VYP
Válvulas y Procesos

ITT Industries
Engineered for life

Pure-Flo® Valve

Introduction

The Pure-Flo brand is synonymous with the highest quality, precision engineered hygienic diaphragm valves. Pure-Flo valves offers superior hygienic processing components for the global hygienic processing industries (Pharmaceutical, Bioprocessing and Fine Chemical). Through both standard and custom designed valve assemblies, ITT Pure-Flo is committed to providing the best quality and value in engineered solutions for your unique flow-control needs.

The Pure-Flo valve product line began in 1978 as an extension to the venerable Dia-Flo product line. Since then ITT has been delivering to the Biopharm industry a reliable and process proven stainless steel hygienic diaphragm valve.

Process Proven Hygienic Diaphragm Valve

Providing products from standard forged valves to the most innovative block technology, each and every Pure-Flo valve is engineered to the highest standards.

- Bonnet isolation: The diaphragm isolates the working parts of the valve from process fluids.
- Streamlined fluid passage: The smooth contoured body, streamlined flow path, and high quality interior surface prevents accumulation of process fluids or contaminants.
- Minimual contact surface: The process contact surfaces (i.e. body and diaphragm) are minimal, enhancing the ease of cleaning and sterilization.
- Positive closure: The resilient diaphragm bead in contact with the metal weir assures positive closure.
- Ideal for CIP and SIP: Clean in place and steam in place operations may be performed in line without valve disassembly or operation.
- In-line maintenance: The top entry design allows for in-line maintenance.

VALVULAS Y PROCESOS 2007, S.L.

Orfeó Català, nr. 9
Pol. Ind. Sud
08440 - CARDEDEU
S P A I N

TEL: 00 34 93 755 20 56
FAX: 00 34 93 755 17 75
e-mail: jpicallo@vypsl.es
VAT: ESB64719958

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EnviZion® Valve

Experience the Future with EnviZion

The Biopharm industry relies on hygienic diaphragm valves for demanding process applications due to their unique balance of clean-ability, drain-ability and pressure/ temperature capability. For more than 40 years the technology of these valves has changed very little. Advances in performance have been nominal as the basic design concept has remained the same: body, diaphragm, topworks, and four fasteners. This design requires experienced personnel and stringent maintenance practices to assure consistent, reliable valve performance. All while the industry is forced to increase productivity, extend preventative maintenance intervals, and reduce operating costs.

The EnviZion valve utilizes a breakthrough mount and turn design that allows for quick and easy valve disassembly.

- Tool-less maintenance - no tools required for valve installation and diaphragm replacement, simplifying the maintenance process.
- Fasteners eliminated - no more handling loose parts or accessing fasteners in tight spaces.
- Save time - diaphragm changes reduced from an industry average of 23 minutes to 3 minutes, resulting in a 90% reduction in maintenance time.

Reliable Sealing and Improved Cleanability with No Re-Torques

The EnviZion valve eliminates the effects of thermal cycling with an integrated thermal compensation system.

- Active sealing technology - the constant force of the thermal compensation system provides a reliable seal that does not degrade over time (unlike other diaphragm valve designs that use passive sealing technology).
- No retorquing - the seal is maintained over varying operating conditions, eliminating the need to adjust fasteners after thermal cycling.

The EnviZion valve improves clean-ability by reducing the potential for fluid entrapment.

- Diaphragm seal - the valve body and diaphragm create a seal on the leading edge of the D-section, preventing fluid from getting into areas which would be difficult to clean and possibly lead to process contamination.

Net result - reduced maintenance hours, commissioning costs and potential for system contamination.

