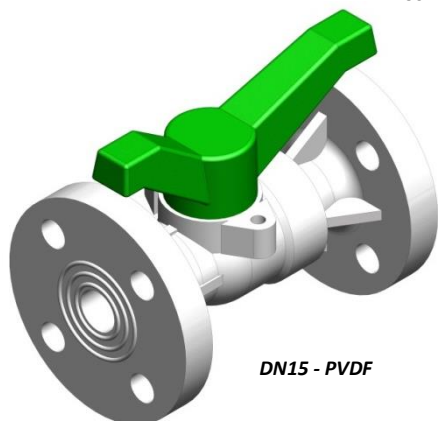


2 WAY - BALL VALVE - FLANGED COMPACT

DN15 (1/2") TO DN50 (2") IN PPGF, PVDF, PP- EL

DN40 (1 1/2") AND DN50 (2") IN PVC-U

Conform to the 2014/68/EU Directive



DN15 - PVDF



DN50 - PPGF

MAIN FEATURES

- Flanged compact ball valve, 2-piece construction limiting interfaces for an optimal sealing.
- Solid Flanges for an optimum resistance.
- Full Bore.
- Safety plate locking body and adjusting piece, avoiding any accidental adjustment and ensuring a perfect alignment of the flange holes.
- Color Handle and safety plate indicating type of Seals (Red = EPDM, Green = FPM, blue = FEP/FFPM)
- Inner Shape promoting flow and limiting retention zones.
- Moulded Sealing rings on Flanges. (Prevents the deformation of the Gasket).
- Protected Handle Stops.
- 2 lateral fixing points for valve installation or actuation
- Easy to actuate manual valve to desired control (Electric or Pneumatic) by removable handle.
- The PP-EL version is electro conductive due to a load of graphite (Electric Surface's Resistance inferior to 10^5 Ohm).

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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SAFI

Av. Jacques Moisson – BP 1
26770 TAULIGNAN
FRANCE
Tél.: (+33) 04 75 53 56 29
Fax : (+33) 04 75 53 62 78
info@safi-valves.com

SAFI Limited

35 Holton Road
Holton Heath Trading Park
POOLE Dorset - BH16 6LT
UNITED KINGDOM
Tél.: (+44) 1202 624618
Fax : (+44) 1202 628500
sales@safi-valves.com

SAFI Deutschland

Kunststoffarmaturen
Vertriebs GmbH
Jahnstrasse 29
64319 PFUNGSTADT
DEUTSCHLAND
Tél. : (+49) 61 57 81 919
Fax : (+49) 61 57 82 025
info-deutschland@safi-valves.com

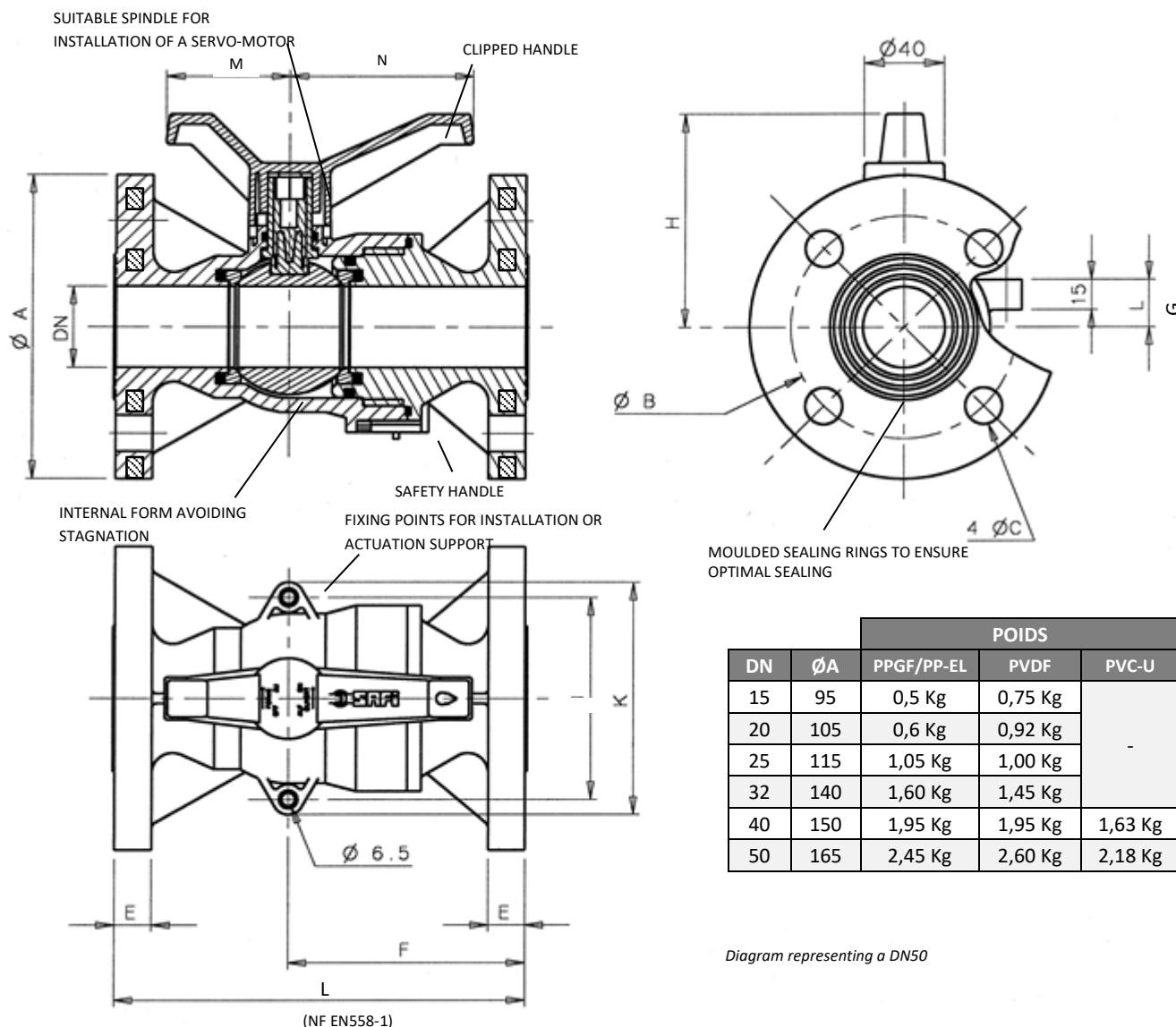
SAFI Fábrica de Válvulas

C/ Carboners, 35
Pol. Ind. La Cometa
43700 EL VENDRELL
TARRAGONA-ESPAÑA
Tél.: (+34) 977 665 147
Fax : (+34) 977 664 989
info@safi-valvulas.com

