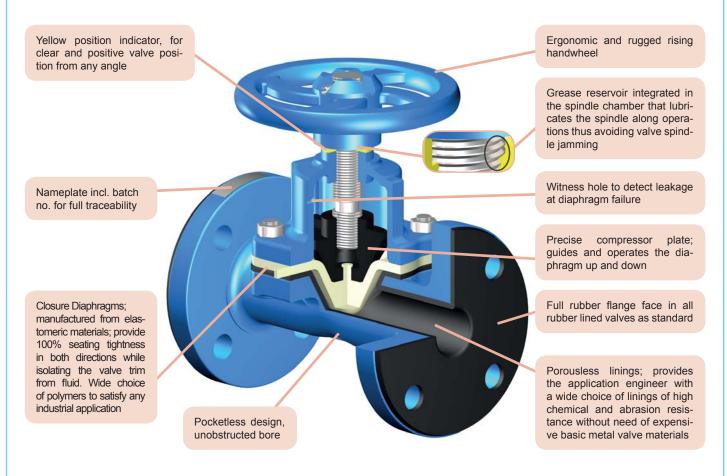
Straight Through Type Diaphragm Valves are linear motion valves, bidirectional, for stopping the flow of the service fluid when necessary, not being suitable for regulation purposes. Valves close by turning the handwheel clockwise. Valves are bolted bonnet, seatless design, with a diaphragm as closure element, with rising handwheel. Valves are offered with a broad range of diaphragms and linings materials to resist to abrasion and corrosion duties. Their straight passage makes them more suitable for on/off applications in comparison to Weir Type, when low pressure drop is required or in case of abrasive media. The valves are inexpensive and easy to maintain, being the optimal solution for a large number of applications.



Main Features

Valve design: EN 13397, EN 12516 Face to face length: EN 558 Series 1 (DIN 3202F1) or EN 558 Series 7 (BS 5156) Valve end connections: Flanged to EN 1092-2 type 21/B, PN10/16 (DN15-150); PN10 (DN200-300) (valves DN65 with 4 holes as accepted variant in standard) option drilling to ASA150#

Female thread to ISO 228-1 (DIN 259-BSPP)

Marking: EN 19 Pressure Tests: EN 12266-1

Seat leakage rate: Rate A (full seat tightness in both directions) Inside and outside primer paint layer black color for protection during storage and transport Product compliant with Directive 2014/68/EU on Pressure Equipment (PED) and Machinery Directive 2006/42/EC

Options

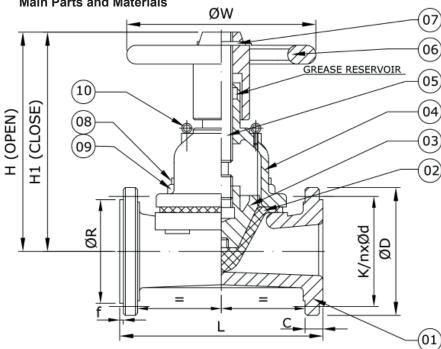
Other materials, other ratings and connections, pneumatic or electric atuator, limit switches, sealed bonnet, interlocking arrangement, padlocking or handwheel hood to avoid non-authorized operation. Please consult us

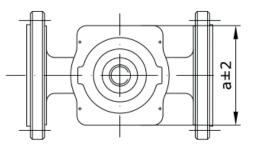
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Straight Through Type Diaphragm Valves - DIAVAL® Series ST

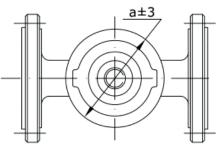
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Unlined valves with flanged ends **Main Parts and Materials**





SIZE: DN 15 TO DN 80



SIZE: DN 100 TO DN 300

NO.	PART	MATERIAL						
5	SPINDLE	Steel						
6	HANDWHEEL	Cast iron EN-JL1040 (GG25)						
7	H/W DOWEL PIN	Steel (EN42)						
8	BODY STUDS	Steel						
9	BODY NUTS	Steel						
10	EYE BOLT*	Steel						
* Only for some sizes								

