

1/2" - 6", full port

for safe and representative sampling of aggressive or even toxic liquids from pressurized pipelines without any process interruptions.

Modular Design

SSB Sampling ball valves are distinguished by their fixed sample volume of 40ml (1.35oz) which is isolated from the process as the valve is being operated.

The sturdy bodies are made of stainless steel casting 1.4408 (CF-8M), optional with chemically resistant linings such as PFA or PFA-AS (conductive).



Ce Conformity acc. to European
Pressure Equipment Directive 2014/68/EU (PED)

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With vertical adapter

Main Features

- Full-port design, no pressure drop
- Fixed sample volume of approx. 40ml (1.35oz)
- Sample isolated from process as valve is operated
- Only one opening to the atmosphere
- Lockable handle with two stops for easy 180° degree motion
- ISO-flange according to ISO 5211 allows direct automation with pneum. or el. actuators
- Zero stem leakage provided by an innovative stem sealing mechanism
- Easy maintenance, same spare parts for all sizes
- Piggable

Options

- Purge Connection
- Vertical adapter
- Pneumatic or electric actuator (with optional timer unit)
- Adj. bottle support with spring-loaded plate
- Safety cabinet (SS or PP) with windows
- Activated carbon filter



With pneum, actuator



Operating Conditions

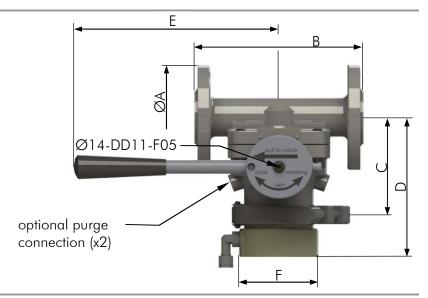
- Temperature range from -40°F up to +300°F (400°F), depending on lining material
- Pressure range from 0.01 psi up to 232 psi, depending on size/pressure/temperature

Testing / Marking

- Pressure- and tightness testing acc. to EN 12266-1, leakage rate A, resp. API 598
- Marking of valves on body and name plate acc. to EN 19
- Material- resp. test certificates acc. to EN 10204-3.1/2.2/2.1
- Testing of the plastic lining for porosity with 35 kV

Manual Valve

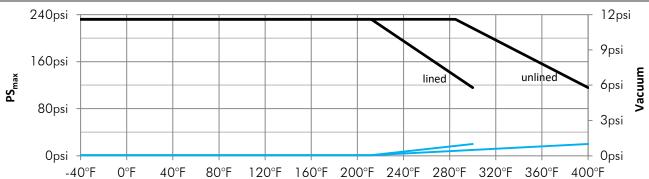
Standard version with handlever



Dimensions in inches

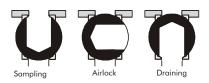
Sizes Size nom.	ØA	В	С	D	E	F	torque [in.lbs]	Valve [lbs]	Handle [lbs]
1/2"	3.5	6.3	3.8	5.5	10	3.1	180	10	2.0
3/4"	3.88	6.3	3.9	5.6	10	3.1	180	11	2.0
1"	4.25	6.5	3.9	5.6	10	3.1	180	11	2.0
11/2"	5.0	6.5	4.2	5.9	10	3.1	180	14	2.0
2"	6.0	7.0	4.4	6.1	10	3.1	180	17	2.0
3"	7.5	8.0	5.0	6.7	10	3.1	180	27	2.0
4"	9.0	9.0	4.4	7.2	10	3.1	180	42	2.0
6"	11.2	11.0	6.5	8.2	10	3.1	180	57	2.0

Pressure-/Temperature Diagram





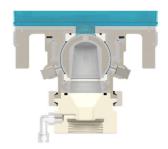
Principle of operation type SSB (Sampling under pressure, with laboratory bottle)



Horizontal installation

Sample volume/Charge ca. 1.35 oz (40 ml)

Comment: depending on the desired volume, the sampling procedure is repeated accordingly Option: Safety lock to prevent unauthorised operation of the valve



Valve in closed position

The sampling ball valve is installed in a horizontal process line. The line still has full passage and is piggable.

