

#### Direct acting 2, 3-port valve (pinch valve for high purity fluids)

# **HYN** Series

- NO (closed when energized), NC (open when energized), universal FWD
- Working fluid: Water/pure water/chemical liquids
- Removable tube, compatible tube: ø3 x ø1, ø5 x ø3, ø8 x ø6



USB/G FAB/G

EXA

HNB/G

XPLNprf

**XPLNprf** 

HVB/ HVL

S≎B/

NAB

LAD/

NAD

MXB/G Other valves SWD/ MWD

DustColl CVE

CVSE CCH/ CPE/D

LifeSci

Gas-Combus

Auto-

Water

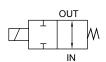
Outdoor

SpecFld

Custom

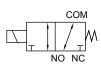
### JIS symbol

2-port valve : NO (closed when energized)



2-port valve : NC (open when energized)

3-port : Universal



Common specifi	cations			1 MPa ≈ 145.0 psi, 1 MPa = 10 bar				
Item	HYN-3		HY	N-5	HY	FGB/G		
item	AC	DC	AC	DC	AC	DC		
Working fluid	Water/pure v	vater/chemical	liquids (fluids	that do not co	rrode wetted pa	art materials)	FVB	
Working pressure MPa	0 to 0.	0 to 0.05 (refer to the working pressure in the individual specifications.)						
Fluid temperature °C		5 (41°F) to 50 (122°F)						
Ambient temperature °C		0 (32°F) to 40 (104°F) (no freezing)						
Frequency Cycle/min.	60 or less						FLB	
Mounting orientation	Unrestricted (*1)							
Electrical specifications							AB	
Rating	Continuous	Continuous	Intermittent (*2)	Continuous	Intermittent (*2)	Continuous	AG	
Deted valters	100 V	12 V	100	12 V	100	12 V		
Rated voltage	(50/60 Hz)	24 V	(50/60 Hz)	24 V	(50/60 Hz)	24 V	AG AP/ AD	
Voltage fluctuation range		±10%						
Leakage current mA	2 or less (*3)						ADK	
*1 : Avoid vertical mounting with the coil down to prevent fluid intrusion into the coil during abnormalities such as tube							DryAir	
rupture.							FX-	

\*2 : When using intermittent rating, keep the max. continuous power ON time within 10 minutes and the DUTY ratio one half or less

\*3 : The leakage current from the control circuit must be equal to or less than the values shown in the table.

\*4 : For tightening torque of the set screw, refer to the recommended tightening torque below.

Recommended tightening torque: HYN-3: 0.2 to 0.4 N·m, HYN-5, 8: 0.5 to 0.7 N·m

\*5 : The performance may not be satisfied if a tube other than the recommended ones is used.

\*6 : When starting and switching retention, noise is generated temporarily. Check the compatibility of the control circuit.

\*7 : Solenoid valve has polarity. Connect the red lead wire to the plus (+) side.

\*8 : After the solenoid valve is completely switched ON or OFF, set an interval of 0.5 seconds or more before switching it the next time.

#### Individual specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

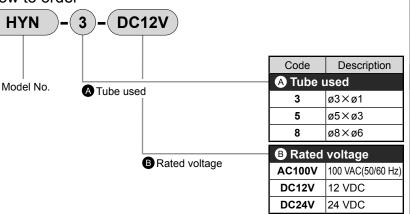
Individual specifications						1 MPa ≈	145.0 psi, 1 N	/IPa = 10 bar	Water-
Item	Compatible tube	Working	Power consumpt	ion 12/24 VDC (w)	Max. current	100 VAC (A)	Thermal	Weight	Rela
Model No.	∖ (*1) (silicone tube)	pressure (MPa)	Starting (*2)	Holding	Starting (*2)	Holding	class	(kg)	NP/NAP/ NVP
HYN-3	ø3×ø1	0 to 0.05	15	4	0.26	0.06	Class 120 (E)	0.18	
HYN-5	ø5×ø3	0 10 0.05	30	8	0.55	0.14	Class 130	0.36	SNP
HYN-8	ø8×ø6	0 to 0.02	30	8	0.55	0.14	(B)	0.37	CHB/G

\*1 : Use the recommended tubes below.

