

2-Way –BALL VALVE – DOUBLE UNION DN15 (1/2") to DN100 (4") – PVC-U, PVC-C, PP-H

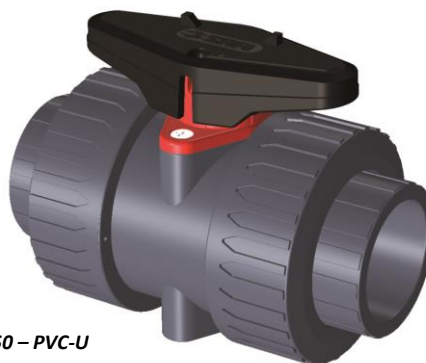
Conform to the 2014/68/EU Directive



DN50 – PVC-C



DN50 - PPH



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

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SAFI Fabrica de Valvulas

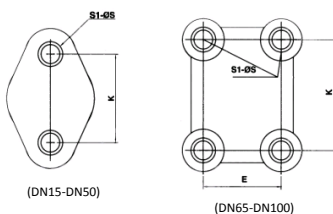
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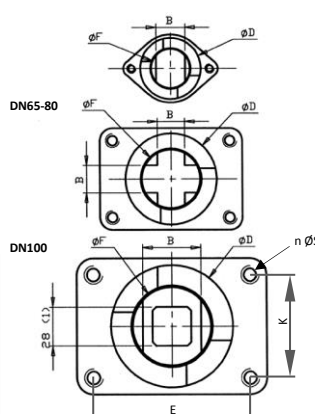
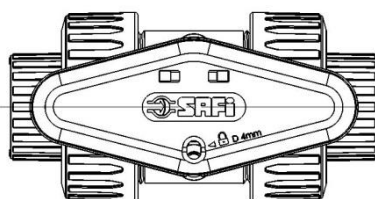
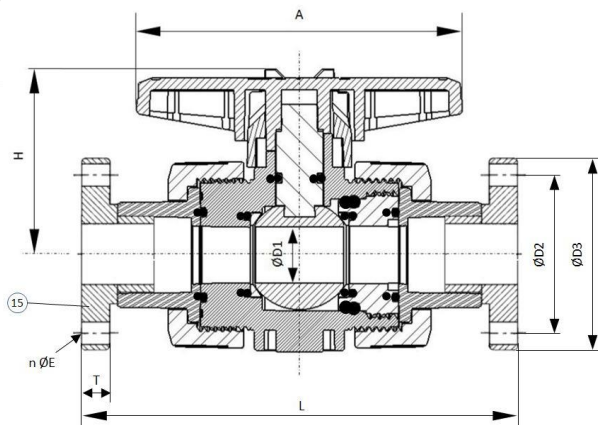
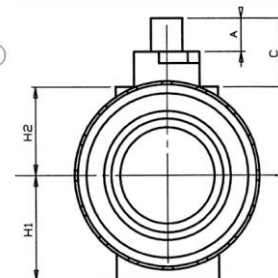
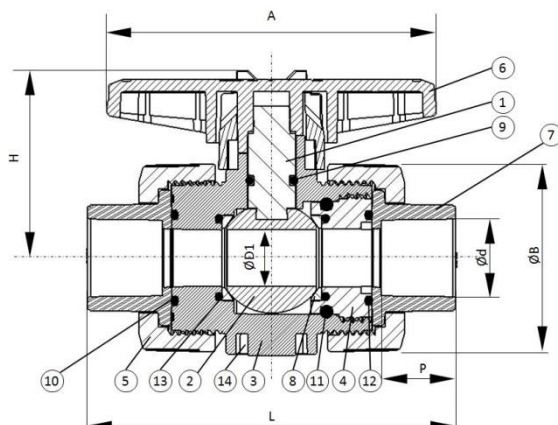
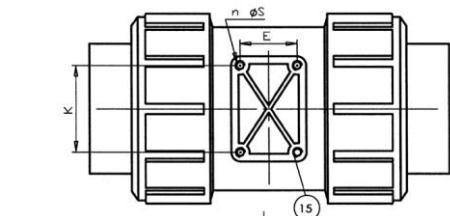
DIMENSIONS

FIXINGS INSERTS
(top & bottom)



(DN15-DN50)

(DN65-DN100)



DN65-80

DN100

(1) on a depth of 30

DN	Weight (Kg)
15	0,22
20	0,34
25	0,49
32	1,04
40	0,95
50	1,68
65	2,96
80	5,16
100	8,00