In closed valve position, the hand lever is in the horizontal starting position by means of a mechanical stop. The ball seals upwards.



Valve in open position for sampling

The process medium flows through the valve in any ball-position. For sampling, the hand lever is operated counterclockwise by 180° until it stops.

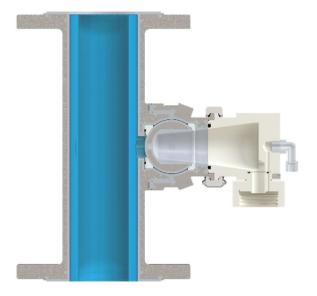
The cavity of the ball is filled with the representative sample.

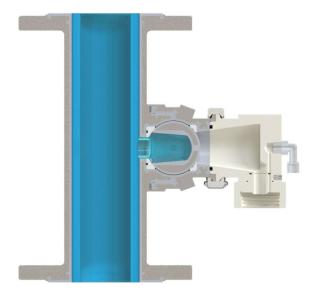
After only a few seconds the hand lever can be turned back to its original position. During the process, the enclosed sample flows into the laboratory bottle.

Vertical installation

Sample/Charge ca. 1.35 oz (40 ml)

Sampling procedure as described under horizontal installation.



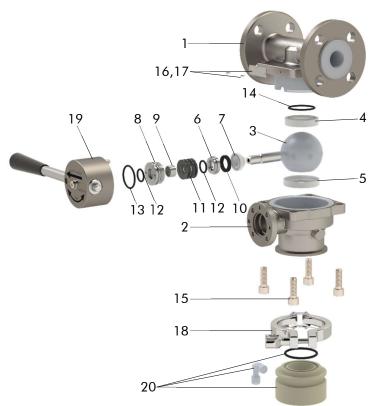




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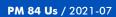
Manual Valve (Picture showing Valve 1" PN16 CF-8M, PFA-lined, with Handlever)

Parts List
Manual Valve compl.



Item	Qty.	Description	Material description	Material No.
1	1	Body 1"	CF-8M/PFA	1.4408/PFA
2	1	Ball Housing	CF-8M/PFA	1.4408/PFA
3	1	Ball encapsulated 40ml	SS-Duplex/ETFE	1.4462/ETFE
4	1	Ball Seat spring loaded	PFA	-
5	1	Ball Seat	PFA	-
6	1	Pressure Sleeve	SS316L	1.4404
7	1	Sealing Sleeve	PTFE	-
8	1	Threaded Bushing	SS316L	1.4404
9	1	Bearing 1409 DU	C.St./PTFE	-
10	1	Elastomer Insert	VMQ	-
11	4	Belleville Spring	Spring Steel	1.8159
12	2	O-Ring	FPM	-
13	1	O-Ring	FPM	-
14	1	O-Ring	FFPM	-
15	4	Socket Head Cap Screw	A2-70	1.4301
16	1	Name Plate 42x14	A2-70	1.4301
17	2	Hammer Screw 2.49x4.76	A2	1.4301
18	1	Clamp	SS304	1.4301
19	1	Handlever compl.	SS316L	1.4404
20	1	Adapter compl. GL45 horizontal	PTFE-R/PVDF	-