SAFI América

Las Garzas Trade Center
Las Garzas #950, Galpon A
Quilicura
SANTIAGO – CHILE
Tfno.: (+56) 2 2510 3500
info@safi-america.com

DIMENSIONS

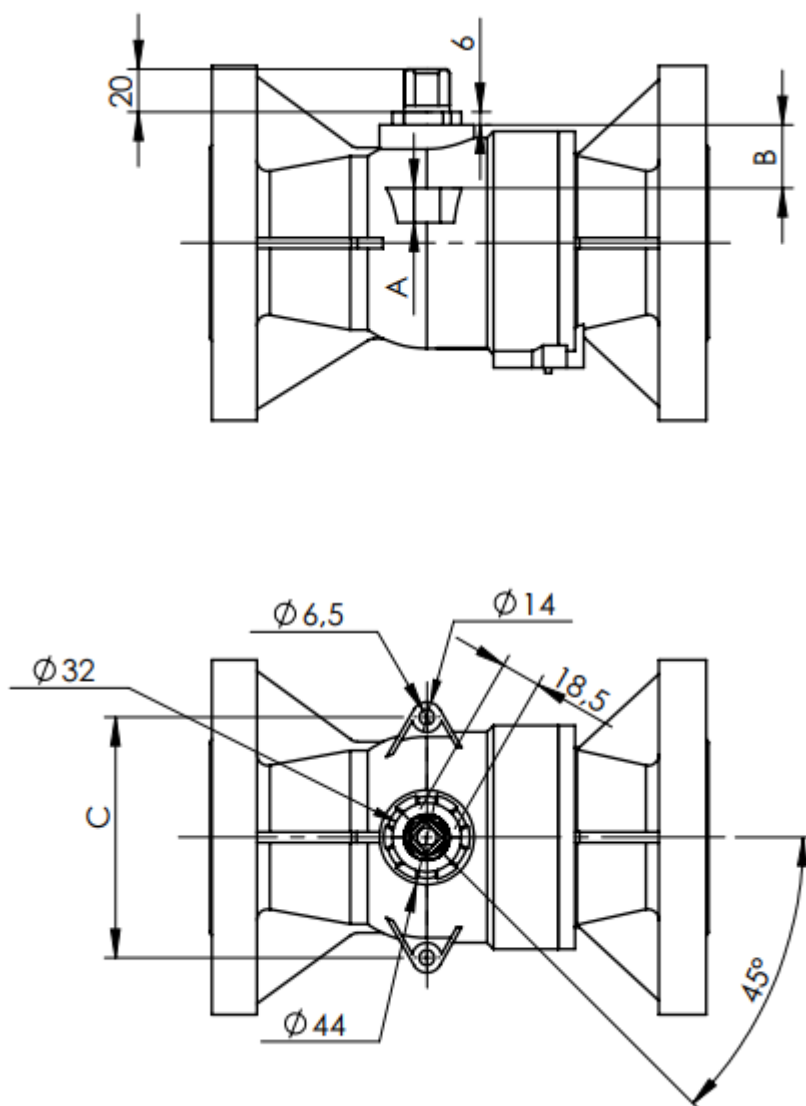


DN	ØA	POIDS		
		PPGF/PP-EL	PVDF	PVC-U
15	95	0,5 Kg	0,75 Kg	-
20	105	0,6 Kg	0,92 Kg	
25	115	1,05 Kg	1,00 Kg	
32	140	1,60 Kg	1,45 Kg	
40	150	1,95 Kg	1,95 Kg	1,63 Kg
50	165	2,45 Kg	2,60 Kg	2,18 Kg

Diagram representing a DN50

		ØB			ØC								PPGF / PP-EL/PVC-U		PVDF				
DN	ØA	DIN	ANSI	BS	DIN	ANSI	BS	E	F	G	H	J	K	J	K	L	M	N	
15	95	65	60	66,7	14	16	14	14	73	6	75	57	70	56	69	130	57	73	
20	105	75	70	73	14	16	14	16	83	6	75	57	70	56	69	150	57	73	
25	115	85	79,5	82	14	16	14	16	90	12,5	95	73	87	72	85,8	160	60	90	
32	140	100	89	87,3	18	16	14	18	106,5	16,5	99	90	104	88,5	103	180	60	90	
40	150	110	98,4	98,4	18	16	14	18	116	23,5	106	100	115	98,5	113,5	200	60	90	
50	165	125	120,6	114,3	18	19	18	20	131	28,5	111	112	127	110,5	125	230	60	90	

DIN = Drilling in accordance with EN 1092-1 PN10/PN - ANSI = Drilling in accordance with EN1759-1/ASME B16.5 Class 150 - BS = Drilling in accordance with BS10-Table D