\*2 : Time from energizing to 200 ms.

Tube model No.	Tube size (O.D.) x (I.D.) x (length)			
HYN-3-1-1000	ø3×ø1×1 m			
HYN-3-1-5000	ø3×ø1×5 m			
HYN-5-3-1000	ø5×ø3×1 m			
HYN-5-3-5000	ø5×ø3×5 m			
HYN-8-6-1000	ø8×ø6×1 m			
HYN-8-6-5000	ø8×ø6×5 m			

#### How to order



Ending

СКД

## HYN Series

EXA

FWD

HNB/G

USB/G

FAB/G

FGB/G

FVB

FWB/G

FHB

FLB

AB

AG AP/ AD APK/ ADK

DryAir

EX-XPLNprf XPLNprf HVB/ HVL

S☆B/ NAB

LAD/ NAD

Water-

Rela

NVP SNP

NP/NAP/

CHB/G

MXB/G

Other

valves SWD/ MWD

DustColl

CVE/

CVSE CCH/ CPE/D

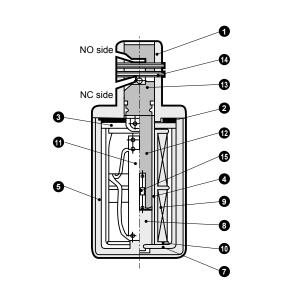
LifeSci

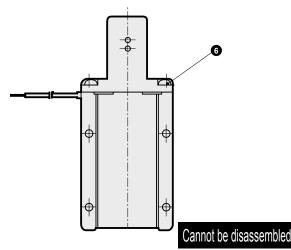
Gas-Combus

Auto-

Water Outdoor • HYN

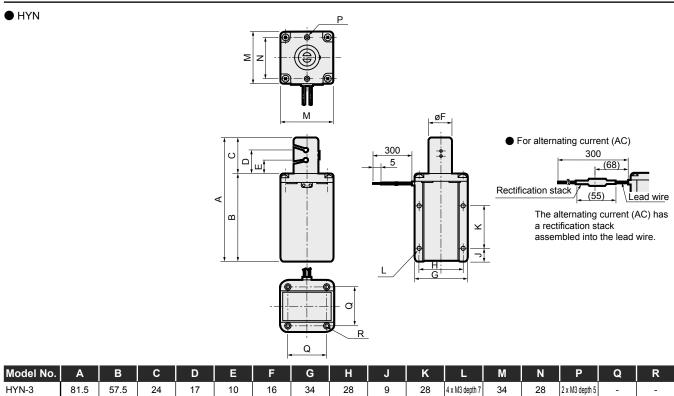
#### Internal structure and parts list





No.	Part name	Material	Material		Part name	Material	
1	Valve A	POM	Acetal resin	9	Coil	-	-
2	Packing	NBR	Nitrile rubber	10	Bobbin	PET	Polyethylene
3	Frame B	SPC	Steel	11	Wiring section assembly	-	-
4	Plunger guide	C2700	Copper	12	Plunger	SUS405	Stainless steel
5	Cover	PA	Polyamide	13	Valve B	POM	Polyacetal resin
6	Tapping screw	SUS304	Stainless steel	14	Spring pin	SUS420	Stainless steel
7	Frame A	SPC	Steel	15	Return spring	SUS304	Stainless steel
8	Stopper	SUS405	Stainless steel				





SpecFld HYN-5 Custom HYN-8

Ending

972

98

103

65

65

33

38

23

27

13

14

25

30

43

43

36.5

36.5

11

11

36.5

36.5

4 x M4 depth 7

4 x M4 depth 7

43

43

-

-

-

36.5

36.5

4 x M4 depth 7

4 x M4 depth 7