						Ød							L																			
DN	ØD1	ØD2		ØD3		Metric Sockets		Threaded	Øe	n	P	Metric Sockets Threaded		Flanges		A	ØB	C	E	ØF	G	H	H1	H2	ØJ	K	Q	ØS	S1	T		
		DIN	ANSI	DIN	ANSI	DIN	ANSI					PVC-U PVC-C	PPH	PVC-U PVC-C	PP-H																	
15	15	65	60,6	95	88,9	20	21,5	R1/2"	14	4	16	115	115	153	153	82,7	53,2	17	-	13,2	9,5	51	28	24	20,3	31	9	M4	4	15		
20	19	75	69,9	105	98,4	25	26,8	R3/4"	14	4	18,5	126	126	165	165	101,2	63	21,5	-	16,2	12	63	33	30	22,5	37	9	M6	4	15		
25	25	85	79,4	115	108	32	33,7	R1"	14	4	22	144	144	189	189	111,8	72,2	24	-	20	15,7	72	37	34	27,3	40	12,5	M6	4	17		
32	38	100	88,9	140	117,5	40	42,4	R1 1/4"	18	4	26	181	181	226	226	121,4	97	32	-	22,5	16,5	86	40	40	34,5	55	14,5	M8	4	17		
40	38	110	98,4	150	127	50	48,6	R1 1/2"	18	4	31	181	181	226	226	121,4	97	32	-	22,5	16,5	86	40	40	34,5	55	14,5	M8	4	19		
50	48	125	120,7	165	152,4	63	60,6	R2"	18	4	37,5	202	202	253	253	149,3	118,9	37	-	25,5	19	100	52	50	38	68	18	M8	4	21		
65	65	145	139,7	185	177,8	75	73,4	R2 1/2"	18	4	43,5	227	227	281	281	190	150,1	58,5	41	27	14	140	79	64	45	80	30	M8	8	21		
80	78	160	152,4	200	190,5	90	89,3	R3"	18	8	51	275	275	330	330	230,1	183,9	68,5	41	33	17	165,1	95	75	53,7	80	31,5	M8	8	22		
100	102	180	190,5	220	228,6	110	114,8	R4"	18	8	61	321	321	378	378	274	226	63	50	53	47,5	172	103	94	74,7	121	33	M8	8	22		

