CEPEX®

EXTREME SERIES

TECHNICAL CATALOGUE

Version: 1.0 - 01/2018

Valve range EXTREME SERIES | *Gama de válvulas EXTREME SERIES*

New product line oriented industrial sector (chemical processing, water treatment, cooling power plants, etc.) with excellent quality, personalized service and help customer projects.

We use our over 35 years of experience to create an industrial range of maximum demand.

Nueva línea de productos orientados al sector industrial (procesos químicos, tratamientos de agua, refrigeración de centrales energéticas, etc) con una excelente calidad, servicio personalizado y ayuda en los proyectos del cliente.

Usamos nuestros más de 35 años de experiencia para crear una gama industrial de máxima exigencia.

ÍNDEX *ÍNDEX*

BALL VALVES
VÁLVULAS DE BOLA

MATERIAL	PAG
PVC-U	16
CPVC	20
PP-H	24
PVDF	28
ABS	32

Página *Page* 04

ACTUATED BALL VALVES
VÁLVULAS DE BOLA ACTUADAS

MATERIAL	PAG
PVC-U	44
CPVC	48
PP-H	52
PVDF	56
ABS	60

Página *Page* 34

DIAPHRAGM VALVES
VÁLVULAS DE DIAFRAGMA

MATERIAL	PAG
PVC-U	72
CPVC	74
PP-H	76
PVDF	-
ABS	-

Página *Page* 62

BUTTERFLY VALVES
VÁLVULAS DE MARIPOSA

MATERIAL	PAG
PVC-U	90
CPVC	92
PP-H	94
PVDF	96
ABS	98

Página *Page* 78

ACTUATED BUTTERFLY VALVES
VÁLVULAS DE MARIPOSA ACTUADAS

MATERIAL	PAG
PVC-U	110
CPVC	111
PP-H	112
PVDF	113
ABS	114

Página *Page* 100

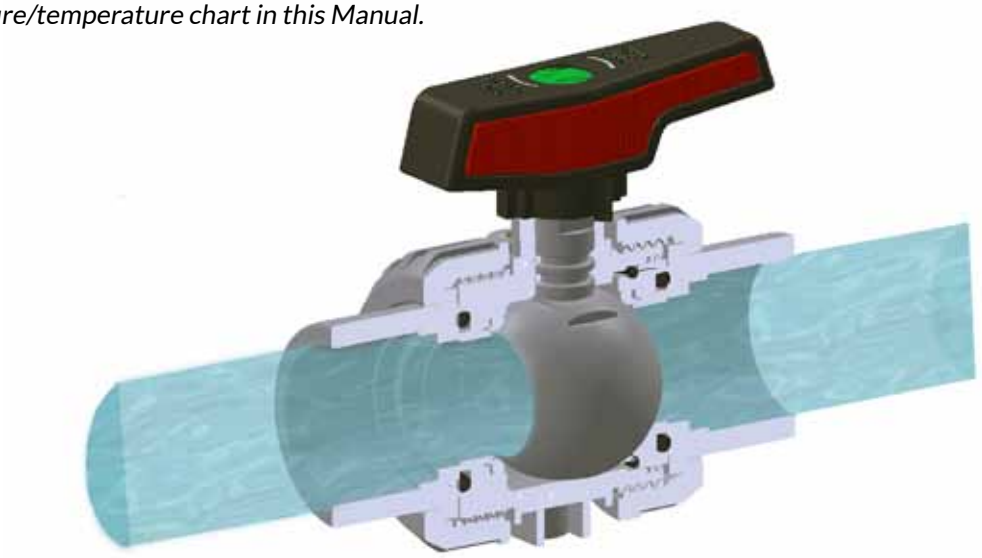
EXTREME SERIES

BALL VALVES
EXTREME SERIES
VÁLVULAS DE BOLA
SERIE EXTREME

INTRODUCTION
INTRODUCCIÓN

■ *Ball valve for isolating the flow in liquid handling systems.*
■ *Design based on the EN ISO 16135:2007 Standard in accordance with the 97/23/EC Directive.*
■ *The valve is available with PVC-U, CPVC, PPH, PVDF and ABS bodies and EPDM and FPM (FKM) sealing gaskets.*
■ *The choice of material for the body and gaskets depends on the type of liquid to be carried and on the working temperature of the liquid, in accordance with the chemical resistance tables available on our website and the pressure/temperature chart in this Manual.*

■ *Válvula de bola para aislar un líquido en un sistema de conducción de fluidos.*
■ *Diseño basado en la Norma EN ISO 16135:2007 de acuerdo con la Directiva 97/23/EC.*
■ *La válvula está disponible con cuerpos de PVC-U, CPVC, PPH, PVDF y ABS, y juntas de EPDM y FPM (FKM).*
■ *La elección del material del cuerpo y de las juntas depende del tipo de líquido a transportar y de la temperatura de trabajo del líquido, de acuerdo con las tablas de resistencia química disponibles en nuestra web y del diagrama de presión/temperatura de este manual.*



Advantages
Ventajas

■ Valves specially designed for the opening/closing of the fluid pass in any fluid handling installation with moderate diameter.
■ It offers a full bore to the transported fluid respect the sense of the pipe.
■ When they are closed, they stop the pass of the fluid in both senses. Althought it is recommendable to install it in the fluid sense indicated in the body.
■ The change in the fluid flow is not proportional to the movement of the handle, a small turn may vary the flow a lot, so it is not recommendable their use to control the flow.
■ Valve with a qurter turn of the handle (90º).
■ Possibility of manual, electrical or pneumatical actuation.
■ They offer a perfect water tightness (internally and externally).
■ They offer a perfect corrosion resistance as they are manufactured completely in technical plastics.

■ *Vávulas concebidas para la apertura/cierre del paso de fluido en cualquier instalación de conducción con tubería de diámetro moderado.*
■ *Ofrecen un paso total al líquido transportado respecto al diámetro de la tubería.*
■ *Cerradas, detienen el flujo en ambos sentidos. Aunque es recomendable instalar la válvula en el sentido del flujo indicado en la misma.*
■ *El cambio en el caudal no es proporcional al movimiento de la maneta, un giro pequeño puede alterar mucho el flujo, así que no es recomendable su uso para aplicaciones de control.*
■ *Válvula con un cuarto de giro de la maneta (90º).*
■ *Posibilidad de actuación manual, con actuador eléctrico o con actuador neumático.*
■ *Presentan una estanqueidad perfecta (a nivel interno y externo).*
■ *Ofrecen una perfecta resistencia a la corrosión al estar fabricada completamente en plásticos técnicos.*

Features and Benefits
Características y Beneficios

FEATURES	BENEFITS
"Anti-block" system	Avoid the ball blocking due to overstrenght in the seal-carrier
Threaded seal-carrier	Allows system maintenance without emptying the system
Ergonomic handle with rubber anti-slipping surface	Maximum resistance and improved torque
SS reinforcement in all female threaded unions	Possibility of threading metal parts without mechanical problems
Threaded inserts (SS) for wall-mounting and actuator installation	Easy to install, easy to motorise
Machined and polished ball	Avoid the ball blocking due to dirt particles in the fluid
Machined shaft	Perfect operation and leaking proof
Double shaft o-ring	Valve installation in any position
100% traceability: serial and batch number	Minimize the problems or maximize the solutions
Laser marking of the valve characteristics	Easy to see the characteristics and long live
Water and air testing in 100% of the valves	Minimum errors in the finished product

CARACTERÍSTICAS	BENEFICIOS
Sistema "Anti-block"	*Impide el bloqueo de la bola al sobre apretar el porta-juntas*
Porta-juntas roscado	*Permite el matenimiento del sistema sin necesidad de vaciar la instalación*
Maneta ergonómica y superfície anti-deslizante	*Máxima resistencia y mejora de par de cierre*
Refuerzo en acero inoxidable en todas las uniones rosca hembra	*Posibilidad de roscar elementos metálicos sin problemas mecánicos*
Insertos roscados (INOX) para montaje en pared y acoplamiento de actuadores	*Fácil instalación, fácil motorización*
Bola mecanizada y pulida	*Evita el bloqueo de la bola en presencia de partículas de suciedad en el líquido*
Eje mecanizado	*Operación perfecta y aprueba de fugas*
Doble junta tórica en el eje	*Posibilidad de instalación de la válvula en cualquier posición*
Trazabilidad 100%: número de lote y de serie	*Minimiza los problemas y maximiza las soluciones*
Marcado láser de las características de las válvulas	*Facilidad para consultar las caracterísitcas y larga vida*
Test de fugas con agua y aire al 100% de las válvulas	*Mínimo índice de errores en el producto completo*

"Anti-block" system Threaded seal-carrier
Sistema "Anti-block" Porta-juntas roscado

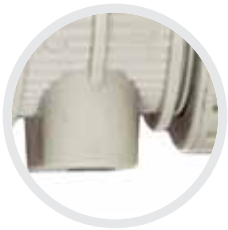
Machined and polished ball
Bola mecanizada y pulida

Ergonomic handle with rubber anti-slipping surface
Maneta ergonómica y superfície anti-deslizante

Machined shaft Double shfat o-ring
Eje mecanizado Doble junta tórica en el eje

SS reinforcement in all female threaded unions
Refuerzo en acero inoxidable en todas las uniones rosca hembra

100% traceability Laser marking of the valve characteristics
Trazabilidad 100% Marcado láser de las características de la válvula



Threaded inserts (SS) for wall-mounting and actuator installation
Insertos roscados (INOX) para montaje en pared y acoplamiento de actuadores

Water and air testing in 100% of the valves
Test de fugas con agua y aire al 100% de las válvulas

Design regulations
Normativas de diseño

	PRODUCT - *PRODUCTO*	VB (BALL / BOLA)
Applications and characteristics *Aplicaciones y características*	Use / *Uso*	Industrial
	Nominal pressure (PN) / *Presión trabajo (PN)*	PN 10 - PN16
	Nominal diameter (DN) / *Diámetro nominal (DN)*	DN10 – DN100
	Body material / *Material cuerpo*	PVC-U / CPVC / PPH / PVDF / ABS
	Ball material / *Material de la bola*	PVC-U / CPVC / PPH / PVDF / ABS
	O-ring material / *Material de las juntas*	EPDM / FPM
	Valve pass / *Paso de válvula*	DN
	Gral. functions / *Funciones generales*	IQuarter. All or nothing / Bi-directional
Regulations *Regulaciones*	Design regulation / *Regulación del diseño*	ISO /16135 : 2005
	Flange regulation (PN) / *Regulación de la brida (PN)*	EN 558-1
	Valves unions / *Uniones de la válvula*	EN 1092-1
	Bolts / *Tornillería*	EN / ISO 898-1
	Other connections / *Otras conexiones*	ISO 15494 - ISO 15493 – ISO 10931
	Actuators connection / *Conexión de actuadores*	EN / ISO 5211
Actuated *Accionado*	Actuation types / *Tipos de actuadores*	Table 1.1
	Actuation accessories / *Accesorios de actuación*	Different option. (sizes) / Actuation coupling EN / ISO 5211
Materials *Materiales*	Body / Cuerpo	Table 1.2
	Ball / Bola	
	O-ring / Juntas	
	Shaft / Eje	
	O-rings / Juntas	
	Packaging / Embalaje	
	Bolts / Tornillería	
Test *Prueba*	Body material / Material cuerpo	EN 12107
	Shell body test / Prueba del cuerpo	ISO 9393-2 P.5
	O-ring water tightness / Estanqueidad al agua	ISO 9393-2 P.7
	Long therm / Larga duración	ISO 9393-2 P.7

Cepex ball valves
Cepex válvula de bola

PRODUCT RANGE

■ Sizes from DN10 (3/8”) up to DN100 (4”).

■ Working pressure at 20°C (73°F) water temperature:

D16 – D63 (3/8” - 2”): PN 16 (PVC-U / PVC-C / PVDF)
D75 – D110 (2½” - 4”): PN 10 (PVC-U / PVC-C / PVDF)

D16 – D63 (3/8” - 2”): PN 10 (PP-H / ABS)
D75 – D110 (2½” - 4”): PN 6 (PP-H / ABS)

■ All unions available: female solvent socket, male solvent socket, female thread, male thread, with flanges, PE100, socket fusion, butt welding

■ Available materials: PVC-U / PVC-C / PP-H / PVDF / ABS

■ O-rings in: EPDM or FPM (FKM)

■ Standards: ISO-DIN, BSi, ANSI-ASTM

RANGO DE GAMA

■ *Medidas desde DN10 (3/8”) hasta DN100 (4”).*

■ *Presión de servicio a 20°C (73°F) temperatura de agua:*

D16 – D63 (3/8” - 2”): PN 16 (PVC-U / PVC-C / PVDF)
D75 – D110 (2½” - 4”): PN 10 (PVC-U / PVC-C / PVDF)

D16 – D63 (3/8” - 2”): PN 10 (PP-H / ABS)
D75 – D110 (2½” - 4”): PN 6 (PP-H / ABS)

■ *Todas las conexiones disponibles: encola hembra, encolar macho, roscar hembra, roscar macho, por bridas, PE100, termofusión, soldadura a tope*

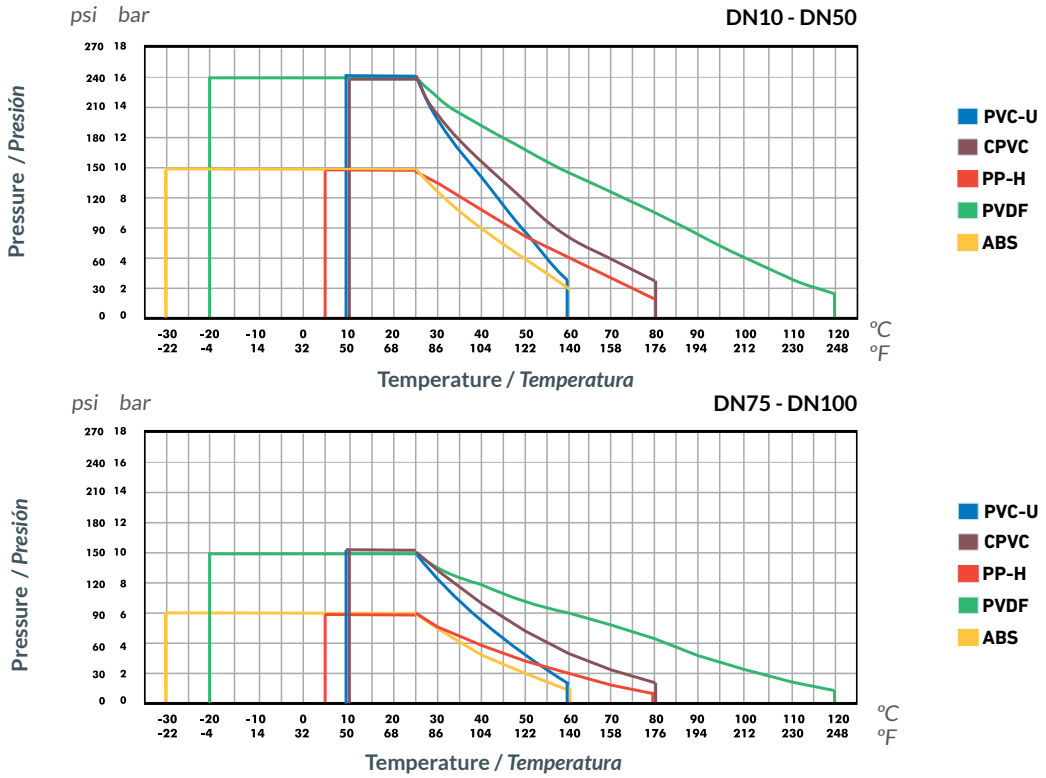
■ *Materiales disponibles: PVC-U / PVC-C / PP-H / PVDF / ABS*

■ *Juntas en: EPDM o FPM (FKM)*

■ *Standards: ISO-DIN, BSi, ANSI-ASTM*

Graphics ball valves
Gráficas válvulas de bola

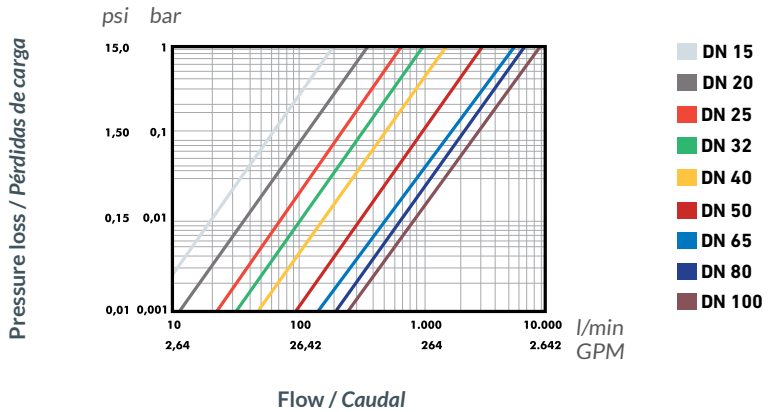
PRESSURE / TEMPERATURE
PRESIÓN / TEMPERATURA



Life: 25 years
Hydrostatic maximum pressure a compnent may outstand in continous service (without overpressure)

Vida útil: 25 años
Presión hidrostática máxima que un componente es capaz de soportar en servicio continuo (sin sobrepresión)

PRESSURE LOSS
PÉRDIDAS DE CARGA



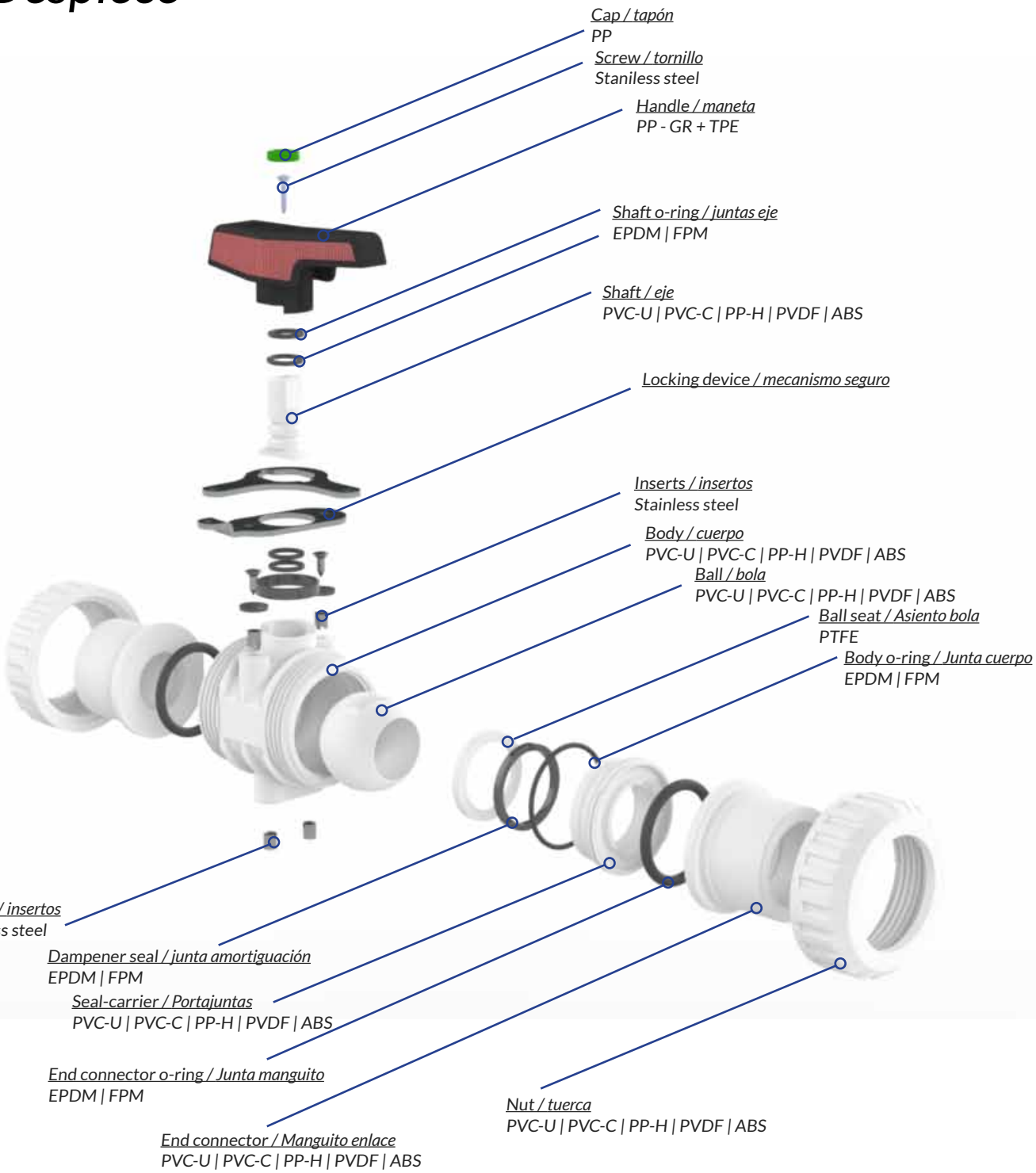
OPERATING TORQUE
PAR DE MANIOBRA

D	16-⅜"	20-½"	25-¾"	32-1"	40-1¼"	50-1½"	63-2"	75-2½"	90-3"	110-4"
DN	10	15	20	25	32	40	50	65	80	100
Nm	1	1	2	3,5	3,5	5	15	25	45	60
in·lbf	8,9	8,9	17,7	31	31	44,3	132,8	221,3	398,3	531

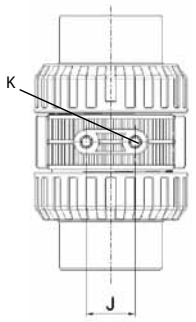
Operating torque values at rated pressure (PN) and 20 °C in as new direct from the factory condition. Installation and operating conditions (pressure and temperature) will affect these values.

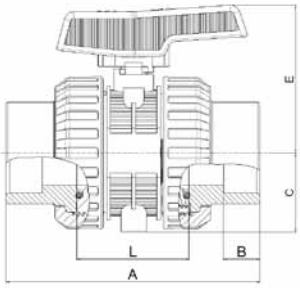
Los valores de par de giro se determinan a presión nominal (PN) y a 20 °C, en condiciones de salida de fábrica. Las condiciones de instalación y operación (presión y temperatura) afectarán a estos valores.

Explode
Despiece

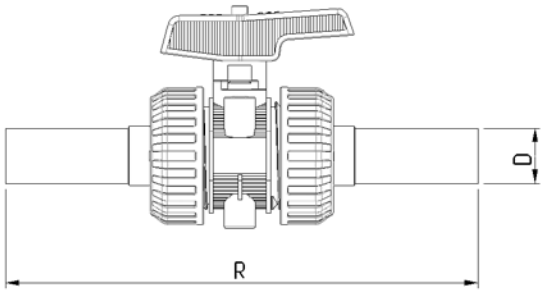


Dimensions
Dimensiones

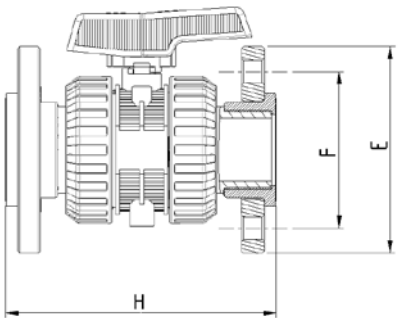




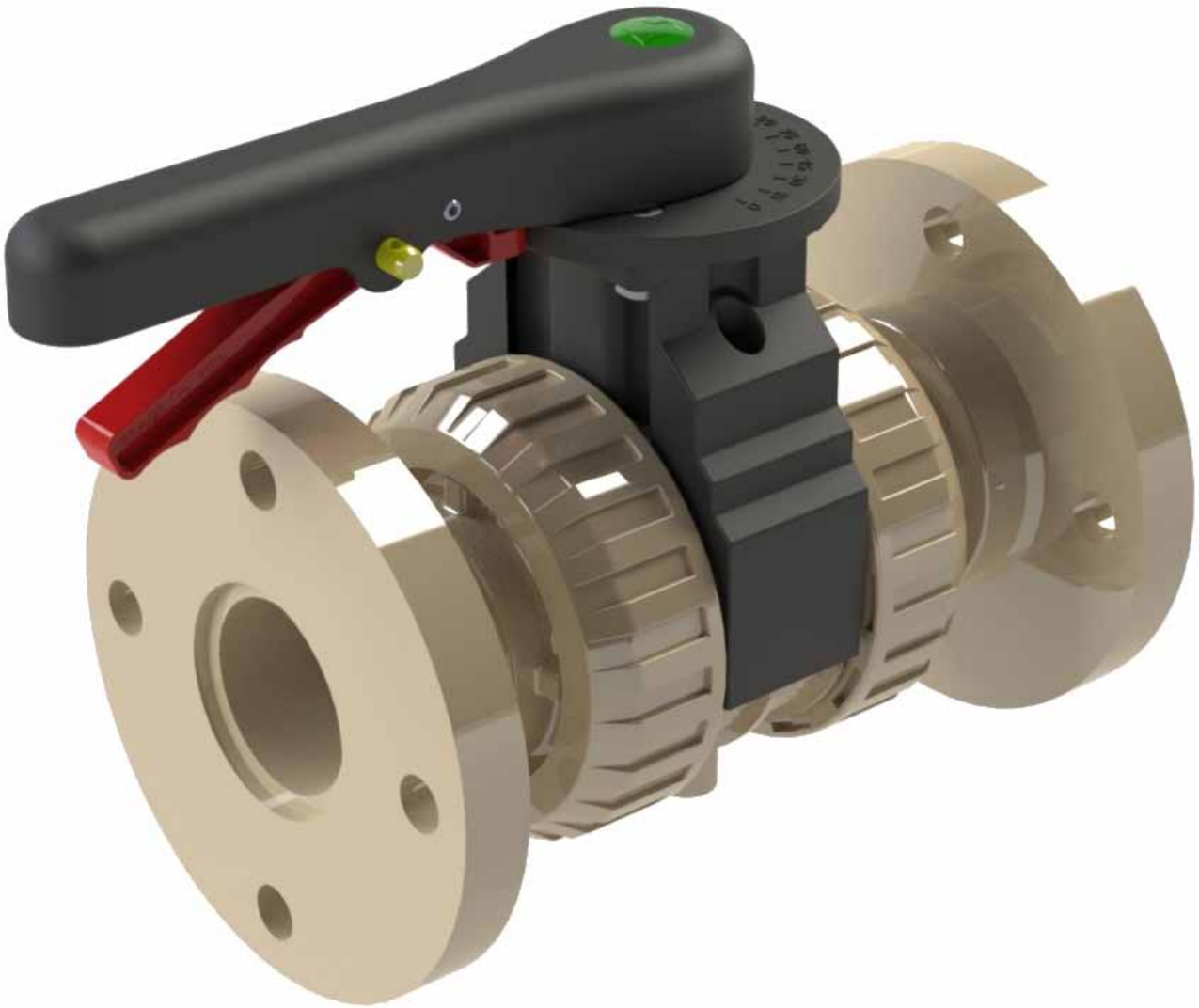
DN	D / G	A ± 2 (PVC-U, CPVC, ABS)	A' ± 2 PP, PVDF	B encolado	B soldado	B roscado	C	E	J	K	L
10	16 - 3/8"	102	101	15,5	14,5	8,5	26	53	16	M4	48
15	20 - 1/2"	102	101	17	15,5	13,5	26	53	16	M4	48
20	25 - 3/4"	120	118	20	17	15,5	31,5	65	20	M5	56
25	32 - 1"	139	136	23	19	18,5	36	73	24	M5	66
32	40 - 1 1/4"	156	151	27,5	21,5	20	45	88	28	M5	74
40	50 - 1 1/2"	170	165	32	24,5	20	51	102	30	M8	77
50	63 - 2"	197	190	39,5	28,5	24	61	114	37,5	M8	90



DN	D / G	A ± 2 (PVC-U, CPVC, ABS)	A' ± 2 PP, PVDF	B encolado	B soldado	B roscado	C	E	J	K	L
10	16 - 3/8"	102	101	15,5	14,5	8,5	26	53	16	M4	48
15	20 - 1/2"	102	101	17	15,5	13,5	26	53	16	M4	48
20	25 - 3/4"	120	118	20	17	15,5	31,5	65	20	M5	56
25	32 - 1"	139	136	23	19	18,5	36	73	24	M5	66
32	40 - 1 1/4"	156	151	27,5	21,5	20	45	88	28	M5	74
40	50 - 1 1/2"	170	165	32	24,5	20	51	102	30	M8	77
50	63 - 2"	197	190	39,5	28,5	24	61	114	37,5	M8	90



DN	D / G	A ± 2 (PVC-U, CPVC, ABS)	A' ± 2 PP, PVDF	B encolado	B soldado	B roscado	C	E	J	K	L
10	16 - 3/8"	102	101	15,5	14,5	8,5	26	53	16	M4	48
15	20 - 1/2"	102	101	17	15,5	13,5	26	53	16	M4	48
20	25 - 3/4"	120	118	20	17	15,5	31,5	65	20	M5	56
25	32 - 1"	139	136	23	19	18,5	36	73	24	M5	66
32	40 - 1 1/4"	156	151	27,5	21,5	20	45	88	28	M5	74
40	50 - 1 1/2"	170	165	32	24,5	20	51	102	30	M8	77
50	63 - 2"	197	190	39,5	28,5	24	61	114	37,5	M8	90

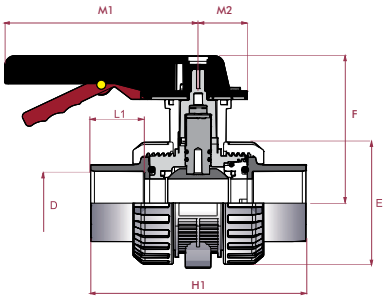


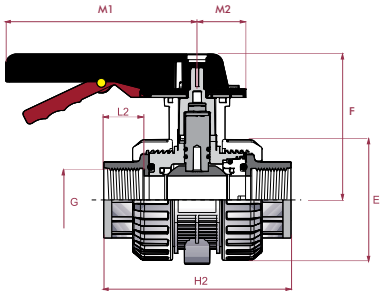
Ball valve with throttle plate
Válvula de bola con conjunto divisor

■ Ball valve served with a butterfly valve throttle plate instead of the regular handle.
■ This option is compulsory from DN65 up to DN100.
■ Both lever handle and top plate are constructed in thermoplastic materials for excellent corrosion resistance.
■ The handle features seven built in position stops (every 15º) and acts as a position indicator.
■ It also features a built in lockout system to prevent undesired operations.

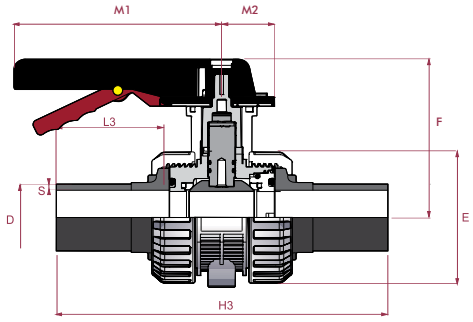
■ *Válvula de bola servida con el conjunto divisor de la válvula de mariposa en lugar de la maneta estándar.*
■ *Esta opción es necesaria desde DN65 hasta DN100.*
■ *Tanto esta maneta como el conjunto divisor están fabricados en material termoplástico para una total resistencia a la corrosión.*
■ *La maneta dispone de siete posiciones (cada 15º) y actúa como indicador de posición.*
■ *También incorpora un seguro que permite evitar maniobras indeseadas.*

Dimensions
Dimensiones

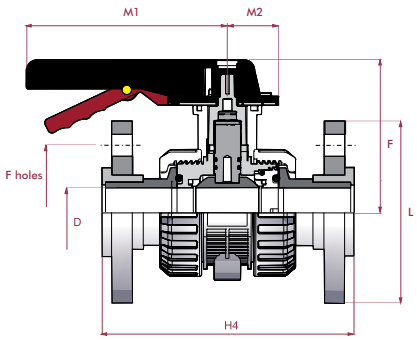




D	DN	L1 solvent	L2 threaded	H1 solvent	H2 threaded	E	F	M1	M2
75	65	45	27	238	216	146	172	220	56
90	80	53	30	278	256	176	180	220	56
110	100						190	220	56



D	DN	L3	H3	E	S	F	M1	M2
75	65	76	106	146	6,8	172	220	56
90	80	85	115	176	8,2	180	220	56
110	100					190	220	56



D	DN	L (DIN)	L (ANSI)	H4	F holes	F	M1	M2
75	65	290	241 / 330	190	145	172	220	56
90	80	310	283 / 356	310	160	180	220	56
110	100	430	305 / 432			190	220	56

PVC-U BALL VALVE
VÁLVULA DE BOLA PVC-U

PVC-U BALL VALVE
solvent socket ISO/DIN

VÁLVULA DE BOLA PVC-U
encolar hembra ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
10	16	16	**64583**	**64668**	75 l/min
15	16	20	**64584**	**64669**	190 l/min
20	16	25	**64585**	**64670**	380 l/min
25	16	32	**64586**	**64671**	690 l/min
32	16	40	**64587**	**64672**	980 l/min
40	16	50	**64588**	**64673**	1600 l/min
50	16	63	**64589**	**64674**	3000 l/min

PVC-U BALL VALVE
female thread BSP
SS reinforcement

VÁLVULA DE BOLA PVC-U
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
10	16	⅜"	**64602**	**64678**	75 l/min
15	16	½"	**64603**	**64679**	190 l/min
20	16	¾"	**64604**	**64680**	380 l/min
25	16	1"	**64605**	**64681**	690 l/min
32	16	1¼"	**64606**	**64682**	980 l/min
40	16	1½"	**64607**	**64683**	1600 l/min
50	16	2"	**64608**	**64684**	3000 l/min

PVC-U BALL VALVE
male solvent socket ISO/DIN

VÁLVULA DE BOLA PVC-U
encolar macho ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
10	16	⅜"	**66868**	**67413**	75 l/min
15	16	½"	**66869**	**67414**	190 l/min
20	16	¾"	**66870**	**67415**	380 l/min
25	16	1"	**66871**	**67416**	690 l/min
32	16	1¼"	**66872**	**67417**	980 l/min
40	16	1½"	**66873**	**67418**	1600 l/min
50	16	2"	**66874**	**67419**	3000 l/min

PVC-U BALLVALVE
PVC-U ISO flanges
loose flange (RF)

VÁLVULA DE BOLA PVC-U
bridas ISO en PVC-U
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	16	20	**64613**	**65031**	190 l/min
20	16	25	**64614**	**65032**	380 l/min
25	16	32	**64615**	**65033**	690 l/min
32	16	40	**64616**	**65034**	980 l/min
40	16	50	**64617**	**65035**	1600 l/min
50	16	63	**64618**	**65036**	3000 l/min

PVC-U BALL VALVE
PVC-U ANSI flanges
fixed flange (FF)

VÁLVULA DE BOLA PVC-U
bridas ANSI en PVC-U
brida fija (FF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**64613AB**	**65031AB**	190 l/min
20	10	¾"	**64614AB**	**65032AB**	380 l/min
25	10	1"	**64615AB**	**65033AB**	690 l/min
32	10	1¼"	**64616AB**	**65034AB**	980 l/min
40	10	1½"	**64617AB**	**65035AB**	1600 l/min
50	10	2"	**64618AB**	**65036AB**	3000 l/min

PVC-U BALL VALVE
PE100 / SDR11

VÁLVULA DE BOLA PVC-U
PE100 / SDR11

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	16	20	**64659**	**65134**	190 l/min
20	16	25	**64660**	**65135**	380 l/min
25	16	32	**64661**	**65136**	690 l/min
32	16	40	**64662**	**65138**	980 l/min
40	16	50	**64663**	**65141**	1600 l/min
50	16	63	**64664**	**65142**	3000 l/min

PVC-U BALL VALVE
VÁLVULA DE BOLA PVC-U

PVC-U BALL VALVE
solvent socket ISO/DIN

VÁLVULA DE BOLA PVC-U
encolar hembra ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	75	**64590**	**64675**	5500 l/min
80	10	90	**64591**	**64676**	6800 l/min
100	10	110	**64592**	**64677**	8900 l/min

PVC-U BALL VALVE
female thread BSP
SS reinforcement

VÁLVULA DE BOLA PVC-U
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	2½"	**64609**	**64685**	5500 l/min
80	10	3"	**64610**	**64686**	6800 l/min
100	10	4"	**64611**	**64687**	8900 l/min

PVC-U BALL VALVE
male solvent socket ISO/DIN

VÁLVULA DE BOLA PVC-U
encolar macho ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	2½"	**67428**	**67430**	5500 l/min
80	10	3"	**67429**	**67431**	6800 l/min
100	10	4"	**68554**	**68555**	8900 l/min

PVC-U BALL VALVE
PVC-U ISO flanges
loose flange (RF)

VÁLVULA DE BOLA PVC-U
bridas ISO en PVC-U
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	75	**64619**	**65037**	5500 l/min
80	10	90	**64620**	**65038**	6800 l/min
100	10	110	**64632**	**65039**	8900 l/min

PVC-U BALL VALVE
PVC-U ANSI flanges
fixed flange (FF)

VÁLVULA DE BOLA PVC-U
bridas ANSI en PVC-U
brida fija (FF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	2½"	**64619AB**	**65037AB**	5500 l/min
80	10	3"	**64620AB**	**65038AB**	6800 l/min
100	10	4"	**64632AB**	**65039AB**	8900 l/min

PVC-U BALL VALVE
PE100 / SDR11

VÁLVULA DE BOLA PVC-U
PE100 / SDR11

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	75	**64665**	**65143**	5500 l/min
80	10	90	**64666**	**65144**	6800 l/min
100	10	110	**64667**	**65145**	8900 l/min

CPVC BALL VALVE
VÁLVULA DE BOLA CPVC

CPVC BALL VALVE
solvent socket ISO/DIN

VÁLVULA DE BOLA CPVC
encolar hembra ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
10	16	16	**64864**	**64875**	75 l/min
15	16	20	**64865**	**64876**	190 l/min
20	16	25	**64866**	**64877**	380 l/min
25	16	32	**64867**	**64878**	690 l/min
32	16	40	**64868**	**64879**	980 l/min
40	16	50	**64869**	**64880**	1600 l/min
50	16	63	**64870**	**64881**	3000 l/min

CPVC BALL VALVE
female thread BSP
SS reinforcement

VÁLVULA DE BOLA CPVC
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
10	16	⅜"	**65146**	**65156**	75 l/min
15	16	½"	**65147**	**65157**	190 l/min
20	16	¾"	**65148**	**65158**	380 l/min
25	16	1"	**65149**	**65159**	690 l/min
32	16	1¼"	**65150**	**65160**	980 l/min
40	16	1½"	**65151**	**65161**	1600 l/min
50	16	2"	**65152**	**65162**	3000 l/min

CPVC BALL VALVE
male solvent socket ISO/DIN

VÁLVULA DE BOLA CPVC
encolar macho ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
10	16	16	**67420**	**67421**	75 l/min
15	16	20	**66875**	**67422**	190 l/min
20	16	25	**66876**	**67423**	380 l/min
25	16	32	**66877**	**67424**	690 l/min
32	16	40	**66878**	**67425**	980 l/min
40	16	50	**66879**	**67426**	1600 l/min
50	16	63	**66880**	**67427**	3000 l/min

CPVC BALL VALVE
CPVC ISO flanges
loose flange (RF)

VÁLVULA DE BOLA CPVC
bridas ISO en CPVC
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	16	20	**64901**	**64851**	190 l/min
20	16	25	**64902**	**64852**	380 l/min
25	16	32	**64903**	**64853**	690 l/min
32	16	40	**64904**	**64854**	980 l/min
40	16	50	**64905**	**64855**	1600 l/min
50	16	63	**64906**	**64856**	3000 l/min

CPVC BALL VALVE
CPVC ANSI flanges
fixed flange (FF)

VÁLVULA DE BOLA CPVC
bridas ANSI en CPVC
brida fija (FF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**64901AB**	**64851AB**	190 l/min
20	10	¾"	**64902AB**	**64852AB**	380 l/min
25	10	1"	**64903AB**	**64853AB**	690 l/min
32	10	1¼"	**64904AB**	**64854AB**	980 l/min
40	10	1½"	**64905AB**	**64855AB**	1600 l/min
50	10	2"	**64906AB**	**64856AB**	3000 l/min