DN	A	B	C
25	15	26	73
32	15	26	90
40	15	26	100
50	15	26	112

PARTS LIST

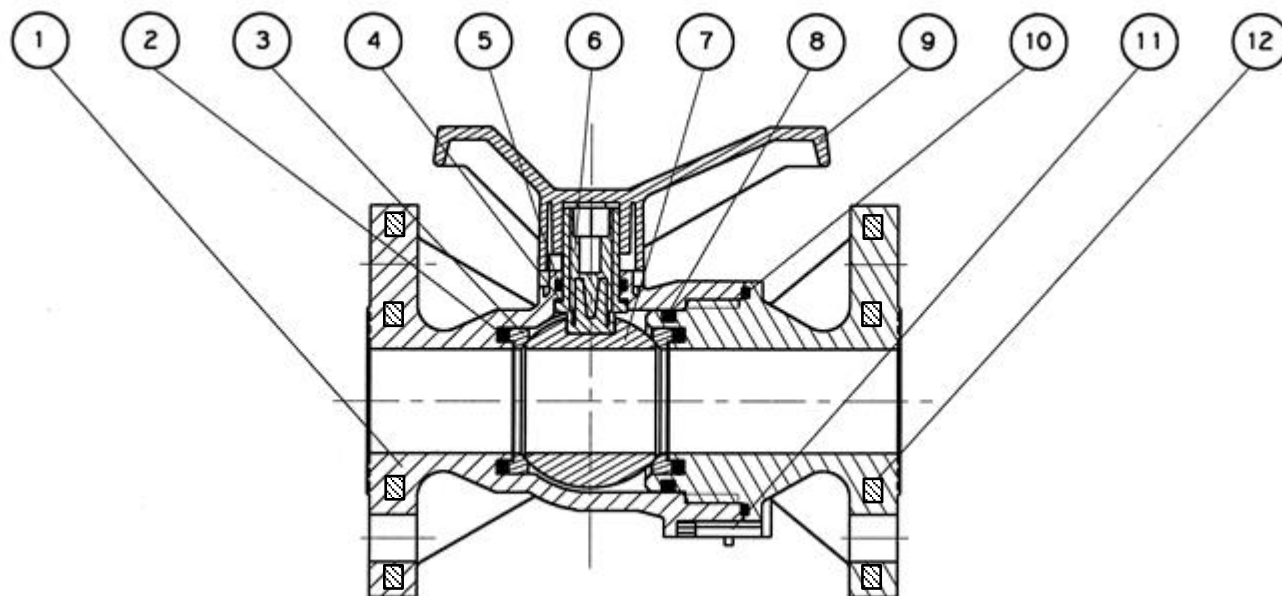


Diagram representing a DN50

N°	DESCRIPTION	With EPDM seals		With FPM seals		With FEP-FFPM seals Type « FFP » (FEP under seat + FFPM on spindle + FEP & FPM on adjusting end)		With FEP-FFPM seals Type « FFPP » (FEP under seat + FFPM on spindle + FEP on adjusting end)	
		PPGF, PVDF, PP-EL, PVC-U		PPGF, PVDF, PP-EL, PVC-U		PPGF, PVDF, PP-EL		PPGF, PVDF, PP-EL	
		Material	Qty	Material	Qty	Material	Qty	Material	Qty
1	FLANGED MAIN BODY (with metal insert)	PPGF, PP-EL	1	PPGF, PP-EL	1	PPGF, PP-EL	1	PPGF, PP-EL	1
	FLANGED MAIN BODY (without metal insert)	PVDF, PVC-U		PVDF, PVC-U		PVDF		PVDF	
2*	SEAT O-RING	EPDM	2	FPM**	2	FEP	2	FEP	2
3*	SEAT	PTFE	2	PTFE	2	PTFE	2	PTFE	2
4*	FRICTION WASHER	PTFE	1	PTFE	1	PTFE	1	PTFE	1
5*	SPINDLE O-RING***	EPDM	1	FPM**	1	FFPM	1	FFPM	1
6*	SPINDLE	PPGF, PVDF, PP-EL, PVC-U	1	PPGF, PVDF, PP-EL, PVC-U	1	PPGF, PVDF, PP-EL	1	PPGF, PVDF, PP-EL	1
7*	BALL	PP-H, PP-EL, PVDF, PVC-U	1	PP-H, PP-EL, PVDF, PVC-U	1	PP-H, PP-EL, PVDF	1	PP-H, PP-EL, PVDF	1
8*	MAIN BODY O-RING	EPDM	1	FPM**	1	FPM**	1	-	-
9	HANDLE	PPGF (Red)	1	PPGF (Green)	1	PPGF (Blue)	1	PPGF (Blue)	1
10*	O-RING	-	-	-	-	FEP	1	FEP	1
11	SAFETY PLATE	PPGF (Red)	1	PPGF (Green)	1	PPGF (Blue)	1	PPGF (Blue)	1
12	FLANGED SECONDARY BODY (with metal insert)	PPGF, PP-EL	1	PPGF, PP-EL	1	PPGF, PP-EL	1	PPGF, PP-EL	1
	FLANGED SECONDARY BODY (without metal insert)	PVDF, PVC-U		PVDF, PVC-U		PVDF		PVDF	

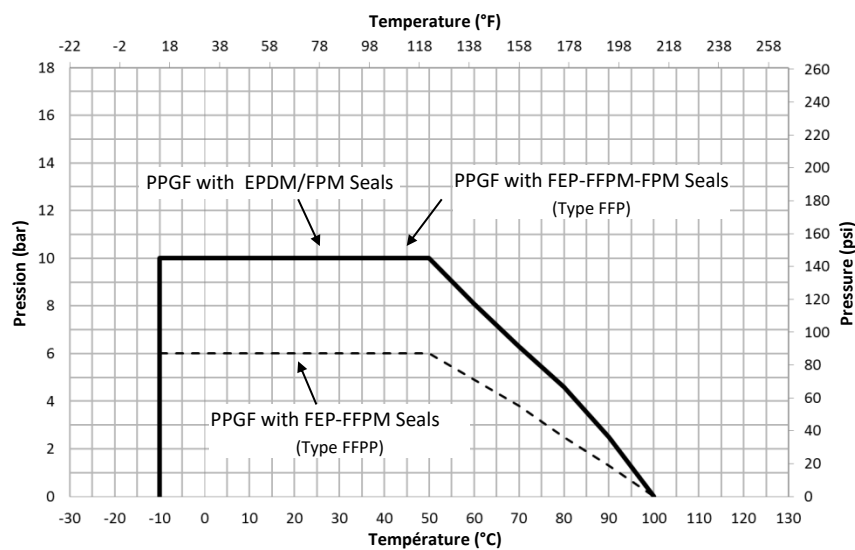
(*) Spare parts (**) FPM type SAFKM5 (***) 2x spindle o-ring for DN15 to DN20 and 1x spindle o-ring for DN25 to DN50

DIN = Drilling in accordance with EN 1092-1 PN10/PN16 ANSI = Drilling in accordance with EN1759-1/ASME B16.5 Class 150