Project- /	Customer	Data
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Address: Function: Fax: ZIP/Place: Department: E-mail: Project: Phone direct: Mobile: Media / Chemical Composition: liquid											
Address: Function: Fax: ZIP/Place: Department: E-mail: Project: Phone direct: Mobile: Project: Phone direct: Mobile: Media / Chemical Composition: liquid			/Date:			Ref. SF					
ZIP/Place: Department: E-mail: Project: Phone direct: Mobile: Project: Phone direct: Mobile: Media / Chemical Composition: liquid	Company:	Conta	Contact Person:			Phone:					
Project: Phone direct: Mobile: Phone direct: Phone direct: Mobile: Phone direct: Mobile: Mobile: Phone direct: Mobile:	Address:	Function	on:								
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Media / Chemical Composition: liquid	Project:	Phone	direct:		٨	Nobile:					
liquid	Application										
gaseous Solids % viscous Flow Velocity m/s abrasive Particle mm Visc. cp Flow Rate m³/hr Pressure Temperature Mode Installation / Environment max. bar max. °C On/Off horizontal Room dry min. bar min. °C Flow Control vertical Room humid cycles/ outdoor Remarks: SB Product Code Decification of a complete Ball Valve SSB Series Product Nom. Size Body Body Body lining Elastomer Ball (encaps./solid) Ball Seats Options Code SSB - 1° - 150lbs - G15 - A85 - E67 - U91 - B85 DN15 - 150 PN16 PN40 A86 PFA AS E69 FPM B86 PFA AS B86 PF	Media / Chemica	l Composition:									
abrasive Particle mm Visc. cp Flow Rate m³/hr Pressure Temperature Mode Installation / Environment max. bar max. °C On/Off horizontal Room dry min. bar min. °C Flow Control vertical Room humid cycles/ outdoor Remarks: SB Product Code Decification of a complete Ball Valve SSB Series Product Nom. Size Body Body Body lining Elastomer Ball (encaps/solid) SSB - 1* - 150lbs - G15 - A85 - E67 - U91 - B85 DN15-150 PN16 PN40 A85 PFA B66 PFA-AS B86 PFA	liquid	powdery	crystallizing	s s	ticky		Spec	c. Grav.			
Description	gaseous		6 viscous Flow Ve								
max bar	abrasive	Particle mm	Visc	cp F	low Rate _		_ m³/hr				
minbar	Pressure	Temperature	Mode	<u>lı</u>	nstallatio	n / En	vironm	ent			
Cycles/	max bar	max °C	On/Off		horizont	al	Roo	m dry			
Cycles/	min. bar	min. °C	Flow Co	ontrol	vertical		Roo	m humi	d		
Remarks: SB Product Code Description of a complete Ball Valve SSB Series Product Code Nom. Size Body Body lining Elastomer Ball (encaps/solid) Ball Seats Options SSB - 1" - 150lbs - G15 - A85 - E67 - U91 - B85 - DN15 - 150 PN16 PN40 A86 PFA-AS E67 FPM B86 PFA-AS B86 PFA-AS RAL Special point ANS(150#) ANS(150#) - unlined E68 VMQ S34 SS316L B80 PTFE			cvcles/		- 		outo	door			
SB Product Code Description of a complete Ball Valve SSB Series Product Code Nom. Size Body Body lining Elastomer Ball (encaps./solid) Ball Seats Options SSB - 1" - 150lbs - G15 - A85 - E67 - U91 - B85 - DN15-150 PN16 PN40 A86 PFA-AS E67 FPM U86 PFA-AS B86 PFA-AS RAL Special point A85 PFA E68 VMQ S34 SS316L B80 PTFE others	Remarks:		//								
Code SSB - 1" - 150lbs - G15 - A85 - E67 - U91 - B85 -			ies								
DN15 – 150 PN40 A86 PFA-AS E60 EPDM U91 ETFE B85 PFA Pu Purge connection RAL Special paint - unlined E68 VMQ S34 SS316L B80 PTFE others		e Body Body	Body lining	Elastomer			all Seats	Op	otions		
No. PN PN PN PN PN PN PN P	SSB - 1"	- 150lbs - G15 -	A85	- E67	- U91		B85	-	•••		
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ANSI150# - unlined E68 VMQ S34 SS316L B80 PTFE others S43 C-276 B81 PTFE-T	1/2" - 6"	PN40	A86 PFA-AS	E67 FPM	U86 PFA-A	.S B8	6 PFA-AS		Special		
S43 C-276 B81 PTFE-T		ANSI150#		E68 VMQ	\$34 \$\$31	SL B8	O PTFE		· · · · · · · · · · · · · · · · · · ·		
						_ -					
XX Others B95 PTFE-R											

Note: Actuators, Adapter options and accessories to be specified separately.