CPVC
BALL VALVE
VÁLVULA DE BOLA CPVC

CPVC BALL VALVE
solvent socket ISO/DIN

VÁLVULA DE BOLA CPVC
encolar hembra ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	75	**64871**	**64882**	5500 l/min
80	10	90	**64872**	**64883**	6800 l/min
100	10	110	**64873**	**64884**	8900 l/min

CPVC BALL VALVE
female thread BSP
SS reinforcement

VÁLVULA DE BOLA CPVC
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	2½"	**65153**	**65163**	5500 l/min
80	10	3"	**65154**	**65164**	6800 l/min
100	10	4"	**65155**	**65165**	8900 l/min

CPVC BALL VALVE
male solvent socket ISO/DIN

VÁLVULA DE BOLA CPVC
encolar macho ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	75	**67432**	**67434**	5500 l/min
80	10	90	**67433**	**67435**	6800 l/min
100	10	110	**68556**	**68557**	8900 l/min

CPVC BALL VALVE
CPVC ISO flanges
loose flange (RF)

VÁLVULA DE BOLA CPVC
bridas ISO en CPVC
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	75	**64907**	**64857**	5500 l/min
80	10	90	**64908**	**64858**	6800 l/min
100	10	110	**64909**	**64859**	8900 l/min

CPVC BALL VALVE
CPVC ANSI flanges
fixed flange (FF)

VÁLVULA DE BOLA CPVC
bridas ANSI en CPVC
brida fija (FF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	10	2½"	**64907AB**	**64857AB**	5500 l/min
80	10	3"	**64908AB**	**64858AB**	6800 l/min
100	10	4"	**64909AB**	**64859AB**	8900 l/min

PP-H BALL VALVE
VÁLVULA DE BOLA PP-H

PP-H BALL VALVE
socket fusion

VÁLVULA DE BOLA PP-H
termofusión hembra

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
10	10	16	**64910**	**65166**	75 l/min
15	10	20	**64911**	**65167**	190 l/min
20	10	25	**64912**	**65168**	380 l/min
25	10	32	**64913**	**65169**	690 l/min
32	10	40	**64914**	**65170**	980 l/min
40	10	50	**64915**	**65171**	1600 l/min
50	10	63	**64916**	**65172**	3000 l/min

PP-H BALL VALVE
female thread BSP
SS reinforcement

VÁLVULA DE BOLA PP-H
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
10	10	⅜"	**64917**	**65173**	75 l/min
15	10	½"	**64918**	**65174**	190 l/min
20	10	¾"	**64919**	**65175**	380 l/min
25	10	1"	**64920**	**65176**	690 l/min
32	10	1¼"	**64921**	**65177**	980 l/min
40	10	1½"	**64922**	**65178**	1600 l/min
50	10	2"	**64923**	**65179**	3000 l/min

PP-H BALL VALVE
butt fusion
PP-H / SDR11

VÁLVULA DE BOLA PP-H
soldadura a tope
PP-H / SDR11

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**64622**	**64539**	190 l/min
20	10	25	**64623**	**64846**	380 l/min
25	10	32	**64624**	**64847**	690 l/min
32	10	40	**64625**	**64848**	980 l/min
40	10	50	**64626**	**64849**	1600 l/min
50	10	63	**64627**	**64850**	3000 l/min

PP-H BALL VALVE
butt fusion
PE100 / SDR11

VÁLVULA DE BOLA PP-H
soldadura a tope
PE100 / SDR11

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**65067**	**65181**	190 l/min
20	10	25	**65068**	**65182**	380 l/min
25	10	32	**65180**	**65183**	690 l/min
32	10	40	**65069**	**65184**	980 l/min
40	10	50	**65070**	**65185**	1600 l/min
50	10	63	**65071**	**65186**	3000 l/min

PP-H BALL VALVE
PP-H ISO flanges
fixed flange (FF)

VÁLVULA DE BOLA PP-H
bridas ISO en PP-H
brida fija (FF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**66652**	**66658**	190 l/min
20	10	25	**66653**	**66659**	380 l/min
25	10	32	**66654**	**66660**	690 l/min
32	10	40	**66655**	**66661**	980 l/min
40	10	50	**66656**	**66662**	1600 l/min
50	10	63	**66657**	**66663**	3000 l/min

PP-H BALL VALVE
PP steel coated ANSI flanges
loose flange (RF)

VÁLVULA DE BOLA PP-H
bridas ANSI en PP con alma de acero
birda loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**66652AB**	**66658AB**	190 l/min
20	10	¾"	**66653AB**	**66659AB**	380 l/min
25	10	1"	**66654AB**	**66660AB**	690 l/min
32	10	1¼"	**66655AB**	**66661AB**	980 l/min
40	10	1½"	**66656AB**	**66662AB**	1600 l/min
50	10	2"	**66657AB**	**66663AB**	3000 l/min

PP-H BALL VALVE
VÁLVULA DE BOLA PP-H

PP-H BALL VALVE
socket fusion

VÁLVULA DE BOLA PP-H
termofusión hembra

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	75	**66927**	**67542**	5500 l/min
80	6	90	**66928**	**67543**	6800 l/min
100	6	110	**68509**	**68510**	8900 l/min

PP-H BALL VALVE
female thread BSP
SS reinforcement

VÁLVULA DE BOLA PP-H
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	2½"	**68558**	**68564**	5500 l/min
80	6	3"	**68560**	**68565**	6800 l/min
100	6	4"	**68562**	**68566**	8900 l/min

PP-H BALL VALVE
butt fusion
PP-H / SDR11

VÁLVULA DE BOLA PP-H
soldadura a tope
PP-H / SDR11

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	75	**68568**	**68571**	5500 l/min
80	6	90	**68569**	**68572**	6800 l/min
100	6	110	**68570**	**68573**	8900 l/min

PP-H BALL VALVE
butt fusion
PE100 / SDR11

VÁLVULA DE BOLA PP-H
soldadura a tope
PE100 / SDR11

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	75	**67473**	**68575**	5500 l/min
80	6	90	**67474**	**68576**	6800 l/min
100	6	110	**68574**	**68577**	8900 l/min

PP-H BALL VALVE
PP-H ISO flanges
fixed flange (FF)

VÁLVULA DE BOLA PP-H
bridas ISO en PP-H
brida fija (FF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	75	**67276**	**67277**	5500 l/min
80	6	90	**67278**	**67279**	6800 l/min
100	6	110	**68482**	**68483**	8900 l/min

PP-H BALL VALVE
PP steel coated ANSI flanges
loose flange (RF)

VÁLVULA DE BOLA PP-H
bridas ANSI en PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	2½"	**67276AB**	**67277AB**	5500 l/min
80	6	3"	**67278AB**	**67279AB**	6800 l/min
100	6	4"	**68482AB**	**68483AB**	8900 l/min

PVDF BALL VALVE
VÁLVULA DE BOLA PVDF

PVDF BALL VALVE
socket fusion

VÁLVULA DE BOLA PVDF
termofusión hembra

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
10	16	16	**64924**	**64415**	75 l/min
15	16	20	**64925**	**64416**	190 l/min
20	16	25	**64926**	**64417**	380 l/min
25	16	32	**64927**	**64418**	690 l/min
32	16	40	**64928**	**64419**	980 l/min
40	16	50	**64929**	**64420**	1600 l/min
50	16	63	**64930**	**64421**	3000 l/min

PVDF BALL VALVE
female thread BSP
SS reinforcement

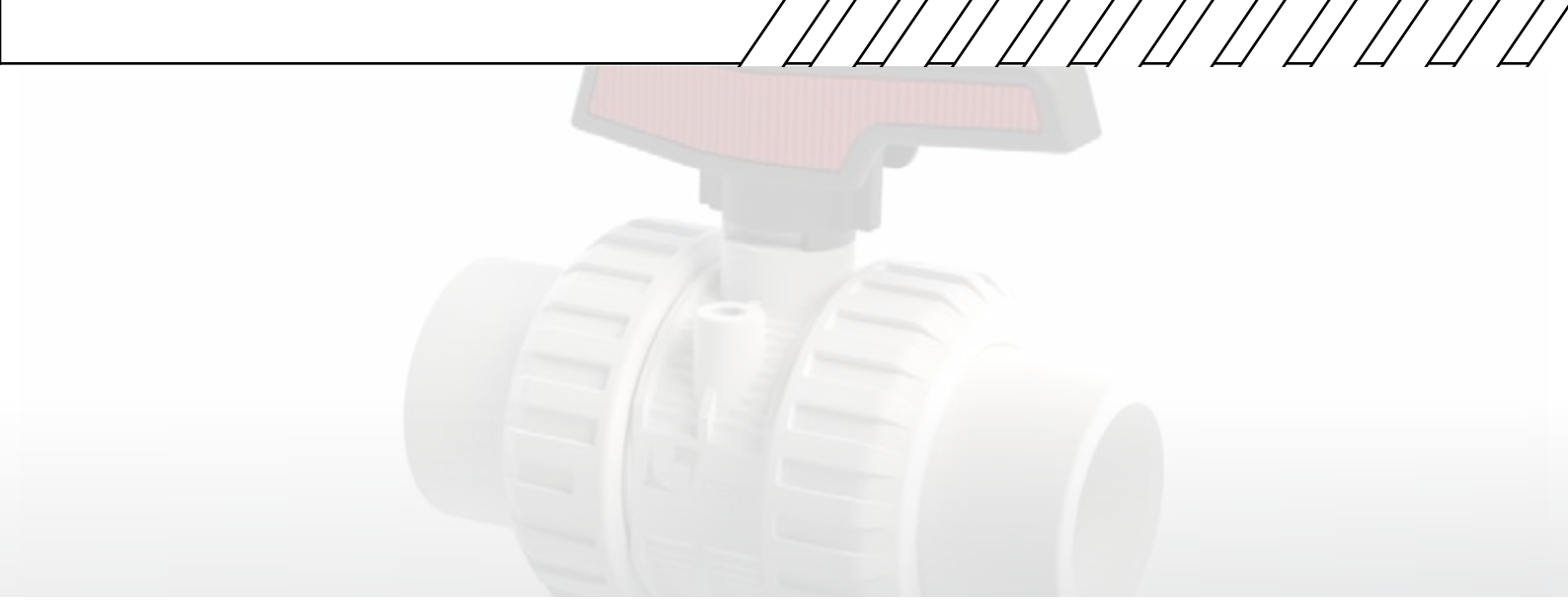
VÁLVULA DE BOLA PVDF
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
10	16	⅜"	**66248**	**66317**	75 l/min
15	16	½"	**66249**	**66318**	190 l/min
20	16	¾"	**66250**	**66319**	380 l/min
25	16	1"	**66251**	**66320**	690 l/min
32	16	1¼"	**66252**	**66321**	980 l/min
40	16	1½"	**66253**	**66322**	1600 l/min
50	16	2"	**66254**	**66323**	3000 l/min

PVDF BALL VALVE
butt fusion
PVDF / SDR11

VÁLVULA DE BOLA PVDF
soldadura a tope
PVDF / SDR11

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	16	20	**67175**	**67181**	190 l/min
20	16	25	**67176**	**67182**	380 l/min
25	16	32	**67177**	**67183**	690 l/min
32	16	40	**67178**	**67184**	980 l/min
40	16	50	**67179**	**67185**	1600 l/min
50	16	63	**67180**	**67186**	3000 l/min



PVDF BALL VALVE
PP steel coated ISO flanges
loose flange (RF)

VÁLVULA DE BOLA PVDF
bridas ISO en PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**67883**	**65990**	190 l/min
20	10	25	**67884**	**65991**	380 l/min
25	10	32	**67885**	**65992**	690 l/min
32	10	40	**67886**	**65993**	980 l/min
40	10	50	**67887**	**65994**	1600 l/min
50	10	63	**67888**	**65995**	3000 l/min

PVDF BALL VALVE
PP steel coated ANSI flanges
loose flange (RF)

VÁLVULA DE BOLA PVDF
bridas ANSI en PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**67883AB**	**65990AB**	190 l/min
20	10	¾"	**67884AB**	**65991AB**	380 l/min
25	10	1"	**67885AB**	**65992AB**	690 l/min
32	10	1¼"	**67886AB**	**65993AB**	980 l/min
40	10	1½"	**67887AB**	**65994AB**	1600 l/min
50	10	2"	**67888AB**	**65995AB**	3000 l/min

PVDF BALL VALVE
VÁLVULA DE BOLA PVDF

PVDF BALL VALVE
socket fusion

VÁLVULA DE BOLA PVDF
termofusión hembra

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	75	**68632**	**68266**	5500 l/min
80	6	90	**68633**	**68267**	6800 l/min
100	6	110	**69320**	**69321**	8900 l/min

PVDF BALL VALVE
female thread BSP
SS reinforcement

VÁLVULA DE BOLA PVDF
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	2½"	**69322**	**69326**	5500 l/min
80	6	3"	**69323**	**69328**	6800 l/min
100	6	4"	**69324**	**69329**	8900 l/min

PVDF BALL VALVE
butt fusion
PVDF / SDR11

VÁLVULA DE BOLA PVDF
soldadura a tope
PVDF / SDR11

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	75	**69330**	**69333**	5500 l/min
80	6	90	**69331**	**69334**	6800 l/min
100	6	110	**69332**	**69336**	8900 l/min

PVDF BALL VALVE
PP steel coated ISO flanges
loose flange (RF)

VÁLVULA DE BOLA PVDF
bridas ISO en PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	75	**68461**	**68462**	5500 l/min
80	6	90	**68463**	**68464**	6800 l/min
100	6	110	**68475**	**68476**	8900 l/min

PVDF BALL VALVE
PP steel coated ANSI flanges
loose flange (RF)

VÁLVULA DE BOLA PVDF
bridas ANSI en PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	75	**68461AB**	**68462AB**	5500 l/min
80	6	90	**68463AB**	**68464AB**	6800 l/min
100	6	110	**68475AB**	**68476AB**	8900 l/min

ABS BALL VALVE
VÁLVULA DE BOLA ABS

ABS BALL VALVE
solvent socket ISO/DIN

VÁLVULA DE BOLA ABS
encolar hembra ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	16	**65187**	**65194**	75 l/min
15	10	20	**65188**	**65195**	190 l/min
20	10	25	**65189**	**65196**	380 l/min
35	10	32	**65190**	**65197**	690 l/min
32	10	40	**65191**	**65198**	980 l/min
40	10	50	**65192**	**65199**	1600 l/min
50	10	63	**65193**	**65200**	3000 l/min

ABS BALL VALVE
female thread BSP
SS reinforcement

VÁLVULA DE BOLA ABS
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	⅜"	**65201**	**65214**	75 l/min
15	10	½"	**65202**	**65208**	190 l/min
20	10	¾"	**65203**	**65209**	380 l/min
35	10	1"	**65204**	**65210**	690 l/min
32	10	1¼"	**65205**	**65211**	980 l/min
40	10	1½"	**65206**	**65212**	1600 l/min
50	10	2"	**65207**	**65213**	3000 l/min

ABS BALL VALVE
male solvent socket ISO/DIN

VÁLVULA DE BOLA ABS
encolar macho ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**67890**	**67897**	190 l/min
20	10	25	**67891**	**67898**	380 l/min
25	10	32	**67892**	**67899**	690 l/min
32	10	40	**67893**	**67900**	980 l/min
40	10	50	**67894**	**67901**	1600 l/min
50	10	63	**67895**	**67902**	3000 l/min

ABS BALL VALVE
VÁLVULA DE BOLA ABS

ABS BALL VALVE
solvent socket ISO/DIN

VÁLVULA DE BOLA ABS
encolar hembra ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	75	**68634**	**68637**	5500 l/min
80	6	90	**68635**	**68638**	6800 l/min
100	6	110	**68636**	**68639**	8900 l/min

ABS BALL VALVE
female thread BSP
SS reinforcement

VÁLVULA DE BOLA ABS
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	2½"	**69490**	**69493**	5500 l/min
80	6	3"	**69491**	**69494**	6800 l/min
100	6	4"	**69492**	**69496**	8900 l/min

ABS BALL VALVE
male solvent socket ISO/DIN

VÁLVULA DE BOLA ABS
encolar macho ISO/DIN

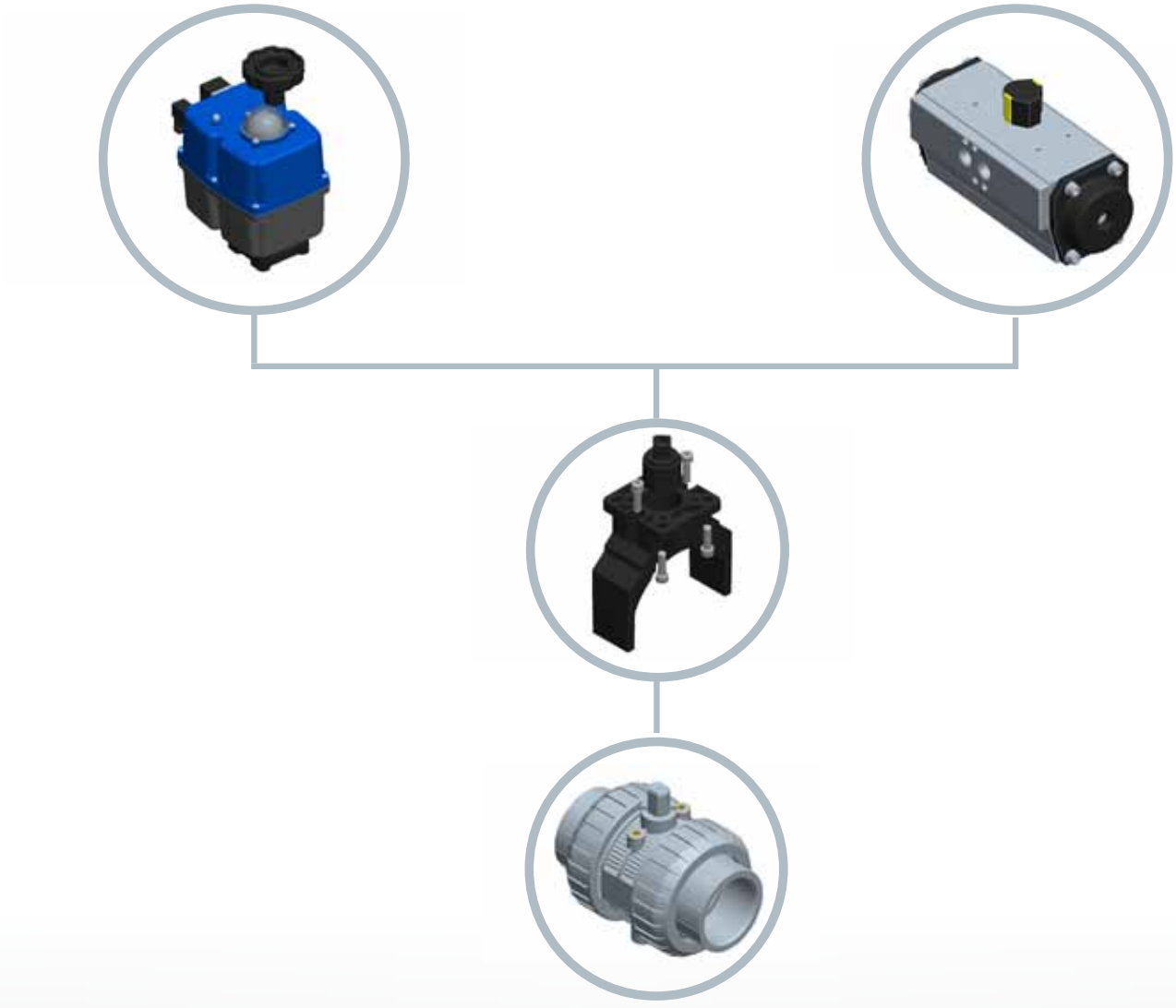
DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
65	6	75	**69497**	**69500**	5500 l/min
80	6	90	**69498**	**69501**	6800 l/min
100	6	110	**69499**	**69502**	8900 l/min


4
2
CODE:64343
FLOW

Actuated ball valves
Válvulas de bola actuadas

Valve actuation
■ Different actuation possibilities both electric and pneumatic.
■ Different manufacturers for every actuator.
■ Tailor made actuation for every application thanks to the assembly standards accomplishment.
■ Different accessories: electric and pneumatics digital positioners, limit switch boxes, electric security blocks, etc.

Actuación de válvula
■ *Diferentes posibilidades de automatización tanto eléctrica como neumática*
■ *Diferentes fabricantes de actuadores.*
■ *Actuación a medida para cada aplicación gracias al cumplimiento de estándares de montaje.*
■ *Accesorios incorporables como posicionadores eléctricos y neumáticos, finales de carrera, bloques de seguridad eléctricos, etc.*

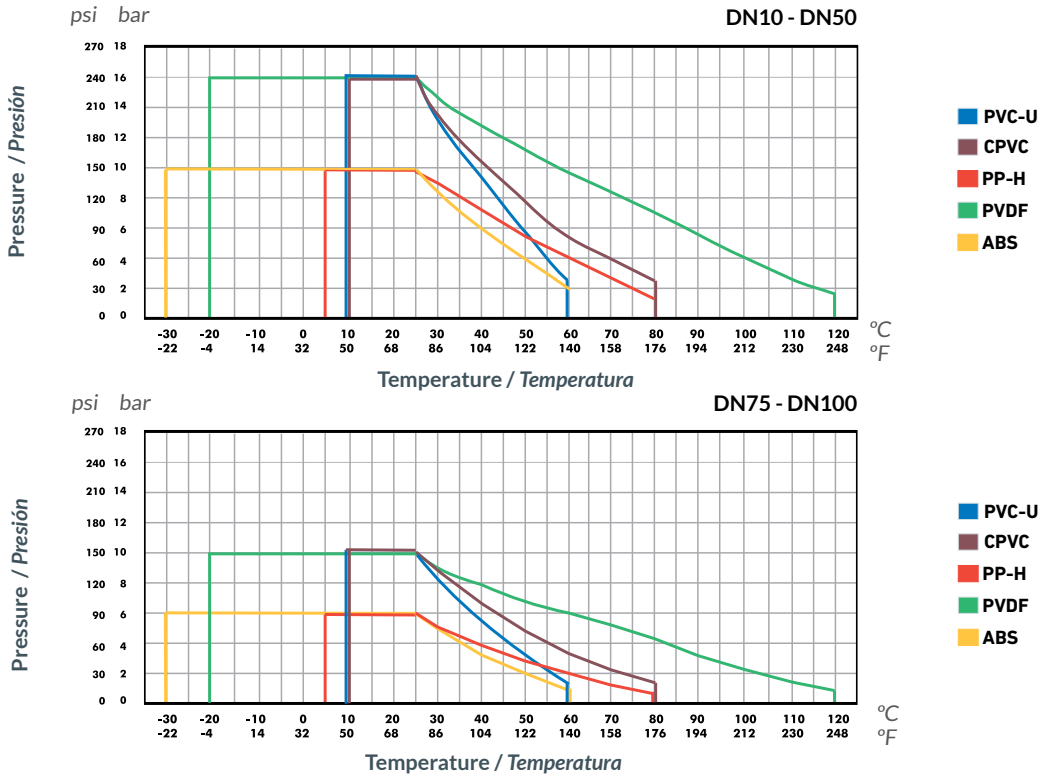


Design regulations
Normativas de diseño

	PRODUCT - *PRODUCTO*	VB (BALL / BOLA)
Applications and characteristics *Aplicaciones y características*	Use / *Uso*	Industrial
	Nominal pressure (PN) / *Presión trabajo (PN)*	PN 10 - PN16
	Nominal diameter (DN) / *Diámetro nominal (DN)*	DN10 – DN100
	Body material / *Material cuerpo*	PVC-U / CPVC / PPH / PVDF / ABS
	Ball material / *Material de la bola*	PVC-U / CPVC / PPH / PVDF / ABS
	O-ring material / *Material de las juntas*	EPDM / FPM
	Valve pass / *Paso de válvula*	DN
	Gral. functions / *Funciones generales*	IQuarter. All or nothing / Bi-directional
Regulations *Regulaciones*	Design regulation / *Regulación del diseño*	ISO /16135 : 2005
	Flange regulation (PN) / *Regulación de la brida (PN)*	EN 558-1
	Valves unions / *Uniones de la válvula*	EN 1092-1
	Bolts / *Tornillería*	EN / ISO 898-1
	Other connections / *Otras conexiones*	ISO 15494 - ISO 15493 – ISO 10931
	Actuators connection / *Conexión de actuadores*	EN / ISO 5211
Actuated *Accionado*	Actuation types / *Tipos de actuadores*	Table 1.1
	Actuation accessories / *Accesorios de actuación*	Different option. (sizes) / Actuation coupling EN / ISO 5211
Materials *Materiales*	Body / Cuerpo	Table 1.2
	Ball / Bola	
	O-ring / Juntas	
	Shaft / Eje	
	O-rings / Juntas	
	Packaging / Embalaje	
	Bolts / Tornillería	
Test *Prueba*	Body material / Material cuerpo	EN 12107
	Shell body test / Prueba del cuerpo	ISO 9393-2 P.5
	O-ring water tightness / Estanqueidad al agua	ISO 9393-2 P.7
	Long therm / Larga duración	ISO 9393-2 P.7

Graphics ball valves
Gráficas válvulas de bola

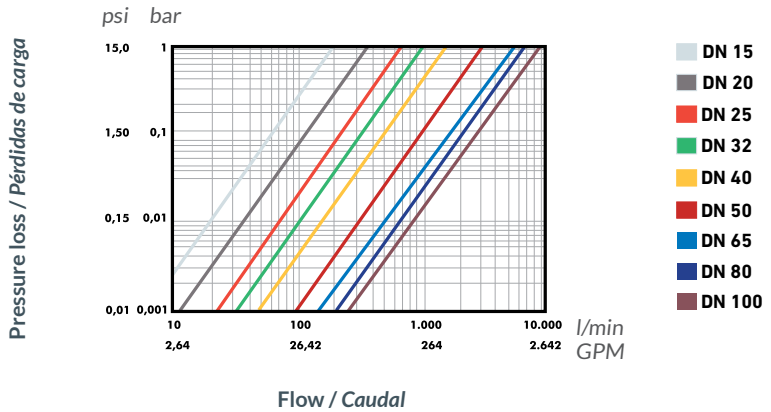
PRESSURE / TEMPERATURE
PRESIÓN / TEMPERATURA



Life: 25 years
Hydrostatic maximum pressure a compnent may outstand in continous service (without overpressure)

Vida útil: 25 años
Presión hidrostática máxima que un componente es capaz de soportar en servicio continuo (sin sobrepresión)

PRESSURE LOSS
PÉRDIDAS DE CARGA



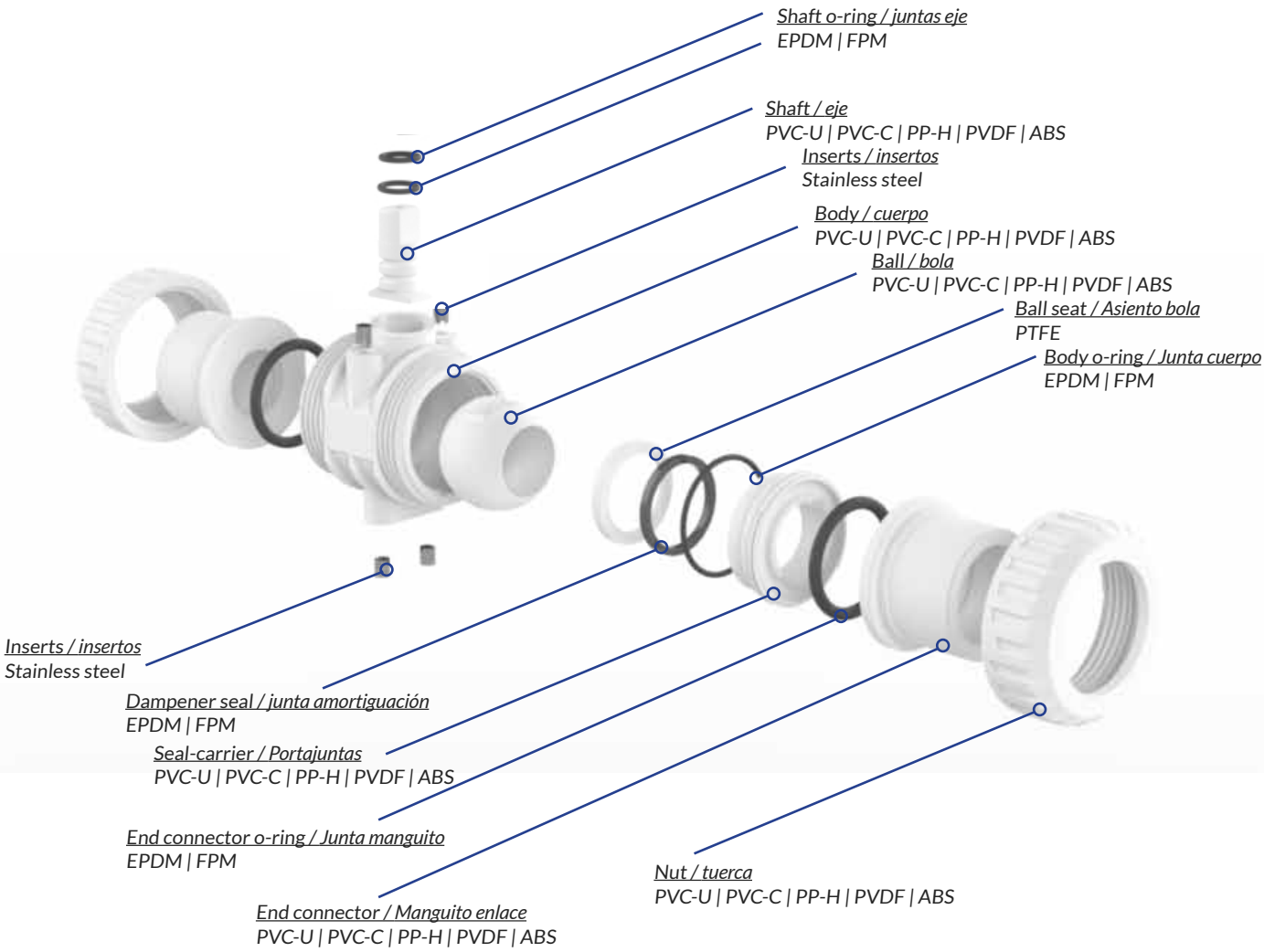
OPERATING TORQUE
PAR DE MANIOBRA

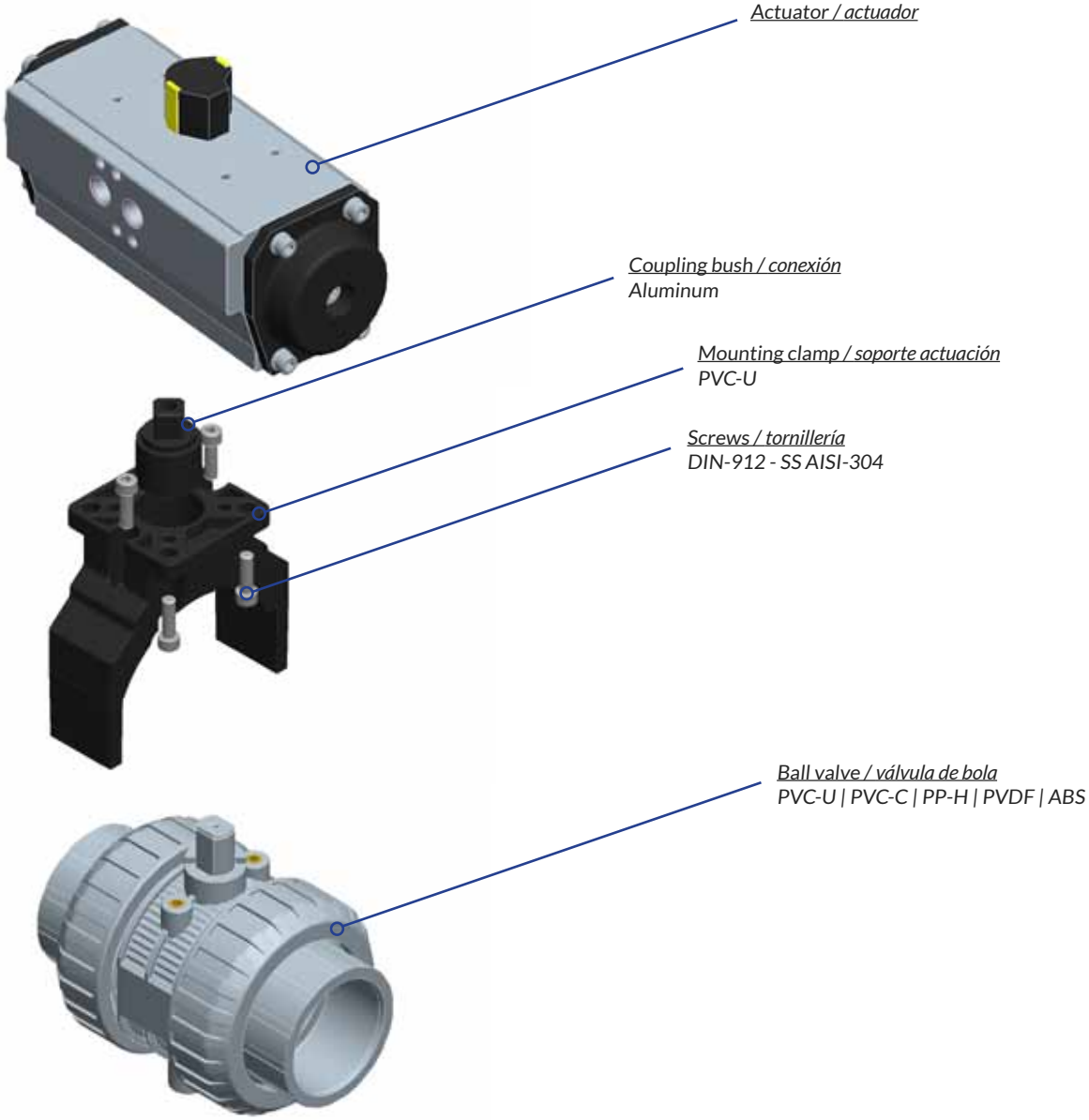
D	16-⅜"	20-½"	25-¾"	32-1"	40-1¼"	50-1½"	63-2"	75-2½"	90-3"	110-4"
DN	10	15	20	25	32	40	50	65	80	100
Nm	1	1	2	3,5	3,5	5	15	25	45	60
in·lbf	8,9	8,9	17,7	31	31	44,3	132,8	221,3	398,3	531

Operating torque values at rated pressure (PN) and 20 °C in as new direct from the factory condition. Installation and operating conditions (pressure and temperature) will affect these values.

Los valores de par de giro se determinan a presión nominal (PN) y a 20 °C, en condiciones de salida de fábrica. Las condiciones de instalación y operación (presión y temperatura) afectarán a estos valores.

