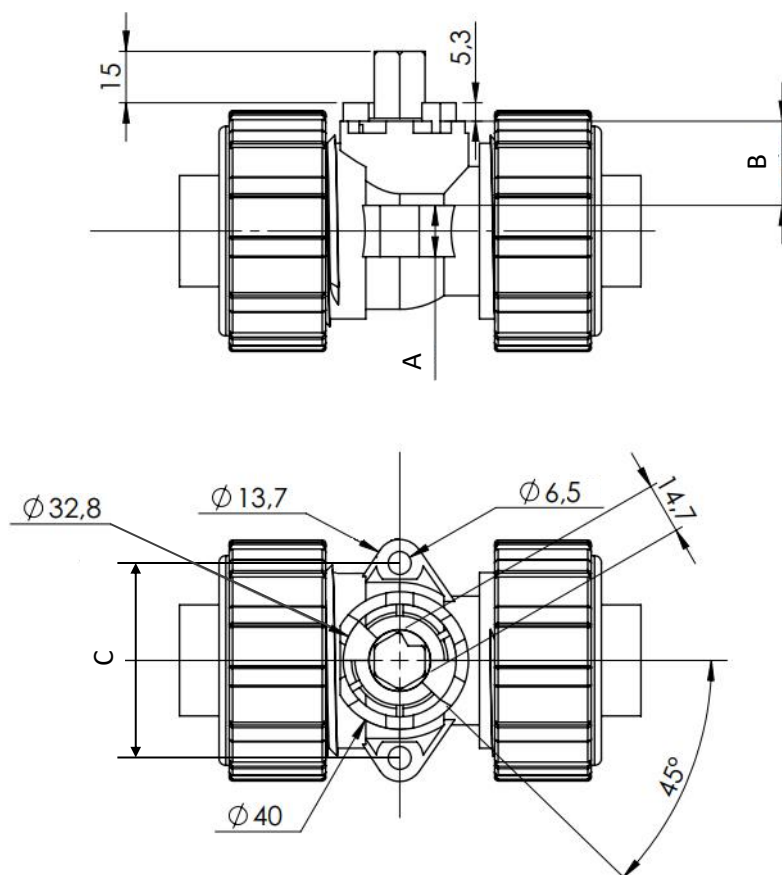
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DIMENSIONS

DN15 to DN20

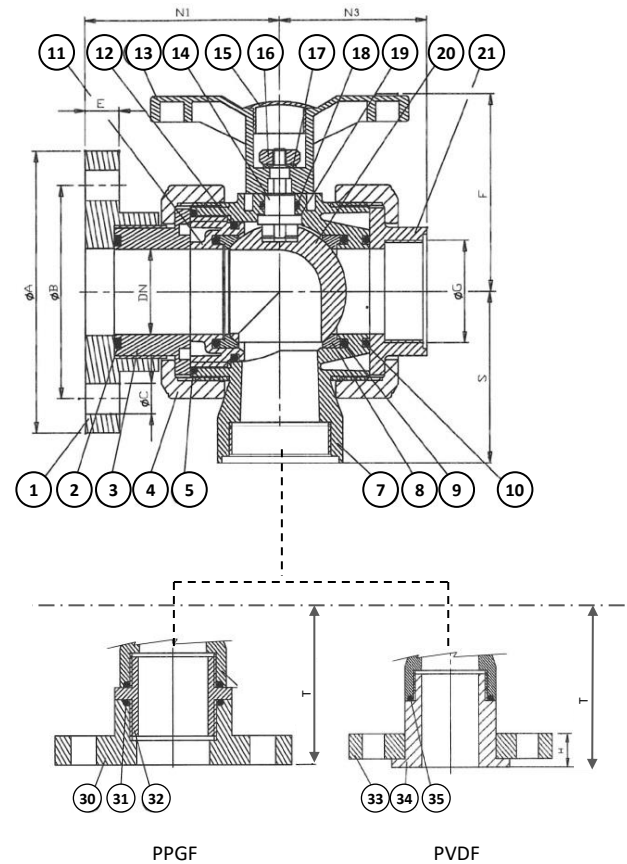
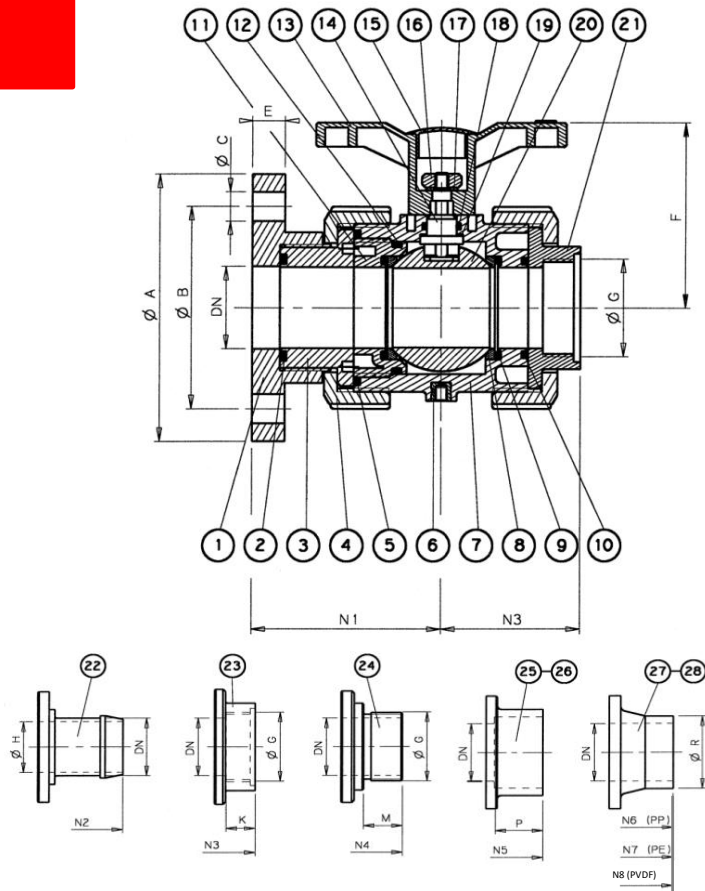


DN	ØA	B	C	L1	L2	ØF	G	H	ØJ	K	ØL	WEIGHT	
												PPGF	PVDF
15	1/2" GAZ	18	23	47	41	20	17	21	10	33	14	0.3Kg	0.46Kg
									13	48	16		
20	3/4" GAZ	21	25	47	41	25	20	25	13	49	16	0.3Kg	0.46Kg
									13	46	19		
									19	48	25		



DN	A	B	C
15	15	24	57
20	15	24	57

DN25 to DN50



DN	A	Ø B			Ø C			E	F	F*	G	H	N1	N2	N3	N4	N5	N6	N7	N8	N9	P	R	S	T	
		DIN	ANSI	BS	DIN	ANSI	BS																		PPGF	PVDF
25	115	85	79,5	82	14	16	14	16	78	98*	1" GAZ	26	80	106	68	88	65	90	122	96	86	22	32	70	103	103
32	140	100	89	87,3	18	16	14	18	83	103*	1" 1/4 GAZ	27	90	109,5	74	91,5	75	95	128	110	112	26	40	76	116	107
40	150	110	98,4	98,4	18	16	14	18	89	89	1" 1/2 GAZ	30	100	115,5	82	97,5	86	100	153	117	118	31	50	90	136	120
50	165	125	120,6	114,3	18	19	18	20	95	95	2" GAZ	32	115	119	86	101	96,5	103	168	124	120	37,5	63	100	158	127

