

General Description

A high flow valve with brass forged body and stainless steel operator. Suitable for low head and zero head applications. Available in various seat materials including Viton (standard), Silicone, Neoprene & Nitrile. Liquids to 40cst viscosity. Standard coil is weatherproof to IP65 and has LED illuminated plug.

Typical Applications include: Hot water, petrochemical, vacuum packaging, tank drain or low pressure service & general industry.



Model	Function	Port Size BSP	Orifice Ømm	CV	Pressure (BAR)		Vacuum Hg"	Media Temp	Weight Kg	Features	
					AC	DC					
Direct Plunger Operation – Normally Closed											
B55-1-3	N.C	1/8	3	0.26	0-10	0-10	27	-10°C	0.45	Body-Brass Seals- Viton (Std) Silicone Neoprene Teflon Operator- Stainless Steel	Air, Fluid & Vacuum
B55-2-3		1/4	3	0.26	0-10	0-10			0.45		
B55-2-4		1/4	4	0.58	0-7	0-7			0.45		
B55-2-5		1/4	5	0.64	0-5	0-5			0.45		
B55-3-4		3/8	4	0.58	0-10	0-10			0.75		
B55-3-6		3/8	6	0.79	0-5	0-5			0.75		
B55-3-8		3/8	8	0.97	0-2	0-2			0.75		
B55-4-6	N.C	1/2	6	0.79	0-5	0-5	27	100°C	0.80		
B55-4-8		1/2	8	0.97	0-2	0-2			0.80		
Pilot Plunger with Coupled Diaphragm – Normally Closed											
B55-3-15	N.C	3/8	15	4.5	0-10	0-10	27	-10°C	1.00	Body-Brass Seals- Viton (Std) Silicone Neoprene Teflon Operator- Stainless Steel	Air, Fluid & Vacuum Also available in normally open.
B55-4-15		1/2	15	4.5	0-10	0-10			1.00		
B55-5-20		3/4	20	9.3	0-10	0-10			1.25		
B55-6-25		1	25	13.2	0-10	0-10			1.50		
B55-7-35		1 1/4	35	26	0-10	0-10			2.85		
B55-8-35		1 1/2	35	26	0-10	0-10			2.85		
B55-9-50		2	50	48	0-7	0-7			4.80		
B55-6F-25	N.C	Flange	25	13.2	0-10	0-10	27	100°C	5.35		
B55-7F-35			35	26	0-10	0-10			7.25		
B55-8F-35			35	26	0-10	0-10			7.25		
B55-9F-50			50	48	0-7	0-7			10.25		

IMPORTANT – Chemical Resistance

For specific information on chemical resistance of valve components to various Liquids and Gases, refer to the manufacturer or your distributor. See over page for applications warning. It is the responsibility of the user to determine suitability of the liner and body material to the application.

B5 **5** - **4** - **15** - **1** **V**

Series B5

Function
5 - normally closed

Orifice

Optional Extras

- F Flying Leads
- R Silver shading Ring
- Exd Dust & Ignition Proof, Flame Proof

Seat & Diaphragm

- V Viton
- S Silicone
- NE Neoprene
- N Nitrile
- T Teflon

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Earth Terminal
Connector Plug with LED
1 & 2 Input Terminals
(Non polarity Conscious)

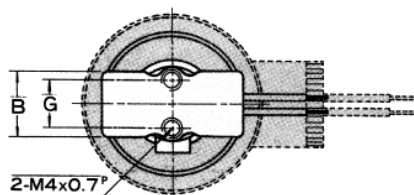
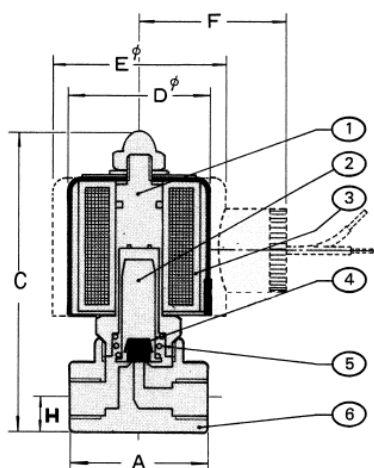
Code	Ports Size BSP	Code	Voltage	
			AC (VA)	DC (Watt)
1	1/8	1	240v/50Hz	
2	1/4	2	110v/50Hz	
3	3/8	5	24v/50Hz	
4	1/2	7	12vDC	
5	3/4	8	24vDC	
6	1	9	48vDC	
7	1 1/4			
8	1 1/2			
9	2	11	415v/50Hz	

Model DIN	Power			Insulation Grade
	AC (VA) 50Hz	60Hz	DC (Watt)	
B55-1 to 2	15.4	11.7	12.0	F
B55-3 to 9	24.4	19.8	17.5	F