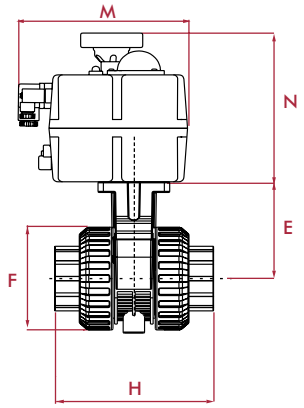
Explode
Despiece




Actuator / actuador
Coupling bush / conexión
Aluminum
Mounting clamp / soporte actuación
PVC-U
Screws / tornillería
DIN-912 - SS AISI-304
Ball valve / válvula de bola
PVC-U | PVC-C | PP-H | PVDF | ABS

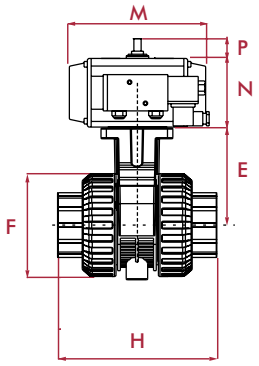
Dimensions
Dimensiones

ELECTRIC ACTUATOR
ACTUADOR ELÉCTRICO



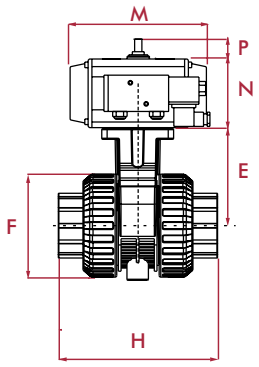
DN	D	E	F	M	N
10	16	50	64	169	123,5
15	20	50	64	169	123,5
20	25	61	64	169	123,5
25	32	70	74	169	123,5
32	40	81	74	169	123,5
40	50	96	88	177	171
50	63	118	88	177	171
65	75	146	123	177	196
80	90	176	123	177	196
100	110	225	165	235	254

PNEUMATIC ACTUATOR - DOUBLE ACTING
ACTUADOR NEUMÁTICO - DOBLE EFECTO



DN	D	E	F	M	N	P
10	16	50	64	116	65	30
15	20	50	64	116	65	30
20	25	61	64	116	65	30
25	32	70	74	116	65	30
32	40	81	74	116	65	30
40	50	96	88	116	65	30
50	63	118	88	133	74	30
65	75	146	123	161	100	30
80	90	176	123	161	100	30
100	110	225	165	180	108	30

PNEUMATIC ACTUATOR - SPRING RETURN
ACTUADOR NEUMÁTICO - SIMPLE EFECTO



DN	D	E	F	M	N	P
10	16	50	64	116	65	30
15	20	50	64	116	65	30
20	25	61	64	116	65	30
25	32	70	74	116	65	30
32	40	81	74	116	65	30
40	50	96	88	133	74	30
50	63	118	88	161	100	30
65	75	146	123	209	117	30
80	90	176	123	223	140	30
100	110	225	165	293	140	30

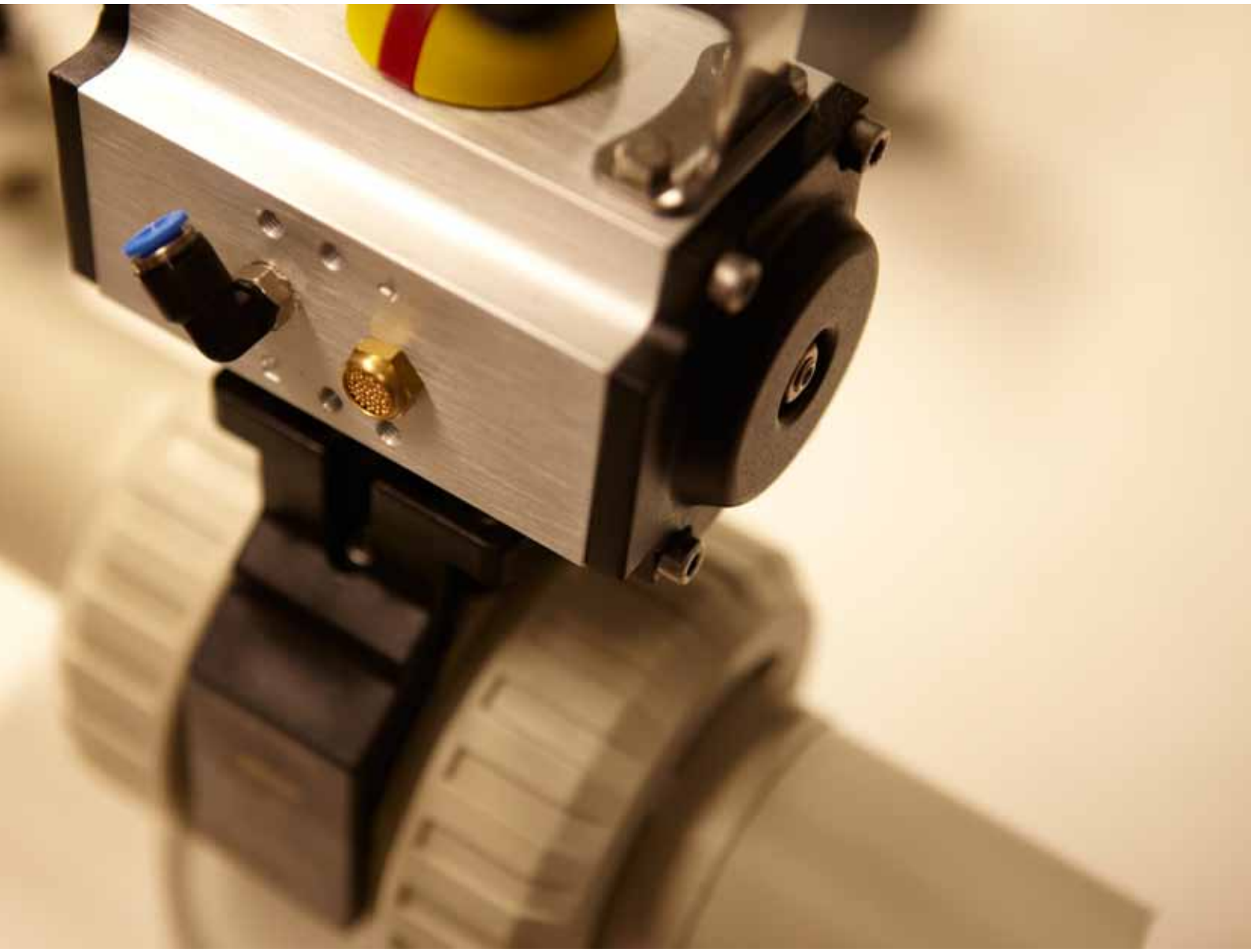

2.
CODE:64643

Correspondence ball valve - Actuator

Correspondencias válvula de bola - actuador

SIZE *Diam.*	J+J 24 VAC-VDC	J+J 85 - 240 VAC-VDC	ROTORK GT DA - DE	ROTORK GT SR - SE (NC)
D16 (⅜") - DN10	J2 L010 *	J2 H010 *	GT43 DA	GT43 K06
D20 (½") - DN15	J2 L010 *	J2 H010 *	GT43 DA	GT43 K06
D25 (¾") - DN20	J2 L010 *	J2 H010 *	GT43 DA	GT43 K06
D32 (1") - DN25	J2 L010 *	J2 H010 *	GT43 DA	GT43 K06
D40 (1¼") - DN32	J2 L010 *	J2 H010 *	GT43 DA	GT43 K06
D50 (1½") - DN40	J3C S020	J3C S020	GT43 DA	GT52 K08
D63 (2") - DN50	J3C S020	J3C S020	GT52 DA	GT75 K08
D75 (2½") - DN65	J3C S055	J3C S055	GT75 DA	GT92 K08
D90 (3") - DN80	J3C S085	J3C S085	GT75 DA	GT110 K08
D110 (4") - DN100	J3C L140	J3C H140	GT83 DA	GT118 K08

* With BSR - it is used J3C S020
* Con BSR - se usa J3C S020



Technical characteristics
Características técnicas

ELECTRIC ACTUATOR
ACTUADOR ELÉCTRICO

Model	Voltage	90º time	Maximum operational torque	Maximum break torque	Torque Consumption	Duty rating	IP rating	Temperature	Limit switch	Heating resistor	Plugs
J2 L010	24 VAC / VDC	19 s	10 Nm 88,55 in·lbf	12 Nm 106,2 in·lbf	24 VAC/VDC 390 mA - 9,36 W	75%	IP 67	-20º / 70ºC -4º / 158º F	4 SPTD micro	3,5 W	DIN 43650 ISO 4400 & C192
J2 H010	110-220 VAC / VDC	16 s			20 VAC/VDC 272 mA - 60 W 110 VAC/VDC 272 mA - 30 W						
J3C S020	20-240 VAC/VDC	10 s	20 Nm 177 in·lbf	25 Nm 221 in·lbf	24VDC - 0,40A - 10,30W 48VDC - 0,20A - 10,20W 110VDC - 0,10A - 7,50W 24 VAC - 0,60A - 14,20W 48 VAC - 0,40A - 18,40W 110 VAC - 0,20A - 16,50W 240 VAC - 0,10A - 22,20W	75%	IP 67	-20º / 70º C -4º / 158º F	4 SPTD micro	3,5 W	EN175301-803
J3C S055	20-240 VAC/VDC	14 s	55 Nm 486 in·lbf	60 Nm 530 in·lbf	24VDC - 0,33A - 8,00W 48VDC - 0,18A - 8,40W 110VDC - 0,06A - 6,10W 24 VAC - 0,47A - 11,20W 48 VAC - 0,29A - 14,20W 110 VAC - 0,12A - 13,60W 240 VAC - 0,09A - 21,10W	75%	IP 67	-20º / 70º C -4º / 158º F	4 SPTD micro	3,5 W	EN175301-803
J3C S085	20-240 VAC/VDC	30 s	85 Nm 752 in·lbf	90 Nm 796 in·lbf	24VDC - 0,33A - 7,90W 48VDC - 0,17A - 8,10W 110VDC - 0,05A - 5,80W 24 VAC - 0,45A - 10,80W 48 VAC - 0,28A - 13,30W 110 VAC - 0,11A - 12,30W 240 VAC - 0,08A - 18,50W	75%	IP 67	-20º / 70º C -4º / 158º F	4 SPTD micro	3,5 W	EN175301-803
J3C L140	24 VAC/VDC	34 s	140 Nm 1239 in·lbf	170 Nm 1504 in·lbf	24 VAC - 1900 mA - 45,6 W 24 VDC - 900 mA - 21,6 W	75%	IP 67	-20º / 70º C -4º / 158º F	4 SPTD micro	3,5 W	DIN 43650 ISO 4400 & C192
J3C H140	85-240 VAC/VDC				110 VAC - 700 mA - 77 W 220 VAC - 230 mA - 50,6 W						

PNEUMATIC ACTUATOR - DOUBLE ACTING
ACTUADOR NEUMÁTICO - DOBLE EFECTO

Model	Pneumatic torque (Nm)								
	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar
GT43	4,7	7,0	9,4	11,7	14,0	16,4	18,7	21,0	23,4
GT52	7,8	11,7	15,6	19,5	23,4	27,3	31,2	35,1	39,0
GT75	20,0	30,0	40,0	50,0	60,0	70,0	80,0	90,0	100,0
GT83	29,0	43,5	58,0	72,5	87,0	101,5	116,0	130,5	145,0

PNEUMATIC ACTUATOR - SPRING RETURN
ACTUADOR NEUMÁTICO - SIMPLE EFECTO

Model	Spring torque (Nm)		Pneumatic torque (Nm)																	
			2 bar		3 bar		4 bar		5 bar		6 bar		7 bar		8 bar		9 bar		10 bar	
	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º
GT43	5,03	7,60	-	-	-	-	4,22	1,60	6,56	3,94	8,90	6,28	11,24	8,61	13,58	10,95	15,92	13,29	18,26	15,63
GT52	7,64	12,75	-	-	-	-	7,79	2,58	11,69	6,48	15,59	10,38	19,48	14,27	23,38	18,17	27,28	22,07	31,17	25,96
GT75	20,95	31,85	-	-	-	-	18,62	7,50	28,62	17,50	38,62	27,50	48,61	37,50	58,61	47,50	68,61	57,49	78,61	67,49
GT92	36,41	57,38	-	-	-	-	42,88	21,49	62,88	41,49	82,88	61,49	102,9	81,50	122,9	101.5	142,9	121,5	162,9	141,5
GT110	63,22	94,84	-	-	-	-	51,5	19,3	80,5	48,3	109,5	77,3	138,5	106,3	167,5	135,3	196,5	164,3	225,5	193,3
GT118	84,99	145,8	-	-	-	-	85,3	23,3	128,3	66,3	171,3	109,3	214,3	152,3	257,3	195,3	300,3	238,3	343,3	281,3

PVC-U BALL VALVE - PNEUMATIC ACTUATOR (NC)

VÁLVULA BOLA PVC-U - ACTUADOR NEUMÁTICO (NC)

PVC-U BALL VALVE
solvent socket ISO/DIN

VÁLVULA BOLA PVC-U
encolar hembra ISO/DIN

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	16	16	**6458305R**	**6458307R**	**6466805R**	**6466807R**	75 l/min
15	16	20	**6458405R**	**6458407R**	**6466905R**	**6466907R**	190 l/min
20	16	25	**6458505R**	**6458507R**	**6467005R**	**6467007R**	380 l/min
25	16	32	**6458605R**	**6458607R**	**6467105R**	**6467107R**	690 l/min
32	16	40	**6458705R**	**6458707R**	**6467205R**	**6467207R**	980 l/min
40	16	50	**6458805R**	**6458807R**	**6467305R**	**6467307R**	1600 l/min
50	16	63	**6458905R**	**6458907R**	**6467405R**	**6467407R**	3000 l/min
65	10	75	**6459005R**	**6459007R**	**6467505R**	**6467507R**	5500 l/min
80	10	90	**6459105R**	**6459107R**	**6467605R**	**6467607R**	6800 l/min
100	10	110	**6459205R**	**6459207R**	**6467705R**	**6467707R**	8900 l/min

PVC-U BALL VALVE
female thread reinforced

VÁLVULA BOLA PVC-U
roscar hembra reforzado

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	16	⅜"	**6460205R**	**6460207R**	**6467805R**	**6467807R**	75 l/min
15	16	½"	**6460305R**	**6460307R**	**6467905R**	**6467907R**	190 l/min
20	16	¾"	**6460405R**	**6460407R**	**6468005R**	**6468007R**	380 l/min
25	16	1"	**6460505R**	**6460507R**	**6468105R**	**6468107R**	690 l/min
32	16	1¼"	**6460605R**	**6460607R**	**6468205R**	**6468207R**	980 l/min
40	16	1½"	**6460705R**	**6460707R**	**6468305R**	**6468307R**	1600 l/min
50	16	2"	**6460805R**	**6460807R**	**6468405R**	**6468407R**	3000 l/min
65	10	2½"	**6460905R**	**6460907R**	**6468505R**	**6468507R**	5500 l/min
80	10	3"	**6461005R**	**6461007R**	**6468605R**	**6468607R**	6800 l/min
100	10	4"	**6461105R**	**6461107R**	**6468705R**	**6468707R**	8900 l/min

PVC-U BALL VALVE
male solvent socket ISO/DIN

VÁLVULA BOLA PVC-U
encolar macho ISO/DIN

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	16	16	**6686805R**	**6686807R**	**6741305R**	**6741307R**	75 l/min
15	16	20	**6686905R**	**6686907R**	**6741405R**	**6741407R**	190 l/min
20	16	25	**6687005R**	**6687007R**	**6741505R**	**6741507R**	380 l/min
25	16	32	**6687105R**	**6687107R**	**6741605R**	**6741607R**	690 l/min
32	16	40	**6687205R**	**6687207R**	**6741705R**	**6741707R**	980 l/min
40	16	50	**6687305R**	**6687307R**	**6741805R**	**6741807R**	1600 l/min
50	16	63	**6687405R**	**6687407R**	**6741905R**	**6741907R**	3000 l/min
65	10	75	**6742805R**	**6742807R**	**6743005R**	**6743007R**	5500 l/min
80	10	90	**6742905R**	**6742907R**	**6743105R**	**6743107R**	6800 l/min
100	10	110	**6855405R**	**6855407R**	**6855505R**	**6855507R**	8900 l/min

PVC-U BALL VALVE
PVC-U ISO flanges
loose flange (RF)

VÁLVULA BOLA PVC-U
bridas ISO PVC-U
brida loca (RF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	16	20	**6461305R**	**6461307R**	**6503105R**	**6503107R**	190 l/min
20	16	25	**6461405R**	**6461407R**	**6503205R**	**6503207R**	380 l/min
25	16	32	**6461505R**	**6461507R**	**6503305R**	**6503307R**	690 l/min
32	16	40	**6461605R**	**6461607R**	**6503405R**	**6503407R**	980 l/min
40	16	50	**6461705R**	**6461707R**	**6503505R**	**6503507R**	1600 l/min
50	16	63	**6461805R**	**6461807R**	**6503605R**	**6503607R**	3000 l/min
65	10	75	**6461905R**	**6461907R**	**6503705R**	**6503707R**	5500 l/min
80	10	90	**6462005R**	**6462007R**	**6503805R**	**6503807R**	6800 l/min
100	10	110	**6463205R**	**6463207R**	**6503905R**	**6503907R**	8900 l/min

PVC-U BALL VALVE
PVC-U ANSI flanges
fixed flange (FF)

VÁLVULA BOLA PVC-U
bridas ANSI PVC-U
brida fija (FF)

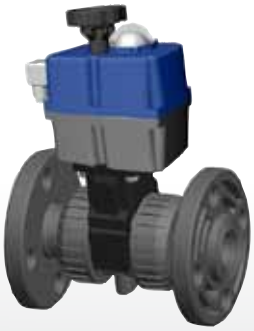
DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	16	½"	**64613AB05R**	**64613AB07R**	**65031AB05R**	**65031AB07R**	190 l/min
20	16	¾"	**64614AB05R**	**64614AB07R**	**65032AB05R**	**65032AB07R**	380 l/min
25	16	1"	**64615AB05R**	**64615AB07R**	**65033AB05R**	**65033AB07R**	690 l/min
32	16	1¼"	**64616AB05R**	**64616AB07R**	**65034AB05R**	**65034AB07R**	980 l/min
40	16	1½"	**64617AB05R**	**64617AB07R**	**65035AB05R**	**65035AB07R**	1600 l/min
50	16	2"	**64618AB05R**	**64618AB07R**	**65036AB05R**	**65036AB07R**	3000 l/min
65	10	2½"	**64619AB05R**	**64619AB07R**	**65037AB05R**	**65037AB07R**	5500 l/min
80	10	3"	**64620AB05R**	**64620AB07R**	**65038AB05R**	**65038AB07R**	6800 l/min
100	10	4"	**64632AB05R**	**64632AB07R**	**65039AB05R**	**65039AB07R**	8900 l/min

PVC-U BALL VALVE
PE100 / SDR11

VÁLVULA BOLA PVC-U
PE100 / SDR11

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	16	20	**6465905R**	**6465907R**	**6513405R**	**6513407R**	190 l/min
20	16	25	**6466005R**	**6466007R**	**6513505R**	**6513507R**	380 l/min
25	16	32	**6466105R**	**6466107R**	**6513605R**	**6513607R**	690 l/min
32	16	40	**6466205R**	**6466207R**	**6513805R**	**6513807R**	980 l/min
40	16	50	**6466305R**	**6466307R**	**6514105R**	**6514107R**	1600 l/min
50	16	63	**6466405R**	**6466407R**	**6514205R**	**6514207R**	3000 l/min
65	10	75	**6466505R**	**6466507R**	**6514305R**	**6514307R**	5500 l/min
80	10	90	**6466605R**	**6466607R**	**6514405R**	**6514407R**	6800 l/min
100	10	110	**6466705R**	**6466707R**	**6514505R**	**6514507R**	8900 l/min

PVC-U BALL VALVE - ELECTRIC ACTUATOR
VÁLVULA BOLA PVC-U - ACTUADOR ELÉCTRICO



PVC-U BALL VALVE
solvent socket ISO/DIN

VÁLVULA BOLA PVC-U
encolar hembra ISO/DIN

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	16	16	**6458309J**	**6458310J**	**6466809J**	**6466810J**	75 l/min
15	16	20	**6458409J**	**6458410J**	**6466909J**	**6466910J**	190 l/min
20	16	25	**6458509J**	**6458510J**	**6467009J**	**6467010J**	380 l/min
25	16	32	**6458609J**	**6458610J**	**6467109J**	**6467110J**	690 l/min
32	16	40	**6458709J**	**6458710J**	**6467209J**	**6467210J**	980 l/min
40	16	50	**6458809J**		**6467309J**		1600 l/min
50	16	63	**6458909J**		**6467409J**		3000 l/min
65	10	75	**6459009J**		**6467509J**		5500 l/min
80	10	90	**6459109J**		**6467609J**		6800 l/min
100	10	110	**6459209J**	**6459210J**	**6467709J**	**6467710J**	8900 l/min

PVC-U BALL VALVE
female thread reinforced

VÁLVULA BOLA PVC-U
roscar hembra reforzado

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	16	⅜"	**6460209J**	**6460210J**	**6467809J**	**6467810J**	75 l/min
15	16	½"	**6460309J**	**6460310J**	**6467909J**	**6467910J**	190 l/min
20	16	¾"	**6460409J**	**6460410J**	**6468009J**	**6468010J**	380 l/min
25	16	1"	**6460509J**	**6460510J**	**6468109J**	**6468110J**	690 l/min
32	16	1¼"	**6460609J**	**6460610J**	**6468209J**	**6468210J**	980 l/min
40	16	1½"	**6460709J**		**6468309J**		1600 l/min
50	16	2"	**6460809J**		**6468409J**		3000 l/min
65	10	2½"	**6460909J**		**6468509J**		5500 l/min
80	10	3"	**6461009J**		**6468609J**		6800 l/min
100	10	4"	**6461109J**	**6461110J**	**6468709J**	**6468710J**	8900 l/min

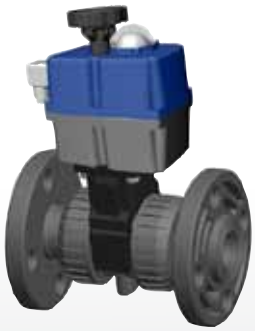
PVC-U BALL VALVE
male solvent socket ISO/DIN

VÁLVULA BOLA PVC-U
encolar macho ISO/DIN

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	16	16	**6686809J**	**6686810J**	**6741309J**	**6741310J**	75 l/min
15	16	20	**6686909J**	**6686910J**	**6741409J**	**6741410J**	190 l/min
20	16	25	**6687009J**	**6687010J**	**6741509J**	**6741510J**	380 l/min
25	16	32	**6687109J**	**6687110J**	**6741609J**	**6741610J**	690 l/min
32	16	40	**6687209J**	**6687210J**	**6741709J**	**6741710J**	980 l/min
40	16	50	**6687309J**		**6741809J**		1600 l/min
50	16	63	**6687409J**		**6741909J**		3000 l/min
65	10	75	**6742809J**		**6743009J**		5500 l/min
80	10	90	**6742909J**		**6743109J**		6800 l/min
100	10	110	**6855409J**	**6855410J**	**6855509J**	**6855510J**	8900 l/min

PVC-U BALL VALVE
PVC-U ISO flanges
loose flange (RF)

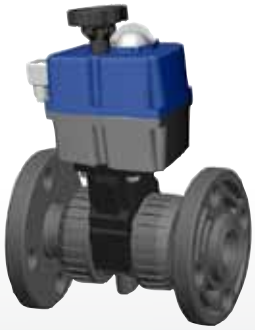
VÁLVULA BOLA PVC-U
bridas ISO PVC-U
brida loca (RF)



DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	16	20	**6461309J**	**6461310J**	**6503109J**	**6503110J**	190 l/min
20	16	25	**6461409J**	**6461410J**	**6503209J**	**6503210J**	380 l/min
25	16	32	**6461509J**	**6461510J**	**6503309J**	**6503310J**	690 l/min
32	16	40	**6461609J**	**6461610J**	**6503409J**	**6503410J**	980 l/min
40	16	50	**6461709J**		**6503509J**		1600 l/min
50	16	63	**6461809J**		**6503609J**		3000 l/min
65	10	75	**6461909J**		**6503709J**		5500 l/min
80	10	90	**6462009J**		**6503809J**		6800 l/min
100	10	110	**6463209J**	**6463210J**	**6503909J**	**6503910J**	8900 l/min

PVC-U BALL VALVE
PVC-U ANSI flanges
fixed flange (FF)

VÁLVULA BOLA PVC-U
bridas ANSI PVC-U
brida fija (FF)



DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	16	½"	**64613AB09J**	**64613AB10J**	**65031AB09J**	**65031AB10J**	190 l/min
20	16	¾"	**64614AB09J**	**64614AB10J**	**65032AB09J**	**65032AB10J**	380 l/min
25	16	1"	**64615AB09J**	**64615AB10J**	**65033AB09J**	**65033AB10J**	690 l/min
32	16	1¼"	**64616AB09J**	**64616AB10J**	**65034AB09J**	**65034AB10J**	980 l/min
40	16	1½"	**64617AB09J**		**65035AB09J**		1600 l/min
50	16	2"	**64618AB09J**		**65036AB09J**		3000 l/min
65	10	2½"	**64619AB09J**		**65037AB09J**		5500 l/min
80	10	3"	**64620AB09J**		**65038AB09J**		6800 l/min
100	10	4"	**64632AB09J**	**64632AB10J**	**65039AB09J**	**65039AB10J**	8900 l/min

PVC-U BALL VALVE
PE100 / SDR11

VÁLVULA BOLA PVC-U
PE100 / SDR11

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	16	20	**6465909J**	**6465910J**	**6513409J**	**6513410J**	190 l/min
20	16	25	**6466009J**	**6466010J**	**6513509J**	**6513510J**	380 l/min
25	16	32	**6466109J**	**6466110J**	**6513609J**	**6513610J**	690 l/min
32	16	40	**6466209J**	**6466210J**	**6513809J**	**6513810J**	980 l/min
40	16	50	**6466309J**		**6514109J**		1600 l/min
50	16	63	**6466409J**		**6514209J**		3000 l/min
65	10	75	**6466509J**		**6514309J**		5500 l/min
80	10	90	**6466609J**		**6514409J**		6800 l/min
100	10	110	**6466709J**	**6466710J**	**6514509J**	**6514510J**	8900 l/min

CPVC BALL VALVE - PNEUMATIC ACTUATOR (NC)

VÁLVULA BOLA CPVC - ACTUADOR NEUMÁTICO (NC)

CPVC BALL VALVE
solvent socket ISO/DIN

VÁLVULA BOLA CPVC
encolar hembra ISO/DIN

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	16	16	**6486405R**	**6486407R**	**6487505R**	**6487507R**	75 l/min
15	16	20	**6486505R**	**6486507R**	**6487605R**	**6487607R**	190 l/min
20	16	25	**6486605R**	**6486607R**	**6487705R**	**6487707R**	380 l/min
25	16	32	**6486705R**	**6486707R**	**6487805R**	**6487807R**	690 l/min
32	16	40	**6486805R**	**6486807R**	**6487905R**	**6487907R**	980 l/min
40	16	50	**6486905R**	**6486907R**	**6488005R**	**6488007R**	1600 l/min
50	16	63	**6487005R**	**6487007R**	**6488105R**	**6488107R**	3000 l/min
65	10	75	**6487105R**	**6487107R**	**6488205R**	**6488207R**	5500 l/min
80	10	90	**6487205R**	**6487207R**	**6488305R**	**6488307R**	6800 l/min
100	10	110	**6487305R**	**6487307R**	**6488405R**	**6488407R**	8900 l/min

CPVC BALL VALVE
female thread reinforced

VÁLVULA BOLA CPVC
roscar hembra reforzado

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	16	⅜"	**6514605R**	**6514607R**	**6515605R**	**6515607R**	75 l/min
15	16	½"	**6514705R**	**6514707R**	**6515705R**	**6515707R**	190 l/min
20	16	¾"	**6514805R**	**6514807R**	**6515805R**	**6515807R**	380 l/min
25	16	1"	**6514905R**	**6514907R**	**6515905R**	**6515907R**	690 l/min
32	16	1¼"	**6515005R**	**6515007R**	**6516005R**	**6516007R**	980 l/min
40	16	1½"	**6515105R**	**6515107R**	**6516105R**	**6516107R**	1600 l/min
50	16	2"	**6515205R**	**6515207R**	**6516205R**	**6516207R**	3000 l/min
65	10	2½"	**6515305R**	**6515307R**	**6516305R**	**6516307R**	5500 l/min
80	10	3"	**6515405R**	**6515407R**	**6516405R**	**6516407R**	6800 l/min
100	10	4"	**6515505R**	**6515507R**	**6516505R**	**6516507R**	8900 l/min

CPVC BALL VALVE
male solvent socket ISO/DIN

VÁLVULA BOLA CPVC
encolar macho ISO/DIN

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	16	16	**6742005R**	**6742007R**	**6742105R**	**6742107R**	75 l/min
15	16	20	**6687505R**	**6687507R**	**6742205R**	**6742207R**	190 l/min
20	16	25	**6687605R**	**6687607R**	**6742305R**	**6742307R**	380 l/min
25	16	32	**6687705R**	**6687707R**	**6742405R**	**6742407R**	690 l/min
32	16	40	**6687805R**	**6687807R**	**6742505R**	**6742507R**	980 l/min
40	16	50	**6687905R**	**6687907R**	**6742605R**	**6742607R**	1600 l/min
50	16	63	**6688005R**	**6688007R**	**6742705R**	**6742707R**	3000 l/min
65	10	75	**6743205R**	**6743207R**	**6743405R**	**6743407R**	5500 l/min
80	10	90	**6743305R**	**6743307R**	**6743505R**	**6743507R**	6800 l/min
100	10	110	**6855605R**	**6855607R**	**6855705R**	**6855707R**	8900 l/min

CPVC BALL VALVE
CPVC ISO flanges
loose flange (RF)

VÁLVULA BOLA CPVC
bridas ISO CPVC
brida loca (RF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	16	20	**6490105R**	**6490107R**	**6485105R**	**6485107R**	190 l/min
20	16	25	**6490205R**	**6490207R**	**6485205R**	**6485207R**	380 l/min
25	16	32	**6490305R**	**6490307R**	**6485305R**	**6485307R**	690 l/min
32	16	40	**6490405R**	**6490407R**	**6485405R**	**6485407R**	980 l/min
40	16	50	**6490505R**	**6490507R**	**6485505R**	**6485507R**	1600 l/min
50	16	63	**6490605R**	**6490607R**	**6485605R**	**6485607R**	3000 l/min
65	10	75	**6490705R**	**6490707R**	**6485705R**	**6485707R**	5500 l/min
80	10	90	**6490805R**	**6490807R**	**6485805R**	**6485807R**	6800 l/min
100	10	110	**6490905R**	**6490907R**	**6485905R**	**6485907R**	8900 l/min

CPVC BALL VALVE
CPVC ANSI flanges
fixed flange (FF)

VÁLVULA BOLA CPVC
bridas ANSI CPVC
brida fija (FF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	16	½"	**64901AB05R**	**64901AB07R**	**64851AB05R**	**64851AB07R**	190 l/min
20	16	¾"	**64902AB05R**	**64902AB07R**	**64852AB05R**	**64852AB07R**	380 l/min
25	16	1"	**64903AB05R**	**64903AB07R**	**64853AB05R**	**64853AB07R**	690 l/min
32	16	1¼"	**64904AB05R**	**64904AB07R**	**64854AB05R**	**64854AB07R**	980 l/min
40	16	1½"	**64905AB05R**	**64905AB07R**	**64855AB05R**	**64855AB07R**	1600 l/min
50	16	2"	**64906AB05R**	**64906AB07R**	**64856AB05R**	**64856AB07R**	3000 l/min
65	10	2½"	**64907AB05R**	**64907AB07R**	**64857AB05R**	**64857AB07R**	5500 l/min
80	10	3"	**64908AB05R**	**64908AB07R**	**64858AB05R**	**64858AB07R**	6800 l/min
100	10	4"	**64909AB05R**	**64909AB07R**	**64859AB05R**	**64859AB07R**	8900 l/min

CPVC BALL VALVE - ELECTRIC ACTUATOR
VÁLVULA BOLA CPVC - ACTUADOR ELÉCTRICO

CPVC BALL VALVE
solvent socket ISO/DIN

VÁLVULA BOLA CPVC
encolar hembra ISO/DIN

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	16	16	**6486409J**	**6486410J**	**6487509J**	**6487510J**	75 l/min
15	16	20	**6486509J**	**6486510J**	**6487609J**	**6487610J**	190 l/min
20	16	25	**6486609J**	**6486610J**	**6487709J**	**6487710J**	380 l/min
25	16	32	**6486709J**	**6486710J**	**6487809J**	**6487810J**	690 l/min
32	16	40	**6486809J**	**6486810J**	**6487909J**	**6487910J**	980 l/min
40	16	50	**6486909J**		**6488009J**		1600 l/min
50	16	63	**6487009J**		**6488109J**		3000 l/min
65	10	75	**6487109J**		**6488209J**		5500 l/min
80	10	90	**6487209J**		**6488309J**		6800 l/min
100	10	110	**6487309J**	**6487310J**	**6488409J**	**6488410J**	8900 l/min

CPVC BALL VALVE
female thread reinforced

VÁLVULA BOLA CPVC
roscar hembra reforzado

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	16	⅜"	**6514609J**	**6514610J**	**6515609J**	**6515610J**	75 l/min
15	16	½"	**6514709J**	**6514710J**	**6515709J**	**6515710J**	190 l/min
20	16	¾"	**6514809J**	**6514810J**	**6515809J**	**6515810J**	380 l/min
25	16	1"	**6514909J**	**6514910J**	**6515909J**	**6515910J**	690 l/min
32	16	1¼"	**6515009J**	**6515010J**	**6516009J**	**6516010J**	980 l/min
40	16	1½"	**6515109J**		**6516109J**		1600 l/min
50	16	2"	**6515209J**		**6516209J**		3000 l/min
65	10	2½"	**6515309J**		**6516309J**		5500 l/min
80	10	3"	**6515409J**		**6516409J**		6800 l/min
100	10	4"	**6515509J**	**6515510J**	**6516509J**	**6516510J**	8900 l/min

CPVC BALL VALVE
male solvent socket ISO/DIN

VÁLVULA BOLA CPVC
encolar macho ISO/DIN

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	16	16	**6742009J**	**6742010J**	**6742109J**	**6742110J**	75 l/min
15	16	20	**6687509J**	**6687510J**	**6742209J**	**6742210J**	190 l/min
20	16	25	**6687609J**	**6687610J**	**6742309J**	**6742310J**	380 l/min
25	16	32	**6687709J**	**6687710J**	**6742409J**	**6742410J**	690 l/min
32	16	40	**6687809J**	**6687810J**	**6742509J**	**6742510J**	980 l/min
40	16	50	**6687909J**		**6742609J**		1600 l/min
50	16	63	**6688009J**		**6742709J**		3000 l/min
65	10	75	**6743209J**		**6743409J**		5500 l/min
80	10	90	**6743309J**		**6743509J**		6800 l/min
100	10	110	**6855609J**	**6855610J**	**6855709J**	**6855710J**	8900 l/min

CPVC BALL VALVE
CPVC ISO flanges
loose flange (RF)

VÁLVULA BOLA CPVC
bridas ISO CPVC
brida loca (RF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	16	20	**6490109J**	**6490110J**	**6485109J**	**6485110J**	190 l/min
20	16	25	**6490209J**	**6490210J**	**6485209J**	**6485210J**	380 l/min
25	16	32	**6490309J**	**6490310J**	**6485309J**	**6485310J**	690 l/min
32	16	40	**6490409J**	**6490410J**	**6485409J**	**6485410J**	980 l/min
40	16	50	**6490509J**		**6485509J**		1600 l/min
50	16	63	**6490609J**		**6485609J**		3000 l/min
65	10	75	**6490709J**		**6485709J**		5500 l/min
80	10	90	**6490809J**		**6485809J**		6800 l/min
100	10	110	**6490909J**	**6490910J**	**6485909J**	**6485910J**	8900 l/min

CPVC BALL VALVE
CPVC ANSI flanges
fixed flange (FF)

VÁLVULA BOLA CPVC
bridas ANSI CPVC
brida fija (FF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	16	½"	**64901AB09J**	**64901AB10J**	**64851AB09J**	**64851AB10J**	190 l/min
20	16	¾"	**64902AB09J**	**64902AB10J**	**64852AB09J**	**64852AB10J**	380 l/min
25	16	1"	**64903AB09J**	**64903AB10J**	**64853AB09J**	**64853AB10J**	690 l/min
32	16	1¼"	**64904AB09J**	**64904AB10J**	**64854AB09J**	**64854AB10J**	980 l/min
40	16	1½"	**64905AB09J**		**64855AB09J**		1600 l/min
50	16	2"	**64906AB09J**		**64856AB09J**		3000 l/min
65	10	2½"	**64907AB09J**		**64857AB09J**		5500 l/min
80	10	3"	**64908AB09J**		**64858AB09J**		6800 l/min
100	10	4"	**64909AB09J**	**64909AB10J**	**64859AB09J**	**64859AB10J**	8900 l/min

PP-H BALL VALVE - PNEUMATIC ACTUATOR (NC)
VÁLVULA BOLA PP-H - ACTUADOR NEUMÁTICO (NC)

PP-H BALL VALVE
socket fusion

VÁLVULA BOLA PP-H
termofusión

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	10	16	**6491005R**	**6491007R**	**6516605R**	**6516607R**	75 l/min
15	10	20	**6491105R**	**6491107R**	**6516705R**	**6516707R**	190 l/min
20	10	25	**6491205R**	**6491207R**	**6516805R**	**6516807R**	380 l/min
25	10	32	**6491305R**	**6491307R**	**6516905R**	**6516907R**	690 l/min
32	10	40	**6491405R**	**6491407R**	**6517005R**	**6517007R**	980 l/min
40	10	50	**6491505R**	**6491507R**	**6517105R**	**6517107R**	1600 l/min
50	10	63	**6491605R**	**6491607R**	**6517205R**	**6517207R**	3000 l/min
65	6	75	**6692705R**	**6692707R**	**6754205R**	**6754207R**	5500 l/min
80	6	90	**6692805R**	**6692807R**	**6754305R**	**6754307R**	6800 l/min
100	6	110	**6850905R**	**6850907R**	**6851005R**	**6851007R**	8900 l/min

PP-H BALL VALVE
female thread reinforced

VÁLVULA BOLA PP-H
roscar hembra reforzado

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	10	⅜"	**6491705R**	**6491707R**	**6517305R**	**6517307R**	75 l/min
15	10	½"	**6491805R**	**6491807R**	**6517405R**	**6517407R**	190 l/min
20	10	¾"	**6491905R**	**6491907R**	**6517505R**	**6517507R**	380 l/min
25	10	1"	**6492005R**	**6492007R**	**6517605R**	**6517607R**	690 l/min
32	10	1¼"	**6492105R**	**6492107R**	**6517705R**	**6517707R**	980 l/min
40	10	1½"	**6492205R**	**6492207R**	**6517805R**	**6517807R**	1600 l/min
50	10	2"	**6492305R**	**6492307R**	**6517905R**	**6517907R**	3000 l/min
65	6	2½"	**6855805R**	**6855807R**	**6856405R**	**6856407R**	5500 l/min
80	6	3"	**6856005R**	**6856007R**	**6856505R**	**6856507R**	6800 l/min
100	6	4"	**6856205R**	**6856207R**	**6856605R**	**6856607R**	8900 l/min

PP-H BALL VALVE
butt welding
PP-H / SDR11

VÁLVULA BOLA PP-H
soldadura a tope
PP-H / SDR11

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	10	20	**6462205R**	**6462207R**	**6453905R**	**6453907R**	190 l/min
20	10	25	**6462305R**	**6462307R**	**6484605R**	**6484607R**	380 l/min
25	10	32	**6462405R**	**6462407R**	**6484705R**	**6484707R**	690 l/min
32	10	40	**6462505R**	**6462507R**	**6484805R**	**6484807R**	980 l/min
40	10	50	**6462605R**	**6462607R**	**6484905R**	**6484907R**	1600 l/min
50	10	63	**6462705R**	**6462707R**	**6485005R**	**6485007R**	3000 l/min
65	6	75	**6856805R**	**6856807R**	**6857105R**	**6857107R**	5500 l/min
80	6	90	**6856905R**	**6856907R**	**6857205R**	**6857207R**	6800 l/min
100	6	110	**6857005R**	**6857007R**	**6857305R**	**6857307R**	8900 l/min

PP-H BALL VALVE
butt welding
PE100 / SDR11

VÁLVULA BOLA PP-H
soldadura a tope
PE100 / SDR11

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	10	20	**6506705R**	**6506707R**	**6518105R**	**6518107R**	190 l/min
20	10	25	**6506805R**	**6506807R**	**6518205R**	**6518207R**	380 l/min
25	10	32	**6518005R**	**6518007R**	**6518305R**	**6518307R**	690 l/min
32	10	40	**6506905R**	**6506907R**	**6518405R**	**6518407R**	980 l/min
40	10	50	**6507005R**	**6507007R**	**6518505R**	**6518507R**	1600 l/min
50	10	63	**6507105R**	**6507107R**	**6518605R**	**6518607R**	3000 l/min
65	6	75	**6747305R**	**6747307R**	**6857505R**	**6857507R**	5500 l/min
80	6	90	**6747405R**	**6747407R**	**6857605R**	**6857607R**	6800 l/min
100	6	110	**6857405R**	**6857407R**	**6857705R**	**6857707R**	8900 l/min

PP-H BALL VALVE
PP-H ISO flanges
fixed flange (FF)

VÁLVULA BOLA PP-H
bridas ISO PP-H
brida fija (FF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	10	20	**6665205R**	**6665207R**	**6665805R**	**6665807R**	190 l/min
20	10	25	**6665305R**	**6665307R**	**6665905R**	**6665907R**	380 l/min
25	10	32	**6665405R**	**6665407R**	**6666005R**	**6666007R**	690 l/min
32	10	40	**6665505R**	**6665507R**	**6666105R**	**6666107R**	980 l/min
40	10	50	**6665605R**	**6665607R**	**6666205R**	**6666207R**	1600 l/min
50	10	63	**6665705R**	**6665707R**	**6666305R**	**6666307R**	3000 l/min
65	6	75	**6727605R**	**6727607R**	**6727705R**	**6727707R**	5500 l/min
80	6	90	**6727805R**	**6727807R**	**6727905R**	**6727907R**	6800 l/min
100	6	110	**6848205R**	**6848207R**	**6848305R**	**6848307R**	8900 l/min

PP-H BALL VALVE
PP steel coated ANSI flanges
loose flange (RF)

VÁLVULA BOLA PP-H
bridas ANSI PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	10	½"	**66652AB05R**	**66652AB07R**	**66658AB05R**	**66658AB07R**	190 l/min
20	10	¾"	**66653AB05R**	**66653AB07R**	**66659AB05R**	**66659AB07R**	380 l/min
25	10	1"	**66654AB05R**	**66654AB07R**	**66660AB05R**	**66660AB07R**	690 l/min
32	10	1¼"	**66655AB05R**	**66655AB07R**	**66661AB05R**	**66661AB07R**	980 l/min
40	10	1½"	**66656AB05R**	**66656AB07R**	**66662AB05R**	**66662AB07R**	1600 l/min
50	10	2"	**66657AB05R**	**66657AB07R**	**66663AB05R**	**66663AB07R**	3000 l/min
65	6	2½"	**67276AB05R**	**67276AB07R**	**67277AB05R**	**67277AB07R**	5500 l/min
80	6	3"	**67278AB05R**	**67278AB07R**	**67279AB05R**	**67279AB07R**	6800 l/min
100	6	4"	**68482AB05R**	**68482AB07R**	**68483AB05R**	**68483AB07R**	8900 l/min

PP-H BALL VALVE - ELECTRIC ACTUATOR
VÁLVULA BOLA PP-H - ACTUADOR ELÉCTRICO

PP-H BALL VALVE
socket fusion

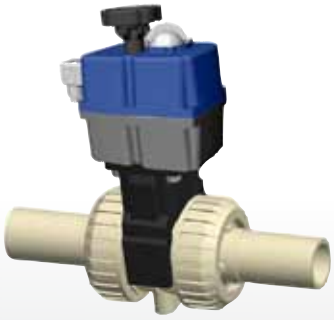
VÁLVULA BOLA PP-H
termofusión

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	10	16	6491009J	6491010J	6516609J	6516610J	75 l/min
15	10	20	6491109J	6491110J	6516709J	6516710J	190 l/min
20	10	25	6491209J	6491210J	6516809J	6516810J	380 l/min
25	10	32	6491309J	6491310J	6516909J	6516910J	690 l/min
32	10	40	6491409J	6491410J	6517009J	6517010J	980 l/min
40	10	50	6491509J		6517109J		1600 l/min
50	10	63	6491609J		6517209J		3000 l/min
65	6	75	6692709J		6754209J		5500 l/min
80	6	90	6692809J		6754309J		6800 l/min
100	6	110	6850909J	6850910J	6851009J	6851010J	8900 l/min

PP-H BALL VALVE
female thread reinforced

VÁLVULA BOLA PP-H
roscar hembra reforzado

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	10	⅜"	6491709J	6491710J	6517309J	6517310J	75 l/min
15	10	½"	6491809J	6491810J	6517409J	6517410J	190 l/min
20	10	¾"	6491909J	6491910J	6517509J	6517510J	380 l/min
25	10	1"	6492009J	6492010J	6517609J	6517610J	690 l/min
32	10	1¼"	6492109J	6492110J	6517709J	6517710J	980 l/min
40	10	1½"	6492209J		6517809J		1600 l/min
50	10	2"	6492309J		6517909J		3000 l/min
65	6	2½"	6855809J		6856409J		5500 l/min
80	6	3"	6856009J		6856509J		6800 l/min
100	6	4"	6856209J	6856210J	6856609J	6856610J	8900 l/min