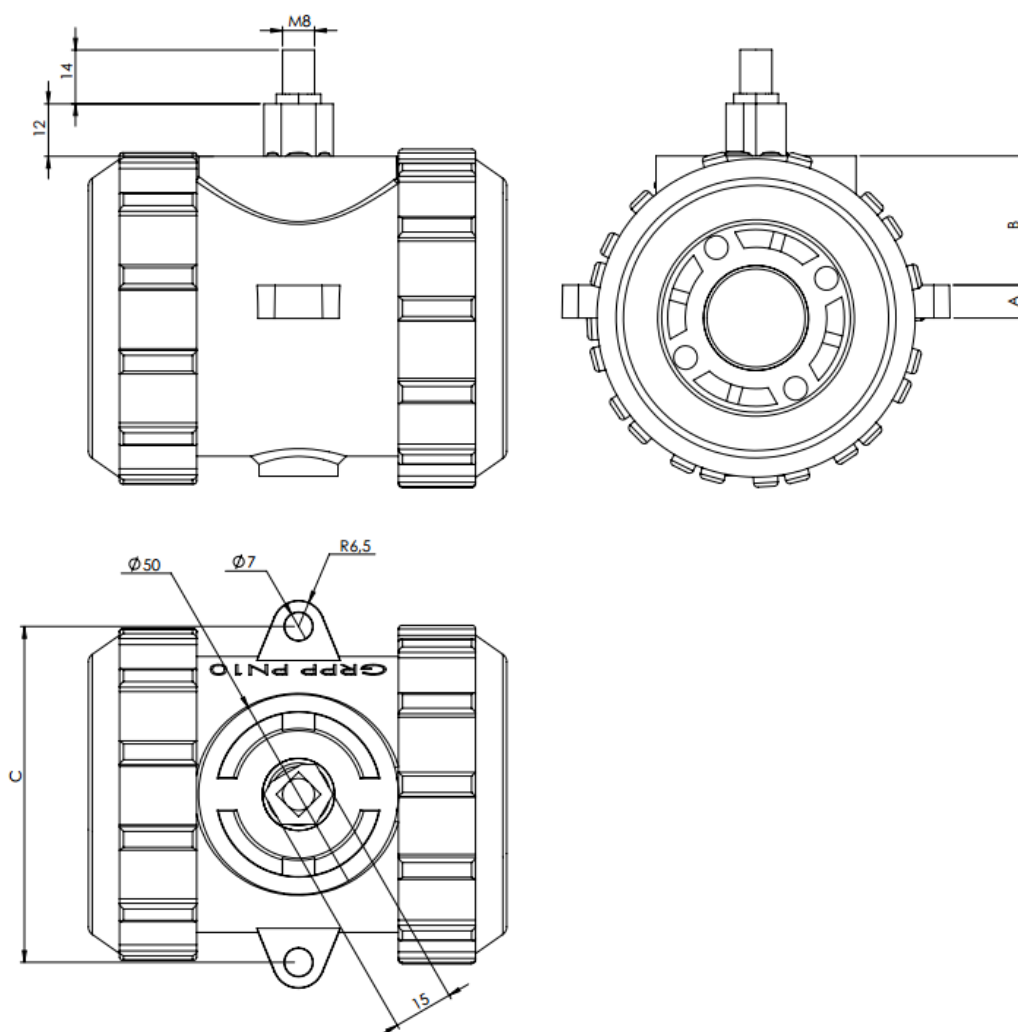
(*): When the valve is equipped with Flanges, the F Dimension increases by 20mm for DN25 and DN32.

DIN = Drilling in accordance with EN 1092-1 PN10/PN

ANSI = Drilling in accordance with EN1759-1/ASME B16.5 Class 150

DN	PPGF WEIGHT (Kg)	PVDF WEIGHT (Kg)
	WITH 2 FITTINGS	WITH 2 FITTINGS
25	0,47	0,85
32	0,75	1
40	0,93	1,5
50	1,13	1,9

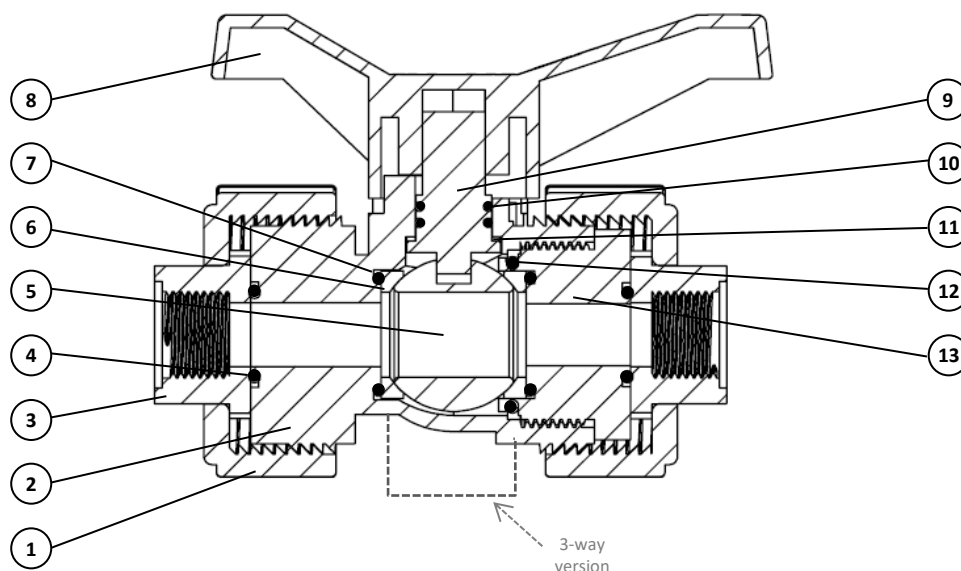
Different types of fittings are available, consult the TDS-EQUIP-1003 product sheet.