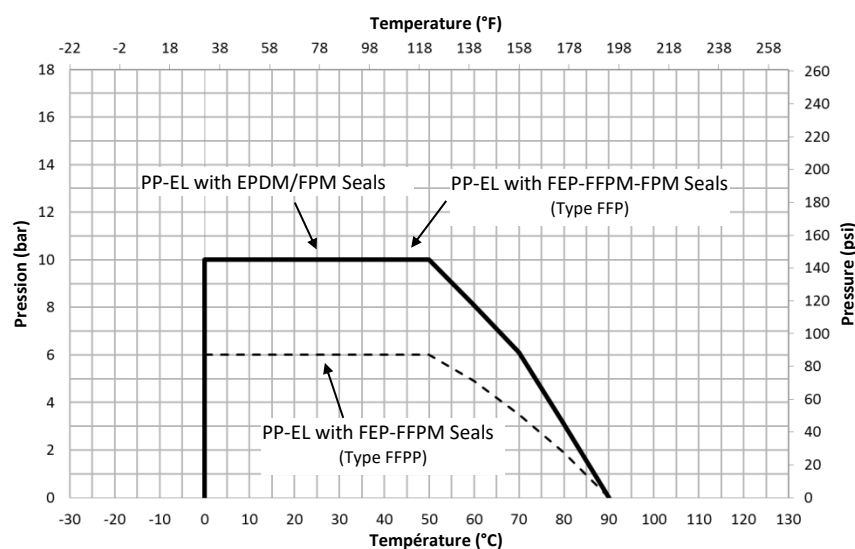
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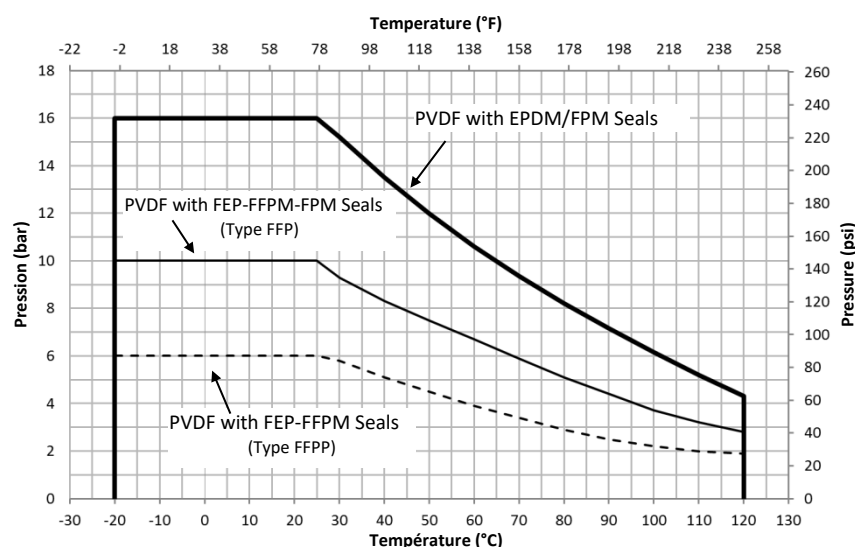
PRESSURE/ TEMPERATURE CURVES



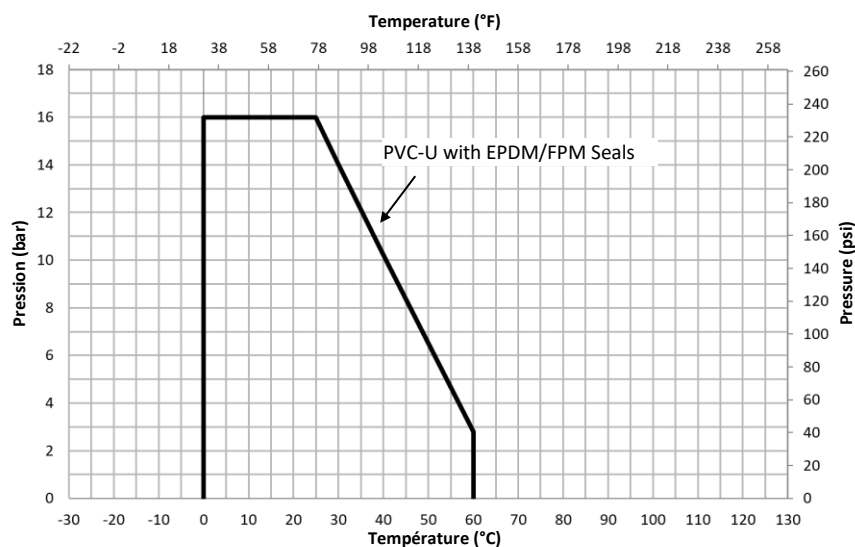
PPGF



PP-EL



PVDF



PVC-U
(DN40 and DN50 only)

Pressure/Temperature Summary

Type of Seals	Working Pressure	Working Temperature	
		PPGF	PP-EL
EPDM	10 bars at 20°C	- 10°C to +100°C	0°C to +90°C
FPM	10 bars at 20°C	- 10°C to +100°C	0°C to +90°C
FEP-FFPM-FPM - Type « FFP » (FEP under seats+ FFPM on spindle + FEP & FPM on adjusting end)	10 bars at 20°C	- 10°C to +100°C	0°C to +90°C
FEP-FFPM - Type « FFPP » (FEP under seats + FFPM on spindle + FEP on adjusting end)	6 bars at 20°C	- 10°C to +100°C	0°C to +90°C

Type of Seal	Working Pressure	Working Temperature	
		PVDF	PVC-U
EPDM	16 bars at 20°C	- 20°C to +120°C	0°C à +60°C
FPM	16 bars at 20°C	- 20°C to +120°C	0°C à +60°C
FEP-FFPM-FPM - Type « FFP » (FEP under seats + FFPM on spindle + FEP & FPM on adjusting end)	10 bars at 20°C	- 20°C to +120°C	Consult us
FEP-FFPM - Type « FFPP » (FEP under seats + FFPM on spindle + FEP on adjusting end)	6 bars at 20°C	- 20°C to +120°C	Consult us

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.

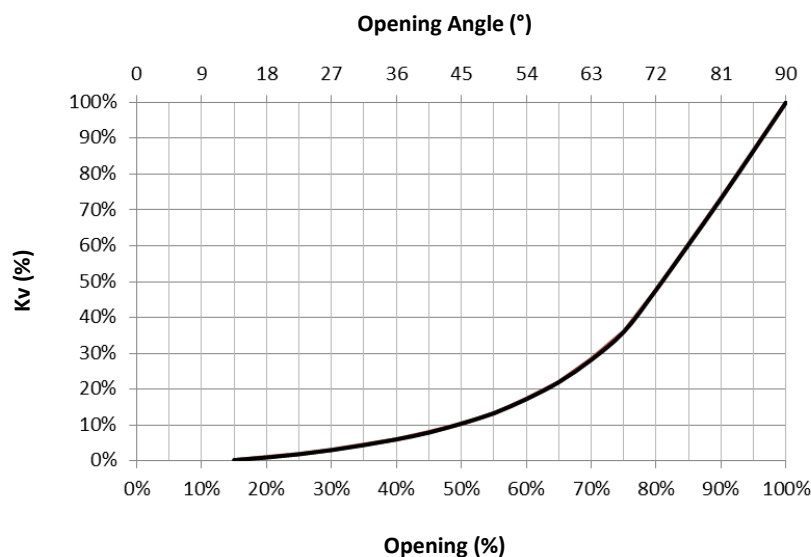
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PRESSURE LOSS

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

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.