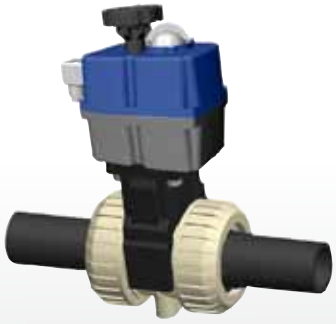
PP-H BALL VALVE
butt welding
PP-H / SDR11

VÁLVULA BOLA PP-H
soldadura a tope
PP-H / SDR11

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	10	20	6462209J	6462210J	6453909J	6453910J	190 l/min
20	10	25	6462309J	6462310J	6484609J	6484610J	380 l/min
25	10	32	6462409J	6462410J	6484709J	6484710J	690 l/min
32	10	40	6462509J	6462510J	6484809J	6484810J	980 l/min
40	10	50	6462609J		6484909J		1600 l/min
50	10	63	6462709J		6485009J		3000 l/min
65	6	75	6856809J		6857109J		5500 l/min
80	6	90	6856909J		6857209J		6800 l/min
100	6	110	6857009J	6857010J	6857309J	6857310J	8900 l/min

PP-H BALL VALVE
butt welding
PE100 / SDR11

VÁLVULA BOLA PP-H
soldadura a tope
PE100 / SDR11



DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	10	20	6506709J	6506710J	6518109J	6518110J	190 l/min
20	10	25	6506809J	6506810J	6518209J	6518210J	380 l/min
25	10	32	6518009J	6518010J	6518309J	6518310J	690 l/min
32	10	40	6506909J	6506910J	6518409J	6518410J	980 l/min
40	10	50	6507009J		6518509J		1600 l/min
50	10	63	6507109J		6518609J		3000 l/min
65	6	75	6747309J		6857509J		5500 l/min
80	6	90	6747409J		6857609J		6800 l/min
100	6	110	6857409J	6857410J	6857709J	6857710J	8900 l/min

PP-H BALL VALVE
PP-H ISO flanges
fixed flange (FF)

VÁLVULA BOLA PP-H
bridas ISO PP-H
brida fija (FF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	10	20	6665209J	6665210J	6665809J	6665810J	190 l/min
20	10	25	6665309J	6665310J	6665909J	6665910J	380 l/min
25	10	32	6665409J	6665410J	6666009J	6666010J	690 l/min
32	10	40	6665509J	6665510J	6666109J	6666110J	980 l/min
40	10	50	6665609J		6666209J		1600 l/min
50	10	63	6665709J		6666309J		3000 l/min
65	6	75	6727609J		6727709J		5500 l/min
80	6	90	6727809J		6727909J		6800 l/min
100	6	110	6848209J	6848210J	6848309J	6848310J	8900 l/min

PP-H BALL VALVE
PP steel coated ANSI flanges
loose flange (RF)

VÁLVULA BOLA PP-H
bridas ANSI PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	10	½"	66652AB09J	66652AB10J	66658AB09J	66658AB10J	190 l/min
20	10	¾"	66653AB09J	66653AB10J	66659AB09J	66659AB10J	380 l/min
25	10	1"	66654AB09J	66654AB10J	66660AB09J	66660AB10J	690 l/min
32	10	1¼"	66655AB09J	66655AB10J	66661AB09J	66661AB10J	980 l/min
40	10	1½"	66656AB09J		66662AB09J		1600 l/min
50	10	2"	66657AB09J		66663AB09J		3000 l/min
65	6	2½"	67276AB09J		67277AB09J		5500 l/min
80	6	3"	67278AB09J		67279AB09J		6800 l/min
100	6	4"	68482AB09J	68482AB10J	68483AB09J	68483AB10J	8900 l/min

PVDF BALL VALVE - PNEUMATIC ACTUATOR (NC)

VÁLVULA BOLA PVDF - ACTUADOR NEUMÁTICO (NC)

PVDF BALL VALVE
socket fusion

VÁLVULA BOLA PVDF
termofusión

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	16	16	**6492405R**	**6492407R**	**6441505R**	**6441507R**	75 l/min
15	16	20	**6492505R**	**6492507R**	**6441605R**	**6441607R**	190 l/min
20	16	25	**6492605R**	**6492607R**	**6441705R**	**6441707R**	380 l/min
25	16	32	**6492705R**	**6492707R**	**6441805R**	**6441807R**	690 l/min
32	16	40	**6492805R**	**6492807R**	**6441905R**	**6441907R**	980 l/min
40	16	50	**6492905R**	**6492907R**	**6442005R**	**6442007R**	1600 l/min
50	16	63	**6493005R**	**6493007R**	**6442105R**	**6442107R**	3000 l/min
65	10	75	**6863205R**	**6863207R**	**6826605R**	**6826607R**	5500 l/min
80	10	90	**6863305R**	**6863307R**	**6826705R**	**6826707R**	6800 l/min
100	10	110	**6932005R**	**6932007R**	**6932105R**	**6932107R**	8900 l/min

PVDF BALL VALVE
female thread reinforced

VÁLVULA BOLA PVDF
roscar hembra reforzado

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	16	16	**6624805R**	**6624807R**	**6631705R**	**6631707R**	75 l/min
15	16	20	**6624905R**	**6624907R**	**6631805R**	**6631807R**	190 l/min
20	16	25	**6625005R**	**6625007R**	**6631905R**	**6631907R**	380 l/min
25	16	32	**6625105R**	**6625107R**	**6632005R**	**6632007R**	690 l/min
32	16	40	**6625205R**	**6625207R**	**6632105R**	**6632107R**	980 l/min
40	16	50	**6625305R**	**6625307R**	**6632205R**	**6632207R**	1600 l/min
50	16	63	**6625405R**	**6625407R**	**6632305R**	**6632307R**	3000 l/min
65	10	75	**6932205R**	**6932207R**	**6932605R**	**6932607R**	5500 l/min
80	10	90	**6932305R**	**6932307R**	**6932805R**	**6932807R**	6800 l/min
100	10	110	**6932405R**	**6932407R**	**6932905R**	**6932907R**	8900 l/min

PVDF BALL VALVE
butt welding
PVDF / SDR11

VÁLVULA BOLA PVDF
soldadura a tope
PVDF / SDR11

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	16	20	**6717505R**	**6717507R**	**6718105R**	**6718107R**	190 l/min
20	16	25	**6717605R**	**6717607R**	**6718205R**	**6718207R**	380 l/min
25	16	32	**6717705R**	**6717707R**	**6718305R**	**6718307R**	690 l/min
32	16	40	**6717805R**	**6717807R**	**6718405R**	**6718407R**	980 l/min
40	16	50	**6717905R**	**6717907R**	**6718505R**	**6718507R**	1600 l/min
50	16	63	**6718005R**	**6718007R**	**6718605R**	**6718607R**	3000 l/min
65	10	75	**6933005R**	**6933007R**	**6933305R**	**6933307R**	5500 l/min
80	10	90	**6933105R**	**6933107R**	**6933405R**	**6933407R**	6800 l/min
100	10	110	**6933205R**	**6933207R**	**6933605R**	**6933607R**	8900 l/min

PVDF BALL VALVE
PP steel coated ISO flanges
loose flange (RF)

VÁLVULA BOLA PVDF
bridas ISO PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	16	20	**6788305R**	**6788307R**	**6599005R**	**6599007R**	190 l/min
20	16	25	**6788405R**	**6788407R**	**6599105R**	**6599107R**	380 l/min
25	16	32	**6788505R**	**6788507R**	**6599205R**	**6599207R**	690 l/min
32	16	40	**6788605R**	**6788607R**	**6599305R**	**6599307R**	980 l/min
40	16	50	**6788705R**	**6788707R**	**6599405R**	**6599407R**	1600 l/min
50	16	63	**6788805R**	**6788807R**	**6599505R**	**6599507R**	3000 l/min
65	10	75	**6846105R**	**6846107R**	**6846205R**	**6846207R**	5500 l/min
80	10	90	**6846305R**	**6846307R**	**6846405R**	**6846407R**	6800 l/min
100	10	110	**6847505R**	**6847507R**	**6847605R**	**6847607R**	8900 l/min

PVDF BALL VALVE
PP steel coated ANSI flanges
loose flange (RF)

VÁLVULA BOLA PVDF
bridas ANSI PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	16	½"	**67883AB05R**	**67883AB07R**	**65990AB05R**	**65990AB07R**	190 l/min
20	16	¾"	**67884AB05R**	**67884AB07R**	**65991AB05R**	**65991AB07R**	380 l/min
25	16	1"	**67885AB05R**	**67885AB07R**	**65992AB05R**	**65992AB07R**	690 l/min
32	16	1¼"	**67886AB05R**	**67886AB07R**	**65993AB05R**	**65993AB07R**	980 l/min
40	16	1½"	**67887AB05R**	**67887AB07R**	**65994AB05R**	**65994AB07R**	1600 l/min
50	16	2"	**67888AB05R**	**67888AB07R**	**65995AB05R**	**65995AB07R**	3000 l/min
65	10	2½"	**68461AB05R**	**68461AB07R**	**68462AB05R**	**68462AB07R**	5500 l/min
80	10	3"	**68463AB05R**	**68463AB07R**	**68464AB05R**	**68464AB07R**	6800 l/min
100	10	4"	**68475AB05R**	**68475AB07R**	**68476AB05R**	**68476AB07R**	8900 l/min

PVDF BALL VALVE - ELECTRIC ACTUATION
VÁLVULA BOLA PVDF ACTUADOR ELÉCTRICO

PVDF BALL VALVE
socket fusion

VÁLVULA BOLA PVDF
termofusión

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	16	16	**6492409J**	**6492410J**	**6441509J**	**6441510J**	75 l/min
15	16	20	**6492509J**	**6492510J**	**6441609J**	**6441610J**	190 l/min
20	16	25	**6492609J**	**6492610J**	**6441709J**	**6441710J**	380 l/min
25	16	32	**6492709J**	**6492710J**	**6441809J**	**6441810J**	690 l/min
32	16	40	**6492809J**	**6492810J**	**6441909J**	**6441910J**	980 l/min
40	16	50	**6492909J**	**6492909J**	**6442009J**	**6442009J**	1600 l/min
50	16	63	**6493009J**	**6493009J**	**6442109J**	**6442109J**	3000 l/min
65	10	75	**6863209J**	**6863209J**	**6826609J**	**6826609J**	5500 l/min
80	10	90	**6863309J**	**6863309J**	**6826709J**	**6826709J**	6800 l/min
100	10	110	**6932009J**	**6932010J**	**6932109J**	**6932110J**	8900 l/min

PVDF BALL VALVE
female thread reinforced

VÁLVULA BOLA PVDF
roscar hembra reforzado

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	16	16	**6624809J**	**6624810J**	**6631709J**	**6631710J**	75 l/min
15	16	20	**6624909J**	**6624910J**	**6631809J**	**6631810J**	190 l/min
20	16	25	**6625009J**	**6625010J**	**6631909J**	**6631910J**	380 l/min
25	16	32	**6625109J**	**6625110J**	**6632009J**	**6632010J**	690 l/min
32	16	40	**6625209J**	**6625210J**	**6632109J**	**6632110J**	980 l/min
40	16	50	**6625309J**	**6625309J**	**6632209J**	**6632209J**	1600 l/min
50	16	63	**6625409J**	**6625409J**	**6632309J**	**6632309J**	3000 l/min
65	10	75	**6932209J**	**6932209J**	**6932609J**	**6932609J**	5500 l/min
80	10	90	**6932309J**	**6932309J**	**6932809J**	**6932809J**	6800 l/min
100	10	110	**6932409J**	**6932410J**	**6932909J**	**6932910J**	8900 l/min

PVDF BALL VALVE
butt welding
PVDF / SDR11

VÁLVULA BOLA PVDF
soldadura a tope
PVDF / SDR11

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	16	20	**6717509J**	**6717510J**	**6718109J**	**6718110J**	190 l/min
20	16	25	**6717609J**	**6717610J**	**6718209J**	**6718210J**	380 l/min
25	16	32	**6717709J**	**6717710J**	**6718309J**	**6718310J**	690 l/min
32	16	40	**6717809J**	**6717810J**	**6718409J**	**6718410J**	980 l/min
40	16	50	**6717909J**	**6717909J**	**6718509J**	**6718509J**	1600 l/min
50	16	63	**6718009J**	**6718009J**	**6718609J**	**6718609J**	3000 l/min
65	10	75	**6933009J**	**6933009J**	**6933309J**	**6933309J**	5500 l/min
80	10	90	**6933109J**	**6933109J**	**6933409J**	**6933409J**	6800 l/min
100	10	110	**6933209J**	**6933210J**	**6933609J**	**6933610J**	8900 l/min

PVDF BALL VALVE
PP steel coated ISO flanges
loose flange (RF)

VÁLVULA BOLA PVDF
bridas ISO PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	16	20	**6788309J**	**6788310J**	**6599009J**	**6599010J**	190 l/min
20	16	25	**6788409J**	**6788410J**	**6599109J**	**6599110J**	380 l/min
25	16	32	**6788509J**	**6788510J**	**6599209J**	**6599210J**	690 l/min
32	16	40	**6788609J**	**6788610J**	**6599309J**	**6599310J**	980 l/min
40	16	50	**6788709J**	**6788709J**	**6599409J**	**6599409J**	1600 l/min
50	16	63	**6788809J**	**6788809J**	**6599509J**	**6599509J**	3000 l/min
65	10	75	**6846109J**	**6846109J**	**6846209J**	**6846209J**	5500 l/min
80	10	90	**6846309J**	**6846309J**	**6846409J**	**6846409J**	6800 l/min
100	10	110	**6847509J**	**6847510J**	**6847609J**	**6847610J**	8900 l/min

PVDF BALL VALVE
PP steel coated ANSI flanges
loose flange (RF)

VÁLVULA BOLA PVDF
bridas ANSI PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	16	½"	**67883AB09J**	**67883AB10J**	**65990AB09J**	**65990AB10J**	190 l/min
20	16	¾"	**67884AB09J**	**67884AB10J**	**65991AB09J**	**65991AB10J**	380 l/min
25	16	1"	**67885AB09J**	**67885AB10J**	**65992AB09J**	**65992AB10J**	690 l/min
32	16	1¼"	**67886AB09J**	**67886AB10J**	**65993AB09J**	**65993AB10J**	980 l/min
40	16	1½"	**67887AB09J**	**67887AB09J**	**65994AB09J**	**65994AB09J**	1600 l/min
50	16	2"	**67888AB09J**	**67888AB09J**	**65995AB09J**	**65995AB09J**	3000 l/min
65	10	2½"	**68461AB09J**	**68461AB09J**	**68462AB09J**	**68462AB09J**	5500 l/min
80	10	3"	**68463AB09J**	**68463AB09J**	**68464AB09J**	**68464AB09J**	6800 l/min
100	10	4"	**68475AB09J**	**68475AB10J**	**68476AB09J**	**68476AB10J**	8900 l/min

ABS BALL VALVE - PNEUMATIC ACTUATOR (NC)

VÁLVULA BOLA ABS - ACTUADOR NEUMÁTICO (NC)

ABS BALL VALVE
solvent socket ISO/DIN

VÁLVULA BOLA ABS
encolar hembra ISO/DIN

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	10	16	**6518705R**	**6518707R**	**6519405R**	**6519407R**	75 l/min
15	10	20	**6518805R**	**6518807R**	**6519505R**	**6519507R**	190 l/min
20	10	25	**6518905R**	**6518907R**	**6519605R**	**6519607R**	380 l/min
25	10	32	**6519005R**	**6519007R**	**6519705R**	**6519707R**	690 l/min
32	10	40	**6519105R**	**6519107R**	**6519805R**	**6519807R**	980 l/min
40	10	50	**6519205R**	**6519207R**	**6519905R**	**6519907R**	1600 l/min
50	10	63	**6519305R**	**6519307R**	**6520005R**	**6520007R**	3000 l/min
65	6	75	**6863405R**	**6863407R**	**6863705R**	**6863707R**	5500 l/min
80	6	90	**6863505R**	**6863507R**	**6863805R**	**6863807R**	6800 l/min
100	6	110	**6863605R**	**6863607R**	**6863905R**	**6863907R**	8900 l/min

ABS BALL VALVE
female thread reinforced

VÁLVULA BOLA ABS
roscar hembra reforzado

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
10	10	⅜"	**6520105R**	**6520107R**	**6521405R**	**6521407R**	75 l/min
15	10	½"	**6520205R**	**6520207R**	**6520805R**	**6520807R**	190 l/min
20	10	¾"	**6520305R**	**6520307R**	**6520905R**	**6520907R**	380 l/min
25	10	1"	**6520405R**	**6520407R**	**6521005R**	**6521007R**	690 l/min
32	10	1¼"	**6520505R**	**6520507R**	**6521105R**	**6521107R**	980 l/min
40	10	1½"	**6520605R**	**6520607R**	**6521205R**	**6521207R**	1600 l/min
50	10	2"	**6520705R**	**6520707R**	**6521305R**	**6521307R**	3000 l/min
65	6	2½"	**6949005R**	**6949007R**	**6949305R**	**6949307R**	5500 l/min
80	6	3"	**6949105R**	**6949107R**	**6949405R**	**6949407R**	6800 l/min
100	6	4"	**6949205R**	**6949207R**	**6949605R**	**6949607R**	8900 l/min

ABS BALL VALVE
butt welding
PE100 / SDR11

VÁLVULA BOLA ABS
soldadura a tope
PE100 / SDR11

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
15	10	20	**6789005R**	**6789007R**	**6789705R**	**6789707R**	190 l/min
20	10	25	**6789105R**	**6789107R**	**6789805R**	**6789807R**	380 l/min
25	10	32	**6789205R**	**6789207R**	**6789905R**	**6789907R**	690 l/min
32	10	40	**6789305R**	**6789307R**	**6790005R**	**6790007R**	980 l/min
40	10	50	**6789405R**	**6789407R**	**6790105R**	**6790107R**	1600 l/min
50	10	63	**6789505R**	**6789507R**	**6790205R**	**6790207R**	3000 l/min
65	6	75	**6949705R**	**6949707R**	**6950005R**	**6950007R**	5500 l/min
80	6	90	**6949805R**	**6949807R**	**6950105R**	**6950107R**	6800 l/min
100	6	110	**6949905R**	**6949907R**	**6950205R**	**6950207R**	8900 l/min

ABS BALL VALVE - ELECTRIC ACTUATOR
VÁLVULA BOLA ABS - ACTUADOR ELÉCTRICO

ABS BALL VALVE
solvent socket ISO/DIN

VÁLVULA BOLA ABS
encolar hembra ISO/DIN

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	10	16	**6518709J**	**6518710J**	**6519409J**	**6519410J**	75 l/min
15	10	20	**6518809J**	**6518810J**	**6519509J**	**6519510J**	190 l/min
20	10	25	**6518909J**	**6518910J**	**6519609J**	**6519610J**	380 l/min
25	10	32	**6519009J**	**6519010J**	**6519709J**	**6519710J**	690 l/min
32	10	40	**6519109J**	**6519110J**	**6519809J**	**6519810J**	980 l/min
40	10	50	**6519209J**	**6519209J**	**6519909J**	**6519909J**	1600 l/min
50	10	63	**6519309J**	**6519309J**	**6520009J**	**6520009J**	3000 l/min
65	6	75	**6863409J**	**6863409J**	**6863709J**	**6863709J**	5500 l/min
80	6	90	**6863509J**	**6863509J**	**6863809J**	**6863809J**	6800 l/min
100	6	110	**6863609J**	**6863610J**	**6863909J**	**6863910J**	8900 l/min

ABS BALL VALVE
female thread reinforced

VÁLVULA BOLA ABS
roscar hembra reforzado

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
10	10	⅜"	**6520109J**	**6520110J**	**6521409J**	**6521410J**	75 l/min
15	10	½"	**6520209J**	**6520210J**	**6520809J**	**6520810J**	190 l/min
20	10	¾"	**6520309J**	**6520310J**	**6520909J**	**6520910J**	380 l/min
25	10	1"	**6520409J**	**6520410J**	**6521009J**	**6521010J**	690 l/min
32	10	1¼"	**6520509J**	**6520510J**	**6521109J**	**6521110J**	980 l/min
40	10	1½"	**6520609J**	**6520609J**	**6521209J**	**6521209J**	1600 l/min
50	10	2"	**6520709J**	**6520709J**	**6521309J**	**6521309J**	3000 l/min
65	6	2½"	**6949009J**	**6949009J**	**6949309J**	**6949309J**	5500 l/min
80	6	3"	**6949109J**	**6949109J**	**6949409J**	**6949409J**	6800 l/min
100	6	4"	**6949209J**	**6949210J**	**6949609J**	**6949610J**	8900 l/min

ABS BALL VALVE
butt welding
PE100 / SDR11

VÁLVULA BOLA ABS
soldadura a tope
PE100 / SDR11

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
15	10	20	**6789009J**	**6789010J**	**6789709J**	**6789710J**	190 l/min
20	10	25	**6789109J**	**6789110J**	**6789809J**	**6789810J**	380 l/min
25	10	32	**6789209J**	**6789210J**	**6789909J**	**6789910J**	690 l/min
32	10	40	**6789309J**	**6789310J**	**6790009J**	**6790010J**	980 l/min
40	10	50	**6789409J**	**6789409J**	**6790109J**	**6790109J**	1600 l/min
50	10	63	**6789509J**	**6789509J**	**6790209J**	**6790209J**	3000 l/min
65	6	75	**6949709J**	**6949709J**	**6950009J**	**6950009J**	5500 l/min
80	6	90	**6949809J**	**6949809J**	**6950109J**	**6950109J**	6800 l/min
100	6	110	**6949909J**	**6949910J**	**6950209J**	**6950210J**	8900 l/min

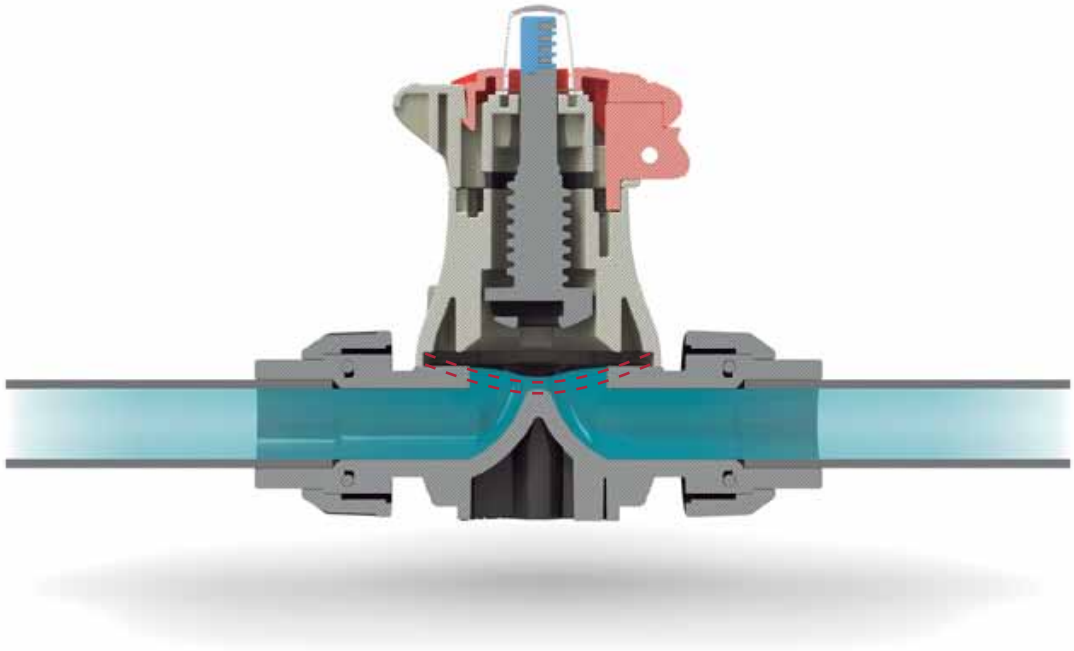
PVC-U DIAPHRAGM VALVE EXTREME SERIES

VÁLVULA DIAFRAGMA PVC-U SERIE EXTREME

INTRODUCTION
INTRODUCCIÓN

■ *Diaphragm valve for regulating flow in fluid handling systems.*
■ *The valve is available with a PVC-U, CPVC or PP-H body and with EPDM or FPM membranes. The choice of materials will depend on the type of liquid handled by the system and the operating temperature.*
■ *See the chemical resistance chart available at our website and the pressure/temperature diagram contained in this catalogue for further information.*
■ *The colour of the indicator at the end of the stem indicates the membrane material: blue = EPDM, green = FPM.*

■ *Válvula de diafragma para la regulación del caudal en los sistemas de conducción de fluidos.*
■ *La válvula está disponible con cuerpos fabricados en PVC-U, CPVC y PP-H y con membranas de EPDM y FPM. La elección*
del material depende del tipo de fluido a transportar y de la temperatura de trabajo
■ *Consulte las tablas de resitencia química disponible en nuestra web y el diagrama de presión / temperatura de este mismo catálogo.*
■ *El color del indicador del extremo del eje señala el material de la membrana: azul indica EPDM, verde indica FPM.*



Advantages
Ventajas

■ Valve specially designed for the flow control with maximum precision.
■ Use of the open/close function in industrial applications or liquids with suspended particles thanks to its membrane closing.
■ Locking safety system in any opening position and possibility of padlock closing.
■ Valve with XX turns of the ahndwheel.
■ Minimum operating torque and easy operation thanks to the turning opening system.
■ Possibility of manual or pneumatically actuated valve.
■ They offer a perfect water tightness (internally and externally).
■ They offer a perfect corrosion resistance as they are manufactured completely in technical plastics.

■ *Vávulas concebidas para el control del caudal con una máxima precisión.*
■ *Uso de apertura/cierre en aplicaciones industriales o de líquidos con partículas en suspensión gracias a su cierre por membrana.*
■ *Sistema de seguridad de cerrado/abierto en cualquier posición de apertura y posibilidad de fijación con candado.*
■ *Válvula con xx giros del volante.*
■ *Mínimo par de maniobra y máxima facilidad de operación gracias al sistema de apertura giratorio.*
■ *Posibilidad de actuación manual o con actuador neumático.*
■ *Presentan una estanqueidad perfecta (a nivel interno y externo).*
■ *Ofrecen una perfecta resistencia a la corrosión al estar fabricada completamente en plásticos técnicos.*

Features and benefits
Características y beneficios

FEATURES	BENEFITS
Excellent flow rate	Minimum pressure loss due to non full bore
Body made in PP w/fiber glass reinforcement (30%)	Excellent mechanical strenght
Incorporated locking device	Safety in the operations and precision in regulation
Strong and ergonomic handwheel	Maximum resistance and better torque
Threaded inserts (SS) for wall-mounting	Easy to install
Hidden bolts	Easy maintenance, not affected by dirty
Visual position indicator	Sight knowledge of the position and materials
100% traceability: serial and batch number	Minimize the problems or maximize the solutions
Laser marking of the valve characteristics	Easy to see the characteristics and long live
Water and air testing in 100% of the valves	Minimum errors in the finished product

CARACTERÍSTICAS	BENEFICIOS
Excelentes características de caudal	*Mínima pérdida de presión debida al obligatorio paso no total*
Cuerpo fabricado en PP c/reuferzo de fibra de vidrio (30%)	*Excelente resistencia mecánica*
Seguro de cierre incorporado	*Seguridad en las maniobras y precision en la regulación*
Volante resistente y eronómico	*Máxima resistencia y mejora del par de maniobra*
Insertos roscados (INOX) para montaje en pared	*Facilidad de instalación*
Tornillos ocultos	*Fácil mantenimiento, no les afecta la suciedad*
Indicador visual de posición	*Conocimiento visual de la situación y materiales de la membrana*
Trazabilidad 100%: número de lote y de serie	*Minimiza los problemas y maximiza las soluciones*
Marcado láser de las características de las válvulas	*Facilidad para consultar las caracterísitcas y larga vida*
Test de fugas con agua y aire al 100% de las válvulas	*Mínimo índice de errores en el producto completo*

Body made in PP + GR
Cuerpo fabricado en PP + GR

Hidden bolts
Tornillos ocultos

Incorporated locking device
Seguro de cierre incorporado

Visual position indicator
Indicador visual de posición

Strong and ergonomic handwheel
Volante resistente y ergonómico

100% traceability Laser marking of the valve characteristics
Trazabilidad 100% Marcado láser de las características de la válvula

Threaded inserts for wall mounting
Insertos roscados para montaje en pared

Water and air testing in 100% of the valves
Test de fugas con agua y aire al 100% de las válvulas

Design regulations
Normativas de diseño

	PRODUCT - *PRODUCTO*	DF (DIAPHRAGM / DIAFRAGMA)
Applications and characteristics *Aplicaciones y características*	Use / *Uso*	Industrial
	Nominal pressure (PN) / *Presión trabajo (PN)*	PN 6 - PN10
	Nominal diameter (DN) / *Diámetro nominal (DN)*	DN15 –DN50
	Body material / *Material cuerpo*	PVC-U / PVC-C / PP-H / PVDF
	Membrane material / *Material de la membrana*	EPDM - FPM
	O-ring material / *Material de las juntas*	EPDM - FPM
	Valve pass / *Paso de válvula*	DN
	Gral. functions / *Funciones generales*	Fine membrane adjusting / Bi-directional
Regulations *Regulaciones*	Design regulation / *Regulación del diseño*	ISO /16138 : 2007
	Flange regulation (PN) / *Regulación de la brida (PN)*	EN 558-1
	Valves unions / *Uniones de la válvula*	EN 1092-1
	Bolts / *Tornillería*	EN / ISO 898
	Other connections / *Otras conexiones*	ISO 15494 - ISO 15493 – ISO 10931
	Actuators connection / *Conexión de actuadores*	EN / ISO 5211
Actuated *Accionado*	Actuation types / *Tipos de actuadores*	Table 1.1
	Actuation accessories / *Accesorios de actuación*	Different option. (sizes) / Actuation coupling EN / ISO 5211
Materials *Materiales*	Body / Cuerpo	Table 1.2
	Ball / Bola	
	O-ring / Juntas	
	Shaft / Eje	
	O-rings / Juntas	
	Packaging / Embalaje	
	Bolts / Tornillería	
Test *Prueba*	Body material / Material cuerpo	EN 12107
	Shell body test / Prueba del cuerpo	ISO 9393-2
	O-ring water tightness / Estanqueidad al agua	ISO 9393-2
	Long therm / Larga duración	ISO 9393-2

Cepex diaphragm valves
Válvulas de diafragma Cepex

PRODUCT RANGE

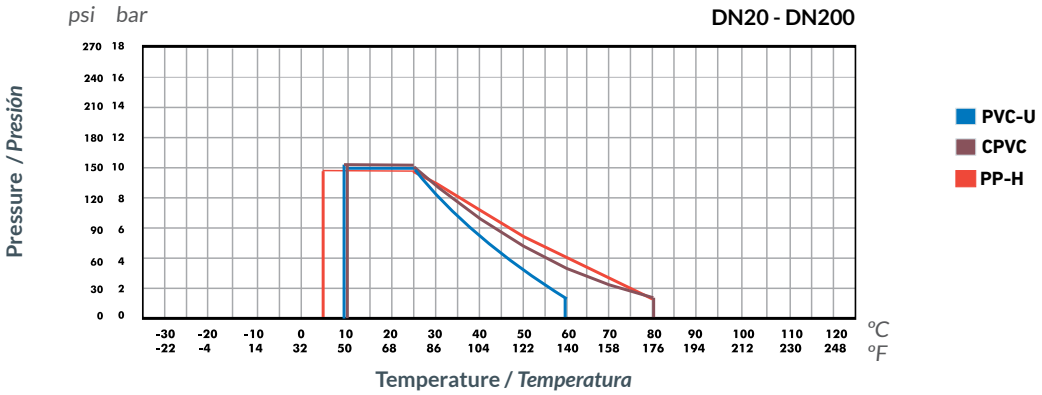
- Measures from DN10 (3/8") up to DN50 (2").
- Working pressure at 20°C (73°F) water temperature: D16 – D63 (3/8" - 2"): PN 10
- All the unions available: solvent socket, male solvent socket, female thread, male thread, flanges, PE100, socket fusion
- Available materials: PVC-U / PVC-C / PP-H
- O-rings and membrane in: EPDM o FPM
- Standards: ISO-DIN, BSi, ANSI-ASTM

RANGO DE GAMA

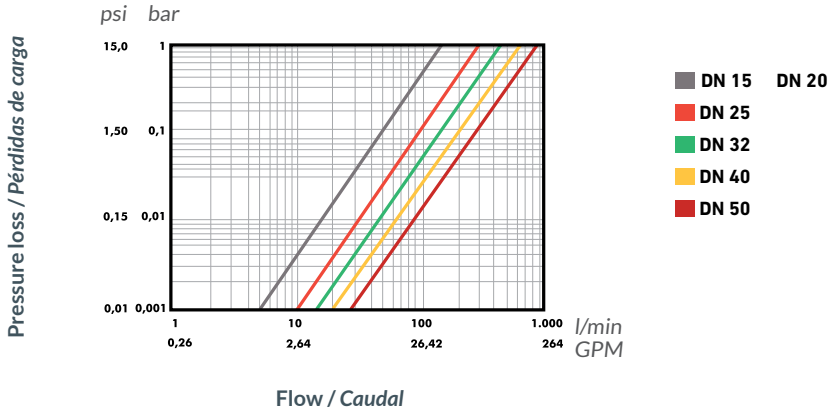
- *Medidas desde DN10 (3/8") hasta DN50 (2").*
- *Presión de servicio a 20°C (73°F) temperatura de agua: D16 – D63 (3/8" - 2"): PN 10*
- *Todas las conexiones disponibles: encolar hembra, encolar macho, roscar hembra, roscar macho, por bridas, PE100, termofusión*
- *Materiales disponibles: PVC-U / PVC-C / PP-H*
- *Juntas y membrana en: EPDM o FPM*
- *Standards: ISO-DIN, BSi, ANSI-ASTM*

Hydraulic performances
Comportamientos hidráulicos

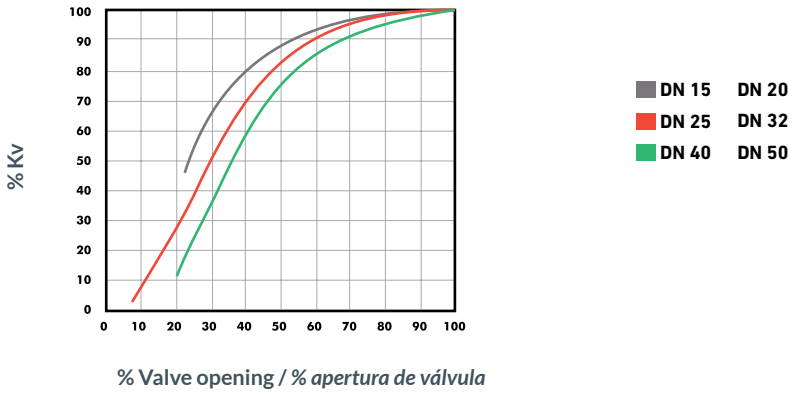
PRESSURE / TEMPERATURE
PRESIÓN / TEMPERATURA



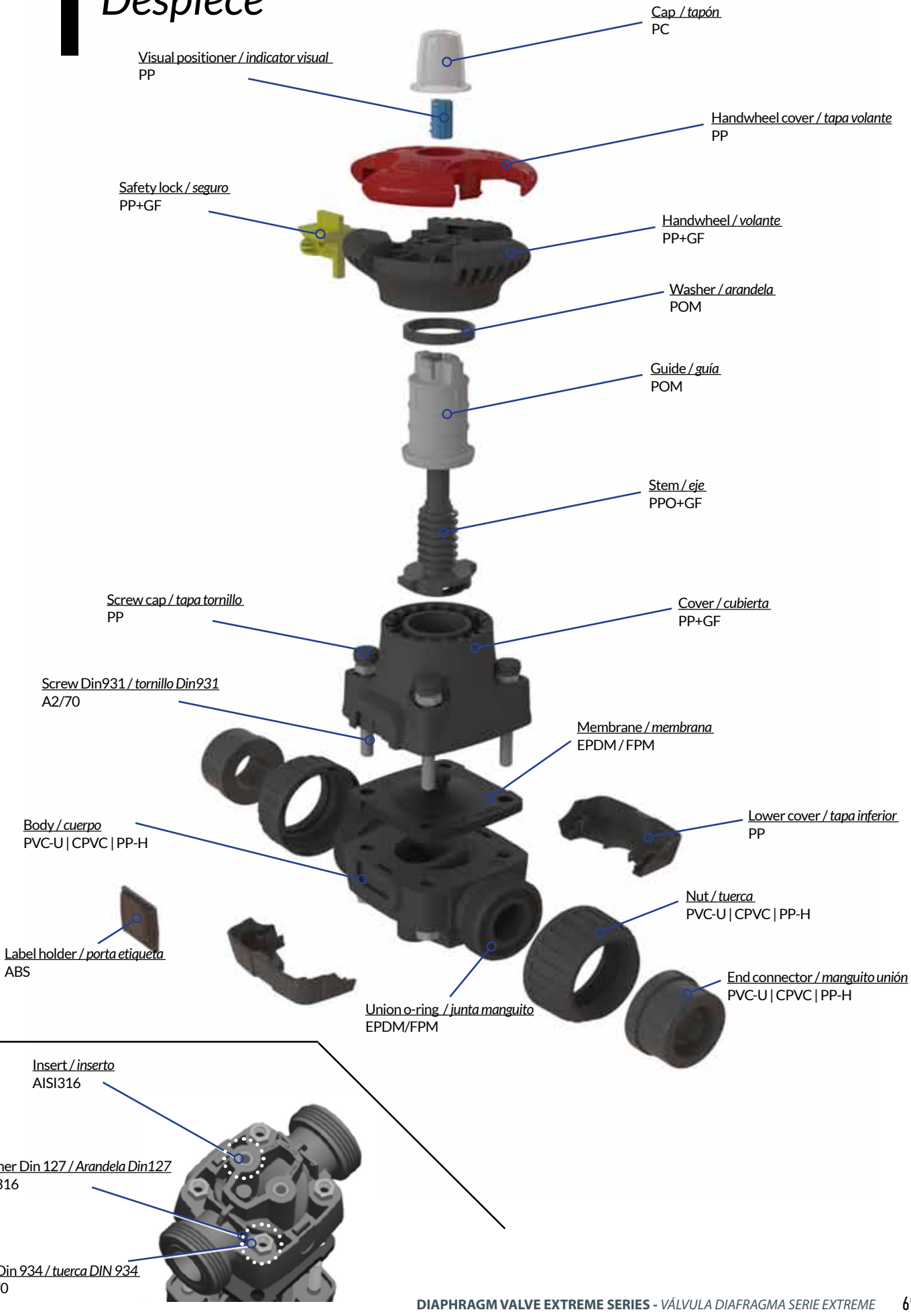
PRESSURE LOSS
PÉRDIDAS DE CARGA



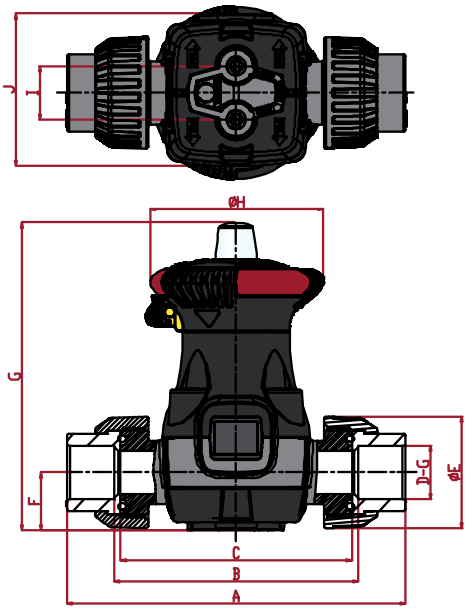
RELATIVE FLOW
FLUJO RELATIVO



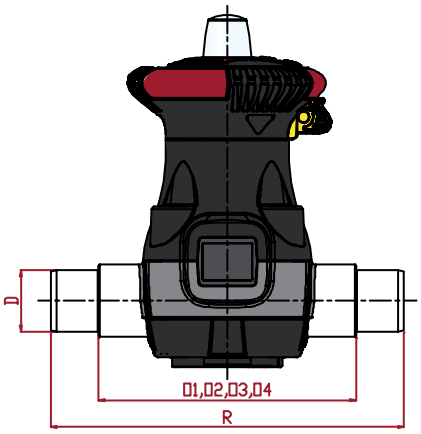
Explosion
Despiece



Dimensions
Medidas

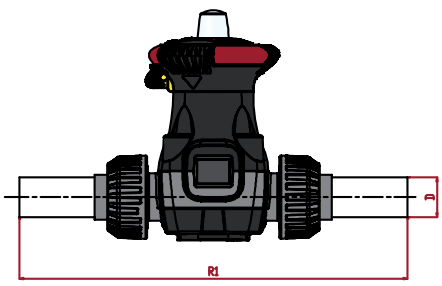


DN	A	B	C	D-G	E	F	G	H	I	J
DN15	133	96	90	20-½"	41	27	144	81	25 (M6)	71
DN20	159	116	108	25-¾"	52	27	144	81	25 (M6)	71
DN25	166	122	116	32-1"	60	38	189	96	26 (M6)	85
DN32	192	140	134	40-1¼"	74	38	189	96	45 (M8)	95
DN40	222	160	154	50-1½"	80	51	252	130	45 (M8)	115
DN50	266	190	184	63-2"	100	51	252	130	45 (M8)	115

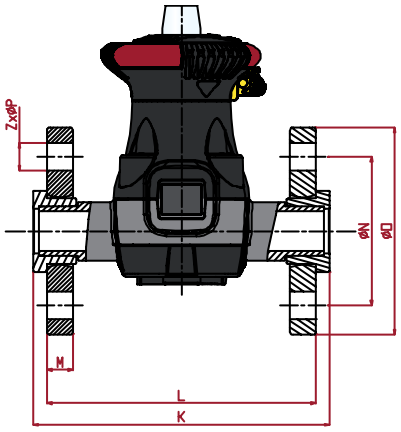


DN	D-G	*O1	*O2	*O3	*O4	R
DN15	20-½"	90	87	93	80	124
DN20	25-¾"	105	105	110	93	144
DN25	32-1"	108	106	116	96	154
DN32	40-1¼"	120	120	131	110	174
DN40	50-1½"	130	136	144	123	194
DN50	63-2"	147	162	166	147	224

*O1: métrico PVC-U / CPVC.
*O2: medida americana PVC-U / CPVC.
*O3: métrico PP-H
*O4: medida americana PP-H.