DN	A	B	C
25	8,3	32,3	84
32	13,8	32,3	94
40	12,6	40	106
50	17,7	40	119

PARTS LIST

DN15 to DN20



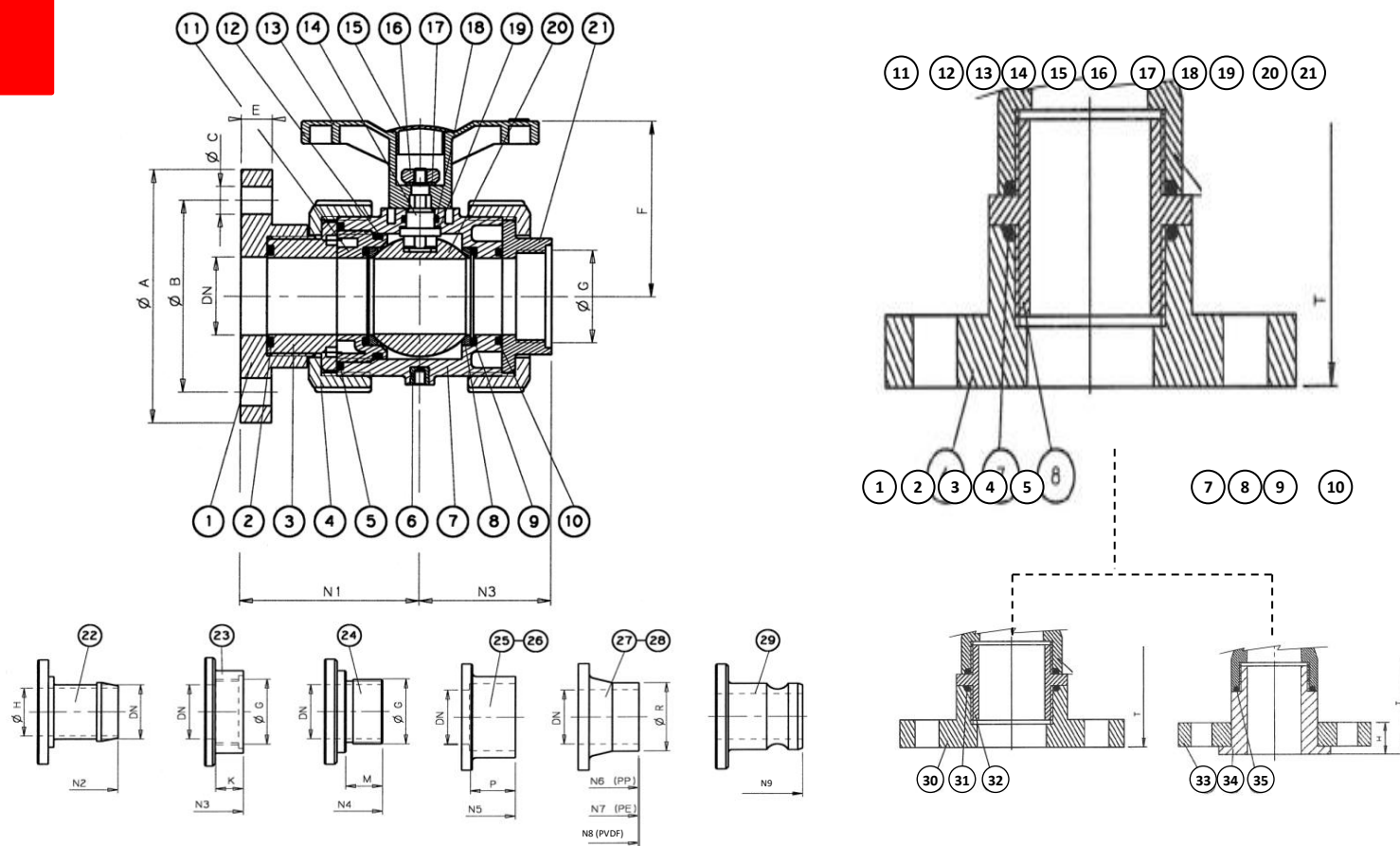
N°	QTY	DESCRIPTION	MATERIAL
1	1	BODY NUT	PPGF, PVDF
2	1	BODY	PPGF, PVDF
3	2	FITTING	PPGF, PP-H, PE-HD
4*	2	O-RING	EPDM, FPM**
5*	1	BALL L Port, double L Port, T Port	PP-H, PVDF
6*	2	SEAT	PTFE
7*	2	O-RING	EPDM, FPM**
8*	1	RED HANDLE	PPGF
		GREEN HANDLE	PPGF
9	1	SPINDLE	PPGF, PVDF
10*	2	O-RING	EPDM, FPM**
11*	1	FRICTION WASHER	PTFE
12*	1	O-RING	EPDM, FPM**
13	1	ADJUSTING END	PPGF, PVDF

(*): Spare part

(**): FPM type SAFKM5

Different types of fittings are available, consult the TDS-EQUIP-1003 product sheet.

DN25 to DN50



Different types of fittings are available, consult the TDS-EQUIP-1003 product sheet.

N°	QTY	DESCRIPTION	MATERIAL
1	1	FLANGE	PPGF, PVDF
2*	1	O-RING	EPDM, FPM**, FEP
3	1	LEFT HAND BUSH	PPGF, PVDF
4	2	BODY NUT	PPGF, PVDF
5*	1	O-RING	EPDM, FPM**, FEP
6	1	FIXING INSERT	SS 303
7	1	BODY	PPGF, PVDF
8*	2	SEAT	PTFE
9*	2	SEAT O-RING	EPDM, FPM**, FEP
10*	1	O-RING	EPDM, FPM**, FEP
11	1	ADJUSTING END	PPGF, PVDF
12*	1	O-RING	EPDM, FPM**, FEP
13	1	HANDLE	PPGF
14	1	DRIVE SPINDLE	PPGF, PVDF
15	1	CAP	PE
16	1	NUT	SS 304
17	1	WASHER	SS 304
18*	1	O-RING	EPDM, FPM**, FFKM
19*	1	FRICTION WASHER	PTFE
20*	1	BALL L Port, double L Port, T Port	PP-H, PVDF

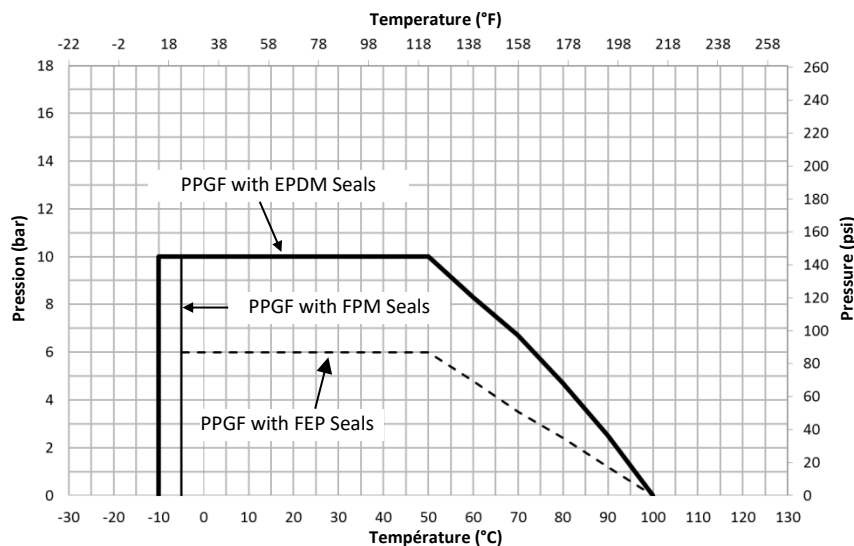
N°	QTY	DESCRIPTION	MATERIAL
21	1	BSP THREADED SOCKET	PPGF, PVDF
22	1	HOSETAIL SPIGOT	PPGF
23	1	NPT THREADED SOCKET	PPGF
24	1	THREADED SPIGOT	PPGF
25	1	DIN METRIC SOCKET	PVC-U, ABS
26	1	METRIC SOCKET	PP-H, PE-HD
27	1	METRIC SPIGOT	PPGF, PVDF
28	1	METRIC SPIGOT	PE-HD
29	1	CAMLOCK	PPGF
30	1	FLANGE	PPGF, PVDF
31*	1	O-RING	EPDM, FPM**
32	1	MALE / MALE SPIGOT	PPGF, PVDF
33	1	STUB FLANGE	PPGF, PVDF
34	1	THREADED COLLAR	PPGF, PVDF
35*	1	O-RING	EPDM, FPM**