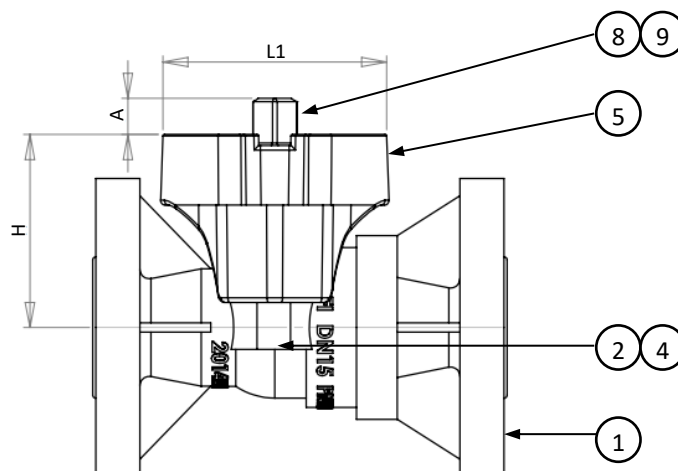
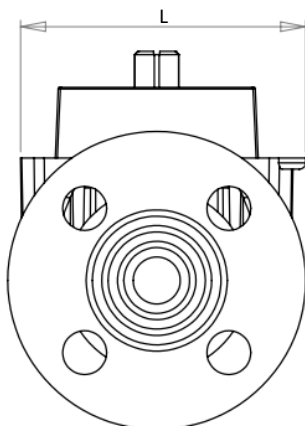
CHEMICAL RESISTANCE

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

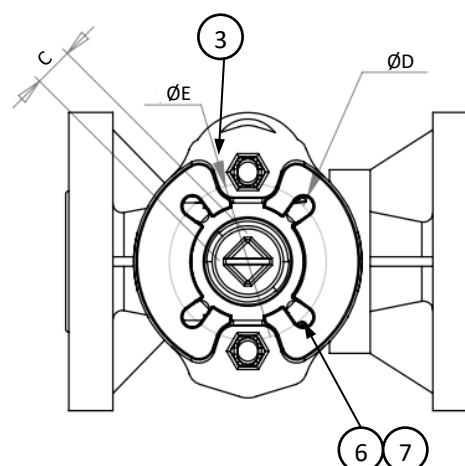
You can also consult, for information only, the table given in ISO 10358. However, this table cannot be considered as a recommendation by SAFI who could not be held liable for the use of this document.

OPTION: MOUNTING KIT (ISO 5211)



N°	QTY	DESCRIPTION	MATERIAL
1	1	2-Way Ball Valve DN15 to DN50	PPGF, PVDF, PP-EL, PVC-U
2	2	Screw TCHC 6x50	SS 316
3	2	Nut HU6 nylock	SS 316
4	2	Washer MU6x14	SS 316
5	1	Bracket F04/F05/F07 Fixings	PPGF
6	4	Screw TCHC M5x25 for a F04 Fixing	SS 316
		Screw TCHC M6x25 for a F05 Fixing	
		Screw TCHC M8x25 for a F07 Fixing	
7	4	Washer MU5x12 for a F04 Fixing	SS 316
		Washer MU6x14 for a F05 Fixing	
		Washer MU8x16 for a F07 Fixing	
8	1	Drive MS14 ou MS17	SS 316
9	1	Adapter FS14/MS17	SS 316
		Adapter FS14/Male Star of 22	

Diagramm 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	17	69	114	91	11, 14, 17 or 22	Ø5	Ø42	11, 14, 17 or 22	Ø6	Ø50	11, 14, 17 or 22	Ø8	Ø70
32	17	73	114	91	11, 14, 17 or 22	Ø5	Ø42	11, 14, 17 or 22	Ø6	Ø50	11, 14, 17 or 22	Ø8	Ø70
40	17	80	132	91	11, 14, 17 or 22	Ø5	Ø42	11, 14, 17 or 22	Ø6	Ø50	11, 14, 17 or 22	Ø8	Ø70
50	17	84	132	91	11, 14, 17 or 22	Ø5	Ø42	14, 17 or 22	Ø6	Ø50	11, 14, 17 or 22	Ø8	Ø70

Other Dimensions: On Request

*According to

** Multistandard bracket

PVC-U versions : only DN40 and DN50

Available Kits

DN	ISO 5211 FIXINGS (CONNECTION/SQ* 45°)		WEIGHT OF KIT	PRODUCT CODE
DN15-20	F04/F05	11	0,228 Kg	KIT0130
	F04/F05	14	0,235 Kg	KIT0131
	F04/F05	17	0,244 Kg	KIT0132
DN25-32	F04/F05/F07	11	0,287 Kg	KIT0171
	F04/F05/F07	14	0,350 Kg	KIT0133
	F04/F05/F07	17	0,359 Kg	KIT0134
	F04/F05/F07	22**	0,399 Kg	KIT0135
DN40-50	F04/F05/F07	11	0,288 Kg	KIT0172
	F04/F05/F07	14	0,351 Kg	KIT0136
	F04/F05/F07	17	0,360 Kg	KIT0137
	F04/F05/F07	22**	0,400 Kg	KIT0138

*SQ = Square Drive 45°

**DSQ = Double Square Drive

PVC-U versions : only DN40 and DN50

Valve torque for actuation

DN	VALVE TORQUE FOR ACTUATION	
	PPGF/PP-EL/PVC-U	PVDF
DN15	10 N.m	8 N.m
DN20		
DN25	10 N.m	10 N.m
DN32		
DN40		
DN50	14 N.m	16 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