DN	D-G	*R1
DN15	20-½"	182
DN20	25-¾"	202
DN25	32-1"	216
DN32	40-1¼"	236
DN40	50-1½"	282
DN50	63-2"	322



DN	D-G	K	L	M	N	P	Q	Z
DN15	20-½"	130	118	12	65	14	90	4x14
DN20	25-¾"	150	136	13	75	14	105	4x14
DN25	32-1"	161	145	15	85	14	108	4x14
DN32	40-1¼"	181	163	16	100	18	120	4x18
DN40	50-1½"	200	184	17	110	18	130	4x18
DN50	63-2"	230	212	18	125	18	147	4x18

PVC-U DIAPHRAGM VALVE
VÁLVULA DE DIAFRAGMA PVC-U

PVC-U DIAPHRAGM VALVE
solvent socket ISO/DIN

VÁLVULA DE DIAFRAGMA PVC-U
encolar hembra ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**54817**	**56786**	155 l/min
20	10	25	**54818**	**56794**	158 l/min
25	10	32	**56663**	**57245**	292 l/min
32	10	40	**56664**	**57251**	454 l/min
40	10	50	**56675**	**57295**	648 l/min
50	10	63	**56676**	**57301**	871 l/min

PVC-U DIAPHRAGM VALVE
female thread BSP
SS reinforcement

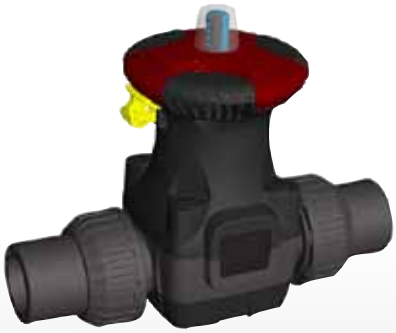
VÁLVULA DE DIAFRAGMA PVC-U
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**54819**	**56787**	155 l/min
20	10	¾"	**54820**	**56795**	158 l/min
25	10	1"	**56665**	**57246**	292 l/min
32	10	1¼"	**56666**	**57252**	454 l/min
40	10	1½"	**56677**	**57296**	648 l/min
50	10	2"	**56678**	**57302**	871 l/min

PVC-U DIAPHRAGM VALVE
male solvent socket ISO/DIN

VÁLVULA DE DIAFRAGMA PVC-U
encolar macho ISO/DIN

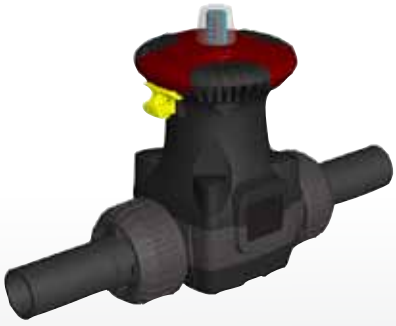
DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**54815**	**56784**	155 l/min
20	10	¾"	**54816**	**56792**	158 l/min
25	10	1"	**56659**	**57243**	292 l/min
32	10	1¼"	**56660**	**57249**	454 l/min
40	10	1½"	**56671**	**57293**	648 l/min
50	10	2"	**56672**	**57299**	871 l/min



PVC-U DIAPHRAGM VALVE
male solvent socket ISO/DIN
true union

VÁLVULA DE DIAFRAGMA PVC-U
encolar macho ISO/DIN
enlace 3 piezas

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**66849**	**68601**	155 l/min
20	10	25	**66850**	**68602**	158 l/min
25	10	32	**66851**	**68603**	292 l/min
32	10	40	**66852**	**68604**	454 l/min
40	10	50	**66866**	**68605**	648 l/min
50	10	63	**66867**	**68606**	871 l/min



PVC-U DIAPHRAGM VALVE
PE100 / SDR11

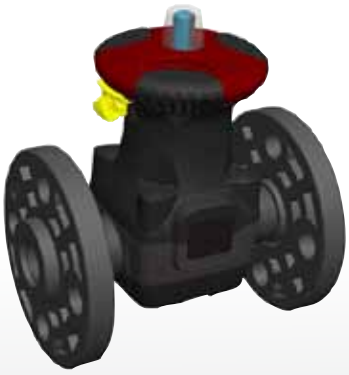
VÁLVULA DE DIAFRAGMA PVC-U
PE100 / SDR11

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**64977**	**66914**	155 l/min
20	10	25	**64978**	**66915**	158 l/min
25	10	32	**64979**	**66916**	292 l/min
32	10	40	**64980**	**66917**	454 l/min
40	10	50	**64981**	**66918**	648 l/min
50	10	63	**64982**	**66919**	871 l/min

PVC-U DIAPHRAGM VALVE
PVC-U ISO flanges
loose flange (RF)

VÁLVULA DE DIAFRAGMA PVC-U
bridas ISO en PVC-U
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**54823**	**56790**	155 l/min
20	10	25	**54824**	**56797**	158 l/min
25	10	32	**56669**	**57248**	292 l/min
32	10	40	**56670**	**57254**	454 l/min
40	10	50	**56679**	**57298**	648 l/min
50	10	63	**56680**	**57304**	871 l/min

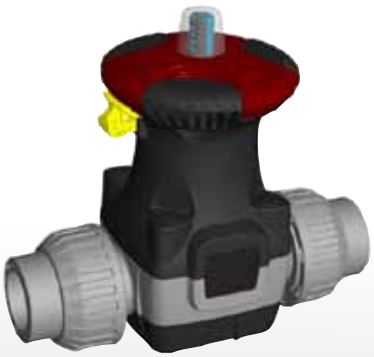


PVC-U DIAPHRAGM VALVE
PVC-U ANSI flanges
fixed flange (FF)

VÁLVULA DE DIAFRAGMA PVC-U
bridas ANSI en PVC-U
brida fija (FF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**54823AB**	**56790AB**	155 l/min
20	10	¾"	**54824AB**	**56797AB**	158 l/min
25	10	1"	**56669AB**	**57248AB**	292 l/min
32	10	1¼"	**56670AB**	**57254AB**	454 l/min
40	10	1½"	**56679AB**	**57298AB**	648 l/min
50	10	2"	**56680AB**	**57304AB**	871 l/min

CPVC DIAPHRAGM VALVE
VÁLVULA DE DIAFRAGMA CPVC



CPVC DIAPHRAGM VALVE
solvent socket ISO/DIN

VÁLVULA DE DIAFRAGMA CPVC
encolar hembra ISO/DIN

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**56802**	**56819**	155 l/min
20	10	25	**56807**	**56859**	158 l/min
25	10	32	**57257**	**57267**	292 l/min
32	10	40	**57262**	**57272**	454 l/min
40	10	50	**57307**	**57320**	648 l/min
50	10	63	**57312**	**57325**	871 l/min

CPVC DIAPHRAGM VALVE
female thread BSP
SS reinforcement

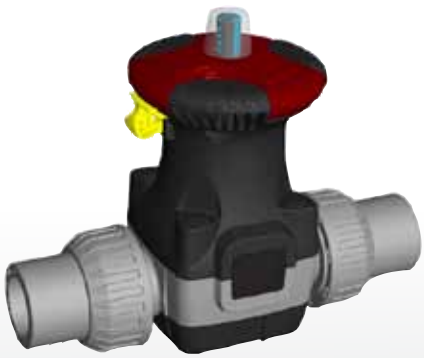
VÁLVULA DE DIAFRAGMA CPVC
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**56803**	**56820**	155 l/min
20	10	¾"	**56808**	**56860**	158 l/min
25	10	1"	**57258**	**57268**	292 l/min
32	10	1¼"	**57263**	**57273**	454 l/min
40	10	1½"	**57308**	**57321**	648 l/min
50	10	2"	**57313**	**57326**	871 l/min

CPVC DIAPHRAGM VALVE
male solvent socket ISO/DIN

VÁLVULA DE DIAFRAGMA CPVC
encolar macho ISO/DIN

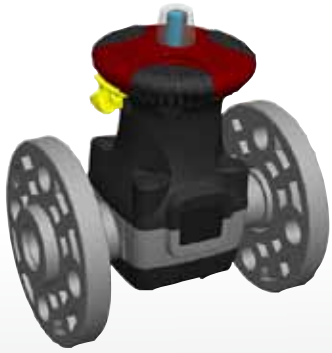
DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**56800**	**56817**	155 l/min
20	10	¾"	**56805**	**56857**	158 l/min
25	10	1"	**57255**	**57265**	292 l/min
32	10	1¼"	**57260**	**57270**	454 l/min
40	10	1½"	**57305**	**57318**	648 l/min
50	10	2"	**57310**	**57323**	871 l/min



CPVC DIAPHRAGM VALVE
male solvent socket ISO/DIN
true union

VÁLVULA DE DIAFRAGMA CPVC
encolar macho ISO/DIN
unión 3 piezas

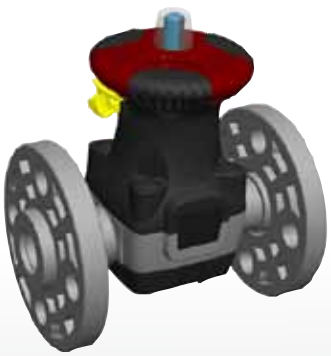
DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**66881**	**69096**	155 l/min
20	10	25	**66882**	**69097**	158 l/min
25	10	32	**66883**	**69098**	292 l/min
32	10	40	**66884**	**69099**	454 l/min
40	10	50	**66885**	**69100**	648 l/min
50	10	63	**66886**	**69101**	871 l/min



CPVC DIAPHRAGM VALVE
CPVC ISO flanges
loose flange (RF)

VÁLVULA DE DIAFRAGMA CPVC
bridas ISO en CPVC
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**56804**	**56821**	155 l/min
20	10	25	**56809**	**56861**	158 l/min
25	10	32	**57259**	**57269**	292 l/min
32	10	40	**57264**	**57274**	454 l/min
40	10	50	**57309**	**57322**	648 l/min
50	10	63	**57314**	**57327**	871 l/min

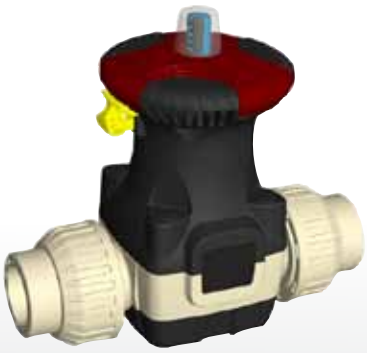


CPVC DIAPHRAGM VALVE
CPVC ANSI flanges
fixed flange (FF)

VÁLVULA DE DIAFRAGMA CPVC
bridas ANSI en CPVC
brida fija (FF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**56804AB**	**56821AB**	155 l/min
20	10	¾"	**56809AB**	**56861AB**	158 l/min
25	10	1"	**57259AB**	**57269AB**	292 l/min
32	10	1¼"	**57264AB**	**57274AB**	454 l/min
40	10	1½"	**57309AB**	**57322AB**	648 l/min
50	10	2"	**57314AB**	**57327AB**	871 l/min

PP-H DIAPHRAGM VALVE
VÁLVULA DE DIAFRAGMA PP-H



PP-H DIAPHRAGM VALVE
socket fusion

VÁLVULA DE DIAFRAGMA PP-H
termofusión hembra

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**56864**	**56872**	155 l/min
20	10	25	**56867**	**56877**	158 l/min
25	10	32	**57277**	**57283**	292 l/min
32	10	40	**57280**	**57286**	454 l/min
40	10	50	**57330**	**57336**	648 l/min
50	10	63	**57333**	**57339**	871 l/min

PP-H DIAPHRAGM VALVE
female thread BSP
SS reinforcement

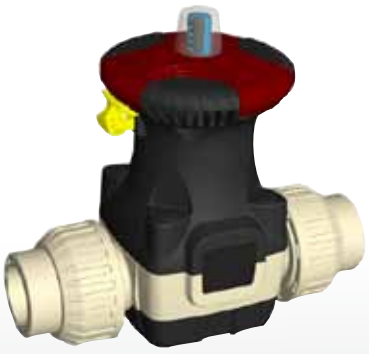
VÁLVULA DE DIAFRAGMA PP-H
roscar hembra BSP
refuerzo inox.

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**63056**	**63062**	155 l/min
20	10	¾"	**63057**	**63063**	158 l/min
25	10	1"	**63058**	**63064**	292 l/min
32	10	1¼"	**63059**	**63065**	454 l/min
40	10	1½"	**63060**	**63066**	648 l/min
50	10	2"	**63061**	**63067**	871 l/min

PP-H DIAPHRAGM VALVE
spigot fusion

VÁLVULA DE DIAFRAGMA PP-H
termofusión macho

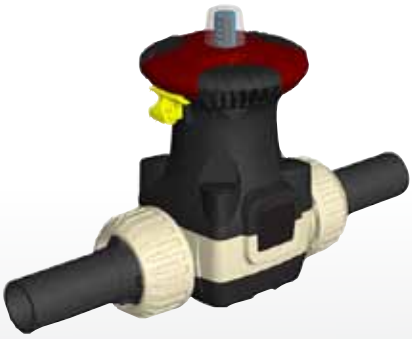
DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**56862**	**56868**	155 l/min
20	10	25	**56865**	**56874**	158 l/min
25	10	32	**57275**	**57281**	292 l/min
32	10	40	**57278**	**57284**	454 l/min
40	10	50	**57328**	**57334**	648 l/min
50	10	63	**57331**	**57337**	871 l/min



PP-H DIAPHRAGM VALVE
spigot fusion
true union

VÁLVULA DE DIAFRAGMA PP-H
termofusión macho
enlace 3 piezas

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**66853**	**67189**	155 l/min
20	10	25	**66854**	**67190**	158 l/min
25	10	32	**66855**	**67191**	292 l/min
32	10	40	**66856**	**67192**	454 l/min
40	10	50	**66857**	**67193**	648 l/min
50	10	63	**66858**	**67194**	871 l/min



PP-H DIAPHRAGM VALVE
butt fusion
PE100 / SDR11

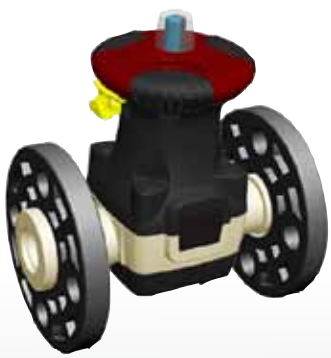
VÁLVULA DE DIAFRAGMA PP-H
soldadura a tope
PE100 / SDR11

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**64566**	**67195**	155 l/min
20	10	25	**64567**	**67196**	158 l/min
25	10	32	**64568**	**67197**	292 l/min
32	10	40	**62860**	**67198**	454 l/min
40	10	50	**64569**	**67199**	648 l/min
50	10	63	**62861**	**67200**	871 l/min

PP-H DIAPHRAGM VALVE
PP-H ISO flanges
fixed flange (FF)

VÁLVULA DE DIAFRAGMA PP-H
bridas ISO en PP-H
brida fija (FF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	20	**67449**	**67455**	155 l/min
20	10	25	**67450**	**67456**	158 l/min
25	10	32	**67451**	**67457**	292 l/min
32	10	40	**67452**	**67458**	454 l/min
40	10	50	**67453**	**67459**	648 l/min
50	10	63	**67454**	**67460**	871 l/min



PP-H DIAPHRAGM VALVE
PP steel coated ANSI flanges
loose flange (RF)

VÁLVULA DE DIAFRAGMA PP-H
bridas ANSI en PP con alma de acero
brida loca (RF)

DN	PN	D	EPDM	FPM	FLOW / *CAUDAL*
15	10	½"	**67449AB**	**67455AB**	155 l/min
20	10	¾"	**67450AB**	**67456AB**	158 l/min
25	10	1"	**67451AB**	**67457AB**	292 l/min
32	10	1¼"	**67452AB**	**67458AB**	454 l/min
40	10	1½"	**67453AB**	**67459AB**	648 l/min
50	10	2"	**67454AB**	**67460AB**	871 l/min

BUTTERFLY VALVES
EXTREME SERIES
VÁLVULA DE MARIPOSA
SERIE EXTREME

INTRODUCTION
INTRODUCCIÓN

■ *Butterfly valve for isolating or regulating the flow in liquid handling systems. The liquid can flow in both directions.*
■ *Design based on the EN ISO 16136 Standard in accordance with the 97/23/EC Directive.*
■ *The valve is available with PVC-U, CPVC and PP discs and EPDM and FPM sealing gaskets. The choice of material for the disc and gasket depends on the type of liquid to be carried and on the working temperature of the liquid.*
■ *in accordance with the chemical resistance tables available on our website and the pressure/temperature chart in this catalogue.*

■ *Válvula de mariposa para la interrupción o la regulación del caudal en los sistemas de conducción de líquidos. El líquido puede circular en los dos sentidos.*
■ *Diseño basado en norma ISO EN 16136 según Directiva 97/23/CE.*
■ *La válvula está disponible con compuertas fabricadas en PVC-U, CPVC y PP y con juntas de EPDM y FPM (FKM). La elección del material de la compuerta y de la junta depende del tipo de líquido a transportar y de la temperatura y de trabajo del líquido*
■ *De acuerdo con las tablas de resistencia química disponibles en nuestra web y el diagrama de presión / temperatura de este catálogo.*

Advantages
Ventajas

■ Valve specially designed for the opening/close of the fluid pass in any fluid handling application with enough piping diameter.
■ It is also used for flow regulation applications that don't need a great precision (check the flow diagramm).
■ Ehen they are closed, they stop the pass of the fluid in both senses.
■ Valve with a qurter turn of the handle (90º).
■ Low operating torque, thanks to the balance of the disc with the central shaft.
■ Installation between flanges and they take low space in the installation.
■ Ideal to support high speeds and for fluids with suspended particles.
■ Possibility of manual (handle or gear box), electrical or pneumatical actuation.
■ They offer a perfect water tightness (internally and externally).
■ They offer a perfect corrosion resistance as they are manufactured almost completely in technical plastics; all non plastic materials are non wetted (don't have contact with the fluid).

■ *Vávulas concebidas para la apertura/cierre del paso de fluido en cualquier instalación de conducción con tubería de diámetro grande.*
■ *Suele ser usada también para funciones de regulación de caudal sin necesidad de una gran precisión (comprobar gráfico de caudal).*
■ *Cerradas, detienen el flujo en ambos sentidos.*
■ *Válvula con un cuarto de giro de la maneta (90º).*
■ *Presentan un bajo par de maniobra, gracias al equilibrio que proporciona el disco con el eje central.*
■ *Se instala siempre entre bridas y ocupan poco espacio en la instalación.*
■ *Son ideales para soportar grandes velocidades y para fluidos con partículas suspendidas.*
■ *Posibilidad de actuación manual (mediante maneta o reductor manual), con actuador eléctrico o con actuador neumático.*
■ *Presentan una estanqueidad perfecta (a nivel interno y externo).*
■ *Ofrecen una buena resistencia a la corrosión al estar fabricada casi completamente en plásticos técnicos; los materiales no plásticos no entran en contacto con el fluido en ningún momento (Non wetted).*

Features and benefits
Características y beneficios

FEATURES	BENEFITS
Holes for installation compatible with several standards	Same valve used worldwide
One piece body made in PP w/fiber glass reinforcement (30%)	Excellent mechanical strenght
Non wetted SS shaft (AISI 630)	No corrosion possibility
Ergonomic handle with lever and locking device	Maximum resistance and improved torque
Disc design anti-friction	Better torque
Full body linear gasket	No need of installation gaskets, leaking proff, completely isolation of the shaft and the body
Machined bearings	No shaft disalignment, long life of the valve
Throttle plate w/closing position every 15º	Flow control application possible
Double shaft o-ring	Installation in any position
100% traceability: serial and batch number	Minimize the problems or maximize the solutions
Laser marking of the valve characteristics	Easy to see the characteristics and long live
Water and air testing in 100% of the valves	Minimum errors in the finished product

CARACTERÍSTICAS	BENEFICIOS
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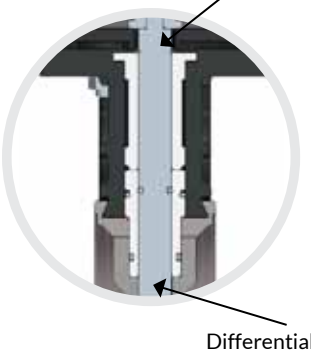
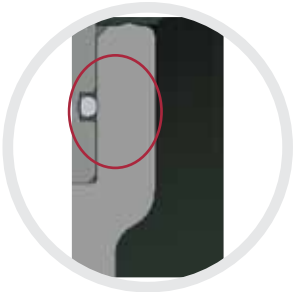


Avoid the slight eccentric stem rotation caused by operation force.
Evita la ligera rotación excéntrica causada por la fuerza de trabajo.



New settings and tolerance (shaft - O-rings - body) - leakage reduction
Nueva configuración y tolerancia (eje - juntas - cuerpo) reducción de fugas

New machined and new setting
Perfect adaptation - Leakage reduction
Nuevo mecanizado y nueva configuración
Adaptación perfecta - reducción de fugas

100% traceability
Laser marking of the valve characteristics
Trazabilidad 100%
Marcado láser de las características de la válvula

New handle design - double spring AISI 302, new materials for more durability
Nuevo diseño de maneta - doble muelle AISI 302, nuevos materiales para mayor duración

Water and air testing in 100% of the valves
Test de fugas con agua y aire al 100% de las válvulas

Design regulations
Normativas de diseño

	PRODUCT - *PRODUCTO*	BT (BUTTERFLY / MARIPOSA)
Applications and characteristics *Aplicaciones y características*	Use / *Uso*	Industrial
	Nominal pressure (PN) / *Presión trabajo (PN)*	PN 6 - PN10
	Nominal diameter (DN) / *Diámetro nominal (DN)*	DN65 –DN300
	Body material / *Material cuerpo*	PP + G. R
	Disc material / *Material de la compuerta*	PVCU - PPH - CPVC - PVDF - ABS
	O-ring material / *Material de las juntas*	EPDM - FPM
	Valve pass / *Paso de válvula*	DN
	Gral. functions / *Funciones generales*	IQuarter. All or nothing / Bi-directional
Regulations *Regulaciones*	Design regulation / *Regulación del diseño*	ISO /16136 : 2005
	Flange regulation (PN) / *Regulación de la brida (PN)*	EN 558-1
	Valves unions / *Uniones de la válvula*	EN 1092-1
	Bolts / *Tornillería*	EN / ISO 898
	Other connections / *Otras conexiones*	ISO 15494 - ISO 15493 – ISO 10931
	Actuators connection / *Conexión de actuadores*	EN / ISO 5211
Actuated *Accionado*	Actuation types / *Tipos de actuadores*	Table 1.1
	Actuation accessories / *Accesorios de actuación*	Different option. (sizes) / Actuation coupling EN / ISO 5211
Materials *Materiales*	Body / Cuerpo	Table 1.2
	Disc / Compuerta	
	O-ring / Juntas	
	Shaft / Eje	
	O-rings / Juntas	
	Packaging / Embalaje	
	Bolts / Tornillería	
Test *Prueba*	Body material / Material cuerpo	EN 12107
	Shell body test / Prueba del cuerpo	ISO 9393-2
	O-ring water tightness / Estanqueidad al agua	ISO 9393-2
	Long therm / Larga duración	ISO 9393-2

Cepex butterfly valves
Válvulas de mariposa Cepex

PRODUCT RANGE

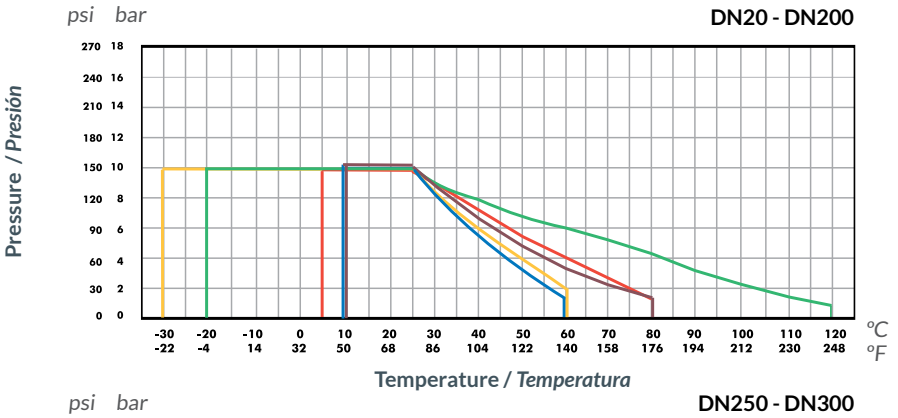
- Sizes from DN40 (1½") up to DN300 (12").
- Working pressure at 20°C (73°F) water temperature:
  D63 – D225 (1½" - 8"): PN 10
  D250 – D315 (10" - 12"): PN 6
- Installation through flanges (ISO / ANSI)
- Body material: PP + GR
- Available disc materials: PVC-U / PVC-C / PP-H / PVDF / ABS
- O-rings in: EPDM or FPM (FKM)
- Standards: ISO-DIN, BSi, ANSI-ASTM

RANGO DE GAMA

- *Medidas desde DN40 (1½") hasta DN300 (12").*
- *Presión de servicio a 20°C (73°F) temperatura de agua:*
  D63 – D225 (1½" - 8"): PN 10
  D250 – D315 (10" - 12"): PN 6
- *Instalación mediante bridas (ISO / ANSI)*
- *Material de cuerpo: PP + GR*
- *Materiales de disco disponibles: PVC-U / PVC-C / PP-H / PVDF / ABS*
- *Juntas en: EPDM o FPM (FKM)*
- *Standards: ISO-DIN, BSi, ANSI-ASTM*

Graphics butterfly valves
Gráficas válvulas de mariposa

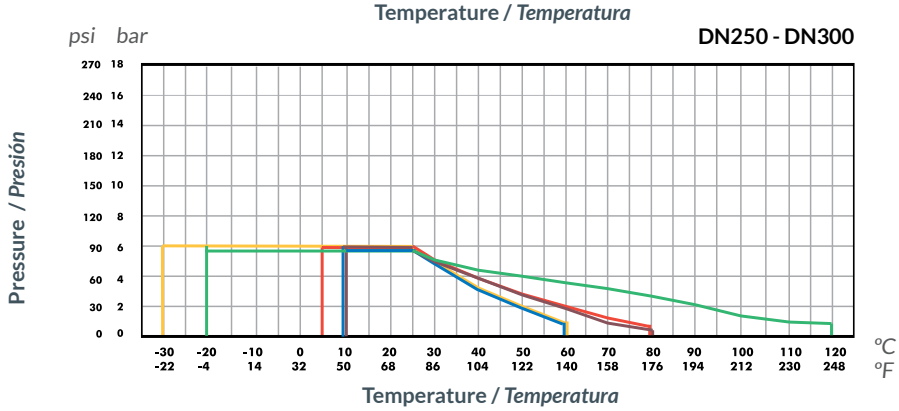
PRESSURE / TEMPERATURE
PRESIÓN / TEMPERATURA



- PVC-U
- CPVC
- PP-H
- PVDF
- ABS

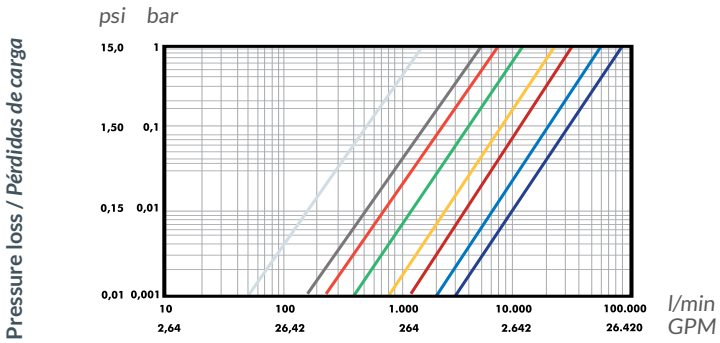
Life: 25 years
Hydrostatic maximum pressure a compnent may outstand in continous service (without overpressure)

Vida útil: 25 años
Presión hidrostática máxima que un componente es capaz de soportar en servicio continuo (sin sobrepresión)



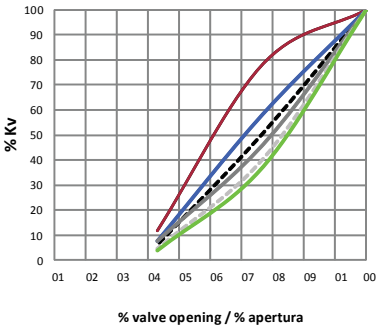
- PVC-U
- CPVC
- PP-H
- PVDF
- ABS

PRESSURE LOSS
PÉRDIDAS DE CARGA



- DN 65
- DN 80
- DN 100
- DN 125
- DN 150
- DN 200
- DN 250
- DN 300

Caudal / Apertura
Flow / valve opening



- DN65
- DN80
- DN100
- DN125
- DN150
- DN200, DN250, DN300

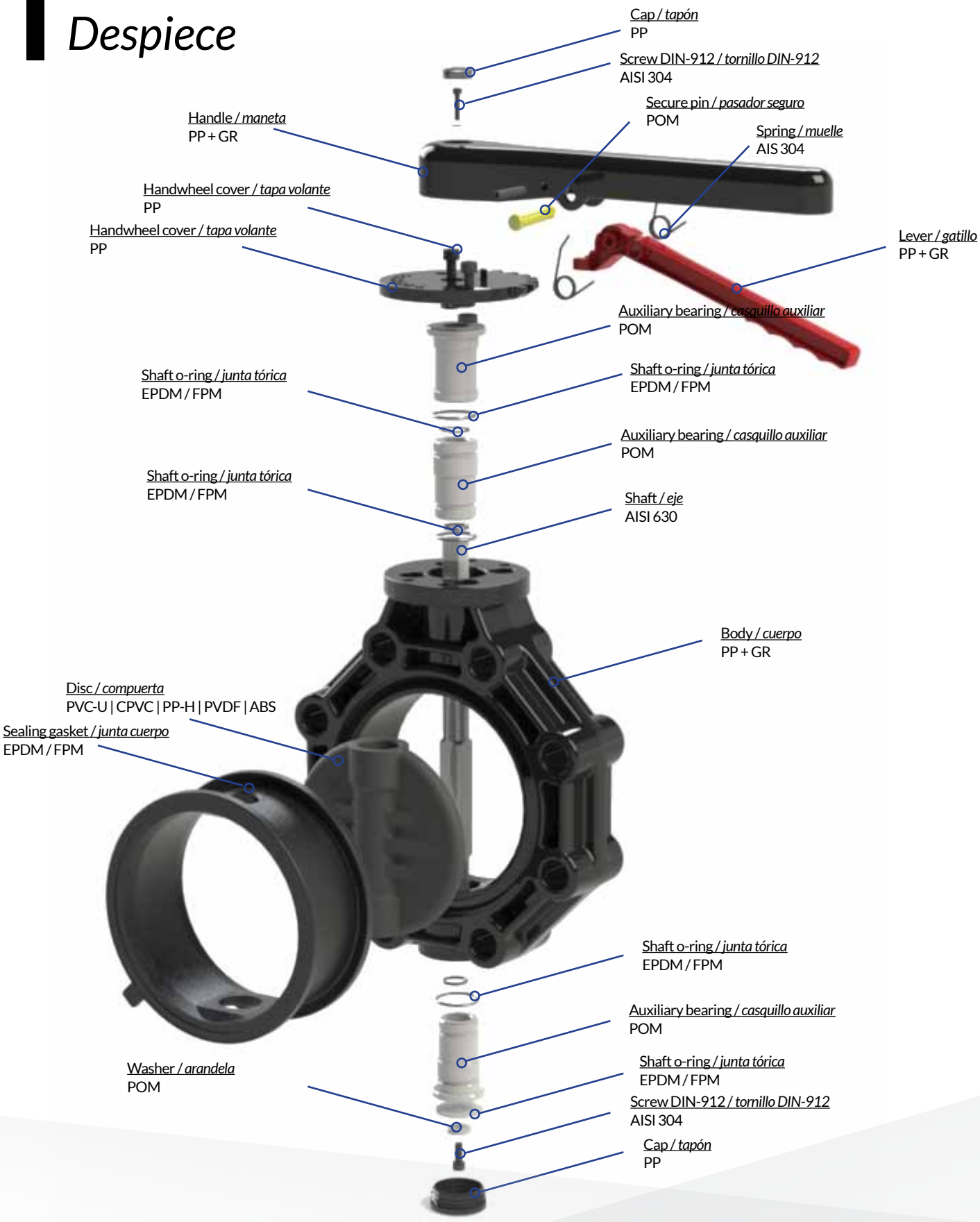
OPERATING TORQUE
PAR DE MANIOBRA

D	63-75	90	110	125-140	160	200-225	250-280	315
DN	50-65	80	100	125	150	200	250	300
Nm	25	28	35	85	110	110	180	250
in·lbf	221	248	310	752	974	974	1593	2213

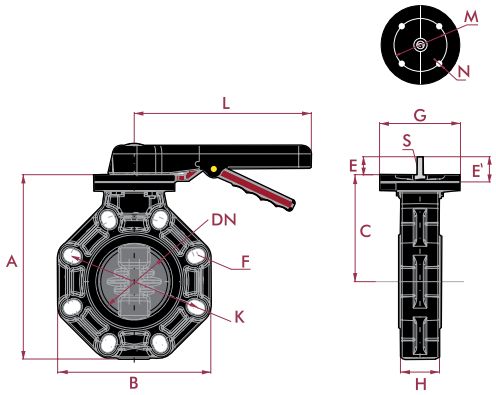
Operating torque values at rated pressure (PN) and 20 °C in as new direct from the factory condition. Installation and operating conditions (pressure and temperature) will affect these values.

Los valores de par de giro se determinan a presión nominal (PN) y a 20 °C, en condiciones de salida de fábrica. Las condiciones de instalación y operación (presión y temperatura) afectarán a estos valores.

