Solenoid Valve

Model: PS-22, PS-22C (for Steam, Liquids or Air)

For Manufacturing and Building Equipment etc. Piston type Solenoid Valve

The PS-22 Type series screwed solenoid valves (Momotaro II) inherit features of the conventional PS-12 Type series products.

To make replacement easy, the face-to-face dimensions of the new series are exactly the same as those of the previous series products. There are some changes though, for improving durability, energy saving performance, and compliance with RoHS directives (products with nominal diameter less than 50mm) and other environmental standards.



Features

- Durability is more than 1 million times.(Note: The data is based on results of Internal lests for size 25mm and lower products)
- Suitable for steam, water, air and oil.
- Wide range of applicable pressure: 0-1.0 MPa.
- Install in horizontal or vertical pipe.(size 50mm or smaller)
- The coil is coated with heat-resistant thermosetting resin (size 25mm and lower products).

Specifications

Operation	Energized open	Energized close					
Model name	PS-22*1	PS-22C*1					
Code name	PS22-W*1	PS22C-W*1					
Applicable fluid	Steam, water, air & oils (Kerosene, diesel oil level)*3						
Fluid temperature	5 - 180°C (For hot water : Max. 100°C)						
Fluid viscosity	20cST or less						
Applicable pressure	0 – 1.0MPa						
Min.pressure differential across the disc	0MPa (0.03MPa for coil installed horizontally.)						
Leakage allowance	Steam, water & oils:Nil (Confirm at pressure gauge) Air:50mL/min(standard state) or less (when 0.05 – 1.0MPa)						
Rated voltage	Common use:AC100/200V 50/60Hz or AC110/220V 60Hz*6						
Insulation	Class H						
Ambient temperature	5-60°C						
D:	Dustproof, splash proof, for indoor use*7						
Protection	(When used outdoors, also use TB-03 Type terminal box, as rain proof type**)						
End connection	Screwed JIS Rc						
Materials	Body (Cast bronze),						
	Disc (Size 10-50mm: Brass with Teflon tip, Size 65 mm: Stainless steel with Teflon tip)						
	Size 50mm or smaller: Can be installed on both horizontal and vertical piping at any angle						
Installation	Between the vertical (when the coil part is placed above) and horizontal.						
	Size 65mm: Install the valve vertically in horizontal piping placing coil part above.						
Valve body pressure	Hydraulic 2.0 MPa						

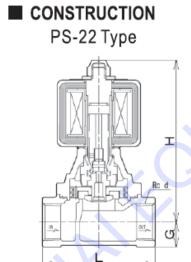
- *1. Size 65mm is PS-12, 12C Types, whose code names are PS12-W and PS12C-W respectively(The shape and specifications of coils in these products are different from other products)
- *2. Refer to Page 244 for method of wiring.
- *3. If there is any regulation for fuel gas or diesel oil, confirm the body material according to the regulation.
- *4. Products with size 32mm or larger and those suitable for special voltage have different shape and dimensions of the coil
- *5. Please select WS Type series if you need air lightness or use the product will well or river water.
- *6. For products suitable for special voltage, please contact us (Products for such purpose have coils with different shape and dimensions)
- *7. Size 32mm and larger products are dustproof and drip-proof type.
- *8. Products with TB-03 Type terminal box are rain-proof type Products with TB-03C Type terminal box are splash-proof type (size 25 mm or smaller) or rain-proof type (size 32mm or larger)
- *9. In environment with humidity higher than 85%, please use PS-22Y,22CY Types if the required size is 32-50 mm or PS-12Y,12CY Types if the required size is 65 mm (Please contact our agent in your area for products with size smaller than 25mm)
- *10. In case of high viscosity (100cSt or larger), Please contact our agent in your area.
- *11. Products with manual operating device are also available (Size 50mm or smaller).

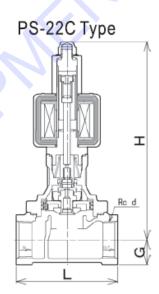
Dimensions and Current values

(mm)

	Size		10(%")	15(½")	20(¾")	25(1")	32(1¼")	40(1½")	50(2")	65(2½")*
d		3/8"	1/2"	3/4"	1″	1¼"	1½"	2"	21/2"	
L		63	63	80	90	106	118	140	160	
G		15	15	18	22	27	30	37	45	
	Н		102(174)	102(174)	115(178)	120(183)	150(199)	153(202)	165(214)	200(252)
Port size		18	18	23	28	32	40	48	60	
	Cv value		3	4.5	7.5	12	18	23	35	50
Mass(kg)		1.1(1.5)	1.1(1.5)	1.4(1.8)	1.9(2.3)	3(3.5)	3.9(4.4)	5.3(5.8)	8.1(8.5)	
Current (A)	AC100V	Rated	0.21(0.30)	0.30(0.30) 0.42(0.43)			0.60(0.60)		
		Starting	0.70(0.70(1.35)		1.25(1.35)		1.62(1.71)		2.50(2.50)
	AC200V	Rated	0.10(0.15)	0.15(0.15(0.15)		0.18(0.22)		0.30(0.30)
		Starting	0.35(0.70)	0.63((0.70)	70) 0.80(0.85)		1	1.25(1.25)

- *Size 65mm products are PS-12,PS-12C Type whose code names are PS12-W and PS12C-W respectively.(The shape and specifications of coils in these products are different from other products.)
- Figures in () are for energized close type.





- Depending on size, the structure may vary (Size 32mm and larger products have different coil structure)
- The face-to-face dimensions are the same as those of old models PS-12 and PS-12C Types.