HIGH FLOW / DIRECT ACTING / BRASS BODY SOLENOID VALVE

SERIES B55

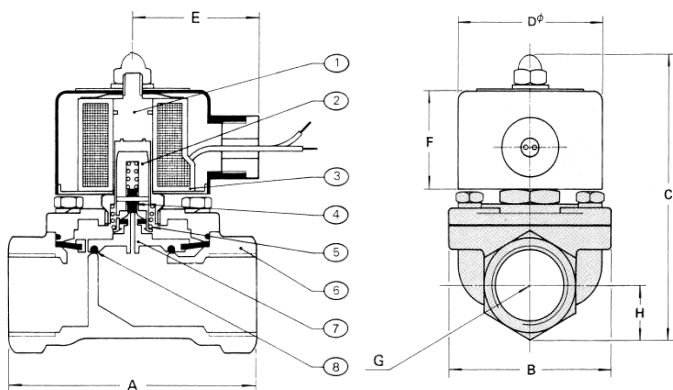
Direct Plunger



Unit: mm

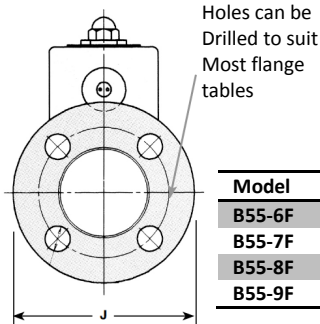
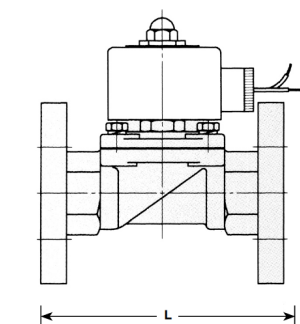
Model	A	B	C	D (Din)	E (Din)	F	G BSP	H
B55-1-3	41	19	86.5	41	--	--	1/8	10.5
B55-2-3~5	41	19	86.5	41	--	--	1/4	10.5
B55-3-4~8	50	25	91	--	52	45	3/8	11.7
B55-4-6~8	50	27	91	--	52	45	1/2	13.0

Coupled Diaphragm



Unit: mm

Model	A	B	C	D (DIN)	E (DIN)	F	G	H
B55-3-15	75	52	103	56	66	41	1/2	14.5
B55-4-15	85	60	114	56	66	41	3/4	18
B55-5-20	100	70	120	56	66	41	1	23
B55-6-25	120	90	140	56	66	41	1 1/4	33
B55-7-35	120	90	140	56	66	41	1 1/2	33
B55-8-35	120	90	140	56	66	41	1 3/4	33
B55-9-50	150	122	160	56	66	41	2	40.5



Model	L	J
B55-6F	130	125
B55-7F	160	135
B55-8F	160	140
B55-9F	200	155

Item	Article	Material
1	Armature	Stainless Steel 304
2	Plunger	Stainless Steel 304
3	Coil	Brass Wire
4	Plunger Seat	Viton, Silicon, Teflon, Neoprene
5	Spring	Stainless Steel 304
6	Valve Body	Brass Forged
7	Diaphragm	Viton, Silicon, Neoprene
8	Leak proof Ring	Viton, Silicon, Neoprene



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WARNING

These products are intended for use in industrial applications only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data' and in our individual 'Series' data sheets. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult **Process Systems Pty Ltd.**

Through misuse, age, or malfunction, components used in industrial valve applications can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in industrial valve applications and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure. **System designers must provide a warning to the user in the system instructional manual if protection against a failure mode cannot be adequately provided.**

System designers and end users are cautioned to review specific warnings or specifications found in instruction sheets or labels packed or attached and shipped with the products. Our policy is one of continuous research and development. We therefore reserve the right to amend without notice the specifications given in this document or our individual 'Series' data sheets.

WARRANTY INFORMATION

Series B55 and all other products manufactured or distributed by Process Systems Pty. Ltd. are warranted by Process Systems to be free of defects in material and workmanship for a period of 1 year from the date of purchase or as the manufacturer warrants. Process Systems obligation under this warranty is limited to repair or replacement of the defective product or refund of the purchase price paid solely at the discretion of Process Systems and provided such defective product is returned to Process Systems freight prepaid and upon examination by Process Systems such product is found defective. This warranty shall be void in the event that the product has been subject to misuse, misapplication, improper maintenance, modification or tampering. This warranty is expressed in lieu of all other warranties, expressed or implied from Process Systems Pty. Ltd. representatives or employees. Process Systems reserves the right to change Valve and Brochure specifications without notice.