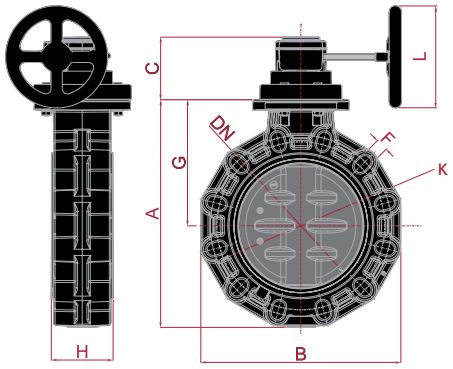
Explode
Despiece



Dimensions
Medidas



DN	A	B	C	C1	E	F	G	H	K	L	L1	M	N	E'	S	HOLES
40	175	120	111	90	26	18	112	40	98-110	220	125	70	9	36	7	4
65	201	156	120	90	40	18	112	48	125-145	220	125	70	9	35	7	4
80	232	190	136	90	40	19	112	52	150-170	245	125	70	9	35	8	8
100	255	212	148	90	40	19	112	59	180-192	245	125	70	9	35	8	8
125	284	238	164	102	40	22	112	66	190-215	320	160	70	9	35	14	8
150	314	265	180	102	40	24	112	72	240	320	160	70	9	35	14	8
200	378	320	217	116	50	23	136	73	270-298	391	160	102	11	47	18	8
250	446	392	124	124	-	24	247	121	329-355	-	200	-	-	51	18	12
300	535	470	124	124	-	28	297	121	384-427	-	200	-	-	52	18	12



DN	A	B	C	C1	E	F	G	H	K	L	L1	M	N	E'	S	HOLES
40	175	120	111	90	26	18	112	40	98-110	220	125	70	9	36	7	4
65	201	156	120	90	40	18	112	48	125-145	220	125	70	9	35	7	4
80	232	190	136	90	40	19	112	52	150-170	245	125	70	9	35	8	8
100	255	212	148	90	40	19	112	59	180-192	245	125	70	9	35	8	8
125	284	238	164	102	40	22	112	66	190-215	320	160	70	9	35	14	8
150	314	265	180	102	40	24	112	72	240	320	160	70	9	35	14	8
200	378	320	217	116	50	23	136	73	270-298	391	160	102	11	47	18	8
250	446	392	124	124	-	24	247	121	329-355	-	200	-	-	51	18	12
300	535	470	124	124	-	28	297	121	384-427	-	200	-	-	52	18	12


PN10@20°
99587532
002

BUTTERFLY VALVES - LUG STYLE
VÁLVULAS DE MARIPOSA - TIPO LUG

■ *El montaje entre bridas nos permite una unión mecánica entre dos elementos de la instalación, siendo posible combinar diferentes tipos de plástico o incluso de unir elementos de plástico con otros de metal.*
Así, los dos elementos quedarán mecanicamente unidos y será la fuerza de los tornillos la que asegurará esta unión.
■ *Las válvulas tipo Lug tienen insertos roscados en ambos lados del cuerpo de la válvula. Eso permite que sean instaladas en cualquier sistema usando tornillos y no tuercas. La válvula quedará instalada entre bridas usando un conjunto de tornillos para cada brida. Esta configuración permite desconectar cada lado del sistema sin afectar al otro lado.*

■ ***INSERTS MATERIAL: AISI 304***

■ *The assembly between flanges allows us to make a mechanical union between 2 elements of the installation, with th epossibility of mixing different types of plastic or eventhough plastic with metals.*
By this way, both elements will keep mechanically connected and the screw strenght will be the assurance of the union.
■ *Lug-style valves have threaded inserts at both sides of the valve body. This allows them to be installed into a system using sets of bolts and no nuts. The valve is installed between flanges using a separate set of bolts for each flange. This setup permits either side of the piping system to be disconnected without disturbing the other side.*

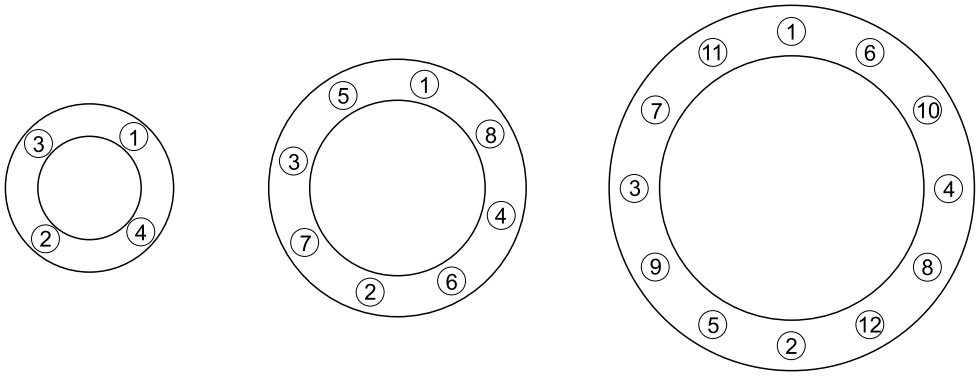
■ ***MATERIAL INSERTOS: AISI 304***

DN	D	Torque Par de apriete Nm	Insert size Tamaño inserto	Metric thread Rosca métrica	Thread deep Profundidad rosca	Insert lenght Longitud inserto
40	50	12	HEX 19	M16x2	Passage	33
50/65	63-75	25	HEX 19	M16x2	Passage	48
80	90	25	HEX 19	M16x2	Passage	52
100	110	25	HEX 19	M16x2	Passage	59
125/140	125-140	30	HEX 19	M16x2	Passage	66
150	160	40	HEX 33	M20x2,5	Passage / 30 mm	72
200	200-225	40	HEX 33	M20x2,5	Passage / 30 mm	73
250	250	64	HEX 33	M20x2,5	30 mm	114
300	315	95	HEX 33	M20x2,5	30 mm	114

■ The threads must be clean and lubricated.
■ *The conditions of the installations and ambience could need modifications in the installation standards.*
■ ***An unnecessary over-torque wil damage the flange.***

■ *Las roscas deberán estar limpias y bien lubricadas.*
■ *Las condiciones actuales de campo podrían necesitar variaciones de estas recomendaciones.*
■ ***Un excesivo par de apriete innecesario dañará la brida.***

BOLT TIGHTENING SEQUENCE
SECUENCIA DEL PAR DE APRIETE



PVC-U BUTTERFLY VALVE - WAFER STYLE

VÁLVULA MARIPOSA PVC-U - TIPO WAFER

PVC-U BUTTERFLY VALVE
handle

VÁLVULA MARIPOSA PVC-U
maneta

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66725**	**66726**	
65	10	63-75	**61365**	**61460**	1568 l/min
80	10	90	**61366**	**61461**	4980 l/min
100	10	110	**61367**	**61462**	7212 l/min
125	10	125-140	**61368**	**61463**	12320 l/min
150	10	160	**61369**	**61464**	25447 l/min
200	10	200-225	**61370**	**61465**	35778 l/min

PVC-U BUTTERFLY VALVE
bare shaft

VÁLVULA MARIPOSA PVC-U
eje libre

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66727**	**66729**	
65	10	63-75	**61466**	**61474**	1568 l/min
80	10	90	**61467**	**61475**	4980 l/min
100	10	110	**61468**	**61476**	7212 l/min
125	10	125-140	**61469**	**61477**	12320 l/min
150	10	160	**61470**	**61478**	25447 l/min
200	10	200-225	**61471**	**61479**	35778 l/min
250	6	250-280	**61472**	**61480**	65222 l/min
300	6	315	**61473**	**61481**	94660 l/min

PVC-U BUTTERFLY VALVE
gear box

VÁLVULA MARIPOSA PVC-U
reductor manual

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66730**	**66731**	
65	10	63-75	**61482**	**61490**	1568 l/min
80	10	90	**61483**	**61491**	4980 l/min
100	10	110	**61484**	**61492**	7212 l/min
125	10	125-140	**61485**	**61493**	12320 l/min
150	10	160	**61486**	**61494**	25447 l/min
200	10	200-225	**61487**	**61495**	35778 l/min
250	6	250-280	**61488**	**61496**	65222 l/min
300	6	315	**61489**	**61497**	94660 l/min

PVC-U BUTTERFLY VALVE - LUG STYLE

VÁLVULA MARIPOSA PVC-U - TIPO LUG

PVC-U BUTTERFLY VALVE
handle

VÁLVULA MARIPOSA PVC-U
maneta

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**66132**	**68857**	1568 l/min
80	10	90	**66133**	**68858**	4980 l/min
100	10	110	**66134**	**68859**	7212 l/min
125	10	125-140	**66135**	**68860**	12320 l/min
150	10	160	**66136**	**68861**	25447 l/min
200	10	200-225	**66137**	**68862**	35778 l/min

PVC-U BUTTERFLY VALVE
bare shaft

VÁLVULA MARIPOSA PVC-U
eje libre

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**61466**	**68873**	1568 l/min
80	10	90	**61467**	**68874**	4980 l/min
100	10	110	**61468**	**68875**	7212 l/min
125	10	125-140	**61469**	**68876**	12320 l/min
150	10	160	**61470**	**68877**	25447 l/min
200	10	200-225	**61471**	**68878**	35778 l/min
250	6	250-280	**61472**	**68879**	65222 l/min
300	6	315	**61473**	**68880**	94660 l/min

PVC-U BUTTERFLY VALVE
gear box

VÁLVULA MARIPOSA PVC-U
reductor manual

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**61482**	**68891**	1568 l/min
80	10	90	**61483**	**68892**	4980 l/min
100	10	110	**61484**	**68893**	7212 l/min
125	10	125-140	**61485**	**68894**	12320 l/min
150	10	160	**61486**	**68895**	25447 l/min
200	10	200-225	**61487**	**68896**	35778 l/min
250	6	250-280	**61488**	**68897**	65222 l/min
300	6	315	**61489**	**68898**	94660 l/min

CPVC BUTTERFLY VALVE - WAFER STYLE

VÁLVULA MARIPOSA CPVC - TIPO WAFER

CPVC BUTTERFLY VALVE **handle**

VÁLVULA MARIPOSA CPVC ***maneta***

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66734**	**66735**	
65	10	63-75	**61498**	**61504**	1568 l/min
80	10	90	**61499**	**61505**	4980 l/min
100	10	110	**61500**	**61506**	7212 l/min
125	10	125-140	**61501**	**61507**	12320 l/min
150	10	160	**61502**	**61508**	25447 l/min
200	10	200-225	**61503**	**61509**	35778 l/min

CPVC BUTTERFLY VALVE **bare shaft**

VÁLVULA MARIPOSA CPVC ***eje libre***

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66732**	**66733**	
65	10	63-75	**61510**	**61518**	1568 l/min
80	10	90	**61511**	**61519**	4980 l/min
100	10	110	**61512**	**61520**	7212 l/min
125	10	125-140	**61513**	**61521**	12320 l/min
150	10	160	**61514**	**61522**	25447 l/min
200	10	200-225	**61515**	**61523**	35778 l/min
250	6	250-280	**61516**	**61524**	65222 l/min
300	6	315	**61517**	**61525**	94660 l/min

CPVC BUTTERFLY VALVE **gear box**

VÁLVULA MARIPOSA CPVC ***reductor manual***

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66736**	**66737**	
65	10	63-75	**61526**	**61534**	1568 l/min
80	10	90	**61527**	**61535**	4980 l/min
100	10	110	**61528**	**61536**	7212 l/min
125	10	125-140	**61529**	**61537**	12320 l/min
150	10	160	**61530**	**61538**	25447 l/min
200	10	200-225	**61531**	**61539**	35778 l/min
250	6	250-280	**61532**	**61540**	65222 l/min
300	6	315	**61533**	**61541**	94660 l/min

CPVC BUTTERFLY VALVE - LUG STYLE

VÁLVULA MARIPOSA CPVC - TIPO LUG

CPVC BUTTERFLY VALVE
handle

VÁLVULA MARIPOSA CPVC
maneta

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**62345**	**63189**	1568 l/min
80	10	90	**62346**	**63190**	4980 l/min
100	10	110	**68900**	**63191**	7212 l/min
125	10	125-140	**68901**	**63192**	12320 l/min
150	10	160	**68902**	**63193**	25447 l/min
200	10	200-225	**68903**	**63194**	35778 l/min

CPVC BUTTERFLY VALVE
bare shaft

VÁLVULA MARIPOSA CPVC
eje libre

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**68906**	**68915**	1568 l/min
80	10	90	**68907**	**68916**	4980 l/min
100	10	110	**68908**	**68917**	7212 l/min
125	10	125-140	**68909**	**68918**	12320 l/min
150	10	160	**68910**	**68919**	25447 l/min
200	10	200-225	**68911**	**68920**	35778 l/min
250	6	250-280	**68912**	**68921**	65222 l/min
300	6	315	**68913**	**68922**	94660 l/min

CPVC BUTTERFLY VALVE
gear box

VÁLVULA MARIPOSA CPVC
reductor manual

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**68924**	**68933**	1568 l/min
80	10	90	**68925**	**68934**	4980 l/min
100	10	110	**68926**	**68935**	7212 l/min
125	10	125-140	**68927**	**68936**	12320 l/min
150	10	160	**68928**	**68937**	25447 l/min
200	10	200-225	**68929**	**68938**	35778 l/min
250	6	250-280	**68930**	**68939**	65222 l/min
300	6	315	**68931**	**68940**	94660 l/min

PP-H BUTTERFLY VALVE - WAFER STYLE

VÁLVULA MARIPOSA PP-H - TIPO WAFER

PP-H BUTTERFLY VALVE
handle

VÁLVULA MARIPOSA PP-H
maneta

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66738**	**66739**	
65	10	63-75	**61542**	**61962**	1568 l/min
80	10	90	**61543**	**61963**	4980 l/min
100	10	110	**61544**	**61964**	7212 l/min
125	10	125-140	**61545**	**61965**	12320 l/min
150	10	160	**61546**	**61966**	25447 l/min
200	10	200-225	**61549**	**61967**	35778 l/min

PP-H BUTTERFLY VALVE
bare shaft

VÁLVULA MARIPOSA PP-H
eje libre

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66740**	**66741**	
65	10	63-75	**61968**	**61976**	1568 l/min
80	10	90	**61969**	**61977**	4980 l/min
100	10	110	**61970**	**61978**	7212 l/min
125	10	125-140	**61971**	**61979**	12320 l/min
150	10	160	**61972**	**61980**	25447 l/min
200	10	200-225	**61973**	**61981**	35778 l/min
250	6	250-280	**61974**	**61982**	65222 l/min
300	6	315	**61975**	**61983**	94660 l/min

PP-H BUTTERFLY VALVE
gear box

VÁLVULA MARIPOSA PP-H
reductor manual

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66742**	**66743**	
65	10	63-75	**61984**	**61992**	1568 l/min
80	10	90	**61985**	**61993**	4980 l/min
100	10	110	**61986**	**61994**	7212 l/min
125	10	125-140	**61987**	**62000**	12320 l/min
150	10	160	**61988**	**62006**	25447 l/min
200	10	200-225	**61989**	**62007**	35778 l/min
250	6	250-280	**61990**	**62008**	65222 l/min
300	6	315	**61991**	**62009**	94660 l/min

PP-H BUTTERFLY VALVE - LUG STYLE

VÁLVULA MARIPOSA PP-H - TIPO LUG

PP-H BUTTERFLY VALVE
handle

VÁLVULA MARIPOSA PP-H
maneta

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**65119**	**68942**	1568 l/min
80	10	90	**65120**	**68943**	4980 l/min
100	10	110	**65121**	**68944**	7212 l/min
125	10	125-140	**65122**	**68945**	12320 l/min
150	10	160	**65123**	**68946**	25447 l/min
200	10	200-225	**65124**	**68947**	35778 l/min

PP-H BUTTERFLY VALVE
bare shaft

VÁLVULA MARIPOSA PP-H
eje libre

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**68949**	**68958**	1568 l/min
80	10	90	**68950**	**68959**	4980 l/min
100	10	110	**68951**	**68960**	7212 l/min
125	10	125-140	**68952**	**68961**	12320 l/min
150	10	160	**68953**	**68962**	25447 l/min
200	10	200-225	**68954**	**68963**	35778 l/min
250	6	250-280	**68955**	**68964**	65222 l/min
300	6	315	**68956**	**68965**	94660 l/min

PP-H BUTTERFLY VALVE
gear box

VÁLVULA MARIPOSA PP-H
reductor manual

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**68967**	**68976**	1568 l/min
80	10	90	**68968**	**68977**	4980 l/min
100	10	110	**68969**	**68978**	7212 l/min
125	10	125-140	**68970**	**68979**	12320 l/min
150	10	160	**68971**	**68980**	25447 l/min
200	10	200-225	**68972**	**68981**	35778 l/min
250	6	250-280	**68973**	**68982**	65222 l/min
300	6	315	**68974**	**68983**	94660 l/min

PVDF BUTTERFLY VALVE - WAFER STYLE

VÁLVULA MARIPOSA PVDF - TIPO WAFER

PVDF BUTTERFLY VALVE **handle**

VÁLVULA MARIPOSA PVDF ***maneta***

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66744**	**66745**	
65	10	63-75	**64634**	**62047**	1568 l/min
80	10	90	**64635**	**62048**	4980 l/min
100	10	110	**64636**	**62049**	7212 l/min
125	10	125-140	**64637**	**62050**	12320 l/min
150	10	160	**64638**	**62051**	25447 l/min
200	10	200-225	**64639**	**62052**	35778 l/min

PVDF BUTTERFLY VALVE **bare shaft**

VÁLVULA MARIPOSA PVDF ***eje libre***

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66746**	**66747**	
65	10	63-75	**64640**	**62053**	1568 l/min
80	10	90	**64641**	**62054**	4980 l/min
100	10	110	**64642**	**62055**	7212 l/min
125	10	125-140	**64643**	**62056**	12320 l/min
150	10	160	**64644**	**62057**	25447 l/min
200	10	200-225	**64645**	**62058**	35778 l/min
250	6	250-280	**64646**	**62059**	65222 l/min
300	6	315	**64647**	**62060**	94660 l/min

PVDF BUTTERFLY VALVE **gear box**

VÁLVULA MARIPOSA PVDF ***reductor manual***

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66748**	**66749**	
65	10	63-75	**64648**	**62061**	1568 l/min
80	10	90	**64649**	**62062**	4980 l/min
100	10	110	**64650**	**62063**	7212 l/min
125	10	125-140	**64651**	**62064**	12320 l/min
150	10	160	**64652**	**62065**	25447 l/min
200	10	200-225	**64653**	**62066**	35778 l/min
250	6	250-280	**64654**	**62067**	65222 l/min
300	6	315	**64655**	**62068**	94660 l/min

PVDF BUTTERFLY VALVE - LUG STYLE

VÁLVULA MARIPOSA PVDF - TIPO LUG

PVDF BUTTERFLY VALVE
handle

VÁLVULA MARIPOSA PVDF
maneta

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**68985**	**68992**	1568 l/min
80	10	90	**68986**	**68993**	4980 l/min
100	10	110	**68987**	**68994**	7212 l/min
125	10	125-140	**68988**	**68995**	12320 l/min
150	10	160	**68989**	**68996**	25447 l/min
200	10	200-225	**68990**	**68997**	35778 l/min

PVDF BUTTERFLY VALVE
bare shaft

VÁLVULA MARIPOSA PVDF
eje libre

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**68999**	**69008**	1568 l/min
80	10	90	**69000**	**69009**	4980 l/min
100	10	110	**69001**	**69010**	7212 l/min
125	10	125-140	**69002**	**69011**	12320 l/min
150	10	160	**69003**	**69012**	25447 l/min
200	10	200-225	**69004**	**69013**	35778 l/min
250	6	250-280	**69005**	**69014**	65222 l/min
300	6	315	**69006**	**69015**	94660 l/min

PVDF BUTTERFLY VALVE
gear box

VÁLVULA MARIPOSA PVDF
reductor manual

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**69017**	**69026**	1568 l/min
80	10	90	**69018**	**69027**	4980 l/min
100	10	110	**69019**	**69028**	7212 l/min
125	10	125-140	**69020**	**69029**	12320 l/min
150	10	160	**69021**	**69030**	25447 l/min
200	10	200-225	**69022**	**69031**	35778 l/min
250	6	250-280	**69023**	**69032**	65222 l/min
300	6	315	**69024**	**69033**	94660 l/min

ABS BUTTERFLY VALVE - WAFER STYLE

VÁLVULA MARIPOSA ABS - TIPO WAFER

ABS BUTTERFLY VALVE
handle

VÁLVULA MARIPOSA ABS
maneta

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66750**	**66751**	
65	10	63-75	**62069**	**62075**	1568 l/min
80	10	90	**62070**	**62076**	4980 l/min
100	10	110	**62071**	**62077**	7212 l/min
125	10	125-140	**62072**	**62078**	12320 l/min
150	10	160	**62073**	**62079**	25447 l/min
200	10	200-225	**62074**	**62080**	35778 l/min

ABS BUTTERFLY VALVE
bare shaft

VÁLVULA MARIPOSA ABS
eje libre

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66752**	**66753**	
65	10	63-75	**62081**	**62089**	1568 l/min
80	10	90	**62082**	**62090**	4980 l/min
100	10	110	**62083**	**62091**	7212 l/min
125	10	125-140	**62084**	**62092**	12320 l/min
150	10	160	**62085**	**62093**	25447 l/min
200	10	200-225	**62086**	**62094**	35778 l/min
250	6	250-280	**62087**	**62095**	65222 l/min
300	6	315	**62088**	**62096**	94660 l/min

ABS BUTTERFLY VALVE
gear box

VÁLVULA MARIPOSA ABS
reductor manual

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
40	10	50	**66754**	**66755**	
65	10	63-75	**62097**	**62105**	1568 l/min
80	10	90	**62098**	**62106**	4980 l/min
100	10	110	**62099**	**62107**	7212 l/min
125	10	125-140	**62100**	**62108**	12320 l/min
150	10	160	**62101**	**62109**	25447 l/min
200	10	200-225	**62102**	**62110**	35778 l/min
250	6	250-280	**62103**	**62111**	65222 l/min
300	6	315	**62104**	**62112**	94660 l/min

ABS BUTTERFLY VALVE - LUG STYLE

VÁLVULA MARIPOSA ABS - TIPO LUG

ABS BUTTERFLY VALVE
handle

VÁLVULA MARIPOSA ABS
maneta

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**69035**	**69045**	1568 l/min
80	10	90	**69036**	**69047**	4980 l/min
100	10	110	**69037**	**69048**	7212 l/min
125	10	125-140	**69038**	**69049**	12320 l/min
150	10	160	**69039**	**69051**	25447 l/min
200	10	200-225	**69040**	**69055**	35778 l/min

ABS BUTTERFLY VALVE
bare shaft

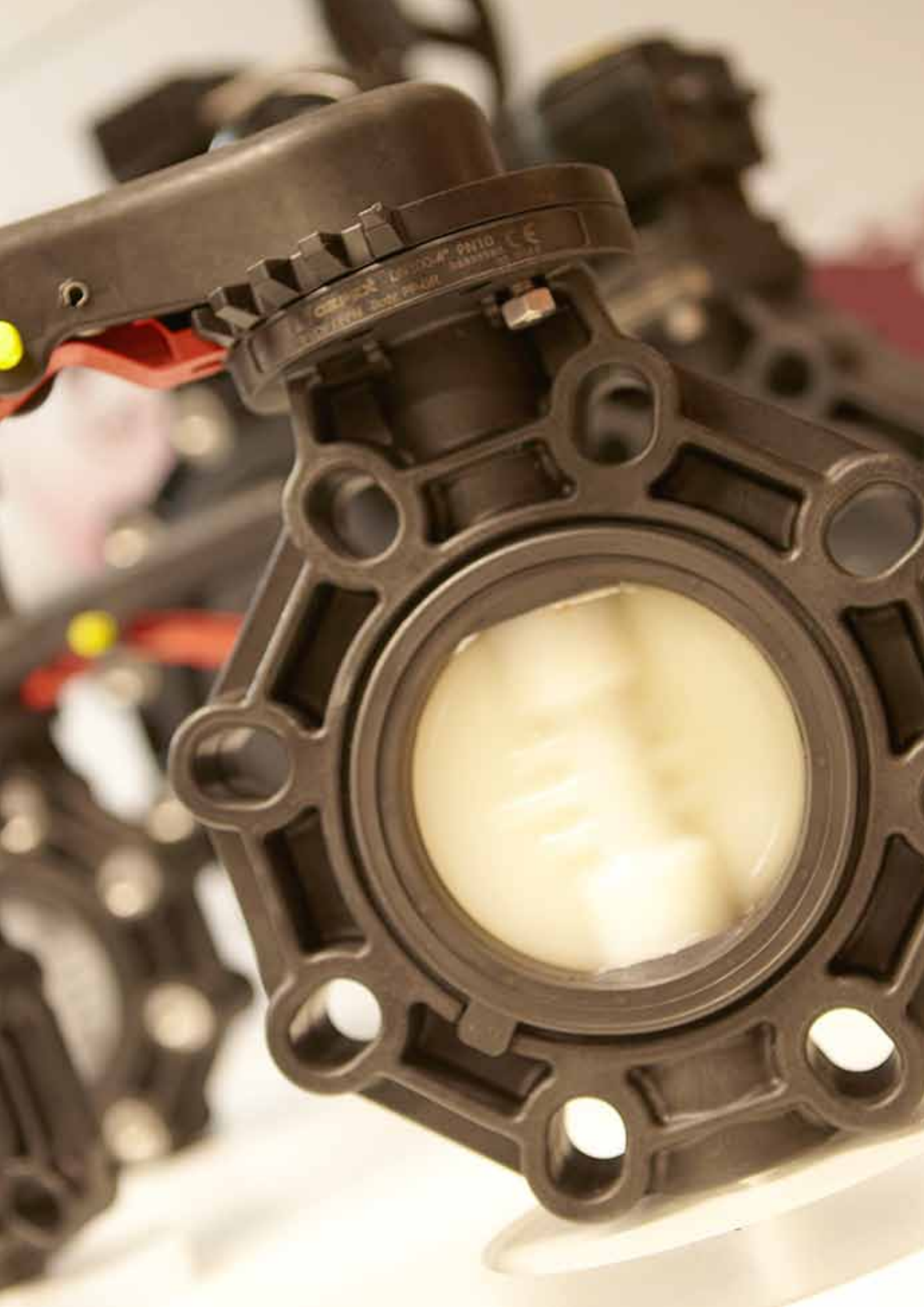
VÁLVULA MARIPOSA ABS
eje libre

DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**69057**	**69066**	1568 l/min
80	10	90	**69058**	**69067**	4980 l/min
100	10	110	**69059**	**69068**	7212 l/min
125	10	125-140	**69060**	**69069**	12320 l/min
150	10	160	**69061**	**69070**	25447 l/min
200	10	200-225	**69062**	**69071**	35778 l/min
250	6	250-280	**69063**	**69072**	65222 l/min
300	6	315	**69064**	**69073**	94660 l/min

ABS BUTTERFLY VALVE
gear box

VÁLVULA MARIPOSA ABS
reductor manual

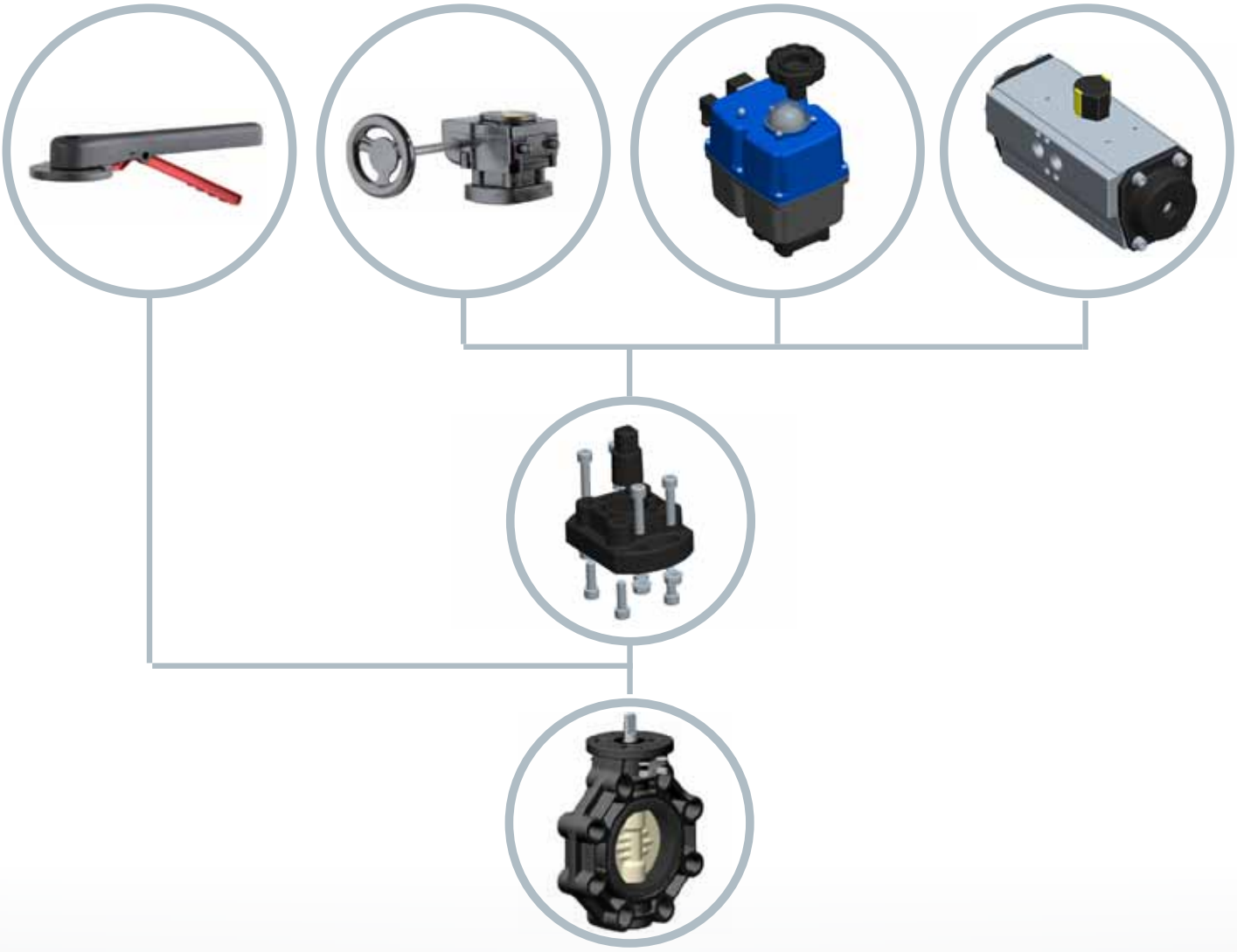
DN	PN	D	EPDM	FPM	FLOW *CAUDAL*
65	10	63-75	**69075**	**69084**	1568 l/min
80	10	90	**69076**	**69085**	4980 l/min
100	10	110	**69077**	**69086**	7212 l/min
125	10	125-140	**69078**	**69087**	12320 l/min
150	10	160	**69079**	**69088**	25447 l/min
200	10	200-225	**69080**	**69089**	35778 l/min
250	6	250-280	**69081**	**69090**	65222 l/min
300	6	315	**69082**	**69091**	94660 l/min



Actuated valves
Válvulas actuadas

Valve actuation
■ Different actuation possibilities both electric and pneumatic.
■ Different manufacturers for every actuator.
■ Tailor made actuation for every application thanks to the assembly standards accomplishment.
■ Different accessories: electric and pneumatics digital positioners, limit switch boxes, electric security blocks, etc.

Actuación de válvula
■ *Diferentes posibilidades de automatización tanto eléctrica como neumática*
■ *Diferentes fabricantes de actuadores.*
■ *Actuación a medida para cada aplicación gracias al cumplimiento de estándares de montaje.*
■ *Accesorios incorporables como posicionadores eléctricos y neumáticos, finales de carrera, bloques de seguridad eléctricos, etc.*

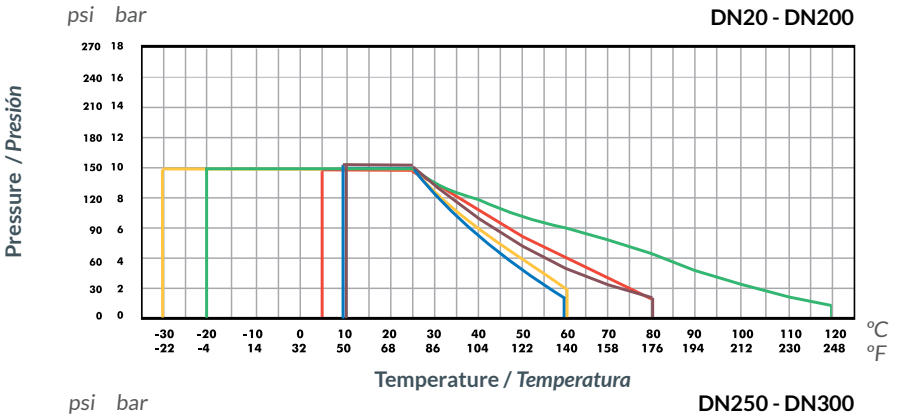


Design regulations
Normativas de diseño

	PRODUCT - *PRODUCTO*	BT (BUTTERFLY / MARIPOSA)
Applications and characteristics *Aplicaciones y características*	Use / *Uso*	Industrial
	Nominal pressure (PN) / *Presión trabajo (PN)*	PN 6 - PN10
	Nominal diameter (DN) / *Diámetro nominal (DN)*	DN65 –DN300
	Body material / *Material cuerpo*	PP + G. R
	Disc material / *Material de la compuerta*	PVCU - PPH - CPVC - PVDF - ABS
	O-ring material / *Material de las juntas*	EPDM - FPM
	Valve pass / *Paso de válvula*	DN
	Gral. functions / *Funciones generales*	IQuarter. All or nothing / Bi-directional
Regulations *Regulaciones*	Design regulation / *Regulación del diseño*	ISO /16136 : 2005
	Flange regulation (PN) / *Regulación de la brida (PN)*	EN 558-1
	Valves unions / *Uniones de la válvula*	EN 1092-1
	Bolts / *Tornillería*	EN / ISO 898
	Other connections / *Otras conexiones*	ISO 15494 - ISO 15493 – ISO 10931
	Actuators connection / *Conexión de actuadores*	EN / ISO 5211
Actuated *Accionado*	Actuation types / *Tipos de actuadores*	Table 1.1
	Actuation accessories / *Accesorios de actuación*	Different option. (sizes) / Actuation coupling EN / ISO 5211
Materials *Materiales*	Body / Cuerpo	Table 1.2
	Disc / Compuerta	
	O-ring / Juntas	
	Shaft / Eje	
	O-rings / Juntas	
	Packaging / Embalaje	
	Bolts / Tornillería	
Test *Prueba*	Body material / Material cuerpo	EN 12107
	Shell body test / Prueba del cuerpo	ISO 9393-2
	O-ring water tightness / Estanqueidad al agua	ISO 9393-2
	Long therm / Larga duración	ISO 9393-2

Graphics butterfly valves
Gráficas válvulas de mariposa

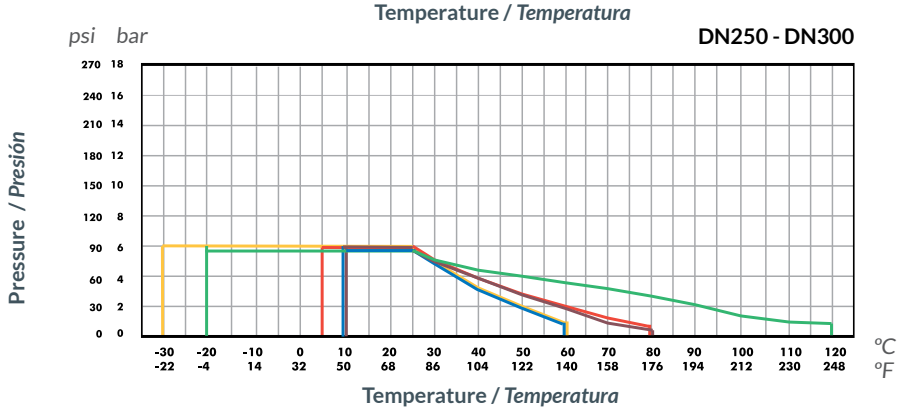
PRESSURE / TEMPERATURE
PRESIÓN / TEMPERATURA



- PVC-U
- CPVC
- PP-H
- PVDF
- ABS

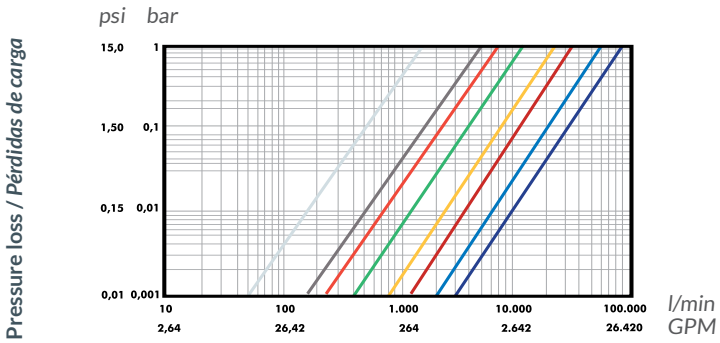
Life: 25 years
Hydrostatic maximum pressure a compnent may outstand in continous service (without overpressure)

Vida útil: 25 años
Presión hidrostática máxima que un componente es capaz de soportar en servicio continuo (sin sobrepresión)



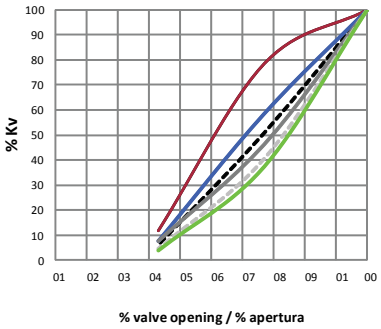
- PVC-U
- CPVC
- PP-H
- PVDF
- ABS

PRESSURE LOSS
PÉRDIDAS DE CARGA



- DN 65
- DN 80
- DN 100
- DN 125
- DN 150
- DN 200
- DN 250
- DN 300

Caudal / Apertura
Flow / valve opening



- DN65
- DN80
- DN100
- DN125
- DN150
- DN200, DN250, DN300

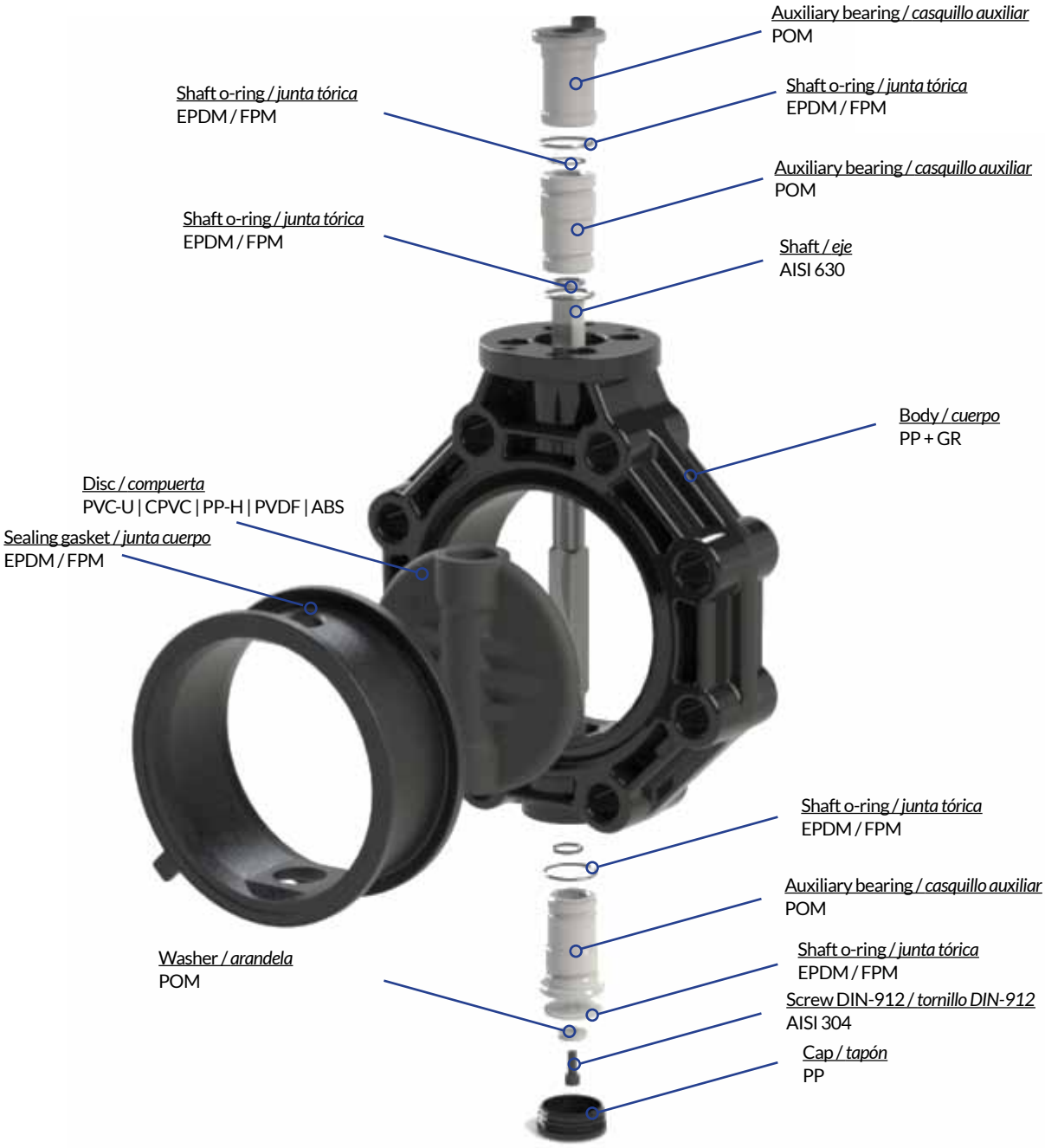
OPERATING TORQUE
PAR DE MANIOBRA

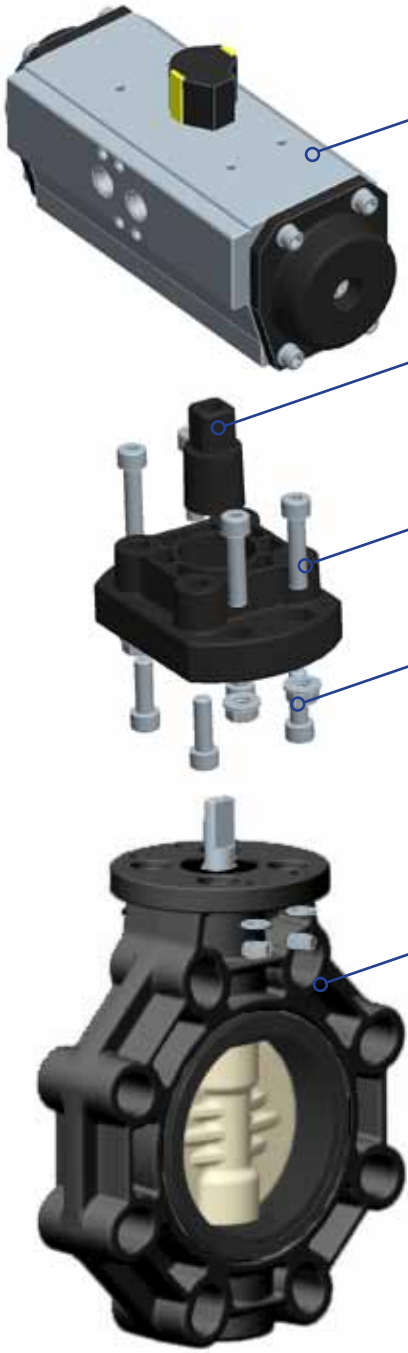
D	63-75	90	110	125-140	160	200-225	250-280	315
DN	50-65	80	100	125	150	200	250	300
Nm	25	28	35	85	110	110	180	250
in·lbf	221	248	310	752	974	974	1593	2213

Operating torque values at rated pressure (PN) and 20 °C in as new direct from the factory condition. Installation and operating conditions (pressure and temperature) will affect these values.

Los valores de par de giro se determinan a presión nominal (PN) y a 20 °C, en condiciones de salida de fábrica. Las condiciones de instalación y operación (presión y temperatura) afectarán a estos valores.