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

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

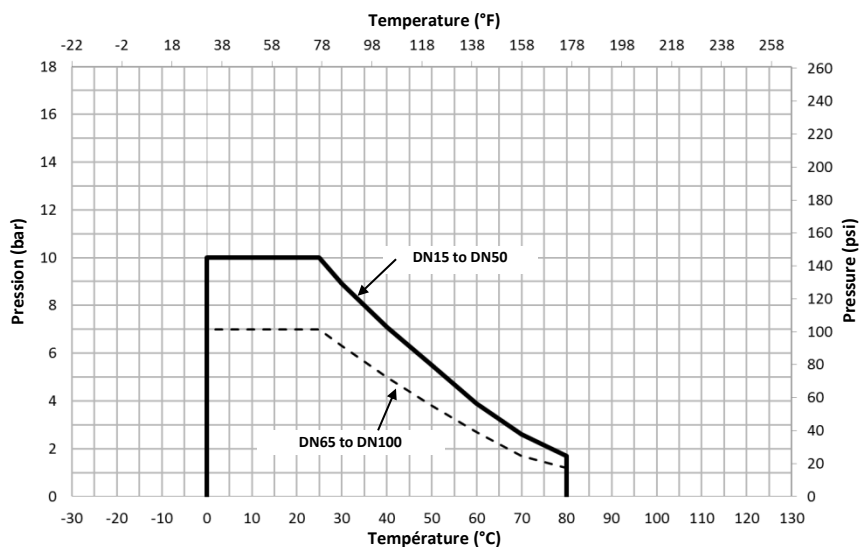
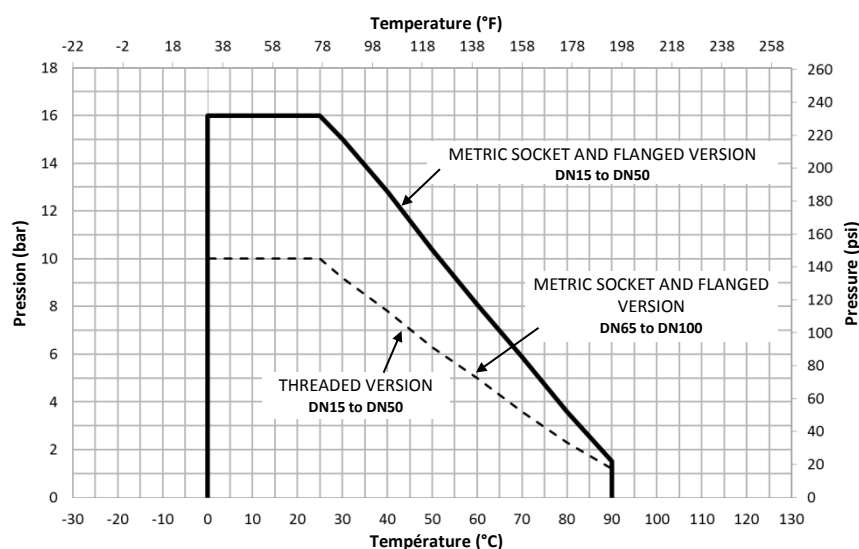
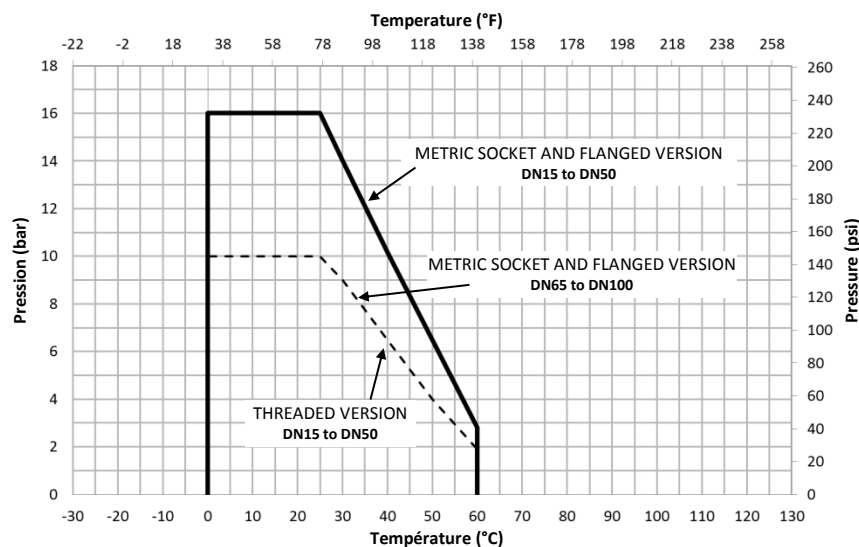
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PRESSURE / TEMPERATURE CURVES



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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.

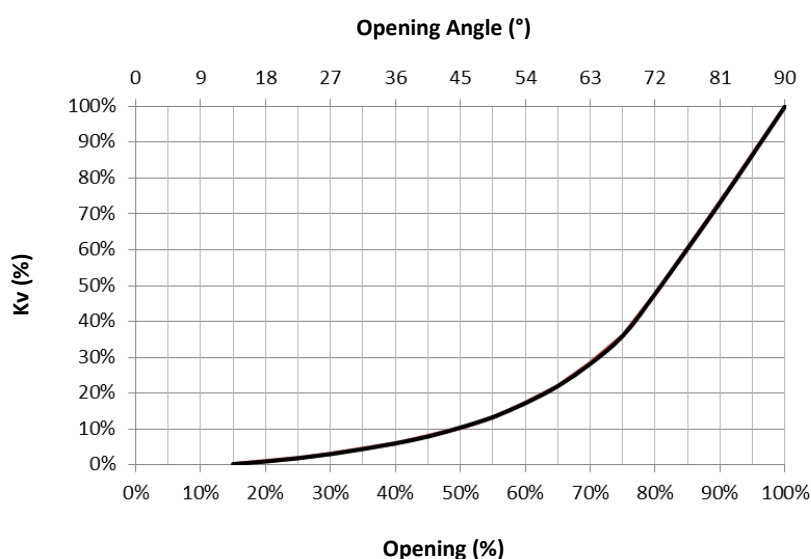
DN	Working Pressure					
	PVC-U / PVC-C			PP-H		
	Metric Socket	Threaded	Flanges	Metric Socket	Threaded	Flanges
15	16	10	16	10	10	10
20	16	10	16	10	10	10
25	16	10	16	10	10	10
32	16	10	16	10	10	10
40	16	10	16	10	10	10
50	16	10	16	10	10	10
65	10	10	10	7	7	7
80	10	10	10	7	7	7
100	10	10	10	7	7	7

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.