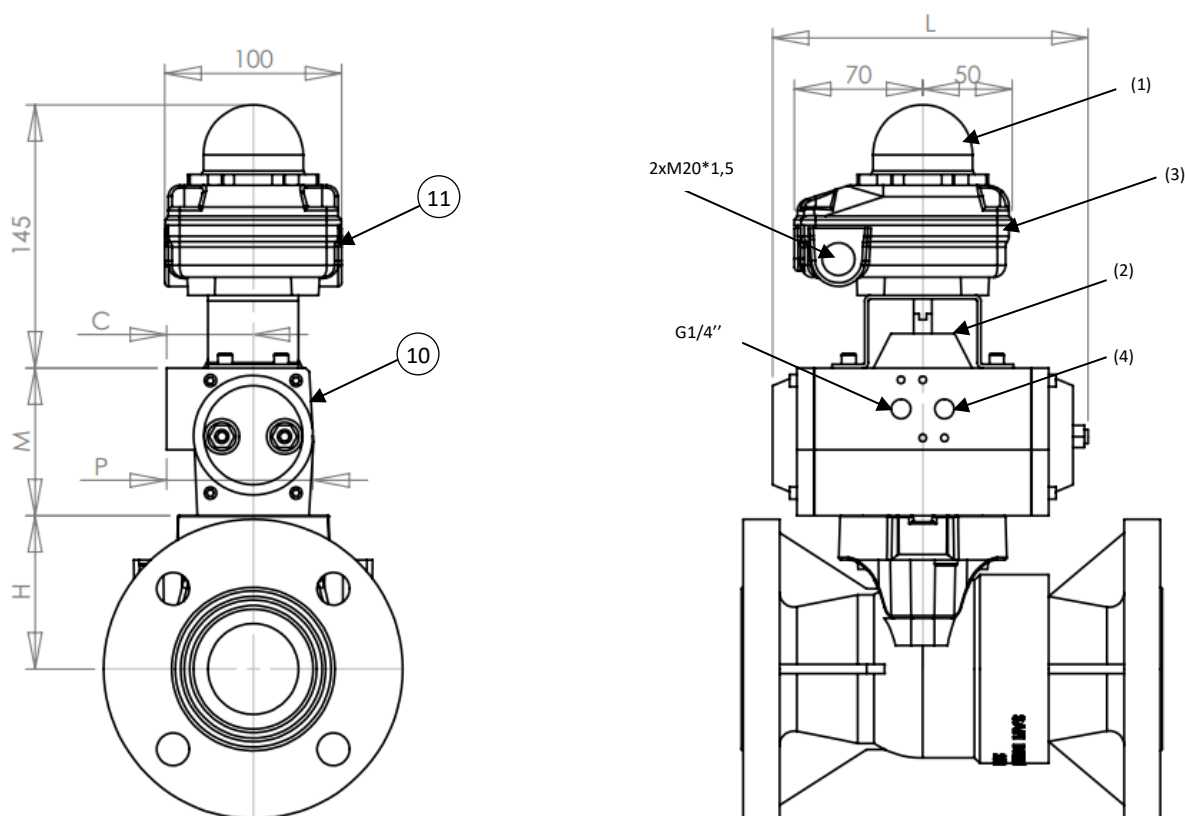


Diagram representing assembly on a DN50

Item	QTY	DESCRIPTION	MATERIAL
10	1	Actuator Double Acting or Fail Safe	Polyamide or Aluminium or Stainless Steel
11	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
DN15-20 in PPGF or PVDF	Double Acting (DA)	F04	11	See dimensions for each DN on page 6	41	119	70	67	0,57	2007-73A	Actuator in Polyamide
	Fail Safe	F05	14		51	160	90	86	1,39	2007-73M (NC) 2007-75M (NO)	
DN25 to 40 in PPGF, PVC-U (DN40) or DN25 to 40 in PVDF	Double Acting (DA)	F05	14		41	119	70	67	0,57	2007-73A	
	Fail Safe	F05	14		51	160	90	86	1,39	2007-73M (NC) 2007-75M (NO)	
DN50 in PPGF, PVC-U and PVDF	Double Acting (DA)	F05	14		51	160	90	70	1,19	2007-73B	
	Single Acting (SA)	F07	17		66	175	111,5	101	2,34	2007-73N (NC) 2007-75N (NO)	

*DSS = Double Square Socket

(Actuator model for a recommended air supply of 5.6 Bars)

ALUMINIUM Actuator

DN	ACTUATOR	ISO 5211 FIXINGS (CONNECTION/DSS*)		H	C	L	M	P	WEIGHT of Actuator in Kg	PRODUCT CODE	MATERIAL
DN15-20 in PPGF or PVDF	Double Acting (DA)	F04	11	See dimensions for each DN on page 6	40	119	71	67	0,91	2007-83A	Actuator in Aluminium
	Fail Safe	F05	14		47	175	81	81	1,69	2007-84C (NC) 2007-85C (NO)	
DN25 to 40 in PPGF, PVC-U (DN40) or DN25 to 40 in PVDF	Double Acting (DA)	F04	14		47	175	81	81	1,5	2007-83A	
	Fail Safe	F05	14		47	175	81	81	1,69	2007-84C (NC) 2007-85C (NO)	
DN50 in PPGF, PVC-U and PVDF	Double Acting (DA)	F05	14		47	175	81	81	1,5	2007-83C	
	Fail Safe	F05	17		54	186	98	96	2,53	2007-84D (NC) 2007-85D (NO)	