Explode
Despiece





Actuator / actuador

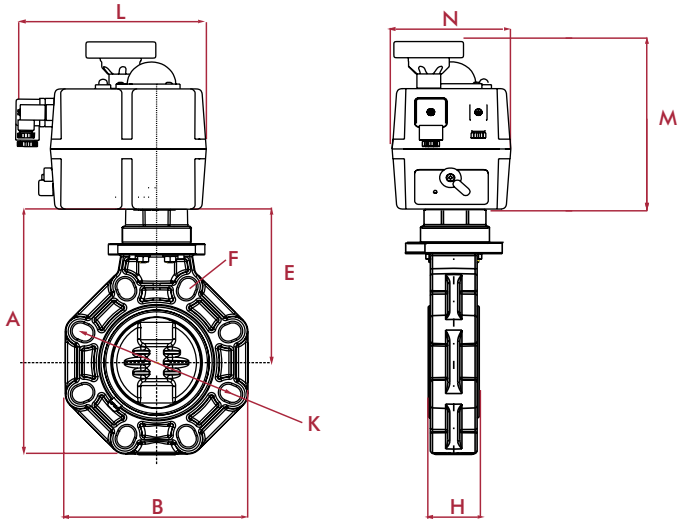
Coupling bush / conexión
Aluminium (DN40-DN150)
SS AISI-304 (DN200-DN300)

Mounting clamp / soporte actuación
PVC-U

Screws / tornillería
DIN-912 - SS AISI-304

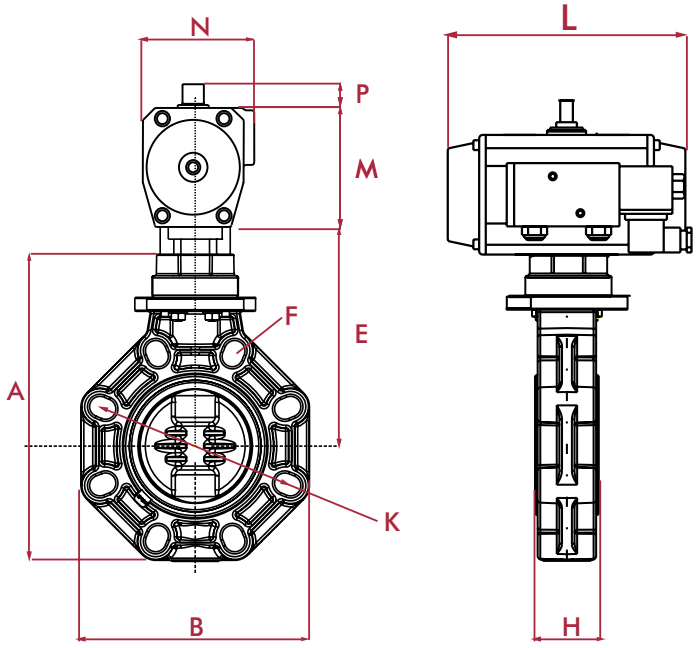
Butterfly valve / válvula de mariposa
PVC-U | PVC-C | PP-H | PVDF | ABS

Dimensions
Dimensiones



ELECTRIC ACTUATOR
ACTUADOR ELÉCTRICO

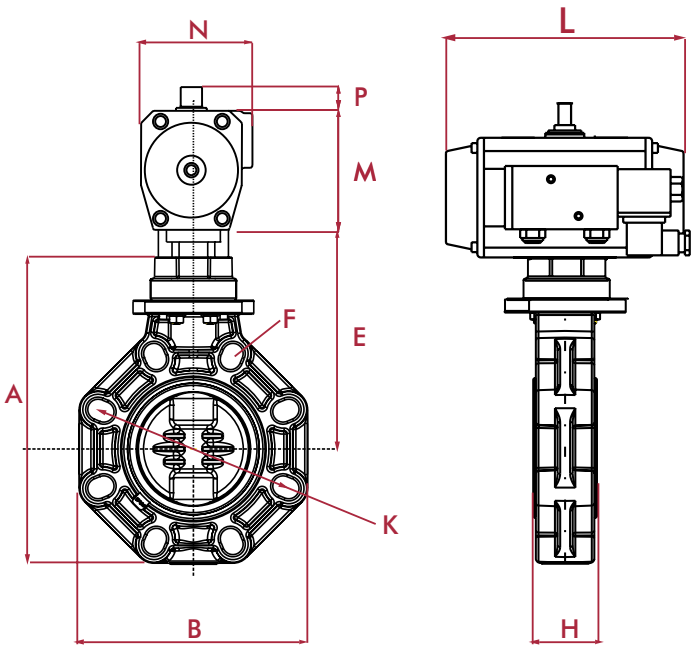
DN	D	A	B	F	H	K	E	L	M	N
65	63 - 75	201	156	18	48	125/145	150	177	196	110
80	90	232	190	19	52	150/170	166	177	196	110
100	110	255	212	19	59	180/192	178	177	196	110
125	125 - 140	284	238	22	66	190/215	194	235	254	214
150	160	314	265	24	72	240	210	235	254	214
200	200 - 225	378	320	23	73	270/298	260	235	254	214
250	250 - 280	461	453	29	114	335/362	306	235	254	214
300	315	556	477	29	114	390/432	358	235	254	214



PNEUMATIC ACTUATOR - DOUBLE ACTING
ACTUADOR NEUMÁTICO - DOBLE EFECTO

DN	D	A	B	F	H	K	E	L	M	P	N
65	63 - 75	201	156	18	48	125/145	150	137	88	30	80
80	90	232	190	19	52	150/170	166	161	100	30	92,5
100	110	255	212	19	59	180/192	178	161	100	30	92,5
125	125 - 140	284	238	22	66	190/215	194	209	117	30	110,5
150	160	314	265	24	72	240	210	223	140	30	120
200	200 - 225	378	320	23	73	270/298	260	293	140	30	120
250	250 - 280	461	453	29	114	335/362	306	293	140	30	120
300	315	556	477	29	114	390/432	358	301	160	30	137

PNEUMATIC ACTUATOR - SPRING RETURN
ACTUADOR NEUMÁTICO - SIMPLE EFECTO



DN	D	A	B	F	H	K	E	L	M	P	N
65	63 - 75	201	156	18	48	125/145	150	180	108	30	99,5
80	90	232	190	19	52	150/170	166	209	117	30	110,5
100	110	255	212	19	59	180/192	178	223	140	30	120
125	125 - 140	284	238	22	66	190/215	194	301	160	30	137
150	160	314	265	24	72	240	210	301	160	30	137
200	200 - 225	378	320	23	73	270/298	260	337	198	30	172
250	250 - 280	461	453	29	114	335/362	306	379	198	30	172
300	315	556	477	29	114	390/432	358	422	255	30	224

Correspondence ball valve - Actuator

Correspondencias válvula de bola - actuador

SIZE *Diam.*	J+J 24 VAC-VDC	J+J 85 - 240 VAC-VDC	ROTORK GT DA - DE	ROTORK GT SR - SE (NC)
D75 - 2½" - DN65	J3C S055	J3C S055	GT63 DA	GT83 K10
D90 - 3" - DN80	J3C S055	J3C S055	GT75 DA	GT92 K10
D110 - 4" - DN100	J3C S085	J3C S085	GT75 DA	GT110 K08
D140 - 5" - DN125	J3C L140	J3C H140	GT 92 DA	GT127 K10
D160 - 6" - DN150	J3C L140	J3C H140	GT110 DA	GT 127 K12
D225 - 8" - DN200	J3C L300	J3C H300	GT118 DA	GT143 K10
D250 -10" - DN250	J3C L300	J3C H300	GT118 DA	GT160 K10
D315 - 12" - DN300	J3C L300	J3C H300	GT127 DA	GT190 K08

Technical characteristics
Características técnicas

ELECTRIC ACTUATOR
ACTUADOR ELÉCTRICO

Model	Voltage	90º time	Maximum operational torque	Maximum break torque	Max. torque Consumption	Duty rating	IP rating	Temperature	Limit switch	Heating resistor	Plugs
J3C S055	20-240 VAC/VDC	14 s	55 Nm 486 in·lbf	60 Nm 530 in·lbf	24VDC - 0,33A - 8,00W 48VDC - 0,18A - 8,40W 110VDC - 0,06A - 6,10W 24 VAC - 0,47A - 11,20W 48 VAC - 0,29A - 14,20W 110 VAC - 0,12A - 13,60W 240 VAC - 0,09A - 21,10W	75%	IP 67	-20º / 70º C -4º / 158º F	4 SPTD micro	3,5 W	EN175301-803
J3C S085	20-240 VAC/VDC	30 s	85 Nm 752 in·lbf	90 Nm 796 in·lbf	24VDC - 0,33A - 7,90W 48VDC - 0,17A - 8,10W 110VDC - 0,05A - 5,80W 24 VAC - 0,45A - 10,80W 48 VAC - 0,28A - 13,30W 110 VAC - 0,11A - 12,30W 240 VAC - 0,08A - 18,50W	75%	IP 67	-20º / 70º C -4º / 158º F	4 SPTD micro	3,5 W	EN175301-803
J3C L140	24 VAC/VDC	34 s	140 Nm 1239 in·lbf	170 Nm 1504 in·lbf	24 VAC - 1900 mA - 45,6 W 24 VDC - 900 mA - 21,6 W	75%	IP 67	-20º / 70º C -4º / 158º F	4 SPTD micro	3,5 W	DIN 43650 ISO 4400 & C192
J3C H140	85-240 VAC/VDC				110 V - 700 mA - 77 W 220 V - 230 mA - 50,6 W						
J3C L300	24 VAC/VDC	60 s	300 Nm 2665 in·lbf	350 Nm 3097 in·lbf	24 VAC - 1900 mA - 45,6 W 24 VDC - 900 mA - 21,6 W	75%	IP 67	-20º / 70º C -4º / 158º F	4 SPTD micro	3,5 W	DIN 43650 ISO 4400 & C192
J3C H300	85-240 VAC/VDC				110 V - 700 mA - 77 W 220 V - 230 mA - 50,6 W						

PNEUMATIC ACTUATOR - DOUBLE ACTING
ACTUADOR NEUMÁTICO - DOBLE EFECTO

Model	Pneumatic torque (Nm)								
	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar
GT63 DA	11,6	17,4	23,2	29,0	34,8	37,7	46,4	52,2	28,0
GT75 DA	20,0	30,0	40,0	50,0	60,0	70,0	80,0	90,0	100,0
GT92 DA	40,0	60,0	80,0	100,0	120,0	140,0	160,0	180,0	200,0
GT110 DA	58,0	87,0	116,0	145,0	174,0	203,0	232,0	261,0	290,0
GT118 DA	86,0	129,0	172,0	215,0	258,0	301,0	344,0	387,0	430,0
GT127 DA	116,0	174,0	232,0	290,0	348,0	406,0	464,0	522,0	580,0

PNEUMATIC ACTUATOR - SPRING RETURN
ACTUADOR NEUMÁTICO - SIMPLE EFECTO

Model	Spring torque (Nm)		Pneumatic torque (Nm)																	
			2 bar		3 bar		4 bar		5 bar		6 bar		7 bar		8 bar		9 bar		10 bar	
	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º	0º	90º
GT83	36,14	55,97	-	-	-	-	-	-	35,62	15,39	50,12	29,89	64,62	44,39	79,11	58,89	93,61	73,36	108,1	87,88
GT92	45,51	71,72	-	-	-	-	33,59	6,86	53,60	26,86	73,60	46,86	93,60	66,86	113,6	86,87	133,6	106,9	153,6	126,9
GT110	63,22	94,84	-	-	-	-	51,5	19,3	80,5	48,3	109,5	77,3	138,5	106,3	167,5	135,3	196,5	164,3	225,5	193,3
GT127	149,7	243,9	-	-	-	-	-	-	137,3	41,2	195,3	99,2	253,3	157,2	311,3	215,2	369,3	273,2	427,3	331,2
GT127*	179,6	292,7	-	-	-	-	-	-	-	-	164,8	49,4	22,8	107,4	280,8	165,4	338,8	223,4	396,8	281,4
GT143	240,3	344,4	-	-	-	-	126,9	20,7	219,9	113,7	312,9	206,7	405,9	299,7	498,9	392,7	591,9	485,7	684,9	578,7
GT160	279,4	415,0	-	-	-	-	172,2	32,6	287,2	147,6	402,2	262,6	517,2	377,6	632,2	492,6	747,2	607,6	862,2	722,6
GT190	424,9	535,6	-	-	162,4	48,4	362,4	248,4	562,4	448,4	762,4	648,4	962,4	848,4	1162	1048	1362	1248	1562	1448

* *GT127 K12*

PVC-U BUTTERFLY VALVE - ACTUATED

VÁLVULA MARIPOSA PVC-U - ACTUADA

PVC-U BUTTERFLY VALVE
pneumatic actuator (NC)

VÁLVULA MARIPOSA PVC-U
actuador neumático (NC)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
40	10	50	**6672505R**	**6672507R**	**6672605R**	**6672607R**	
65	10	63-75	**6136505R**	**6136507R**	**6146005R**	**6146007R**	1568 l/min
80	10	90	**6136605R**	**6136607R**	**6146105R**	**6146107R**	4980 l/min
100	10	110	**6136705R**	**6136707R**	**6146205R**	**6146207R**	7212 l/min
125	10	125-140	**6136805R**	**6136807R**	**6146305R**	**6146307R**	12320 l/min
150	10	160	**6136905R**	**6136907R**	**6146405R**	**6146407R**	25447 l/min
200	10	200-225	**6137005R**	**6137007R**	**6146505R**	**6146507R**	35778 l/min
250	6	250-280	**6147205R**	**6147207R**	**6148005R**	**6148007R**	65222 l/min
300	6	315	**6147305R**	**6147307R**	**6148105R**	**6148107R**	94660 l/min

PVC-U BUTTERFLY VALVE
electric actuator

VÁLVULA MARIPOSA PVC-U
actuador eléctrico

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
40	10	50	**6672509J**		**6672609J**		
65	10	63-75	**6136509J**		**6146009J**		1568 l/min
80	10	90	**6136609J**		**6146109J**		4980 l/min
100	10	110	**6136709J**		**6146209J**		7212 l/min
125	10	125-140	**6136809J**	**6136810J**	**6146309J**	**6146310J**	12320 l/min
150	10	160	**6136909J**	**6136910J**	**6146409J**	**6146410J**	25447 l/min
200	10	200-225	**6137009J**	**6137010J**	**6146509J**	**6146510J**	35778 l/min
250	6	250-280	**6147209J**	**6147210J**	**6148009J**	**6148010J**	65222 l/min
300	6	315	**6147309J**	**6147310J**	**6148109J**	**6148110J**	94660 l/min

CPVC BUTTERFLY VALVE - ACTUATED

VÁLVULA MARIPOSA CPVC - ACTUADA

CPVC BUTTERFLY VALVE
pneumatic actuator (NC)

VÁLVULA MARIPOSA CPVC
actuador neumático (NC)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
40	10	50	**6673405R**	**6673407R**	**6673505R**	**6673507R**	
65	10	63-75	**6149805R**	**6149807R**	**6150405R**	**6150407R**	1568 l/min
80	10	90	**6149905R**	**6149907R**	**6150505R**	**6150507R**	4980 l/min
100	10	110	**6150005R**	**6150007R**	**6150605R**	**6150607R**	7212 l/min
125	10	125-140	**6150105R**	**6150107R**	**6150705R**	**6150707R**	12320 l/min
150	10	160	**6150205R**	**6150207R**	**6150805R**	**6150807R**	25447 l/min
200	10	200-225	**6150305R**	**6150307R**	**6150905R**	**6150907R**	35778 l/min
250	6	250-280	**6151605R**	**6151607R**	**6152405R**	**6152407R**	65222 l/min
300	6	315	**6151705R**	**6151707R**	**6152505R**	**6152507R**	94660 l/min

CPVC BUTTERFLY VALVE
electric actuator

VÁLVULA MARIPOSA CPVC
actuador eléctrico

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
40	10	50	**6673409J**		**6673509J**		
65	10	63-75	**6149809J**		**6150409J**		1568 l/min
80	10	90	**6149909J**		**6150509J**		4980 l/min
100	10	110	**6150009J**		**6150609J**		7212 l/min
125	10	125-140	**6150109J**	**6150110J**	**6150709J**	**6150710J**	12320 l/min
150	10	160	**6150209J**	**6150210J**	**6150809J**	**6150810J**	25447 l/min
200	10	200-225	**6150309J**	**6150310J**	**6150909J**	**6150910J**	35778 l/min
250	6	250-280	**6151609J**	**6151610J**	**6152409J**	**6152410J**	65222 l/min
300	6	315	**6151709J**	**6151710J**	**6152509J**	**6152510J**	94660 l/min

PP-H BUTTERFLY VALVE - ACTUATED
VÁLVULA MARIPOSA PP-H - ACTUADA

PP-H BUTTERFLY VALVE
pneumatic actuator (NC)

VÁLVULA MARIPOSA PP-H
actuador neumático (NC)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
40	10	50	**6673805R**	**6673807R**	**6673905R**	**6673907R**	
65	10	63-75	**6154205R**	**6154207R**	**6196205R**	**6196207R**	1568 l/min
80	10	90	**6154305R**	**6154307R**	**6196305R**	**6196307R**	4980 l/min
100	10	110	**6154405R**	**6154407R**	**6196405R**	**6196407R**	7212 l/min
125	10	125-140	**6154505R**	**6154507R**	**6196505R**	**6196507R**	12320 l/min
150	10	160	**6154605R**	**6154607R**	**6196605R**	**6196607R**	25447 l/min
200	10	200-225	**6154905R**	**6154907R**	**6196705R**	**6196707R**	35778 l/min
250	6	250-280	**6197405R**	**6197407R**	**6198205R**	**6198207R**	65222 l/min
300	6	315	**6197505R**	**6197507R**	**6198305R**	**6198307R**	94660 l/min

PP-H BUTTERFLY VALVE
electric actuator

VÁLVULA MARIPOSA PP-H
actuador eléctrico

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
40	10	50	**6673809J**		**6673909J**		
65	10	63-75	**6154209J**		**6196209J**		1568 l/min
80	10	90	**6154309J**		**6196309J**		4980 l/min
100	10	110	**6154409J**		**6196409J**		7212 l/min
125	10	125-140	**6154509J**	**6154510J**	**6196509J**	**6196510J**	12320 l/min
150	10	160	**6154609J**	**6154610J**	**6196609J**	**6196610J**	25447 l/min
200	10	200-225	**6154909J**	**6154910J**	**6196709J**	**6196710J**	35778 l/min
250	6	250-280	**6197409J**	**6197410J**	**6198209J**	**6198210J**	65222 l/min
300	6	315	**6197509J**	**6197510J**	**6198309J**	**6198310J**	94660 l/min

PVDF BUTTERFLY VALVE - ACTUATED

VÁLVULA MARIPOSA PVDF - ACTUADA

PVDF BUTTERFLY VALVE
pneumatic actuator (NC)

VÁLVULA MARIPOSA PVDF
actuador neumático (NC)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
40	10	50	**6674405R**	**6674407R**	**6674505R**	**6674507R**	
65	10	63-75	**6463405R**	**6463407R**	**6204705R**	**6204707R**	1568 l/min
80	10	90	**6463505R**	**6463507R**	**6204805R**	**6204807R**	4980 l/min
100	10	110	**6463605R**	**6463607R**	**6204905R**	**6204907R**	7212 l/min
125	10	125-140	**6463705R**	**6463707R**	**6205005R**	**6205007R**	12320 l/min
150	10	160	**6463805R**	**6463807R**	**6205105R**	**6205107R**	25447 l/min
200	10	200-225	**6463905R**	**6463907R**	**6205205R**	**6205207R**	35778 l/min
250	6	250-280	**6464605R**	**6464607R**	**6205905R**	**6205907R**	65222 l/min
300	6	315	**6464705R**	**6464707R**	**6206005R**	**6206007R**	94660 l/min

PVDF BUTTERFLY VALVE
electric actuator

VÁLVULA MARIPOSA PVDF
actuador eléctrico

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
40	10	50	**6674409J**		**6674509J**		
65	10	63-75	**6463409J**		**6204709J**		1568 l/min
80	10	90	**6463509J**		**6204809J**		4980 l/min
100	10	110	**6463609J**		**6204909J**		7212 l/min
125	10	125-140	**6463709J**	**6463710J**	**6205009J**	**6205010J**	12320 l/min
150	10	160	**6463809J**	**6463810J**	**6205109J**	**6205110J**	25447 l/min
200	10	200-225	**6463909J**	**6463910J**	**6205209J**	**6205210J**	35778 l/min
250	6	250-280	**6464609J**	**6464610J**	**6205909J**	**6205910J**	65222 l/min
300	6	315	**6464709J**	**6464710J**	**6206009J**	**6206010J**	94660 l/min

ABS BUTTERFLY VALVE - ACTUATED
VÁLVULA MARIPOSA ABS - ACTUADA

ABS BUTTERFLY VALVE
pneumatic actuator (NC)

VÁLVULA MARIPOSA ABS
actuador neumático (NC)

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			Spring return *Simple efecto*	Double acting *Doble efecto*	Spring return *Simple efecto*	Double acting *Doble efecto*	
40	10	50	**6675005R**	**6675007R**	**6675105R**	**6675107R**	
65	10	63-75	**6206905R**	**6206907R**	**6207505R**	**6207507R**	1568 l/min
80	10	90	**6207005R**	**6207007R**	**6207605R**	**6207607R**	4980 l/min
100	10	110	**6207105R**	**6207107R**	**6207705R**	**6207707R**	7212 l/min
125	10	125-140	**6207205R**	**6207207R**	**6207805R**	**6207807R**	12320 l/min
150	10	160	**6207305R**	**6207307R**	**6207905R**	**6207907R**	25447 l/min
200	10	200-225	**6207405R**	**6207407R**	**6208005R**	**6208007R**	35778 l/min
250	6	250-280	**6208705R**	**6208707R**	**6209505R**	**6209507R**	65222 l/min
300	6	315	**6208805R**	**6208807R**	**6209605R**	**6209607R**	94660 l/min

ABS BUTTERFLY VALVE
electric actuator

VÁLVULA MARIPOSA ABS
actuador eléctrico

DN	PN	D	EPDM		FPM		FLOW *CAUDAL*
			85-240V	24V	85-240V	24V	
40	10	50	**6675009J**		**6675109J**		
65	10	63-75	**6206909J**		**6207509J**		1568 l/min
80	10	90	**6207009J**		**6207609J**		4980 l/min
100	10	110	**6207109J**		**6207709J**		7212 l/min
125	10	125-140	**6207209J**	**6207210J**	**6207809J**	**6207810J**	12320 l/min
150	10	160	**6207309J**	**6207310J**	**6207909J**	**6207910J**	25447 l/min
200	10	200-225	**6207409J**	**6207410J**	**6208009J**	**6208010J**	35778 l/min
250	6	250-280	**6208709J**	**6208710J**	**6209509J**	**6209510J**	65222 l/min
300	6	315	**6208809J**	**6208810J**	**6209609J**	**6209610J**	94660 l/min

CHEMICAL RESISTANCE CHART
TABLA DE RESISTENCIAS QUÍMICAS

Name *Nombre*	*Formula* *Fórmula*	*ºC*	*PVC-U*	*CPVC*	*ABS*	*PE*	*PP-H*	*PVDF*	*EPDM*	*FPM*	*NBR*
2-Chloroethanol	CLCH2-CH2OH	**20**	N	N	N	R	R	R	L	R	N
		40				1,1	1,4	1,2	N	L	
		60				L	L	L		N	
		80				N	N	N			
		100									
		120									
		140									
Acvetaldehyde, 0-40% aqueous solution	CH3-CHO	**20**	N	N	N	R	R	N	R	L	N
		40				L	L		L	N	
		60				N	L		N		
		80					N				
		100									
		120									
		140									
Acetaldehyde	CH3-CHO	**20**	N	N	N	R	L	R	N	R	N
		40				L	N	L		L	
		60				N		L		N	
		80						N			
		100									
		120									
		140									
Acetic acid anhydride	(CH3-CO)2O	**20**	N	N	N	R	R	N	L	N	N
		40				L	L		L		
		60				N	N		N		
		80									
		100									
		120									
		140									
Acetic acid, 0-10%	CH3COOH	**20**	1,2	R	N	1,2	1,4	1,2	R	R	N
		40	1,2	R		1,2	1,4	1,2	R	L	
		60	1,2	R		L	L	1,2	R	N	
		80	N	R		N	N	1,2	L		
		100		N				1,2	N		
		120						L			
		140						N			
Acetic acid, >80%	CH3COOH	**20**	L	L	N	L	L	L	R	N	N
		40	L	L		N	N	L	L		
		60	N	N				L	N		
		80						N			
		100									
		120									
		140									
Acetone	CH3-CO-CH3	**20**	N	N	N	R	R	N	R	N	N
		40				R	R		R		
		60				L	R		R		
		80				N	L		R		
		100					N		N		
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Acetone, up to 10% aqueous	CH3-CO-CH3	**20**	N	N	L	R	R	1,1	R	N	N
		40			N	R	R	1,1	R		
		60				R	R	1,1	R		
		80				N	L	L	L		
		100					N	N	N		
		120									
		140									
Acetonitrile	CH3CN	**20**	N	N	N	L	L	N	L	N	L
		40				N	N		N		N
		60									
		80									
		100									
		120									
		140									
Acetophenone	CH3-CO-C6H5	**20**	N	N	N	L	L	L	R	N	N
		40				N	N	N	L		
		60							N		
		80									
		100									
		120									
		140									
Acrylic acid ethylester	CH2	**20**	N	N	N	L	N	L	L	N	N
		40				N		N	N		
		60									
		80									
		100									
		120									
		140									
Acrylic acid methylester	CH2	**20**	N	N	N	L	L	L	L	L	L
		40				N	N	N	N	N	N
		60									
		80									
		100									
		120									
		140									
Acrylonitrile	CH2	**20**	N	N	N	R	R	L	R	L	N
		40				R	L	N	R	N	
		60				R	L		L		
		80				N	N		N		
		100									
		120									
		140									
Adipic acid	HOOC-(CH2)4-COOH	**20**	R	R	N	R	R	R	R	R	R
		40	R	R		R	R	R	R	R	R
		60	N	R		R	R	R	R	R	R
		80		R		N	R	R	L	L	L
		100		N			N	L	N	N	N
		120						N			
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Allyl alcohol, 96%	H2C=CH-CH2-OH	**20**	L	L	N	R	L	L	R	L	R
		40	N	L		R	L	L	R	L	R
		60		N		L	N	N	L	N	R
		80				N			N		R
		100									L
		120									N
		140									
Aluminium salts, aqueous inorganic	AlCl3, Al(NO3)3, AlF3, Al(SO4)3	**20**	R	R	R	R	R	R	R	R	R
		40	R	R		R	R	R	R	R	R
		60	R	R		R	R	R	R	R	L
		80	N	L		N	R	R	L	L	N
		100		N			N	L	N	L	
		120						N		N	
		140									
Ammonia, gaseous, dry/wet	NH3	**20**	R	N	N	R	R	L	R	N	R
		40	R			R	R	N	R		L
		60	R			R	R		R		N
		80	N			N	L		L		
		100					N		N		
		120									
		140									
Ammonium salts, various, aqueous, inorganic		**20**	R	R	R	R	R	R	R	R	R
		40	R	R		R	R	R	R	L	R
		60	R	R		R	R	R	L	L	L
		80	N	R		N	R	R	L	L	N
		100		N			N	R	N	N	
		120						N			
		140									
Amyl acetate	CH3(CH2)4-COOCH3	**20**	N	N	N	R	L	R	R	N	N
		40				L	N	L	L		
		60				N		N	N		
		80									
		100									
		120									
		140									
Amyl alcohol	CH3(CH2)3-CH2-OH	**20**	R	L	N	R	R	R	R	R	R
		40	R	L		R	R	R	R	R	R
		60	L	L		R	R	R	R	R	R
		80	N	N		N	L	R	L	L	L
		100					N	L	N	N	N
		120						N			
		140									
Aniline	C6H5NH2	**20**	N	N	N	R	R	R	R	L	N
		40				L	R	L	R	L	
		60				N	L	L	R	N	
		80					N	N	L		
		100							N		
		120									
		140									

Name *Nombre*	Formula *Fórmula*	*ºC*	*PVC-U*	*CPVC*	*ABS*	*PE*	*PP-H*	*PVDF*	*EPDM*	*FPM*	*NBR*
Antimony trichloride, 0-80%	SbCl3	**20**	R	R	N	R	R	1,1	R	R	N
		40	R	R		R	R	1,1	L	L	L
		60	L	R		R	R	L	L	N	N
		80	N	L		N	L	N	N		
		100		N			N				
		120									
		140									
Aqua regia	HNO3+3HCl	**20**	L	R	N	N	N	L	N	L	N
		40	N	L				L		N	
		60		N				L			
		80						N			
		100									
		120									
		140									
Arsenic acid, 80%	H3AsO4	**20**	R	R	R	R	R	1,1	R	R	R
		40	R	R	R	R	R	1,1	R	R	R
		60	L	R	R	R	R	1,1	R	R	R
		80	N	R	N	N	R	1,1	R	R	L
		100		N			N	L	N	R	N
		120						N		N	
		140									
Barium salts, aqueous, inorganic		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	L	R	R	R	R	R	R
		60	R	R	N	R	R	R	R	R	R
		80	N	R		N	R	R	L	R	L
		100		N			N	R	N	R	N
		120						L		L	
		140						N		N	
Beer		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	L	R	R	R	R	R	R
		60	R	R	N	R	R	R	R	R	R
		80	N	R		N	R	R	L	R	L
		100		N			N	L	N	L	N
		120						N		N	
		140									
Benzaldehyde	C6H5-CHO	**20**	N	N	N	R	R	R	R	N	N
		40				L	L	L	R		
		60				N	N	N	L		
		80							N		
		100									
		120									
		140									
Benzene	C6H6	**20**	N	N	N	N	N	R	N	L	N
		40						L		N	
		60						N			
		80									
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Benzene sulfonic acid	C6H5SO3H	**20**	R	R	R	R	1,1	N	R	N	N
		40	R	L		R	R	1,1		R	
		60	L	N		L	L	1,1		R	
		80	N			N	N	1,1		L	
		100						1,1		N	
		120						L			
		140						N			
Benzoic acid	C6H5-COOH	**20**	R	R	R	R	R	R	L	R	R
		40	R	R	R	R	R	R		R	L
		60	L	R	L	R	R	R		R	N
		80	N	L	N	N	R	R		R	
		100		N			N	L		L	
		120						N		N	
		140									
Benzyl alcohol	C6H5-CH2-OH	**20**	L	N	N	R	R	1,1	R	R	N
		40	N			R	R	1,1	L	R	
		60				L	L	L	L	L	
		80				N	N	N	N	N	
		100									
		120									
		140									
Beryllium salts, aqueous, inorganic		**20**	R	R	L	R	R	R	R	R	R
		40	R	R	N	R	R	R	R	R	R
		60	R	R		R	R	R	R	R	L
		80	N	R		N	R	R	L	R	N
		100		N			N	R	N	L	
		120						L		N	
		140						N			
Boric acid	H3BO3	**20**	R	R	R	R	R	1,1	R	R	R
		40	R	R	R	R	R	1,1	R	R	R
		60	R	R	R	R	R	1,1	R	R	R
		80	N	R	N	N	R	1,1	R	R	L
		100		N			N	1,1	N	R	N
		120						L		N	
		140						N			
Bromine water	Br-H2O	**20**	L	L	N	N	N	R	N	R	N
		40	L	L				R		L	
		60	N	N				R		L	
		80						L		N	
		100						N			
		120									
		140									
Butadiene, gaseous	H2C=CH-CH=CH2	**20**	R	L	N	L	L	R	N	L	N
		40	L	N		N	N	L		L	
		60	N					L		L	
		80						N		N	
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Butane, gaseous	C4H10	**20**	R	R	R	R	R	R	N	R	R
		40	R	L	L	R	R	R		R	R
		60	L	N	N	L	L	L		R	R
		80	N			N	N	N		L	L
		100								N	N
		120									
		140									
Butanediol 1,4, up to 10%	HO-(CH2)4-OH	**20**	L	L	N	R	R	R	R	R	R
		40	N	N		R	R	R	R	R	R
		60				R	R	R	L	R	R
		80				N	L	L	N	L	L
		100					N	N		N	N
		120									
		140									
Butanediol 1,4	HO-CH2-CH2-CH2-CH2-OH	**20**	R	R	L	R	R	R	R	R	N
		40	R	R		R	R	R	R	R	
		60	L	L		L	L	R	L	L	
		80						L			
		100									
		120									
		140									
Butanol	C4H9OH	**20**	R	L	N	R	R	R	R	R	R
		40	R	N		R	R	R	R	L	R
		60	L			L	L	R	L	N	R
		80	N			N	N	R	L		L
		100						L	N		N
		120						N			
		140									
Butyl acetate	CH3COOCH2CH2CH2CH3	**20**	N	N	N	R	L	L	L	N	N
		40				L	N	N	N		
		60				N					
		80									
		100									
		120									
		140									
Butyl phenol, p-tertiary	(CH3)3C-C6H4-OH	**20**	L	L	N	L	L	R	N	L	N
		40	N	N		N	N	R		N	
		60						R			
		80						R			
		100						L			
		120									
		140									
Butyric acid	CH3-CH2-CH2-COOH	**20**	L	L	N	L	L	N	L	L	N
		40	L	N		L	L		N	N	
		60	N			N	N				
		80									
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Cadmium salts, aqueous, inorganic		**20**	R	R	L	R	R	R	R	R	L
		40	R	R	N	R	R	R	R	R	N
		60	R	R		R	R	R	R	R	
		80	N	R		N	L	L	L	L	
		100		N			N	N	N	N	
		120									
		140									
Caesium salts, aqueous, inorganic		**20**	R	R	R	R	R	R	R	R	R
		40	R	R		R	R	R	R	R	R
		60	R	R		R	R	R	R	R	L
		80	N	R		N	R	R	L	L	N
		100		N			N	L	N	N	
		120						N			
		140									
Calcium hydroxide, aqueous	Ca(OH)2	**20**	R	L	L	R	R	L	R	R	R
		40	R	N	N	R	R	N	R	R	R
		60	R			R	R		R	L	R
		80	N			N	R		R	L	L
		100					N		N	N	N
		120									
		140									
Calcium salts		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	L	R	R	R	L	L	L
		80	N	R	N	N	R	R	N	L	N
		100		N			N	L		N	
		120						N			
		140									
Carbon doxide	CO2	**20**	R	R	L	R	R	R	R	R	R
		40	R	R	N	R	R	R	R	R	R
		60	R	R		R	R	R	R	R	R
		80	N	R		N	R	R	R	R	R
		100		N			N	L	N	L	N
		120						N		N	
		140									
Carbon tetrachloride	CCl4	**20**	N	N	N	N	N	1,3	N	R	N
		40						1,3		R	
		60						1,3		R	
		80						N		L	
		100								N	
		120									
		140									
Carbonic acid, CO2 in H2O	H2CO3	**20**	R	R	L	R	R	R	R	R	L
		40	R	R	N	R	R	R	R	R	N
		60	R	R		R	R	R	R	R	
		80	N	R		N	R	R	R	R	
		100		N			N	L	N	L	
		120						N		N	
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Chloric acid, 0-10% aqueous	HClO3	**20**	R	R	N	L	L	1,1	R	R	N
		40	L	R		N	N	1,1	R	L	
		60	N	L				1,1	L	L	
		80		N				L	L	N	
		100						N	N		
		120									
		140									
Chloric acid, >10-20% aqueous	HClO3	**20**	R	R	N	L	L	1,1	R	R	N
		40	L	R		N	N	1,1	R	L	
		60	N	L				1,1	L	L	
		80		N				L	N	N	
		100						N			
		120									
		140									
Chlorine water, saturated	Cl2 in H2O	**20**	R	R	N	N	N	N	N	N	N
		40	R	R							
		60	L	R							
		80	N	R							
		100		L							
		120									
		140									
Chlorine, gaseous, dry, pure	Cl2	**20**	L	L	N	N	N	1,1	N	R	N
		40	N	N				1,1		L	
		60						1,1		N	
		80						1,1			
		100						L			
		120									
		140									
Chlorine, gaeous, wet, 97%	Cl2	**20**	R	R	N	N	N	N	N	R	N
		40	L	R						L	
		60	N	R						N	
		80		R							
		100		L							
		120		N							
		140									
Chloroacetic acid, 100%	ClCH2COOH	**20**	L	L	N	R	R	R	L	N	N
		40	L	N		R	R	R	L		
		60	N			L	L	L	N		
		80				N	N	L			
		100						N			
		120									
		140									
Chloroacetic acid, 50% aqueous	ClCH2COOH	**20**	R	L	N	R	R	R	R	N	N
		40	L	N		R	R	R	R		
		60	L			L	R	R	L		
		80	N			N	L	R	N		
		100					N	L			
		120						N			
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Chlorobenzene	C6H5Cl	**20**	N	N	N	L	L	R	N	R	N
		40				N	N	R		R	
		60						L		L	
		80						N		N	
		100									
		120									
		140									
Chlorosulfonic acid	ClSO3H	**20**	L	L	N	N	N	R	N	N	N
		40	N	N				L			
		60						N			
		80									
		100									
		120									
		140									
Chromic acid 50% / sulfuric acid 15% / water 35%	CrO3 / H2SO4 / H2O	**20**	1,6	1,6	N	N	N	R	N	R	N
		40	1,6	1,6				R		R	
		60	N	N				L		L	
		80						N		N	
		100									
		120									
		140									
Chromic acid, <10%	CrO3H2O	**20**	1,6	L	N	N	N	1,2	N	R	N
		40	1,6	N				1,2		R	
		60	N					L		R	
		80						N		L	
		100								N	
		120									
		140									
Chromium (II) - salts, aqueous, inorganic		**20**	R	L	R	R	R	L	L	L	N
		40	R	N		R	R	R	N	L	
		60	R			L	L	R		L	
		80	N			N	N	R		N	
		100						L			
		120						N			
		140									
Compressed air, containing oil		**20**	N	N	L	L	L	R	N	R	R
		40			L	L	L	L		L	L
		60			N	L	L	L		L	N
		80				N	N	L		L	
		100						N		N	
		120									
		140									
Copper I/II salts, aqueous, various inorganic		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	R	L	R	R	R	R	L
		80	N	R	N	N	L	L	L	L	N
		100		N			N	N	N	N	
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Crotonaldehyde	CH3-CH=CH-CHO	**20**	N	N	N	R	R	R	R	L	N
		40				L	L	R	R	N	
		60				L	N	N	L		
		80				N			L		
		100							N		
		120									
		140									
Cyclohexane	C6H12	**20**	R	N	N	R	R	R	N	R	R
		40	L			L	L	R		R	R
		60	N			N	N	R		R	R
		80						L		L	L
		100						N		N	N
		120									
		140									
Cyclohexanol	C6H12O	**20**	R	L	N	R	R	R	N	R	L
		40	R	N		R	R	R		R	N
		60	L			L	L	R		R	
		80	N			N	N	L		L	
		100						N		N	
		120									
		140									
Cyclohexanone	C6H10O	**20**	N	N	N	R	L	R	L	N	N
		40				L	L	L	L		
		60				N	N	N	N		
		80									
		100									
		120									
		140									
Dextrine	(C6H10O5)n	**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	R	R	R	R	R	R	R
		80	N	R	N	N	L	R	L	L	L
		100		N			N	L	N	N	N
		120						N			
		140									
Dibrombenzene	C6H5Br2	**20**	N	N	N	N	N	R	N	R	N
		40						L		L	
		60						L		L	
		80						L		L	
		100						N		N	
		120									
		140									
Dibutyl ether	C4H9OC4H9	**20**	N	N	N	L	L	R	L	L	N
		40				L	L	R	N	N	
		60				N	N	R			
		80						L			
		100						N			
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Dybutil phthalate	C6H4(COOC4H9)2	**20**	N	N	N	R	R	R	L	L	N
		40				R	L	L	L	L	
		60				L	N	L	L	N	
		80				N		N	N		
		100									
		120									
		140									
Dichloroacetic acid, <50%	Cl2CHCOOH	**20**	R	N	N	R	R	R	L	L	L
		40	R			R	R	L	L	L	N
		60	L			L	L	N	N	N	
		80	N			N	N				
		100									
		120									
		140									
Dichloroacetic acid, 100%	Cl2CHCOOH	**20**	R	N	N	L	L	R	N	L	N
		40	L			N	N	L		N	
		60	N					N			
		80									
		100									
		120									
		140									
Dichloroacetic acid, methyl ester	Cl2CHCOOCH3	**20**	N	N	N	R	R	L	R	N	N
		40				R	R	N	L		
		60				L	R		N		
		80				N	L				
		100					N				
		120									
		140									
Diclorobenzene	C6H4Cl2	**20**	N	N	N	L	L	R	N	R	N
		40				N	N	R		R	
		60						R		R	
		80						L		L	
		100						N		N	
		120									
		140									
Dichlorodifluoro methane, gaseous	CCl2F2	**20**	N	N	N	L	L	R	L	L	L
		40				N	N	R	N	N	N
		60						R			
		80						L			
		100						N			
		120									
		140									
Dichloroethylene	ClCH=CHCl	**20**	N	N	N	N	N	R	N	R	N
		40						R		R	
		60						L		L	
		80						N		N	
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	*ºC*	*PVC-U*	*CPVC*	*ABS*	*PE*	*PP-H*	*PVDF*	*EPDM*	*FPM*	*NBR*
Diesel oil		**20**	R	R	N	1,1	L	R	N	R	R
		40	L	L		L	N	R		R	L
		60	N	N		N		R		L	N
		80						L		N	
		100						N			
		120									
		140									
Diethyl ether	H5C2-O-C2H5	**20**	N	N	N	L	L	N	N	N	N
		40				N	N				
		60									
		80									
		100									
		120									
		140									
Diethylamine	(C2H5)2NH	**20**	N	N	N	R	R	N	R	N	N
		40				L	L		L		
		60				N	N		N		
		80									
		100									
		120									
		140									
Disobutyl ketone	[(CH3)2CHCH2]2CO	**20**	N	N	N	R	R	R	R	N	N
		40				L	L	L	R		
		60				N	N	L	L		
		80						N	N		
		100									
		120									
		140									
Disopropyl ether	(CH3)2CH-O-CH(CH3)2	**20**	N	N	N	L	L	R	N	N	L
		40				N	N	R			N
		60						L			
		80						N			
		100									
		120									
		140									
Dimethyl formamide	(CH3)2CHNO	**20**	N	N	N	R	R	N	R	N	L
		40				R	R		L		N
		60				L	R		L		
		80				N	L		N		
		100					N				
		120									
		140									
Dimethylamine	(CH3)2NH	**20**	N	N	N	R	R	N	R	N	N
		40				L	L		L		
		60				N	N		N		
		80									
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Dioxane	C4H8O2	**20**	N	N	N	R	L	L	R	N	N
		40				L	N	N	L		
		60				N			N		
		80									
		100									
		120									
		140									
Ethanolamine	C2H7NO	**20**	N	N	N	R	R	L	R	N	L
		40				L	L	N	L		N
		60				N	N		N		
		80									
		100									
		120									
		140									
Ethyl alcohol	CH3-CH2-OH	**20**	R	L	N	R	R	R	R	L	L
		40	R	N		R	R	R	R	N	N
		60	L			R	R	L	R		
		80	N			N	R	L	L		
		100					N		N		
		120									
		140									
Ethyl benzene	C6H5-CH2CH3	**20**	N	N	N	L	L	R	N	R	N
		40				N	N	L		L	
		60						L		N	
		80						L			
		100									
		120									
		140									
Ethylacetate	CH3COOC2H5	**20**	N	N	N	R	R	R	R	N	L
		40				L	L	L	R		
		60							L		
		80									
		100									
		120									
		140									
Ethylchloride, gaseous	C2H5Cl	**20**	N	N	N	L	L	R	N	R	N
		40				N	N	L		L	
		60						L		L	
		80						N		N	
		100									
		120									
		140									
Ethylene diamine	H2N-CH2-CH2-NH2	**20**	N	N	N	R	R	L	R	N	R
		40				R	R	N	L		L
		60				R	R		L		N
		80				N	L		N		
		100					N				
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Ethilene glycol <50% aqueous	HO-CH2-CH2-OH	**20**	L	N	1,7	1,1	1,1	1,1	R	R	R
		40	L		1,7	1,1	1,1	1,1	R	R	R
		60	N		L	L	1,1	1,1	R	R	R
		80			N	N	L	1,1	R	L	R
		100					N	L	N	L	L
		120						N		N	N
		140									
Ethylene glycol	HO-CH2-CH2-OH	**20**	N	N	N	1,1	1,1	1,1	R	R	R
		40				1,1	1,1	1,1	R	R	R
		60				L	L	1,1	R	R	R
		80				N	N	1,1	R	L	R
		100						L	N	N	L
		120						N			N
		140									
Ethylenediamine tetraacetid acid	C10H16N2O8	**20**	L	L	1,4	1,4	L	R	L	L	N
		40	N	N		1,4	1,4	N	L	N	
		60				L	L		L		
		80				N	N		N		
		100									
		120									
		140									
Fluorosilicic acid, <32%	H2SiF6	**20**	R	R	R	R	R	R	R	R	L
		40	R	R		R	R	R	L	R	N
		60	R	L		R	R	1,1	L	R	
		80	N	N		N	L	1,2	N	L	
		100					N	L		N	
		120						N			
		140									
Formaldehyde, <40%	HCHO	**20**	1,1	N	R	1,6	1,6	R	R	N	R
		40	1,1		L	1,6	1,6	R	R		R
		60	L		N	L	L	R	L		L
		80	N			N	N	L	N		N
		100						N			
		120									
		140									
Formamide	HCONH2	**20**	N	N	N	R	R	L	R	L	R
		40				R	R	N	L	N	L
		60				R	R		L		N
		80				N	L		N		
		100					N				
		120									
		140									
Fromic acid, 0-10% aqueous	HCOOH	**20**	1,3	R	L	1,1	1,4	1,2	R	L	N
		40	1,4	R	N	1,1	1,4	1,2	R	L	
		60	L	R		L	L	1,2	L	N	
		80	N	L		N	N	1,2	L		
		100		N				1,2	N		
		120						L			
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Formic acid, >25-50%	HCOOH	**20**	1,3	L	N	1,1	1,4	1,3	R	L	N
		40	1,4	N		1,1	1,4	1,3	R	N	
		60	L			L	L	1,3	L		
		80	N			N	N	1,3	L		
		100						L	N		
		120									
		140									
Formic acid, >10-25%	HCOOH	**20**	1,3	R	L	1,1	1,4	1,3	R	L	L
		40	1,4	R		1,1	1,4	1,3	R		
		60	L	R		L	L	1,3	R		
		80		L				1,3	R		
		100						L	L		
		120									
		140									
Fuel oil		**20**	N	N	N	L	L	R	N	R	L
		40				N	N	R		R	L
		60						L		L	N
		80						N		N	
		100									
		120									
		140									
Furfuryl alcohol	C5H6O2	**20**	N	N	N	R	R	L	L	L	N
		40				R	R	N	L	N	
		60				L	L		N		
		80				N	N				
		100									
		120									
		140									
Gasoline, Free of lead and aromatic compounds	C5H12 to C12H26	**20**	L	L	N	L	L	R	N	R	R
		40	N	N		N	N	R		R	R
		60						L		L	L
		80						N		L	N
		100								N	
		120									
		140									
Gelatine	Mixture of pepeptides and proteins	**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	L	R	R	R	R	R	L	L	L
		80	N	R	N	N	L	L	L	L	N
		100		N			N	N	N	N	
		120									
		140									
Glucsose	C6H12O6	**20**	R	R	L	R	R	R	R	R	R
		40	R	R	N	R	R	R	R	R	R
		60	L	R		R	R	R	R	R	R
		80	N	R		N	R	R	R	R	R
		100		N			N	L	N	L	N
		120						N		L	
		140								N	