(*): Wearing parts (**): FPM type SAFKMS

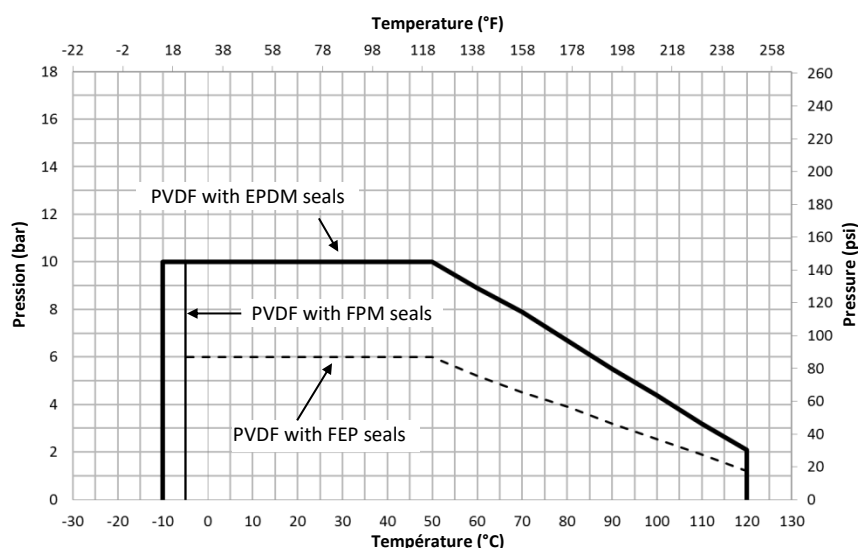
DIN = Drilling in accordance with EN 1092-1 PN10

ANSI = Drilling in accordance with ASME B16.5 Class 150

PRESSURE / TEMPERATURE CURVES



PPGF



PVDF

Pressure/Temperature Summary

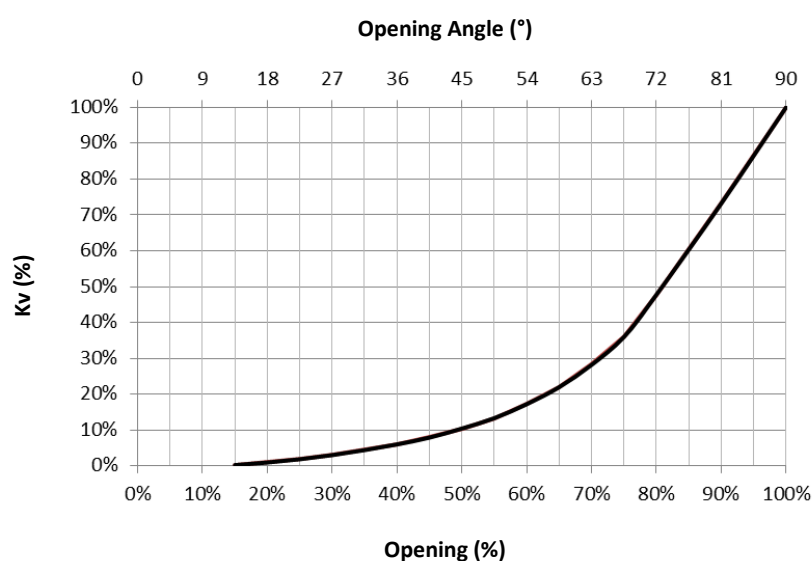
Type of Seals	Working pressure	Working Temperature	
		PPGF	PVDF
EPDM	10 bars at 20°C	- 10°C to +100°C	- 20°C to +120°C
FPM	10 bars at 20°C	- 5°C to +100°C	- 5°C to +120°C
FEP/FFPM	6 bars at 20°C	- 5°C to +100°C	- 5°C to +120°C

The mechanical characteristics of the FPM and FFPM seals subjected to an ambient temperature below -5°C require the implementation of proper insulation on the valves equipped with such seals. Contact us for more information.

PRESSURE LOSS

DN	Kv (m ³ /h)
15	12,6
20	24,2
25	44,6
32	66,0
40	109,3
50	189,9

Kv defined according to NF EN 1267



Our valves are guaranteed for an average fluid velocity in the pipeline of ≤ 2 m/s. Please contact us with the working conditions for any higher speed.

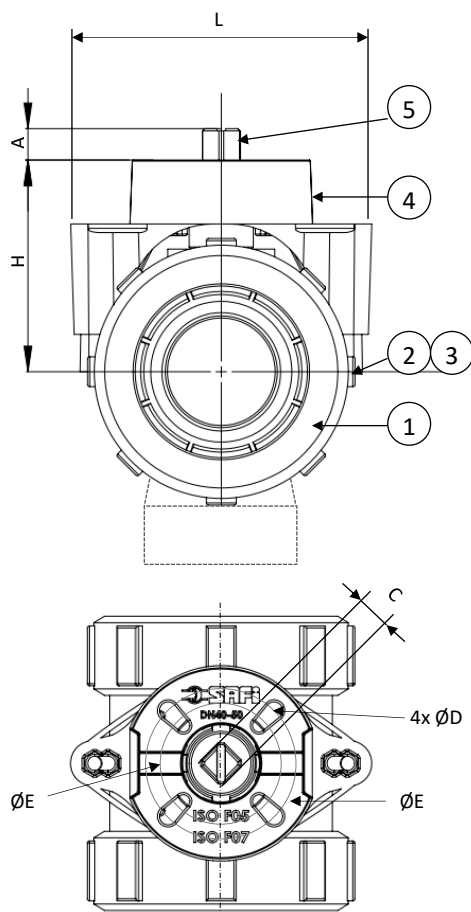
CHEMICAL RESISTANCE

The chemical resistance of the valve is subject to the type of fluid, the temperature, the pressure, as well as the materials and seals of the valve.

Please contact us to have a personalized analysis of the resistance of one of our products to a given fluid

You can also consult, for information only, the table given in ISO 10358. However, this table cannot be considered as a recommendation by SAFI who could not be held liable for the use of this document.

OPTION: MOUNTING KIT (ISO 5211)



N°	QTY	DESCRIPTION	MATERIAL
1	1	Ball Valve DN15 to DN50 – 2or 3-Way	PPGF / PVDF
2	2	Screw TCHC	SS 316
3	2	Washer	SS 316
4	1	Bracket F04, F05, F07*	PPGF
5	1	Square Drive of 11*	SS 316
		Square Drive of 14*	SS 316
		Square Drive of 17*	SS 316

(*): Multi-standard plastic bracket according to the DN of a Ball Valve

For an F04 Bracket, the Square Drive of 11 is recommended.

For an F05 Bracket, the Square Drive of 14 is recommended.

For an F07 Bracket, the Square Drive of 17 is recommended.

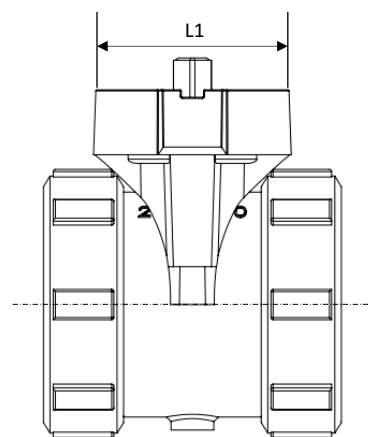


Diagram representing assembly on a DN50

DN	A	H	L	L1	ISO 5211 FIXINGS								
					F04			F05			F07		
					C*	ØD**	ØE**	C*	ØD**	ØE**	C*	ØD**	ØE**
15	15	62	91	71	11 or 14	Ø5	Ø42	11 or 14	Ø6	Ø50	-	-	-
20	15	62	91	71	11 or 14	Ø5	Ø42	11 or 14	Ø6	Ø50	-	-	-
25	18	81	117	91	14, 17 or 22	Ø5	Ø42	14, 17 or 22	Ø6	Ø50	14, 17 or 22	Ø8	Ø70
32	18	86	117	91	14, 17 or 22	Ø5	Ø42	14, 17 or 22	Ø6	Ø50	14, 17 or 22	Ø8	Ø70
40	18	92	141	91	14, 17 or 22	Ø5	Ø42	14, 17 or 22	Ø6	Ø50	14, 17 or 22	Ø8	Ø70
50	18	97	141	91	14, 17 or 22	Ø5	Ø42	14, 17 or 22	Ø6	Ø50	14, 17 or 22	Ø8	Ø70