NO.	PART		MATERIAL				
1	BODY	SC_	Cast iron EN-JL1040 (GG25)				
	BODT	SD_ Ductile iron EN-JS1030 (GGG40)					
2	DIAPHRAGM	Rubber	Natural (D10) / EPDM (D20) / Butyl (D30) / Nitrile (D40) / Neoprene (D50) / Hypalon (D60) / Viton (D70)				
3	COMPRESSOR		Cast iron EN-JL1040 (GG25)				
4	BONNET	SC_ SD	Cast iron EN-JL1040 (GG25) Ductile iron EN-JS1030 (GGG40)				

Main Valve Parameters

	DN		20	25	32	40	50	65
L	EN 558 S7 (BS 5156)	108	114	127	146	159	190	216
	EN 558 S1 (DIN 3202 F1)	130	150	160	180	200	230	290
	H (open)	110	108	132,5	130,5	131,5	194,5	220
H1 (close)		102	100	120	118	119	177	196
а		71	71	85	85	85	115	130
ØW		100	100	120	120	120	164	220
FLANGED ENDS TO EN PN10	ØD	95	105	115	140	150	165	185
	С	14	16	16	18	18	20	20
	ØR	45	58	68	78	88	102	122
	f	2	2	2	2	3	3	3
	nxØd	4x14	4x14	4x14	4x18	4x18	4x18	4x18
	ØK	65	75	85	100	110	125	145
FLANGED ENDS TO ASA150#*	ØD	89	98	108	117	127	152	178
	С	11,5	11,5	11,5	13	14,5	16	17,5
	ØR	35	43	51	64	73	92	105
	f	1,6	1,6	1,6	1,6	1,6	1,6	1,6
	nxØd	4x16	4x16	4x16	4x16	4x16	4x19	4x19
	ØK	60,3	69,8	79,4	88,9	98,4	120,6	139,7
Approx. Weight	EN 558 S7 (BS 5156)	3,3	3,6	4,3	6,5	7	10,5	15,5
	EN 558 S1 (DIN 3202 F1)	3,8	4	4,8	7,5	8	11,5	16,5
*Unless specific agreement with COMEVAL, valves with flanges 150# will be usually supplied Dimensions in mm subject to manufacturing tolerance / Weights in kg								

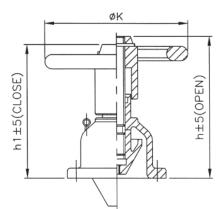
as EN/DIN flanges with 150# drilling, since pressure is limited to EN/DIN

Information / restriction of technical rules need to be observed!

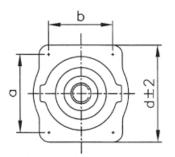
The engineer, designing a system or a plant, is responsable for the selection of the correct valve Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es Product suitability must be verified, contact manufacturer for information

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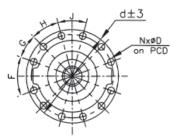
Main Bonnet Dimensions



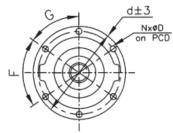




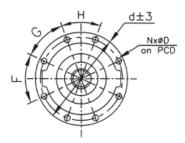
SIZE: DN 15 TO DN 80



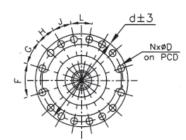
SIZE: DN 250



SIZE: DN 100



SIZE: DN 125 TO DN 200



SIZE: DN 300

		b							ANGLES BETWEEN THE HOLES				
DN	а	ØPCD	d	h	h1	ØK	NxØD	Weight	F	G	н	J	L
15	54	30	71	93,5	86,0	100	4x7	1,2					
20	54	30	71	93,5	86,0	100	4x7	1,2					
25	64	51	85	105,0	93,0	120	4x9	2,0					
32	64	51	85	105,0	93,0	120	4x9	2,0					
40	64	51	85	105,0	93,0	120	4x9	2,0					
50	89	64	115	165,0	147,5	164	4x11	4,5					
65	102	83	130	185,0	161,0	220	4x13	7,0					
80	137	102	171	231,0	201,0	240	4x17	11,0					
100		Ø171	Ø200	243,0	210,5	270	6x13	14,5	70°	55°			
125		Ø205	Ø234	264,0	226,5	270	8x13	18,0	50°	45°	40°		
150		Ø254	Ø290	346,0	295,0	360	8x13	31,0	60°	40°	40°		
200		Ø305	Ø350	395,0	333,0	460	8x17	50,0	60°	40°	40°		
250		Ø381	Ø430	507,0	434,5	525	12x21	79,0	40°	25°	30°	30°	
300		Ø451	Ø512	641,0	546,0	600	16x21	115,0	34°	24°20'	19°	19°	21°20'