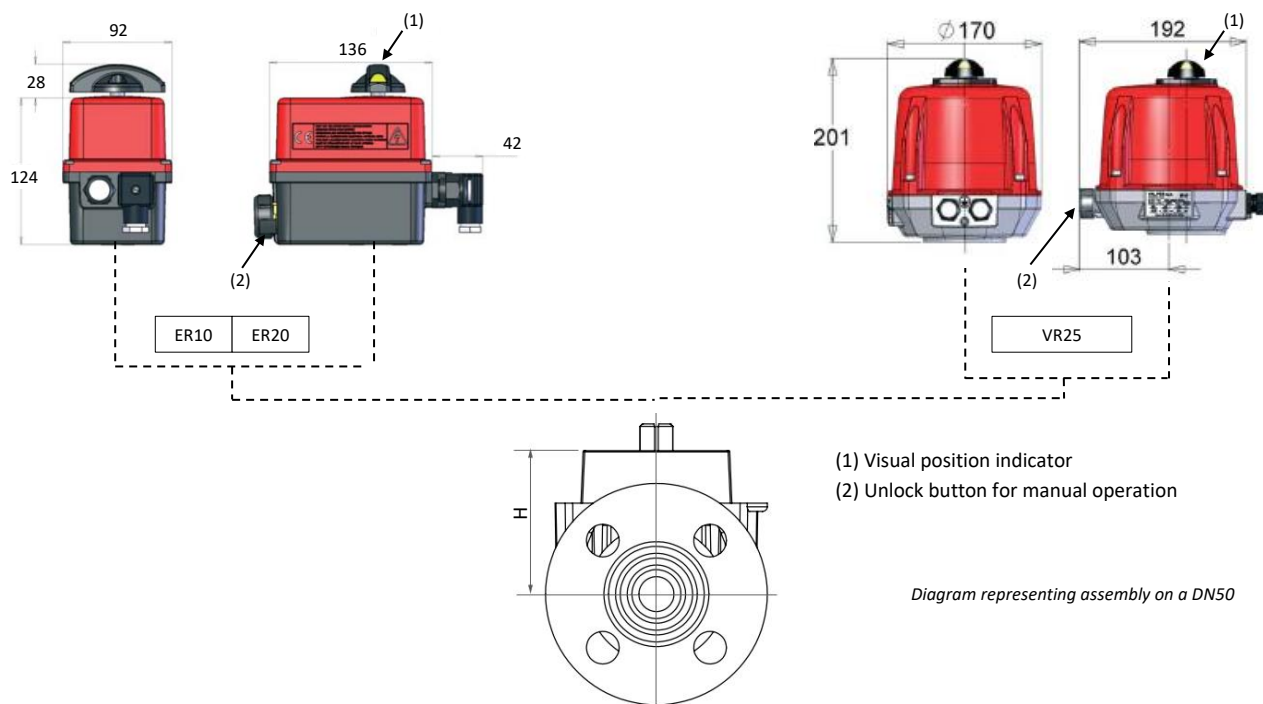
*DSS = Double Square Socket

(Actuator model for a recommended air supply of 5.6 Bars)

NC= Normally Closed – NO = Normally Open

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

OPTION: ELECTRIC ACTUATION

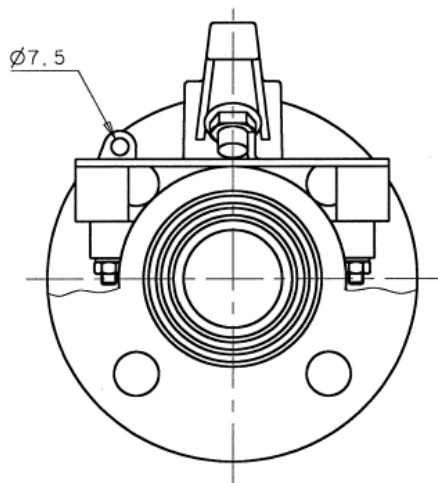


DN	MODEL	ISO 5211 FIXINGS (CONNECTION/DSS*)		H	WEIGHT KG	PRODUCT CODE	MATERIAL	ROTATION 90°
DN 15 to 40 in PPGF, PVDF, PVC-U (DN40)	ER10 (15-30V AC 12-48VDC)	F03-F04 F05	EF14	See dimensions for each DN on page 6	1 à 1,2	2907-39B	PA6	12s
	ER10 (90-240V AC 90-350VDC)	F03-F04 F05	EF14		1 à 1,2	2907-39A	PA6	12s
	VR25 (400V three phase)	F05-F07	EF17		3,1 à 3,5	2907-50I	Alu + PA6	7s
DN 50 in PPGF, PVDF, PVC-U	ER20 (15-30V AC 12-48VDC)	F05	EF14		1 à 1,2	2907-40A	PA6	12s
	ER20 (90-240V AC 90-350VDC)	F05	EF14		1 à 1,2	2907-40C	PA6	12s
	VR25 (400V three phase)	F05-F07	EF17		3,1 à 3,5	2907-50I	Alu + PA6	7s

*DSS = Double Square Socket

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

OPTION: LOCKING SYSTEM



N°	QTY	DESCRIPTION	MATERIAL
1	2	NUT M6	SS 316
2	2	WASHER M6	SS 316
3	2	SCREW M6x25	SS 316
4	1	LOCKING PLATE DN15 to 50	SS 304+Epoxy
5	1	NUT M12	SS 316
6	1	WASHER M12	SS 316
7	1	SCREW M12x40	SS 316
8	1	DRILLED HANDLE	PPGF