Other Dimensions: On Request *according to version ** Multistandard bracket

Available Kits

DN	ISO 5211 FIXINGS (CONNECTION/SQ* 45°)		WEIGHT OF KIT	PRODUCT CODE
DN15-20	F04/F05	11	0.228 Kg	KIT0139 (pour SM1 uniquement)
	F04/F05	11	0,228 Kg	KIT0130
	F04/F05	14	0,235 Kg	KIT0131
DN25-32	F05/F07	14	0,350 Kg	KIT0179 (for SM1 only)
	F05/F07	14	0,350 Kg	KIT0173
	F05/F07	17	0,359 Kg	KIT0174
	F05/F07	22**	0,399 Kg	KIT0175
DN40-50	F05/F07	14	0,351 Kg	KIT0180 (for SM1 only)
	F05/F07	14	0,351 Kg	KIT0176
	F05/F07	17	0,360 Kg	KIT0177
	F05/F07	22**	0,400 Kg	KIT0178

*SQ = Square drive 45° **DSQ = Double Square drive at 45°

Valve torque for actuation

VALVE TORQUE FOR ACTUATION					
DN	PPGF		DN	PVDF	
	2-Way	3-Way		2-Way	3-Way
DN15	8 N.m	7.2 N.m	DN15	3.6 N.m	7.2 N.m
DN20			DN20		
DN25		16 N.m	DN25	8 N.m	40 N.m
DN32			DN32		
DN40			DN40	16 N.m	
DN50			DN50		48 N.m

The « valve torque for actuation » is the required torque to open the valve when dP=PN and including a safety coefficient.

OPTION: PNEUMATIC ACTUATION

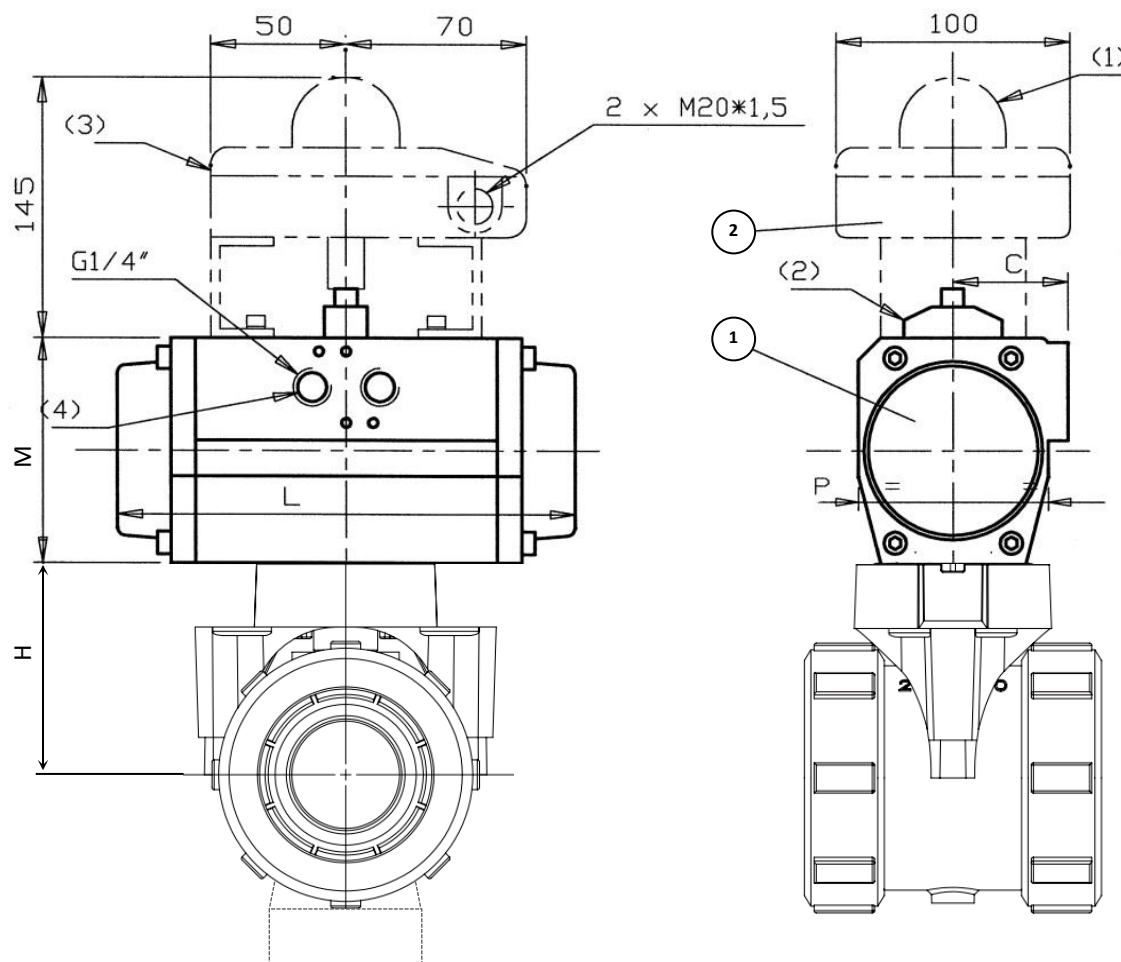


Diagram representing assembly on a DN50

N°	QTY	DESCRIPTION	MATERIAL
1	1	Actuator Double Acting or Fail Safe	Polyamide or Aluminium or Stainless Steel
2	1	Limit Switch Box (option)	Aluminium ou INOX

- (1) Visual position indicator of Limit Switch Box.
 (2) Visual position indicator of Actuator
 (3) Limit Switch Box (option)
 (4) NAMUR mounting pattern for electro pneumatic control

Pneumatic Actuators recommendation according to DN and Material of the Valves

POLYAMIDE Actuator

DN	Nbr.of Ways	ACTUATOR	ISO 5211 FIXATION (CONNEXION/DSS*)		H	C	L	M	P	WEIGHT of Actuator in Kg	PRODUCT CODE	MATERIAL
DN15-20 in PPGF & PVDF	2	Double Acting (DA)	F04	11	See dimensions for each DN on page 8	41	119	70	67	0,57	2007-73A	Polyamide Actuator
		Single Acting (SA)	F05	14		51	160	90	86	1,39	2007-73M (NF) 2007-75M (NO)	
DN15-20 in PPGF & PVDF	3	Double Acting (DA)	F04	11		41	119	70	67	0,57	2007-73A	
		Single Acting (SA)	F05	14		51	160	90	86	1,39	2007-73M (NF) 2007-75M (NO)	
DN25-32 in PPGF & PVDF	2	Double Acting (DA)	F05	14		51	160	90	86	1,19	2007-73B	
		Single Acting (SA)	F05	14		51	160	90	86	1,39	2007-73M (NF) 2007-75M (NO)	
DN40-50 in PVDF	2	Double Acting (Da)	F05	14		51	160	90	86	1,19	2007-73B	
		Single Acting (SA)	F05	14		51	160	90	86	1,39	2007-73M (NF) 2007-75M (NO)	
DN25-50 in PPGF	3	Double Acting (DA)	F05	14		51	160	90	86	1,19	2007-73B	
		Single Acting (SA)	F07	17		66	175	111,5	70	2,34	2007-73N (NF) 2007-75N (NO)	
DN25-50 in PVDF	3	Double Acting (DA)	F05	14		51	160	90	86	1,19	2007-73C	
		Single Acting (SA)	F05-F07	17		62	241	117	114	4,88	2007-84F (NF) 2007-85F (NO)	Aluminium Act.