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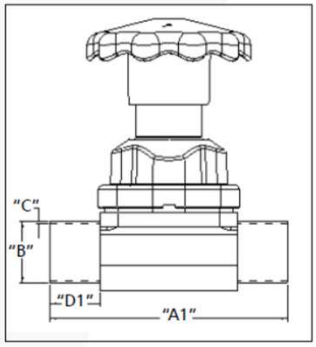
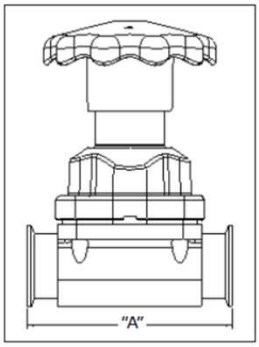
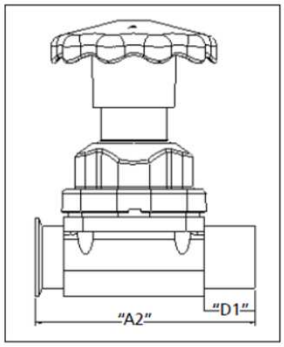
Body Dimension Charts

Dimensions for Standard Pure-Flo Valve

P







Diaphragm Valve Bodies

Body Dimension Charts US & SMS

USOD (ANSI) Forgings & Castings										SMS	
B		A	A1	D1	A2	C				B	C
End Connection Size		Overall Length	Overall Length	Weld Tangent	Overall Length	20 GA. 0.035"	18 GA. 0.049"	16 GA. 0.065"	14 GA. 0.083"		
IN	DN	Tri Clamp	Extended BW Forging	Extended BW Forging	TC x BW	Extended BW Forging	Extended BW Forging ASME BPE	Extended BW Forging	Extended BW Forging ASME BPE	BW Forging	
Forgings											
BP/BT 0.25"	DN6	2.5" (64)	3.5" (89)	1" (25)	3.0" (76,2)	S	O				
BP/BT 0.375"	DN10	2.5" (64)	3.5" (89)	1" (25)	3.0" (76,2)	S	O				
BP/BT 0.5"	DN15	2.5" (64)	3.5" (89)	1" (25)	3.0" (76,2)		O	S			
0.5"	DN15	3.5" (89)	5.06"(128)	1.5" (38)	4.28" (108,7)	O	O	S	O		
0.75"	DN20	4" (102)	5.5" (140)	1.5" (38)	4.75" (120,7)	O	O	S	O		
1"	DN25	4.5" (114)	5.93" (151)	1.5" (38)	5.22" (132,6)		O	S	O	(25)	(1,2)
1.5"	DN40	5.5" (140)	6.8" (173)	1.5" (38)	6.15" (156,2)		O	S	O	(38)	(1,2)
2"	DN50	6.25" (159)	7.42" (188)	1.5" (38)	6.84" (173,7)			S	O	(51)	(1,2)
2.5"[2]	DN65	8.75" (222)[1]	9.94" (252)	1.75" (44,5)	9.34" (237,2)			S		(63,5)	(1,6)
3"	DN80	8.75" (222)	9.94" (252)	1.75" (44,5)	9.34" (237,2)			S	O	(76,1)	(2)
4"	DN100	11.5" (292)	13" (330)	2.0" (51)	12.25" (311,2)			O	S		
Castings											
0.5"	DN15	3.5" (89)	N/A	N/A	3.5" (89)	O	O	S	O		
0.75"	DN20	4" (102)	N/A	N/A	4" (102)	O	O	S	O		
1"	DN25	4.5" (114)	N/A	N/A	4.5" (114)		O	S	O	(25)	(1,2)
1.5"	DN40	5.5" (140)	N/A	N/A	5.5" (140)		O	S	O	(38)	(1,2)
2"	DN50	6.25" (159)	N/A	N/A	6.25" (159)			S	O	(51)	(1,2)
2.5"	DN65	7.62" (194)[1]	N/A	N/A	7.62" (194)			S	O	(63,5)	(1,6)
3"	DN80	8.75" (222)	N/A	N/A	8.75" (222)			S	O	(76,1)	(2)
4"	DN100	11.5" (292)	N/A	N/A	11.5" (292)			O	S		