Option : Stainless Steel 316 – Consult Us

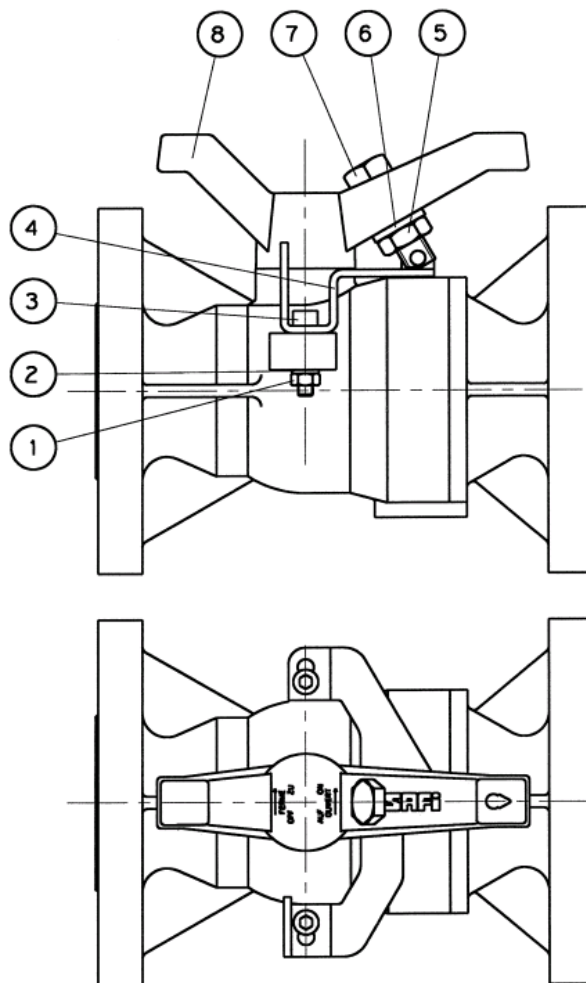


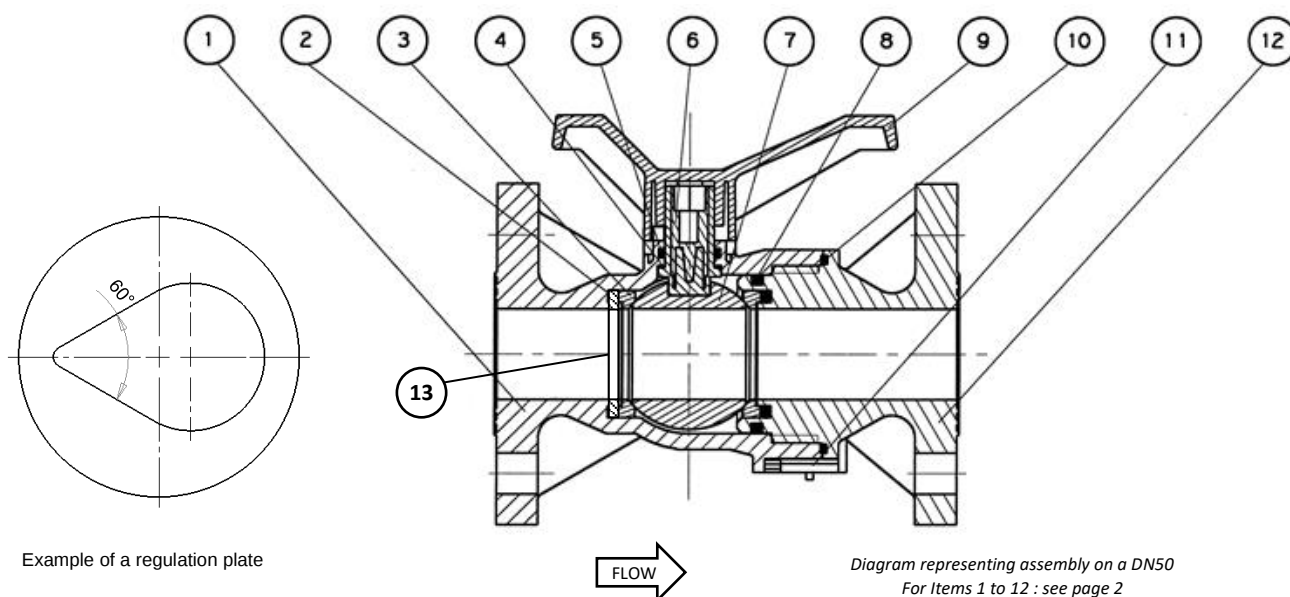
Diagram representing assembly on a DN50

Assembly:

- 1) Locking plate # 4 is mounted on the 2-way SAFI compact valves. It can be added later if necessary.
- 2) Assembly is done with a 10mm open-end wrench and a 5mm hex key. A hole (Ø7) must be drilled in the handle. The Locking system does not include padlock.

DESCRIPTION	PRODUCT CODE		
	Ball Valve DN15-20	Ball Valve DN25-32	Ball Valve DN40-50
Locking System with RED handle (Red = Ball Valve with EPDM seals)	1102-06RTR	1102-06STR	1102-06UTR
Locking System with GREEN handle (Green= Ball Valve with FPM seals)	1102-06RTV	1102-06STV	1102-06UTV
Locking System with BLUE handle (Blue = Ball Valve with FEP/FFPM seals)	1102-06RTB	1102-06STB	1102-06UTB
Locking System with BLACK handle (Black = Ball Valve in PP AS regardless of the type of seals)	1102-06RTN	1102-06STN	1102-06UTN

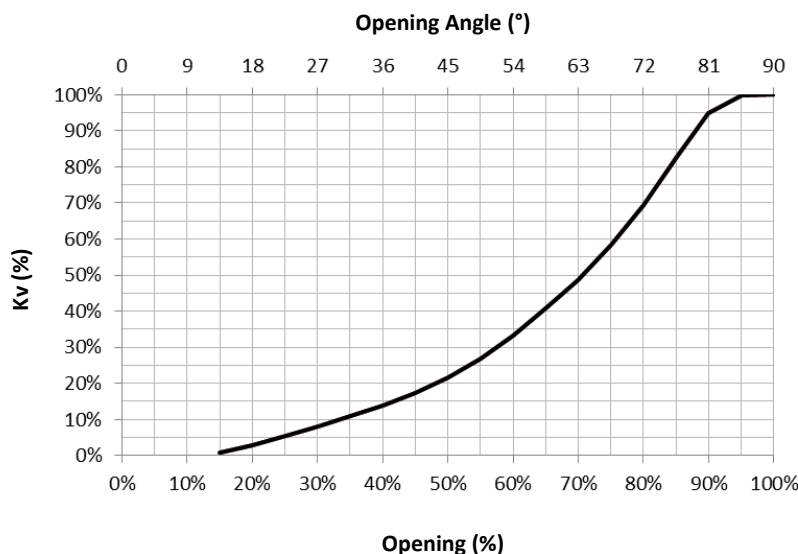
OPTION: FLOW REGULATION PLATE



N°	DESCRIPTION	MATERIAL	QUANTITY
13	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 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
2014 = Compact PPGF 2029 = Compact PVDF 2091 = Compact PP-EL	- = Standard Ball Valve O = With Regulation Plate Z = Special Ball Valve	00 = DN15 01 = DN20 02 = DN25 03 = DN32 04 = DN40 05 = DN50	F = Flanges with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) G = Flanges with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI)	F = Flanges with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) G = Flanges with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI)	A = EPDM Food Grade E = EPDM V = FPM SAFKM5 for PPGF Z = FPM SAFKM5 for PVDF <u>Only for PPGF, PVDF, PP-EL :</u> P = FEP under seats + FFPM on spindle + FEP & FPM on adjusting end PP = FEP under seats + FFPM on spindle + FEP on adjusting end
2059 = Compact PVC-U	- = Standard Ball Valve O = With Regulation Plate Z = Special Ball Valve	04 = DN40 05 = DN50	F = Flanges with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) G = Flanges with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI)	F = Flanges with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) G = Flanges with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI)	A = EPDM Food Grade V = FPM SAFKM5

Example: 2029-05FFZ

2029	-	05	F	F	Z
Compact Ball Valve PVDF	Standard Ball Valve	DN50	Flange with drilling in accordance with EN 1092-1 PN10/PN16 (DIN)	Flange with drilling in accordance with EN 1092-1 PN10/PN16 (DIN)	FPM

Example: Ball Valve + Pneumatic ACTUATOR: 2014-00FFE + KIT0136 + 2007-73M

2014-05FFE	+	KIT0136	+	2007-73M
PPGF Compact Ball Valve STANDARD DN50 With Flanges drilling in accordance with EN1092-1 PN10/PN16 (DIN) EPDM Seals	+	MOUNTING KIT for a Single Acting Actuator	+	Pneumatic Actuator in Polyamide Single Acting(SA) Normally Closed (NC)

Example: Ball Valve DN50 PVDF + REGULATION PLATE + LOCKING SYSTEM: 2029O05FFZ + 1102-06UTV

2029O05FFZ	+	1102-06UTV
PVDF Compact Ball Valve Regulation Plate DN50 With Flanges drilling in accordance with EN1092-1 PN10/PN16 (DIN) FPM Seals	+	LOCKING SYSTEM for a DN40/50 Green Handle