*DSS = Double Square Socket

ALUMINIUM Actuator

DN	Nbr.of Ways	ACTUATOR	ISO 5211 FIXATION (CONNEXION/DSS*)		H	C	L	M	P	WEIGHT of Actuator in Kg	PRODUCT CODE	MATERIAL
DN15-20 in PPGF & PVDF	2	Double Acting (DA)	F04	EF11	See dimensions for each DN on page 8	40	119	71	67	0,91	2007-83A	Aluminium actuator
		Single Acting (SA)	F05/F07	EF14		54	186	98	96	1,69	2007-84C (NF) 2007-85C (NO)	
DN15-20 in PPGF & PVDF	3	Double Acting (DA)	F04	EF11		40	119	71	67	0,91	2007-83A	
		Single Acting (SA)	F05/F07	EF14		54	186	98	96	1,69	2007-84C (NF) 2007-85C (NO)	
DN25-32 in PPGF & PVDF	2	Double Acting (DA)	F05/F07	EF14		54	186	98	96	1,50	2007-83C	
		Single Acting (SA)	F05/F07	EF14		54	186	98	96	1,69	2007-84C (NF) 2007-85C (NO)	
DN40-50 in PVDF	2	Double Acting (DA)	F05/F07	EF14		54	186	98	96	1,50	2007-83C	
		Single Acting (SA)	F05/F07	EF14		54	186	98	96	1,69	2007-84C (NF) 2007-85C (NO)	
DN25-50 in PPGF	3	Double Acting (DA)	F05/F07	EF14		54	186	98	96	1,50	2007-83C	
		Single Acting (SA)	F07	17		66	175	111,5	70	2,34	2007-84D (NF) 2007-85D (NO)	
DN25-50 in PVDF	3	Double Acting (DA)	F05	14		51	160	90	86	1,19	2007-83D	
		Single Acting (SA)	F05-F07	17		62	241	117	114	4,88	2007-84F (NF) 2007-85F (NO)	

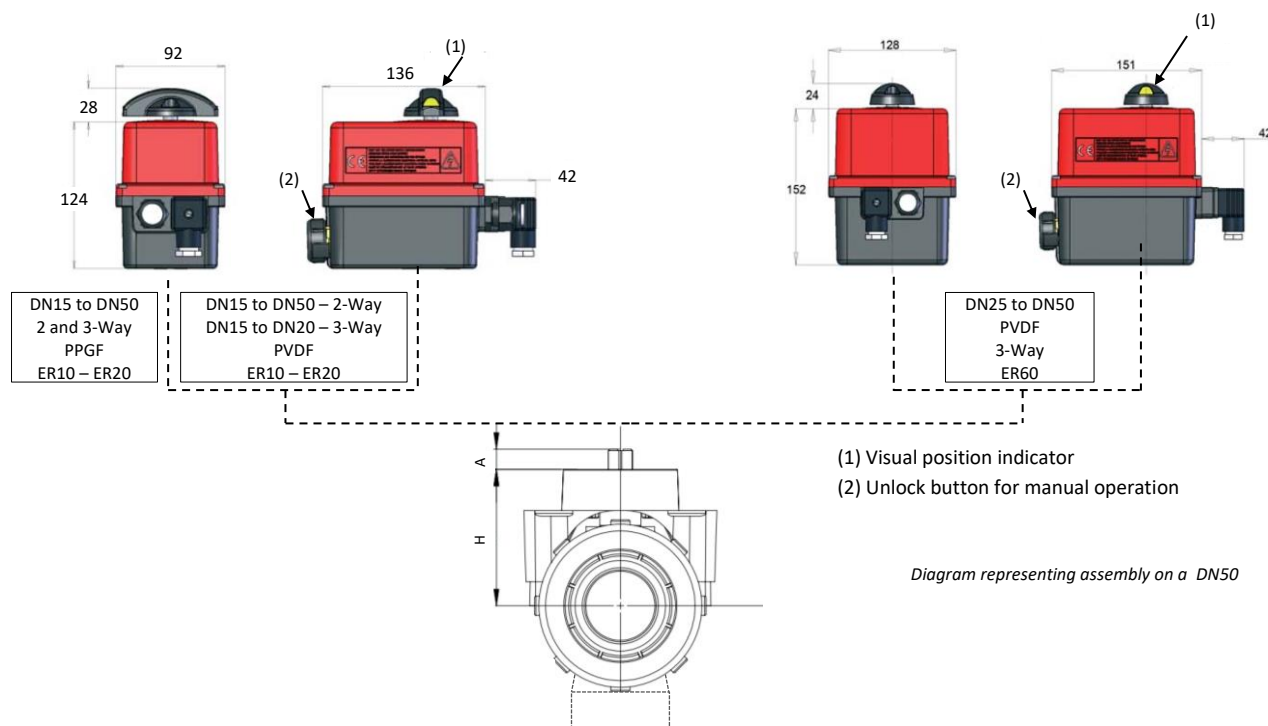
*DSS = Double Square Socket

NC= Normally Closed – NO = Normally Open

Find all the information concerning these actuators by consulting our TDS-ACTPN-0001 product sheet.

Contact us, for other type of Actuators or Limit Switch Boxes

OPTION : ELECTRIC ACTUATION



DN	Nbr. Of Ways	MODELE	ISO 5211 FIXINGS (CONNECTION/DSS*)		H	WEIGHT KG	PRODUCT CODE	MATERIAL	ROTATION 90°
DN 15 to 50 in PPGF	2	ER10 (15-30V AC 12-48V DC)	F03-F04-F05	14	See dimensions for each DN on page 8	1 to 2,1	2907-39B	PA6	11s
		ER10 (90-240V AC 90-350V DC)	F03-F04-F05	14		1 to 2,1	2907-39A	PA6	11s
DN 15 to 32 in PVDF	2	ER10 (15-30V AC 12-48V DC)	F03-F04-F05	14		1 to 2,1	2907-39B	PA6	11s
		ER10 (90-240V AC 90-350V DC)	F03-F04-F05	14		1 to 2,1	2907-39A	PA6	11s
DN 40 to 50 in PVDF	2	ER20 (15-30V AC 12-48V DC)	F03-F04-F05	14		1 to 2,1	2907-40A	PA6	12s
		ER20 (90-240V AC 90-350V DC)	F03-F04-F05	14		1 to 2,1	2907-40C	PA6	12s
DN 15 to 20 in PPGF	3	ER10 (15-30V AC 12-48V DC)	F03-F04-F05	14		1 to 2,1	2907-39B	PA6	11s
		ER10 (90-240V AC 90-350V DC)	F03-F04-F05	14		1 to 2,1	2907-39A	PA6	11s
DN 25 to 50 in PPGF	3	ER20 (15-30V AC 12-48V DC)	F03-F04-F05	14		1 to 2,1	2907-40A	PA6	12s
		ER20 (90-240V AC 90-350V DC)	F03-F04-F05	14		1 to 2,1	2907-40C	PA6	12s
DN 15 to 20 in PVDF	3	ER20 (15-30V AC 12-48V DC)	F03-F04-F05	14		1 to 2,1	2907-40A	PA6	12s
		ER20 (90-240V AC 90-350V DC)	F03-F04-F05	14		1 to 2,1	2907-40C	PA6	12s
DN 25 to 50 in PVDF	3	ER60 (15-30V AC 12-48V DC)	F05-F07	22		1 to 2,1	2907-43F	PA6	12s
		ER60 (90-240V AC 90-350V DC)	F05-F07	22		1 to 2,1	2907-43B	PA6	12s

*DSS = Double Square socket

Find all the information concerning these actuators by consulting our TDS-ACTEL-0001 product sheet

Multiple Options Available: Contact us for more information

Les descriptions et caractéristiques figurant sur ce document sont données uniquement à titre d'information et non d'engagement contractuel. SAFI se réserve le droit d'effectuer sans préavis, toute modification.

