



# TOYOOKI KOGYO CO., LTD.

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6th Feb, 2018

Dear Customers,

## REF. CHANGE OF MODEL FOR 025 SERIES SOLENOID VALE

We are pleased inform you that we have changed the model for 025 series solenoid valve.

### ■ SPECIFICATION

No.1 energy saving in our industry since before model.(\*1)  
Dust-proof and waterproof, IEC regulation and IP65(\*2) are taken over.  
It is much smaller than before.(\*3)  
About change of dimensions, please refer to another sheet.

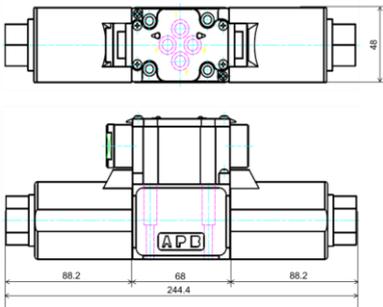
(\*1): In-company investigation (\*2): M12-4 pin connector type is IP67.  
(\*3): The total length of double solenoid type is 13.2mm shorter,  
width of coil is 1.6mm larger than before.

### ■ SUBJECT ITEMS

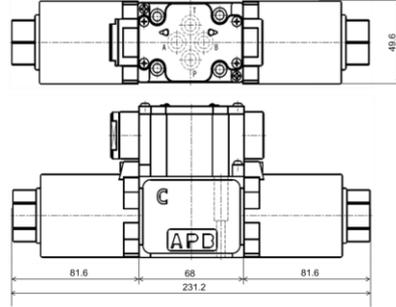
NAME OF AN ARTICLE	OLD MODEL	NEW MODEL
025 SERIES SOLENOID VALVE (NORMAL, TERMINAL BOX TYPE)	HD*-***-***-025B-WY**(*)	HD*-***-***-025D-WY**(*)
025 SERIES SOLENOID VALVE (SAVING WIRING, PIN CONNECTOR TYPE)	HD*-***-***-025C-WYD2(*)	HD*-***-***-025D-WYD2(*)

### ■ DIMENSION(EX.)

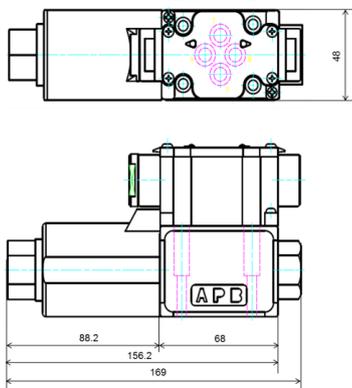
Old: terminal box type(double solenoid)



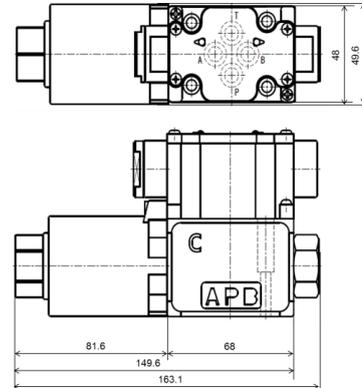
New: terminal box type(single solenoid)



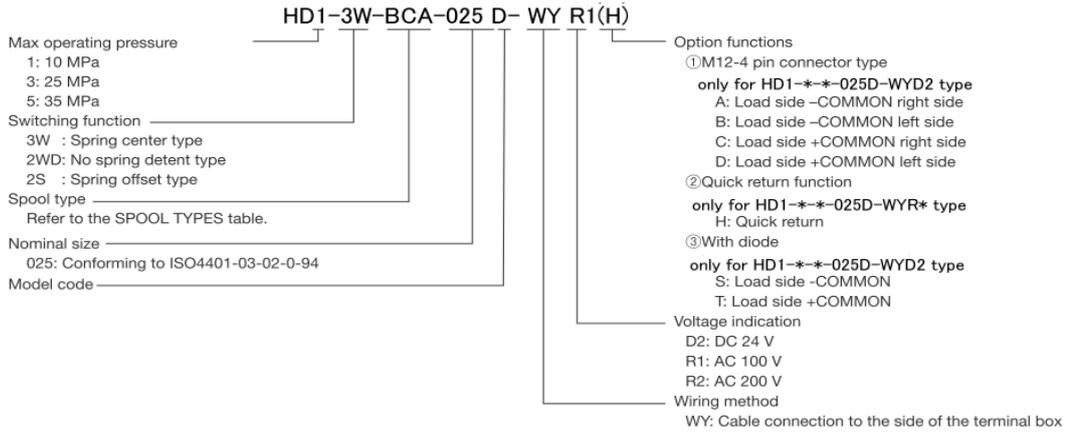
Old: terminal box type(single solenoid)



New: terminal box type(single solenoid)



■ DESCRIPTION OF THE MODEL DESIGNATION



Series	HD1	HD3	HD5
Max. operating pressure (MPa)	10	25	35
Max. flow (NOTE 5) (L/min)	40	80	80
Permissible back pressure at T port (NOTE 6) (MPa)	10 (2)	16 (5)	16 (5)
Switching frequency (CYCLE/s)	2 or lower		
Permissible voltage variation range	Rated voltage ±10% V		
Protection structure class	IEC529 IP65 (IP67) (NOTE 7)		
Hydraulic fluid cleanliness	Complying with ISO11218-Class 12 (NAS1638-Class 12)		
Operating fluid (recommendation)	ISO VG22, 32, 46		
Viscosity (mm <sup>2</sup> /s)	15 to 400		
Fluid temperature (°C)	0 to 65		
Ambient temperature (°C)	-10 to 50		
Tightening torque (N·m)	6 to 8		8 to 9
Mass (kg)	3W, 2WD: 2.5 2S: 1.8		

NOTE 5: For details, refer to the operation limit.  
 NOTE 6: Values in parentheses are for the detent type.  
 NOTE 7: Protective structure class (IP67) is applicable to M12-4 pin type connector.

\* with CE marking

■ SOLENOID SPECIFICATIONS

● HD1 SERIES

Solenoid model	SLH1-025D-D2	SLH1-025D-R1	SLH1-025D-R2	SLH1-025D-R3	SLH1-025D-R4
Rated voltage	DC24V	AC100V	AC200V	AC110V	AC220V
Frequency	50/60HZ				
Holding current	0.2A	0.07A	0.04A	0.06A	0.035A
Power consumption	4.8W	6.5W	7.1W	6.1W	6.9W
Voltage variation range	±10%V				

● HD3,5 SERIES

Solenoid model	SLH5-025D-D2	SLH5-025D-R1	SLH5-025D-R2	SLH5-025D-R3	SLH5-025D-R4
Rated voltage	DC24V	AC100V	AC200V	AC110V	AC220V
Frequency	50/60HZ				
Holding current	1.2A	0.35A	0.19A	0.32A	0.16A
Power consumption	29W	31W	33W	31W	32W
Voltage variation range	±10%V				

■ VALIDITY 1st Feb, 2018