[1] For 2.5" overall length does not comply with ASME BPE dimensions
[2] 2.5" size uses 3" topworks
Note: Extended Weld Tangents are available only with USOD (ANSI) end connections.
Dimensions in ( ) are mm
S = Standard, O = Optional, BT = Bio-Tek Body, BP = Bio-Pure

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e-mail: jpicallo@vypsl.es
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Body Dimension Charts

Dimensions for Standard Pure-Flo Valve

P

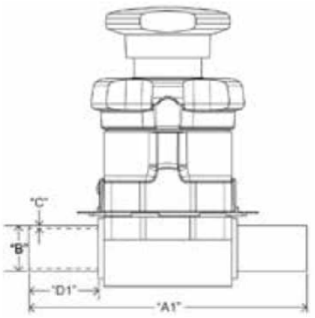
ISO/DIN Forgings

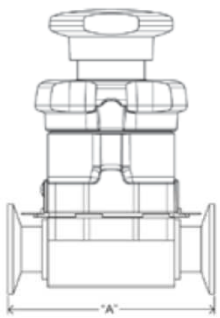
ISO												DIN Series 1		DIN Series 2		DIN Series 3	
End Connection Size	Topworks Size	A	D1	B	C							B	C	B	C	B	C
		mm	mm	mm	1	1,2	1,6	2	2,3	2,6	2,9	mm	mm	mm	mm	mm	mm
DN6	Bio-Tek	89[1]	25[1]	8	S	O						8	1				
DN10	Bio-Tek	89[1]	25[1]	13,5	O		S	O				10	1				
DN15	Bio-Tek	89[1]	25[1]	17,2	O		S	O				12	1	13	1,5	14	2
DN15	0.5"	106	25	21,3			S	O				18	1	19	1,5	20	2
DN20	0.75"	118	25	26,9			S	O				22	1	23	1,5	24	2
DN25	1"	127	25	33,7			O	S				28	1	29	1,5	30	2
DN32	1.5"	174	35	42,4			O	S				34	1	35	1,5	36	2
DN40	1.5"	174	35	48,3			O	S				40	1	41	1,5	42	2
DN50	2"	191	35	60,3				S	O	O	Cast Only	52	1	53	1,5	54	2
DN65	3"	254	44.5	76,1				O	S	O		70	2				
DN80	3"	254	44.5	88,9					S	O		85	2				
DN100	4"	330	51	114,3					S	O		104	2				

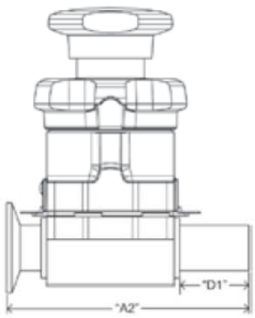
[1] BT TC x BW and TC x TC bodies are 64 mm overall length with 13 mm tangent
Note: All measurements are mm unless otherwise noted.
S = Standard, O = Optional

Dimensions for Standard Pure-Flo EnviZion Valve

E







USOD (ANSI)						
B		A	A1	D1	A2	C
End Connection Size		Overall Length	Overall Length	Weld Tangent	Overall Length	16 GA.
IN	DN	Tri Clamp	Extended BW	Extended BW	TC x BW	Extended BW
Forgings						
0.5"	DN15	3.5" (89)	5.22"(133)	1.5" (38)	4.36" (111)	.065" (1,7)
0.75"	DN20	4" (102)	6.00" (152)	1.5" (38)	5.00" (127)	.065" (1,7)
0.75"R	DN20	4" (102)	6.00" (152)	1.5" (38)	5.00" (127)	.065" (1,7)
1"	DN25	4.5" (114)	6.00" (152)	1.5" (38)	5.25" (133)	.065" (1,7)
1.5"	DN40	5.5" (140)	7.08" (180)	1.5" (38)	6.29" (160)	.065" (1,7)
2"	DN50	6.25" (159)	7.14" (181)	1.5" (38)	6.70" (170)	.065" (1,7)

Dimensions in ( ) are mm

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