Name *Nombre*	Formula *Fórmula*	*ºC*	*PVC-U*	*CPVC*	*ABS*	*PE*	*PP-H*	*PVDF*	*EPDM*	*FPM*	*NBR*
Glycerol, Glycerin	HOCH2-CH(OH)-CH2OH	**20**	R	R	R	R	R	R	R	R	
		40	R	R	R	R	R	R	R	R	
		60	R	R	L	R	R	L	R	R	
		80	N	R		N	R	N	L	L	
		100		N			L		L	N	
		120					N		N		
		140									
Glycin, 10%	NH2-CH2-COOH	**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	L
		60	L	L	L	L	L	R	L	L	N
		80	N	N	N	N	N	R	L	L	
		100						L	N	N	
		120						N			
		140									
Glycolic acid, 37%	HO-CH2-COOH	**20**	R	L	L	1,1	1,1	1,1	R	R	R
		40	R	N	N	1,1	1,1	1,1	R	L	R
		60	L			L	L	1,1	R	L	R
		80	N			N	N	1,1	L	N	L
		100						L	N		N
		120						N			
		140									
Heptane	C7H16	**20**	R	L	L	R	L	R	N	R	R
		40	L	N	N	L	N	R		R	R
		60	N			N		R		R	R
		80						R		L	L
		100						L		N	N
		120						N			
		140									
Hexane	C6H14	**20**	R	L	L	R	L	R	N	R	R
		40	L	N	N	L	N	R		R	R
		60	N			N		R		L	R
		80						R		L	L
		100						L		N	N
		120						N			
		140									
Hydrazine hydrate	H2N-NH2xH2O	**20**	R	L	N	R	R	L	R	N	N
		40	L	N		R	L	N	L		
		60	N			L	N		L		
		80				N			N		
		100									
		120									
		140									
Hydroclhoric acid, <25%	HCl	**20**	R	R	L	1,2	1,75	1,1	R	R	N
		40	R	R	L	1,2	1,75	1,1	L	R	
		60	R	R	N	1,2	1,75	1,1	N	R	
		80	N	R		N	1,75	1,1		R	
		100		N			N	L		L	
		120						N		N	
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Hydrocloric acid, >30-37%	HCl	**20**	1,6	1,6	N	1,2	L	1,1	L	R	N
		40	1,6	1,6		1,2	L	1,1	N	R	
		60	N	N		L	L	1,1		L	
		80				N	L	1,1		N	
		100					N	L			
		120						N			
		140									
Hydrocyanic acid	HCN	**20**	R	R	N	R	R	R	R	R	R
		40	R	R		R	R	R	R	R	R
		60	L	R		R	R	R	L	L	L
		80	N	L		N	L	R	N	L	N
		100		N			N	L		N	
		120						N			
		140									
Hydrogluoric acid, <70%	HF	**20**	L	L	N	L	L	R	N	R	N
		40	L	L		N	N	R		R	
		60	N	N				R		L	
		80						R		N	
		100						L			
		120						N			
		140									
Hydrogen chloride	HCl	**20**	R	R	N	R	R	R	L	R	N
		40	R	R		R	R	R	L	R	
		60	L	R		L	L	R	N	R	
		80	N	L		N	N	R		R	
		100		N				L		L	
		120						N		N	
		140									
Hydrogen peroxide, <5%	H2O2	**20**	R	R	N	1,5	L	L	N	R	N
		40	R	R		L	N	N		R	
		60	L	L		N				R	
		80	N	N						L	
		100								N	
		120									
		140									
Hydrogen peroxide, >5%	H2O2	**20**	1,6	L	N	L	N	N	L	R	N
		40	1,6	N		N			N	L	
		60	N							L	
		80								N	
		100									
		120									
		140									
Hydrogen sulfide, aqueous	H2S	**20**	R	R	L	R	R	R	R	R	N
		40	R	R	N	R	R	R	N	R	
		60	L	R		R	R	R		R	
		80	N	L		N	L	R		L	
		100		N			N	L		N	
		120						N			
		140									

Name *Nombre*	Formula *Fórmula*	*ºC*	*PVC-U*	*CPVC*	*ABS*	*PE*	*PP-H*	*PVDF*	*EPDM*	*FPM*	*NBR*
Hydrogen Sulfide,	H2S	**20**	R	R	L	R	R	R	R	R	R
		40	R	R	N	R	R	R	L	R	L
		60	R	R		L	R	R	N	L	N
		80	N	L		N	L	R		L	
		100		N			N	L		N	
		120						N			
		140									
Hydrogen, Gas	H2S	**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	R	R	R	R	R	R	R
		80	N	R	N	N	L	R	L	R	L
		100		N			N	L	N	L	N
		120						N		N	
		140									
Hydroquinone	C6H4 (OH)2	**20**	R	R	N	R	R	R	L	L	N
		40	L	L		L	L	R	L	L	
		60	N	N		N	N	L	N	N	
		80						N			
		100									
		120									
		140									
Iron Salts, aqueous, inorganic		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	L	R	R	R	R	R	L
		60	R	R	N	R	R	R	L	R	N
		80	N	L		N	R	R	N	R	
		100		N			N	L		L	
		120						N		N	
		140									
Isobutylacetate	(CH2)2-CH-(CH2)2-CO2H	**20**	N	N	N	R	R	L	L	N	N
		40				L	L	N	L		
		60				N	N		N		
		80									
		100									
		120									
		140									
Isooctane	(CH3)3C-CH2-CH(CH3)2	**20**	R	R	N	R	R	R	N	R	R
		40	L	L		L	L	R		R	R
		60	N	N		N	N	R		R	L
		80						L		L	
		100						L		L	
		120						N		N	
		140									
Isopropyl alcohol	C(CH3)2-CH-OH	**20**	R	N	L	R	R	R	R	R	R
		40	L		N	R	R	R	R	R	L
		60	N			L	L	R	L	R	N
		80				N	N	L	N	L	
		100						N		N	
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Lactic Acid, aqueous	CH3CHOHCOOH	**20**	R	L	R	R	R	R	R	R	R
		40	L	L	L	R	R	R	R	R	L
		60	N	N		R	R	L	L	R	L
		80				N	L	N	N	L	
		100					N			N	
		120									
		140									
Lead Acetate	Pb(CH3COO)2	**20**	R	R	R	R	R	R	R	N	R
		40	R	R	R	R	R	R	R		R
		60	R	R	R	R	R	R	R		R
		80	N	R	N	N	L	R	L		L
		100		N			N	L	N		N
		120						N			
		140									
Linseed Oil	Ester derived from glycerol and three fatty acids	**20**	R	L	L	R	R	1.1	N	R	R
		40	R	N	N	R	R	1.1		R	R
		60	L			L	R	1.1		R	R
		80	N			N	L	1.1		R	L
		100					N	L		L	N
		120						N		N	
		140									
Lithium salts, aqueous, inorganic		**20**	R	R	R	R	R	R	R	R	N
		40	R	R	R	R	R	R	R	R	
		60	R	R	L	R	R	R	R	R	
		80	N	R		N	R	R	L	L	
		100		N			N	R			
		120						L			
		140									
Lugol's solution: Iodine-potassium iodide solution	I-KI	**20**	R	N	N	R	R	1.1.	R	R	
		40	L			L	L	1.1	L	L	
		60						1.1			
		80						1.1			
		100						1.1			
		120						L			
		140									
Magnesium salts, aqueous, inorganic		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	L	R	R	R	R	R	R
		80	N	R		N	R	R	L	L	L
		100		N			N	L			
		120									
		140									
Maleic Acid	HOOC-CH=CH-COOH	**20**	R	R	R	R	R	R	R	N	
		40	L	L		R	R	R	N	R	
		60				L	L	R	R	R	
		80						R	L	L	
		100						L			
		120									
		140									

Name *Nombre*	Formula *Fórmula*	*ºC*	*PVC-U*	*CPVC*	*ABS*	*PE*	*PP-H*	*PVDF*	*EPDM*	*FPM*	*NBR*
Mercury salts		**20**	R	R	L	R	R	R	RL	L	
		40	R	R		R	R	R	L		
		60	L	L		R	R	R			
		80				N	R	R			
		100					N	R			
		120						L			
		140									
methane, gaseous	CH4	**20**	R	R	R	R	R	R	N	R	R
		40	L	L	L	L	L	R		L	L
		60						R			
		80						R			
		100						L			
		120									
		140									
Methanol	CH3OH	**20**	R	L	N	R	R	R	R	N	R
		40	R			R	R	L	R		L
		60	L			F	F		L		
		80				N	L				
		100									
		120									
		140									
Methyl acetate	CH3COOCH3	**20**	N	N	N	R	R	R	R	N	N
		40				R	R	L	L		
		60				L	L				
		80									
		100									
		120									
		140									
Methyl amine, 32%	CH3NH2	**20**	N	N	N	R	R	R	R	N	N
		40				L	L		R		
		60							L		
		80									
		100									
		120									
		140									
Methyl bromide, gaseous	CH3Br	**20**	N	N	N	N	N	R	N	R	L
		40						L		R	
		60								R	
		80								R	
		100								L	
		120									
		140									
Methyl ethyl ketone	CH3COC2H5	**20**	N	N	N	R	R	N	R	N	N
		40				L	L		R		
		60							R		
		80							L		
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Methyl isobutyl ketone	C6H12O	**20**	N	N	N	R	R	N	R	N	N
		40				L	L		L		
		60									
		80									
		100									
		120									
		140									
Methyl methacrylate	C5H8O2	**20**	N	N	N	R	R	L	N	N	N
		40				R	R				
		60				L	L				
		80									
		100									
		120									
		140									
Mineral Oil	Mixture of saturated aliphalic hyrocarbons	**20**	R	R	L	R	R	1.1	N	R	R
		40	R	R		R	R	1.1		R	R
		60	L	L		L	L	1.1		R	R
		80						1.1		R	L
		100						1.1		R	
		120						L		L	
		140									
Mineral Water		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	R	R	R	R	R	R	R
		80	N	R	N	N	R	R	R	R	R
		100		N			N	R	N	R	L
		120						L		R	
		140								L	
Mixed Acids: Nitric, Hydrofluoric, Sulphuric	15% HNo3 / 15% HF / 18% H2SO4	**20**	L	L	N	N	N	R	N	R	N
		40						R		L	
		60						R			
		80						L			
		100									
		120									
		140									
Mixed Acids: Sulphuric, Phosporic, aqueous	H2SO3 / HN3 / H2O	**20**	L	L	N	L	L	R	L	R	M
		40						R		R	
		60						R		L	
		80						L			
		100									
		120									
		140									
Mixed Acids: Sulphuric, Phosporic, aqueous	30% H2SO4 / 60% H3PO4 / 10% H2O	**20**	R	R	N	R	R	R	R	R	N
		40	R	R		R	R	R	R	R	
		60	L	R		L	R	R	R	R	
		80		L			L	R	L	L	
		100						L			
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
N-N-Dimethylanine		**20**	N	N	N	R	L	N	R	L	N
		40				L			L		
		60									
		80									
		100									
		120									
		140									
N-Methylpyrrolidon		**20**	N	N	N	R	R	L	L	R	L
		40				L	L			L	
		60									
		80									
		100									
		120									
		140									
Nickel salts, aqueous, inorganic		**20**	R	R	R	R	R	R	R	R	R
		40	R	R		R	R	R	R	R	R
		60	L	L		R	R	R	R	R	R
		80				N	R	R	R	R	L
		100					N	R	N	L	
		120						L			
		140									
Nitrating acid	H2SO4 / HNO3	**20**	L	L	N	N	N	L	N	L	N
		40	L	L				L		L	
		60	N	N				L		N	
		80						N			
		100									
		120									
		140									
Nitric acid, > 30%	HNO3	**20**	L	L	N	N	N	1.1	N	R	N
		40	L	L				1.1		L	
		60	N	N				1.1		N	
		80						L			
		100						N			
		120									
		140									
Nitric Acid, > 6 - < 20%	HNO3	**20**	R	R	N	N	N	1.1	N	R	N
		40	R	R				1.1		R	
		60	R	R				1.1		L	
		80	N	R				1.1			
		100		N				1.1			
		120						L			
		140									
Nitric acid, >= 20 - 30 %	HNO3	**20**	1.6	1.6	N	N	N	1.1	N	R	N
		40	1.6	1.6				1.1		L	
		60	1.6	1.6				1.1		N	
		80						1.1			
		100						1.1			
		120						N			
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Nitric acid, < 6%	HNO3	**20**	R	R	N	L	L	1.1	R	R	N
		40	R	R				1.1	L	R	
		60	R	R				1.1		R	
		80	N	R				1.1		R	
		100		N				1.1		L	
		120						L			
		140									
Nitrobenzene	C6H5-NO2	**20**	N	N	N	R	R	R	N	R	N
		40				L	L	R		R	
		60						L		R	
		80								L	
		100									
		120									
		140									
Nitrotoluene (o-, m-, p-)	C7H7NO2	**20**	N	N	N	R	L	R	N	L	L
		40				L		R			
		60						L			
		80									
		100									
		120									
		140									
Nitrous Acid	HNO2	**20**	R	R	N	R	R	1.1	R	R	N
		40	R	R		L	L	1.1	L	R	
		60	L	L				1.1		L	
		80						L			
		100									
		120									
		140									
Nitrous gases (nitric oxide)	Nox	**20**	R	R	N	L	L	R	L	L	L
		40	L	L				L			
		60									
		80									
		100									
		120									
		140									
Oleic Acid	C17H33COOH	**20**	R	R	N	R	R	R	N	R	R
		40	R	L		L	L	R		R	L
		60	L					R		L	
		80						R			
		100						R			
		120						R			
		140						L			
Oleum, <= 10%	H2SO4+SO3	**20**	N	N	N	N	N	N	N	N	N
		40									
		60									
		80									
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	*ºC*	*PVC-U*	*CPVC*	*ABS*	*PE*	*PP-H*	*PVDF*	*EPDM*	*FPM*	*NBR*
Olive Oil		**20**	R	N	N	1.1	1.1	R	L	R	R
		40	R			1.1	1.1	R		R	R
		60	L			L	L	R		R	R
		80						R		R	L
		100						R		L	
		120						L			
		140									
Oxygen, gaseous	O2	**20**	R	R	R	R	R	R	R	L	
		40	R	R		R	R	R	R	R	
		60	R	R		L	L	R	L	L	
		80	N	R				R			
		100		N				R			
		120						L			
		140									
Ozon, <= 2 ppm gaseous	O3	**20**	L	L	N	N	N	L	R	R	N
		40							L	L	
		60									
		80									
		100									
		120									
		140									
Ozone, aqueous	O4	**20**	L	L	N	L	L	L	L	L	N
		40									
		60									
		80									
		100									
		120									
		140									
Palm Oil, Palm Nut Oil		**20**	R	L	R	R	R	R	N	R	R
		40	R		R	R	L	R		R	R
		60	R		L	R		R		R	R
		80	N			N		R		R	L
		100						L		L	
		120									
		140									
Parafin emulsions		**20**	L	L	R	R	R	R	N	R	R
		40			R	R	R	R		R	R
		60			L	L	R	R		R	R
		80					L	R		R	L
		100						L		L	
		120									
		140									
Perchloric Acid, aqueous, <= 70%	HCLO4	**20**	L	L	N	L	L	R	R	R	N
		40						R	L	R	
		60						R		R	
		80						R		R	
		100						R		L	
		120						L			
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Peroxo monosulfuric Acid, 0-10%	H2SO5	**20**	L	L	N	N	1.1	N	R	N	
		40						L		L	
		60									
		80									
		100									
		120									
		140									
Phenol , <= 90%	C6H5-OH	**20**	L	L	N	R	R	1.1	N	R	N
		40				R	R	1.1		R	
		60				L	L	1.1		R	
		80						L		L	
		100									
		120									
		140									
Phosgene, gaseous	COCL2	**20**	R	N	N	L	L	R	R	R	N
		40	L					R	L	R	
		60						L		L	
		80									
		100									
		120									
		140									
Phosgene, liquid	COCL2	**20**	N	N	N	N	N	L	R	N	N
		40							L		
		60									
		80									
		100									
		120									
		140									
Phosphoric Acid 0-60%	H3PO4	**20**	R	R	R	1.2	1.2	R	R	R	N
		40	R	R		1.2	1.2	R	R	R	
		60	R	R		L	1.4	R	L	R	
		80	N	R			L	R		R	
		100		N				R		L	
		120						L			
		140									
Phosphoric Acid, >60-85%	H3PO4	**20**	1.2	R	N	1.2	1.2	R	R	R	N
		40	1.2	R		1.2	1.2	R	R	R	
		60	L	R		L	L	R	L	R	
		80		R				R		L	
		100		N				R			
		120						L			
		140									
Phosphorous Chlorides: Trichloride, Pentachloride, Oxichloride	PCL3, PCL5, POCL3	**20**	N	N	N	L	L	L	L	R	N
		40								L	
		60									
		80									
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	*ºC*	*PVC-U*	*CPVC*	*ABS*	*PE*	*PP-H*	*PVDF*	*EPDM*	*FPM*	*NBR*
Photographic fixer		**20**	R	R	R	1.1	1.1	R	R	R	R
		40	R	R	R	1.1	1.1	R	R	R	R
		60	L	R	L	L	L	R	L	L	L
		80		L				L			
		100									
		120									
		140									
Phthalic Acid	C6H5(COOH)2	**20**	R	L	N	R	R	R	R	L	L
		40	L			R	R	R	L		
		60				R	R	R			
		80				N	L	L			
		100									
		120									
		140									
Potassium aluminium (alum), aqueous, inorganic	KAI(SO4)2	**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	L	R	R	R	R	R	R
		80	N	R		N	R	R	L	R	L
		100		N			N	R		L	
		120						L			
		140									
Potassium Hydroxide <=50%, aqueous	KOH	**20**	R	L	R	R	2	N	R	N	L
		40	R		L	R	2		R		
		60	1.2			R	2		R		
		80	N			N	2		L		
		100					N				
		120									
		140									
Potassium Hypochlorite <=16% active Chlorine	KOCL	**20**	1.6	N	N	L	L	N	R	N	L
		40	1.6						R		
		60	L						L		
		80									
		100									
		120									
		140									
Potassium persulphate	K2S2O8	**20**	R	R	R	R	R	1.1	R	R	N
		40	R	R	R	R	R	1.1	R	R	N
		60	L	L	L	R	R	1.1	R	R	
		80				N	L	1.1	L	R	
		100						N		L	
		120									
		140									
Propane, gaseous	H3C-CH2-CH3	**20**	R	N	L	R	R	R	N	R	R
		40	L	N	L	R	L	R		R	R
		60				L		R		R	R
		80						L		R	R
		100								L	L
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Propionic Acid, aqueous, 50%	CH3CH2COOH	**20**	R	L	N	R	R	R	R	N	N
		40	R			R	R	R	R		
		60	L		R	R	R	L			
		80			N	L	L				
		100									
		120									
		140									
Propionic Acid, pure	H3C-CH2-COOH	**20**	R	L	N	R	R	R	N	L	
		40	L			L	L	R	R		
		60						R	R		
		80						L	L		
		100									
		120									
		140									
Propylene Glycol <=50%	C3H8O2	**20**	L	N	1.7	1.1	R	R	R	R	R
		40	L		1.7	1.1	R	R	R	R	R
		60	N		L	L	R	R	R	R	R
		80			N	N	L	R	R	R	R
		100					N	L	N	L	L
		120						N		N	N
		140									
Propylene Glycol, technically pure	C3H8O2	**20**	N	N	N	1.1	1.1	R	R	R	R
		40				1.1.	1.1	R	R	R	R
		60				L	1.1	R	R	R	R
		80				N	L	L	R	R	R
		100					N	L	N	L	N
		120						N		N	
		140									
Pyridine	C5H5N	**20**	N	N	N	R	L	N	L	N	N
		40				N					
		60									
		80									
		100									
		120									
		140									
salicylaldehyde	C6H4(OH)COH	**20**	L	N	N	L	L	R	N	R	N
		40	N					R		R	
		60						L		L	
		80									
		100									
		120									
		140									
Sea water		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	R	R	R	R	R	R	R
		80	N	R	N	N	R	R	R	R	R
		100		N			N	R	N	R	N
		120						L		L	
		140									

Name *Nombre*	Formula *Fórmula*	*ºC*	*PVC-U*	*CPVC*	*ABS*	*PE*	*PP-H*	*PVDF*	*EPDM*	*FPM*	*NBR*
Silicic Acids, various	H2SiO3, H2SiO4, H6Si2O7	**20**	R	R	R	R	R	R	R	R	R
		40	R	R		R	R	R	R	R	R
		60	R	R		R	R	R	R	R	L
		80	N	L		N	R	R	L	R	
		100					N	R		L	
		120						L			
		140									
Silicone oils		**20**	R	R	R	R	R	R	R	R	R
		40	L	L	L	R	R	R	R	R	R
		60				R	R	R	R	R	R
		80				N	R	R	L	L	L
		100					N	L			
		120									
		140									
Silver salts, aqueous, inorganic		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	L	R	R	R	R	R	R
		80	N	R		N	R	R	L	R	L
		100					N	R			
		120						L			
		140									
Sodium borate	Na2B4O7 x H2O	**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	L	R	L	R	R	R	R	R	R
		80		R		N	R	R	L	R	L
		100		N			N	R		L	
		120						L			
		140									
Sodium chloride	NaCl	**20**	R	R	R	R	R	R	R	R	L
		40	R	R	R	R	R	R	R	R	
		60	R	R	R	R	R	R	R	R	
		80	N	R	N	N	R	R	R	R	
		100		N			N	L	N	R	
		120								L	
		140									
Sodium Chlorite, aqueous	NaClO2	**20**	R	L	1.4	1.4	1.1	R	R	N	
		40	R			1.4	1.4	1.1	L	R	
		60	R			L	L	1.1		L	
		80	N					L			
		100									
		120									
		140									
Sodium hydroxide <=50%	NaOH	**20**	R	N	N	R	2	N	R	N	L
		40	R			R	2		R		
		60	1.2			R	2		R		
		80	N			N	L		L		
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Sodium hypochlorite, >6% active chlorine	NaOCl	**20**	1.6	N	N	N	N	N	R	N	
		40	1.6						R		
		60	N						N		
		80									
		100									
		120									
		140									
Sodium persulphate	Na2S2O8	**20**	R	R	R	R	1.1	R	R	N	
		40	R	R		R	R	1.1	R	R	
		60	L	R		R	R	1.1	L	R	
		80		N		N	L	1.1		R	
		100						L		L	
		120									
		140									
Sodium salts, aqueous, inorganic		**20**	R	R	L	R	R	R	R	R	R
		40	R	R		R	R	R	R	R	L
		60	R	R		R	R	R	R	R	
		80	N	R		N	R	R	L	R	
		100		N			N	L		L	
		120						L			
		140									
Starch solution	(C6H10O5)n	**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	L	R	R	R	R	R	R
		80	N	R		N	R	R	L	L	L
		100		N			L	R			
		120						L			
		140									
Styrene	H5C6-CH=CH2	**20**	N	N	N	L	L	R	N	L	N
		40						L			
		60									
		80									
		100									
		120									
		140									
Succinic Acid	HOOC-CH2-CH2-COOH	**20**	R	R	R	R	R	R	R	R	R
		40	R	R	L	R	R	R	R	R	L
		60	R	R		R	R	R	R	R	
		80	N	L		N	L	R	L	R	
		100						L		L	
		120									
		140									
Sulfurous Acid	H2SO3	**20**	R	R	R	R	1.1	L	L	L	
		40	R	R		R	R	1.1			
		60	L	L		L	L	1.1			
		80						1.1			
		100						L			
		120									
		140									

Name *Nombre*	Formula *Fórmula*	*ºC*	*PVC-U*	*CPVC*	*ABS*	*PE*	*PP-H*	*PVDF*	*EPDM*	*FPM*	*NBR*
Sulfuryl Chloride	SO2Cl2	**20**	N	N	N	N	N	L	L	L	N
		40									
		60									
		80									
		100									
		120									
		140									
Sulphur dioxide, gaseous	SO2	**20**	L	L	N	L	L	R	R	R	N
		40						R	R	R	
		60						R	L	R	
		80						R		L	
		100						L			
		120						L			
		140									
Tannic Acid	C76H52O46	**20**	R	R	N	R	R	R	R	R	R
		40	L	L		L	L	R	R	R	R
		60						R	R	R	R
		80						L	L	L	L
		100									
		120									
		140									
Tetrachloroethane	Cl2-CH-CHCl2	**20**	N	N	N	N	N	R	N	L	N
		40						R			
		60						L			
		80									
		100									
		120									
		140									
Tetrachloroethylene	Cl2C=CCl2	**20**	N	N	L	L	R	N	R	L	N
		40						R		R	
		60						L		R	
		80								R	
		100								L	
		120									
		140									
Tetrachloromethane	CCl4	**20**	N	N	N	N	N	1.3	N	R	N
		40						1.3		R	
		60						1.3		R	
		80						1.3		R	
		100						L		L	
		120									
		140									
Tetrahydrofurane	C4H8O	**20**	N	N	N	L	L	N	L	N	N
		40									
		60									
		80									
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Tin chloride	SnCl2	**20**	R	R	L	R	R	R	R	R	R
		40	R	R		R	R	R	R	R	L
		60	R	R		R	R	R	R	R	
		80	N	R		N	L	R	L	R	
		100		N				L		L	
		120									
		140									
Toluene	C6H5-CH3	**20**	N	N	N	L	L	R	N	R	N
		40						R		R	
		60						L		L	
		80									
		100									
		120									
		140									
Trichloroacetic Acid	Cl3C-COOH	**20**	L	L	N	R	R	1.2	L	N	L
		40				R	R	1.2			
		60				L	L	L			
		80									
		100									
		120									
		140									
Trichloroethane	Cl3C-CH3	**20**	N	N	N	L	L	1.4	N	R	N
		40						1.4		L	
		60						L			
		80									
		100									
		120									
		140									
Trichloroethylene	Cl2C-CHCl	**20**	N	N	N	N	N	R	N	R	N
		40						R		L	
		60						L			
		80									
		100									
		120									
		140									
Trichloromethane	CHCl3	**20**	N	N	N	L	L	R	N	R	N
		40						R		L	
		60						L			
		80									
		100									
		120									
		140									
Triethylamine	N(CH2-CH3)3	**20**	N	N	N	L	L	N	N	N	N
		40									
		60									
		80									
		100									
		120									
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Trifluoroacetic Acid	F3C-COOH	**20**	N	N	N	R	R	1.2	R	N	N
		40				L	L	1.2	L		
		60						L			
		80									
		100									
		120									
		140									
Turpentine Oil		**20**	L	N	N	L	N	R	N	R	L
		40						L		R	
		60								R	
		80								L	
		100									
		120									
		140									
Urea	H2N-CO-NH2	**20**	R	R	L	R	R	1.3	R	R	R
		40	R	R	L	R	R	1.3	R	R	R
		60	L	L	L	R	R	1.3	R	R	R
		80		L		N	L	L	L	L	L
		100									
		120									
		140									
Urine		**20**	R	R	L	R	R	R	R	R	R
		40	R	R		R	R	R	R	R	R
		60	L	R		R	R	R	R	R	R
		80		R		N	L	L	L	L	L
		100		N							
		120									
		140									
Vinyl acetate	CH2	**20**	N	N	N	R	R	L	L	N	N
		40				R	L				
		60				L					
		80									
		100									
		120									
		140									
Vinyl Chloride	CH2	**20**	N	N	N	N	N	R	N	R	N
		40						R		R	
		60						L		L	
		80									
		100									
		120									
		140									
Water, drinking chlorinated		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	R	R	R	R	L	R	L
		80	N	L	N	N	R	R		R	
		100					N	R		L	
		120						L			
		140									

Name *Nombre*	Formula *Fórmula*	ºC	PVC-U	CPVC	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR
Water distilled deionised	H2O	**20**	R	R	R	R	R	R	R	R	R
		40	R	R	R	R	R	R	R	R	R
		60	R	R	R	R	R	R	R	R	R
		80	N	R	N	N	R	R	R	R	R
		100		N			N	R	N	R	R
		120						L		R	L
		140						L		L	
Xylene	C6H4(CH3)2	**20**	N	N	N	N	N	R	N	R	N
		40						R		L	
		60						L			
		80									
		100									
		120									
		140									
Zinc salts, aqueos, inorganic		**20**	R	R	R	R	R	R	R	R	R
		40	R	R	L	R	R	R	R	R	R
		60	R	R		R	R	R	R	R	R
		80	N	R		N	R	R	R	L	L
		100		N			N	L	N		L
		120									
		140									


“Resistance and versatility
Resistencia y versatilidad”

Quality
Calidad

TESTS ON ASSEMBLED VALVES (ACCORDING TO EUROPEAN STANDARDS)
■ Pressure
■ Watertightness
■ Packaging
■ Traceability

WATERTIGHTNESS TEST
■ Applied to 100% of Cepex valves production.
■ Air is injected inside the valve through a microfugometer.
■ The valve passes the test if no air-leaks happen.
■ Water test applied to 100% of the Serie Extreme valves (exclusively):
1,1xPN bar closed.
1,5xPN bar open.
0,5 bar pressure air.

ENSAYOS DE VÁLVULAS MONTADAS (SEGÚN NORMAS EUROPEAS)
■ *Presión*
■ *Estanqueidad*
■ *Empaquetado*
■ *Trazabilidad*

PRUEBA DE ESTANQUEIDAD
■ *Aplicado al 100% de la producción de válvulas Cepex.*
■ *El aire se inyecta dentro de la válvula a través de un microfugómetro.*
■ *La válvula pasa la prueba si no hay fugas de aire.*
■ *Prueba con agua aplicada al 100% de las válvulas Serie Extreme (exclusivamente):*
1,1xPN bar cerrada.
1,5xPN bar abierta.
0,5 bar aire a presión.

RAW MATERIAL PVC-U AND PVC-C
MATERIA PRIMA PVC-U Y PVC-C

TEST	FREQÜENCY	REGULATION
Densitiy test	Every material batch	EN 1452-3
Vicat softening temprature	Every material batch	EN 1452-3
Opacity	Once per year	EN 1452-3
VCM content	Once per year	EN 1452-3

VALVES
VÁLVULAS

TEST	FREQÜENCY	REGULATION
Dimensional control	Every 4 hours	ISO 15493
Shell test	Every production	ISO 1167
Heat test	Every 8 hours	ISO 580
Vicat	Every material batch	ISO 2507
Density	Every material batch	ISO 1183

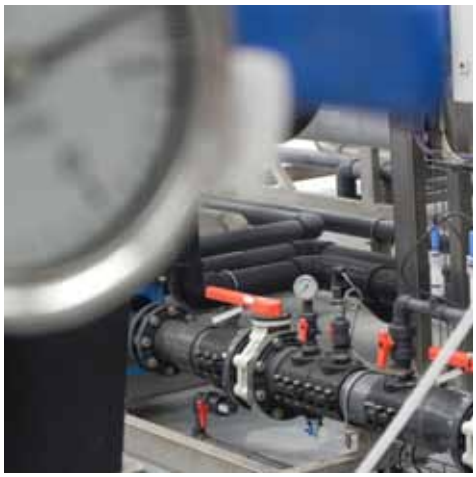
TEST	FREQÜENCY	REGULATION
Seat test - open/closed with air	100% of production	ISO 16135:2006 Ball valves
Seat test - closed with air	Statistical sampling	
Packing test - opened with air	Statistical sampling	
Shell test - open with water	Statistical sampling	
Long term hydrostatic pressure test - opened with water	Design homologation	ISO 16136:2006 Butterfly valves
Durability - open/close with water	Design homologation	

Installations
Instalaciones

Metal transformation plant
SWEDEN

Oil plant - filtration
VENEZUELA

Mining an d metaluirgical plant
RUSSIA



Sea water desalination plant
SPAIN

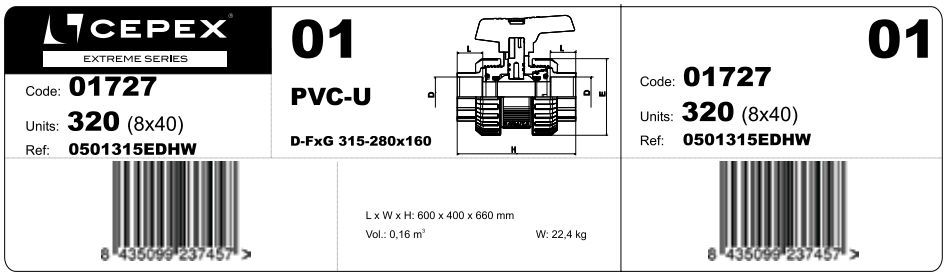
Packaging
Embalaje

NEW BOX DESIGN
- Strong
- Sub-standard: carton boxes

NEW LABEL DESIGN
- Includes Cepex and certifications logos.
- Improves barcode placing, making easier reading.

DISEÑO DE NUEVAS CAJAS
- *Fuerte*
- *Sub-estándar: cajas de cartón*

DISEÑO DE NUEVAS ETIQUETAS
- *Incluye Cepex y logotipos de certificaciones.*
- *Mejora la colocación de códigos de barras, facilitando la lectura.*



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