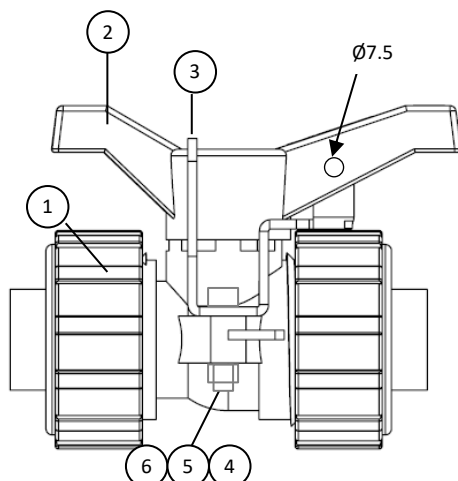
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OPTION: LOCKING SYSTEM

Ball Valve - DN15 to DN20 – 2 Way – PPGF, PVDF

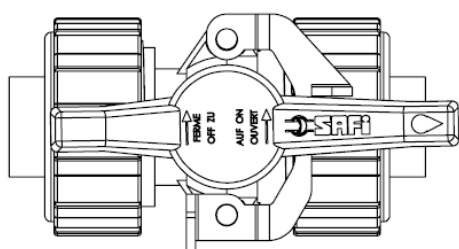


N°	Qty	DESCRIPTION	MATERIAL
1	2	Body, Double union, 2 Way	PPGF, PVDF
2	1	Drilled Red handle	PPGF
		Drilled Green handle	PPGF
3	1	Locking plate	SS 304 + Epoxy
4	2	TCHC M6 screw	SS 316
5	2	Washer	SS 316
6	2	Nut	SS 316

*For Ø7 padlock

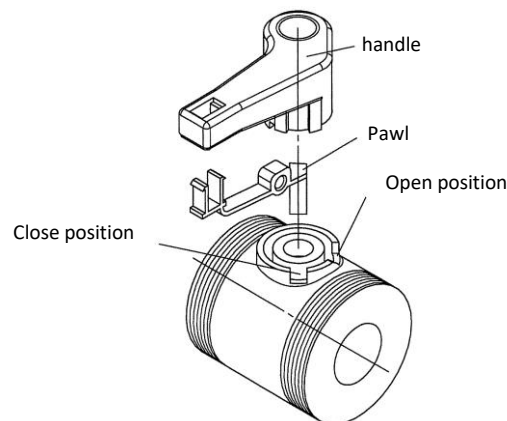
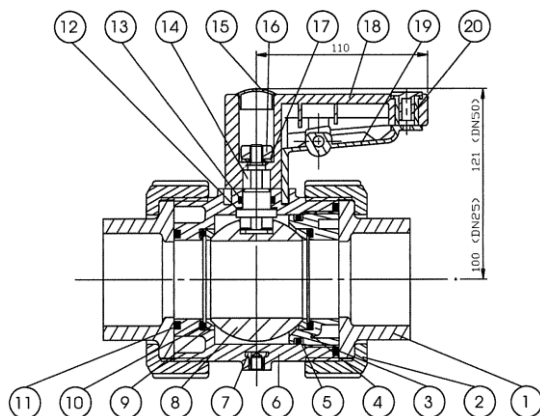
NOTE : padlock not included.

Locking system in SS316 : contact us



DESCRIPTION	DN	NBRE OF WAY	MATERIAL	PRODUCT CODE
Locking system with RED Handle (EPDM seals)	DN15 to DN20	2	PPGF	1102-06RTR
Locking system with GREEN Handle (FPM seals)	DN15 to DN20	2	PVDF	1102-06RTV

Ball valve - DN25 to DN50 - PPGF 2 Way



Rep	Qté	DESCRIPTION	MATERIAL
1	2	Fitting	PPGF
2	2	Nut	PPGF
3*	1	O-ring	EPDM/FPM**
4	1	Adjusting end	PPGF
5*	1	O-ring	EPDM/FPM**
6	1	Body	PPGF
7	1	Fixing insert	SS 304
8*	1	Ball	PP-H
9*	2	Seat	PTFE
10*	2	O-ring	EPDM/FPM**
11*	1	O-ring	EPDM/FPM**
12*	1	Friction washer	PTFE
13*	1	O-ring	EPDM/FPM**
14	1	Spindle	PPGF
15	1	Cap	PE
16	1	Hu M8 nut	SS 316
17	1	L8 washer	SS 316
18	1	Red handle	PPGF
		Green handle	PPGF
19	1	Red pawl	PPGF
		Green pawl	PPGF
20	1	Red cap	PPGF
		Green cap	PPGF

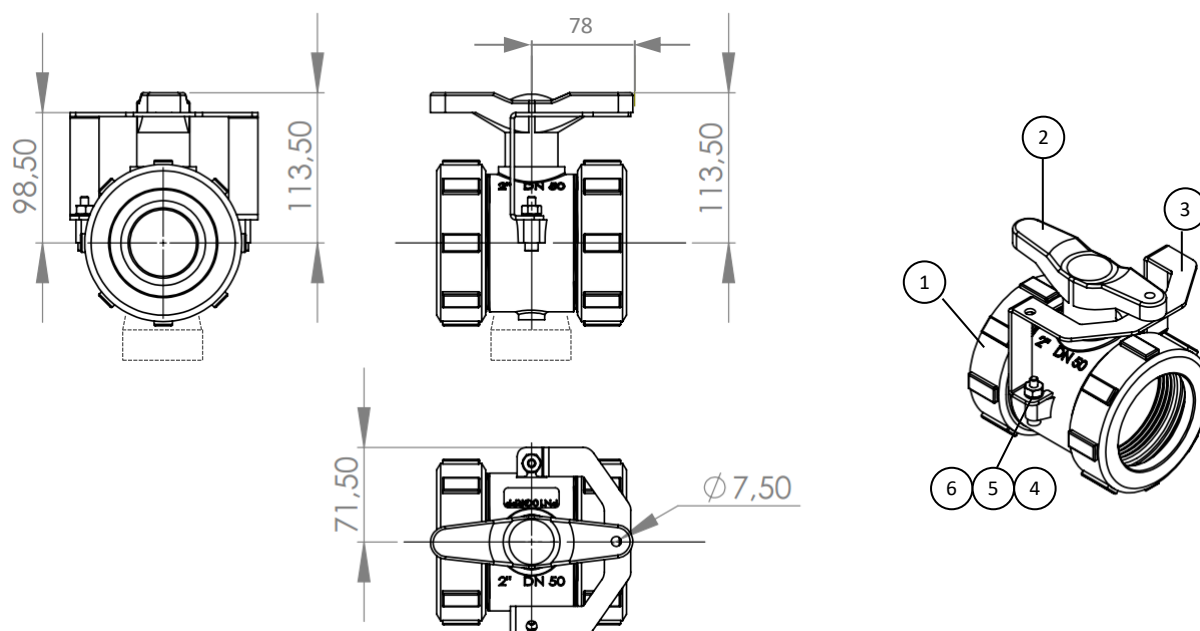
*For Ø7 padlock

NOE :Padlock not included.