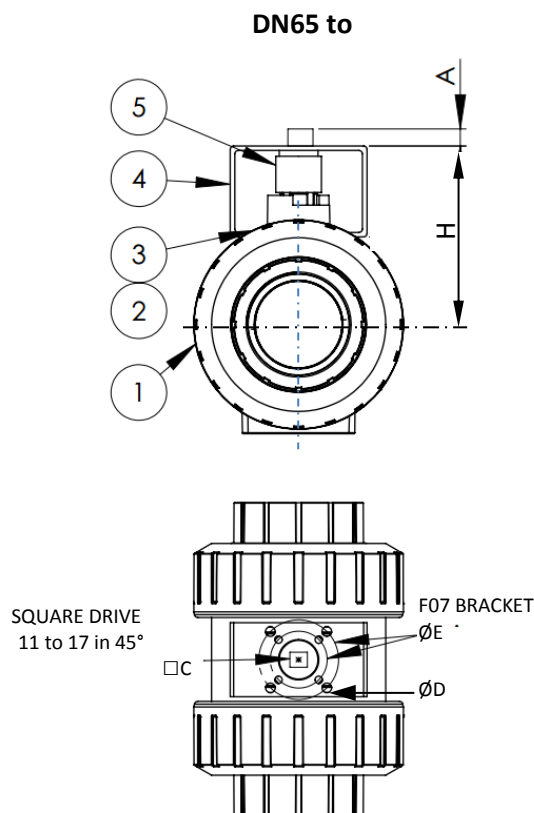
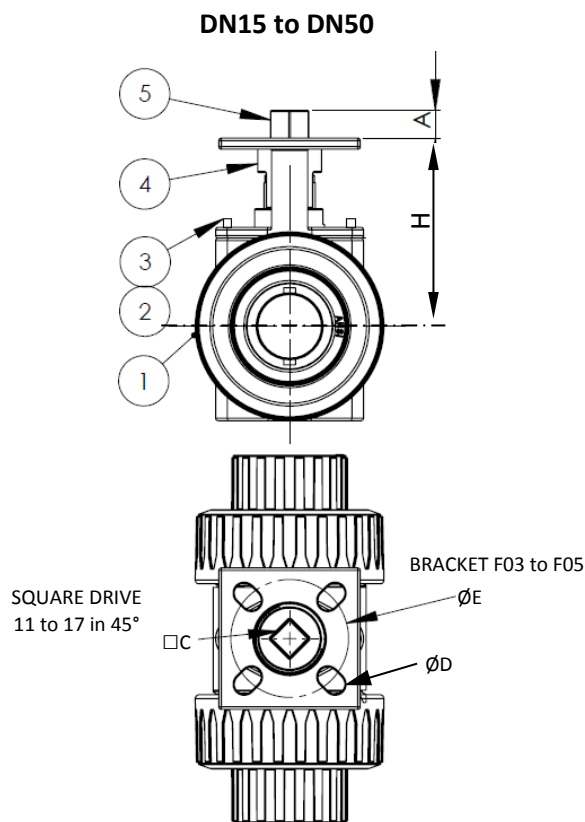
Please contact us to have a personalized analysis of the resistance of one of our products to a given fluid

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 DN15 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*
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
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
DN100	F07	22	KIT0072	

*SQ = Square drive 45°

Minimum operating torque required to actuate valve

MINIMUM REQUIRED TORQUE (Safety Coefficient x2 included)	
DN	PVC-U / PVC-C / PP-H
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	