Dimensions in mm subject to manufacturing tolerance / Weights in kg

Special Arrangements

Sealed bonnet

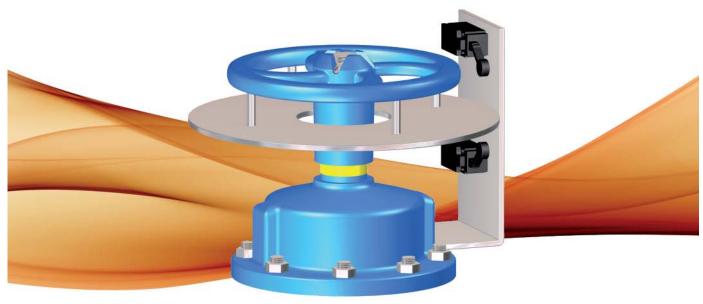
Sealed bonnets mean an essential safety requirement when handling toxic or hazardous fluids. This design prevents fluid emissions in case of diaphragm rupture and, consequently, avoiding harmful risks to plant personnel.

The bonnet is sealed off by two VITON O-rings across the bonnet neck.

These rings are retaining the eventual leakage until a new diaphragm is mounted and thus service integrity restored.

Limit switches

Limit switches are often used to provide remote signal on the valve status. Electro mechanical limit switches or proximity switches can be provided on a special assembly consisting of a protruding rod angle plate (fix unit) where the switches are bolted and a round plate (moving unit) which moves up and down along with the hand wheel to activate the switches for open and closed position. If just a single signal is required, a single switch for open or closed signal should be mounted.



Bonnet options apply for manual operation. DIAVAL® can engineer and provide further tailor made options on request.

Padlocking device

Conventional padlocking device that prevents unauthorized valve operation; the complete set consists in two empty steel rolls interconnected by a rod where the padlock is held.

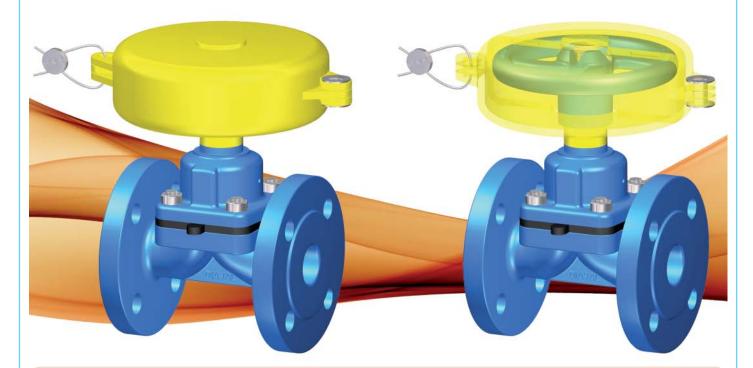
The lower roll is fitted onto one of the bonnet union bolts whilst the upper one blocks the hand wheel free turn. A chain links both rolls thus making the integral set.

The device is provided with padlock and keys which are replaceable by the plant operator. No duplicate of padlock keys are kept at DIA-VAL, therefore is plant owner responsibility to create their own set of keys and keeping procedure.

This system maybe provided as an option with new valves or, alternatively, can also be assembled in field on existing DIAVAL® valves.



Hand wheel protecting hood



Two halves plastic hood conveniently sealed to avoid valve operation by unauthorized personnel.

There are several hoods in accordance with the hand wheel diameter. This hoods can be provided as an option with new valves or, alternatively, can also be assembled in field on existing DIAVAL® valves.

Bonnet options apply for manual operation. DIAVAL® can engineer and provide further tailor made options on request.