DESCRIPTION	DN	NBRE OF WAY	MATERIAL	PRODUCT CODE
Locking system with RED Handle (EPDM seals)	DN25 and DN32	2	PPGF	Ball valve series 2038
Locking system with GREEN Handle (FPM seals)	DN25 and DN32	2	PPGF	Ball valve series 2038

Locking system in SS316 : contact us

Ball valve - DN25 to DN50 – PPGF 3 way – PVDF 2 and 3 WAY



Rep	Qté	DESCRIPTION	MATERIAL
1	2	Body, double union, 2 or 3 Way, DN25 to DN50	PPGF, PVDF
2	1	Enhance red handle	PPGF
		Enhance green handle	PPGF
3	1	Locking plate	SS 304+Epoxy
4	2	TCHC M6 screw	SS 316
5	2	Washer	SS 316
6	2	Nut	SS 316

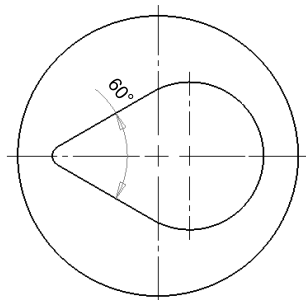
*For Ø7 padlock

NOE : Padlock not included.

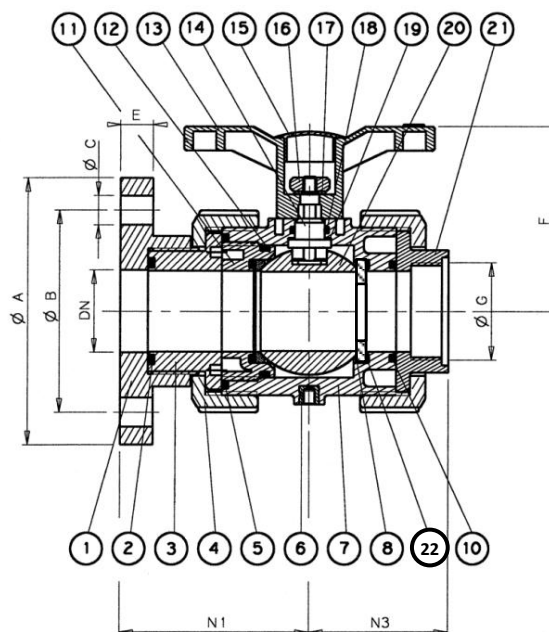
Locking system in SS316 : contact us

DESCRIPTION	DN	NBRE OF WAY	MATERIAL	PRODUCT CODE
Locking system with RED Handle (EPDM seals)	DN25 to DN32	2	PPGF + PVDF	1102-06PTR
	DN40 to DN50	2	PPGF + PVDF	1102-06QTR
	DN25 to DN32	3	PPGF + PVDF	1102-06MTR
	DN40 to DN50	3	PPGF + PVDF	1102-06NTR
Locking system with GREEN Handle (FPM seals)	DN25 to DN32	2	PPGF + PVDF	1102-06PTV
	DN40 to DN50	2	PPGF + PVDF	1102-06QTV
	DN25 to DN32	3	PPGF + PVDF	1102-06MTV
	DN40 to DN50	3	PPGF + PVDF	1102-06NTV

OPTION: FLOW REGULATION PLATE



Example of a regulation plate

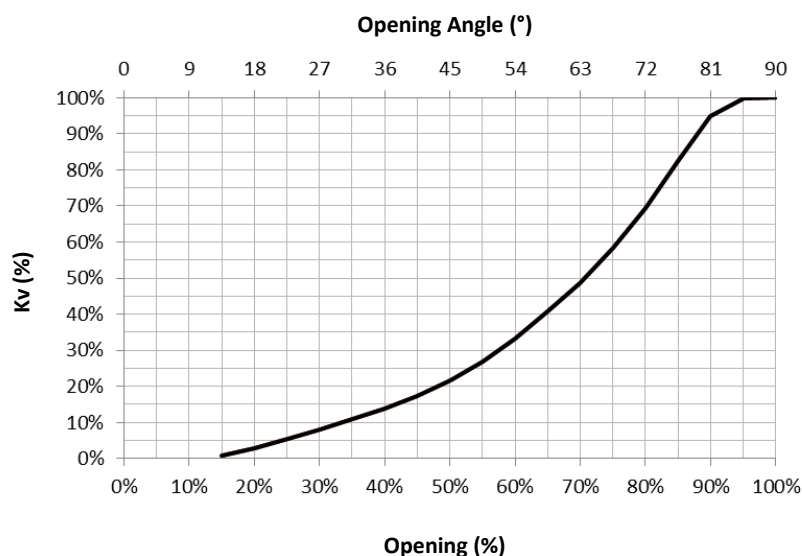


For items 1 to 21 : See page2

N°	DESCRIPTION	MATERIAL	QUANTITY
22	REGULATION PLATE	PVDF	1

DN	Kv (m ³ /h)
15	4,2
20	8,0
25	14,8
32	21,9
40	36,2
50	62,9

Kv defined according to NF EN 1267



OTHER AVAILABLE OPTIONS

- . Manual Operation with Spring Return
- . Extended Stem
- . Thermal Insulation Extension
- . Limit Switch Box

Contact us, for more information on the Available Options.

DETERMINING A PRODUCT CODE

TYPE	SPECIFICATION	DN	Fitting (Inlet)	Fitting (Outlet)	Seals
1003 = PPGF 2-way 2003 = PPGF 3-way 2038 = PPGF Manual 2-way Lockable Handle	- = Standard Ball Valve O = Ball Valve with Regulation Plate Z = Special Ball Valve	10 = DN15 11 = DN20 02 = DN25 03 = DN32 04 = DN40 05 = DN50	A = BSP Threaded Socket C = PP-H Metric Socket F = Flange with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) G = Flange with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI) Different types of fittings are available, consult the TDS- EQUIP-1003 product sheet	A = BSP Threaded Socket C = PP-H Metric Socket F = Flange with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) G = Flange with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI) Different types of fittings are available, consult the TDS- EQUIP-1003 product sheet	E = EPDM V = FPM type SAFKM5 P = FEP+FPM+FFPM PP = FEP+FFPM
2027 = PVDF 2-way 2035 = PVDF 3-way	- = Standard Ball Valve O = Ball Valve with Regulation Plate Z = Special Ball Valve	10 = DN15 11 = DN20 02 = DN25 03 = DN32 04 = DN40 05 = DN50	A = BSP Threaded Socket C = PVDF Metric Socket F = Flange with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) G = Flange with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI) Different types of fittings are available, consult the TDS-EQUIP-1003 product sheet	A = BSP Threaded Socket C = PVDF Metric Socket F = Flange with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) G = Flange with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI) Different types of fittings are available, consult the TDS-EQUIP-1003 product sheet	E = EPDM Z = FPM type SAFKM5 P = FEP+FPM+FFPM PP = FEP+FFPM

Example : 1003-05AAE

1003	-	05	A	A	E
PPGF Ball Valve Manual 2-way	Standard Ball Valve	DN50	BSP Threaded Socket	BSP Threaded Socket	EPDM Seals

Example: Ball Valve + ACTUATOR: 1003-05AAE + KIT0176 + 2007-73M

1003-05AAE	+	KIT0176	+	2007-73M
PPGF Ball Valve, 2-way DN50 BSP Threaded Sockets EPDM Seals	+	MOUNTING KIT for a DN50	+	Pneumatic Actuator in Polymer Spring Return Normally Closed (NC)