OPTION: PNEUMATIC ACTUATION

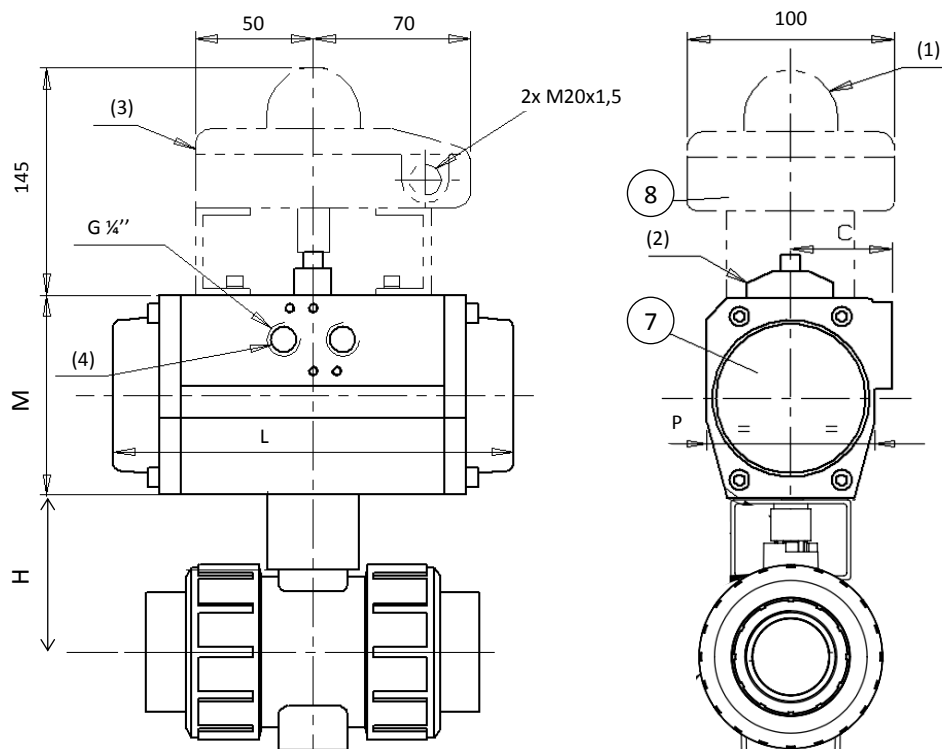


Diagram representing assemble on a DN50

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		
DN15 to DN25	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)			
DN32 to DN40	Double Acting (DA)	F04	11		51	160	90	70	1.19	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	14		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											

*DSS = Double Square Socket

ALUMINIUM Actuator

DN	ACTUATOR	ISO 5211 FIXINGS (CONNECTION/DSS*)		H	C	L	M	P	WEIGHT of Actuator in Kg	PRODUCT CODE	MATERIAL
DN15 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	2007-83C	
	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

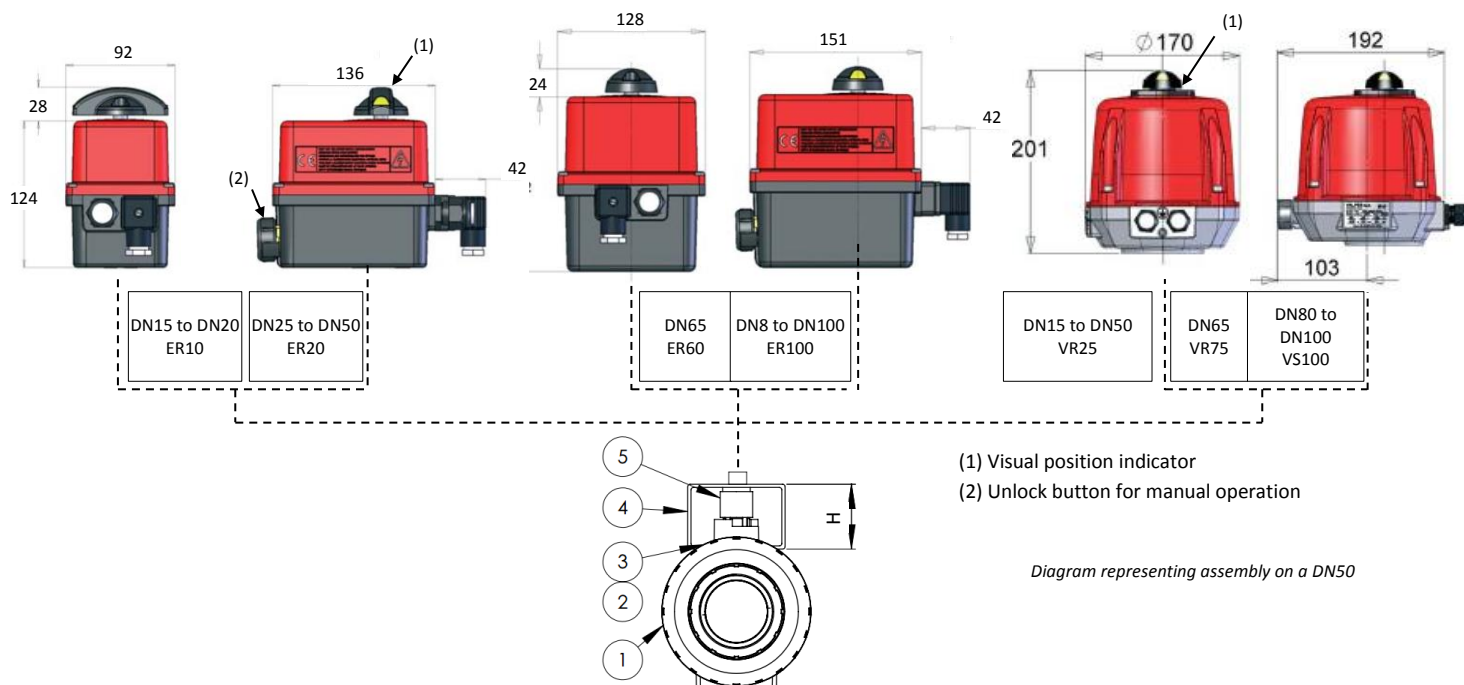
Find all the infoation concerning these actuators by consulting our TDS-ACTPN-0001 product sheet.

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 15 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

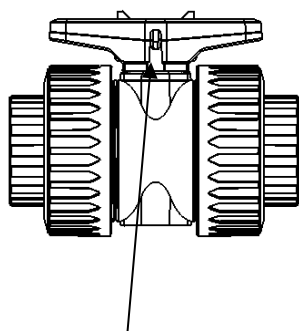
Find all the information concerning these actuators by consulting our TDS-ACTEL-0001 product sheet

Multiple Options Available: Contact Us for more information

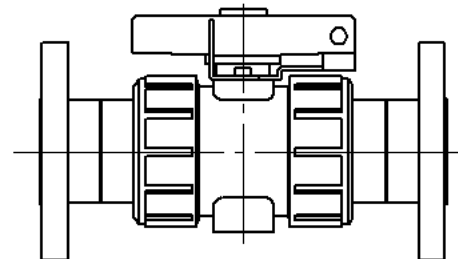
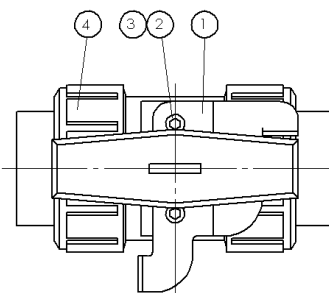
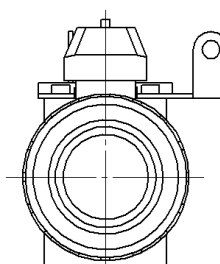
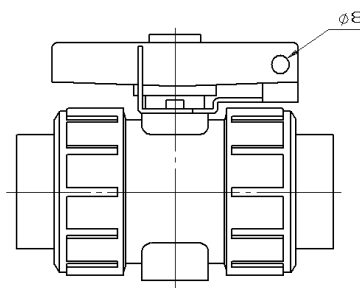
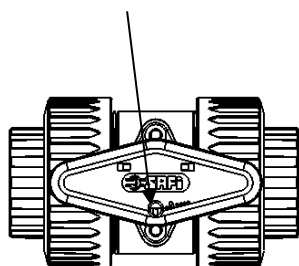
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OPTION: LOCKING SYSTEM



Handle with Locking system included



Locking system for DN15 to DN50

Locking system for DN65 to DN100

Handle with locking system included :
 Ø4 Padlock wire for DN15 to DN25
 Ø6 Padlock wire for DN32 to DN50

N°	QTY	DESCRIPTION	MATERIAL	DN65	DN80	DN100
1	1	LOCKING Plate*	SS 304	KIT7362	KIT7362	KIT7392
2	1	Washer	SS 316			
3	1	Screw TCHC	SS 316			
4	1	DN15 to DN100 2-way	PVC-U PVC-C PP-H	3101 Series 3111 Series 3150 Series		

*For a Padlock wire of Ø6

NOTE: Padlock not included

Contact us for a Locking plate in Stainless Steel 316

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 = PPH Ball Valve	- = Standard Ball Valve Z = Special Ball Valve	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-FITTING-0001 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-FITTING-0001 product sheet	E = EPDM V = FPM Z = FPM type SAFKM5

RTS = Robinet à Tournant Sphérique

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