IFTBV Series

FLOWMETER VALVE 一体型 TYPE

（一体型タイプで狭いスペースに適しており、瞬時流量および積算流量を表示可能です。また、4～20mA 出力や接点出力に対応しています。）

[유량계 + 밸브일체형]- 특주 주문 사양
[流量計とバルブ一体型] - 特注注文仕様

CHARACTERISTICS

■PVC、PTFE、SUS316 をはじめとする
　各種材質に対応可能
■優秀な耐薬性
■瞬時に流量・ 積算流量を表示
■接点出力／アナログ出力（0～20mA）
■バルブと流量計が一体となり、
　狭所設置に適したコスト削減タイプ

SPECIFICATION

SPECIFICATION	
정범위(範囲)	Min. 10L/min Max. 500L/min (water 기준基準)
유량의 비율(流量比)	10:1
정확도(精度)	±3% Full scale
최대압력(最大圧力)	5kgf/cm²
최대온도(最高温度)	40℃ (PVC) / 90℃ (PTFE)
점성(粘度)	< 20cP
사용유체(使用流体)	Chemicals, D.I-Water

MODEL SELECTION

IFTBV - ❶ ❷ ❸ - ❹ ❺ ❻ ❼ - ❽

❶ Material	❷ Size			❸ O-ring	❹ Display	❺ Output	❻ Power	❼ 통신通信		❽ Valve Type
T (PTFE)	38i (3/8inch) or	8,10m	(8,10mm)	E (EPDM)	N (NONE)	1 (Ararm)	D (DC24V)	무기호 (無記号)	(No Option)	M (Manual Valve)
	12i (1/2inch) or	12m	(12mm)	F (FKM)	S (순시瞬時)	2 (4~20mA)		R	(RS485)	N (Needle Valve)
	34i (3/4inch) or	19m	(19mm)	K (N-217)	E (순시/적산) (瞬時/積算)	3 (1~5VDC)				
	1i (1inch) or	25m	(25mm)	G (G902)						

MODEL SELECTION

IFTBV - ❶ ❷ ❸ ❹ - ❺ ❻ ❼ ❽ - ❾

❶ Material	❷ Size	❸ Connection	❹ O-ring	❺ Display	❻ Output	❼ Power	❽ 통신通信		❾ Valve Type
P (PVC)	15 (15A)	U (Union)	E (EPDM)	N (NONE)	1 (Ararm)	D (DC24V)	무기호 (無記号)	(No Option)	M (Manual Valve)
	20 (20A)		F (FKM)	S (순시瞬時)	2 (4~20mA)		R	(RS485)	N (Needle Valve)
	25 (25A)		K (N-217)	E (순시/적산) (瞬時/積算)	3 (1~5VDC)				
			G (G902)						

WIRING DIAGRAM

ICU Controller wiring (Double solenoid valve)

CASE-01

Equipment (PLC etc.)

CN1 Alarm output

Leak alarm	①
DC +24V (COM)	②
Time up alarm	③
DC +24V (COM)	④
Life alarm	⑤
DC +24V (COM)	⑥
Fast alarm	⑦
DC +24V (COM)	⑧

INPUT
- X001
- X002
- X003
- X004
- X005
- ⋮
- COM

P24

OUTPUT
- Y001
- Y002
- Y003
- Y004
- Y005
- ⋮
- COM

N24

Y001
Y002
Y003

CN4 Remote Control Input

①	Pump start, stop
②	Two steps flow rate change
③	Alarm reset
④	GND

P24	P24
N24	N24

Bellows Pump Contoller

CN7 CN1 CN2 CN3 CN4 CN5 CN6
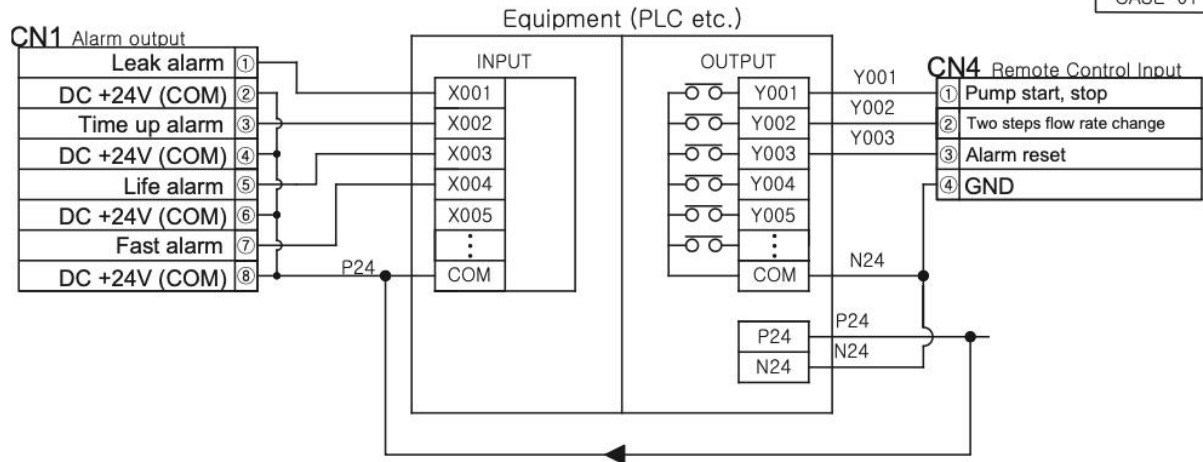
CN7 (Option) Flow meter

RS485 (A)	①
RS485 (B)	②

CN3 Leak / Proximity Sensor

Proximity Sensor			
APS4-12U-E	TL-W3MC	Leak senor R/L -1	①
		Leak senor R/L -2	②
RED	BROWN	Proximity Sensor R (+)	③
WHITE	BLACK	Proximity Sensor R SIG.	④
BLACK	BLUE	Proximity Sensor R (-)	⑤
RED	BROWN	Proximity Sensor L (+)	⑥
WHITE	BLACK	Proximity Sensor L SIG.	⑦
BLACK	BLUE	Proximity Sensor L (-)	⑧

CN6 Main Power

①	+24V
②	GND

CN5 Electro pneumatic reguletor

①	+24V
②	DC 0~+10V Output
③	GND

CN2 Solenoid valve output

①	Solenoid valve R -
②	Solenoid valve R - (+24V)
③	Solenoid valve L -
④	Solenoid valve L - (+24V)

CN7 - ①
CN7 - ②

FI

Flow meter

LEFT   RIGHT

Proximity Sensor L
CN3 - ⑥ (+)
CN3 - ⑦ SIG.
CN3 - ⑧ (-)

Proximity Sensor R
R (+) CN3 - ③
R SIG CN3 - ④
R (-) CN3 - ⑤

Bellows Pump

CN3 - ① L1
CN3 - ② L2
Leak senor L

R1 CN3 - ①
R2 CN3 - ②
Leak senor R

+ CN5 - ①
Vin CN5 - ②
- CN5 - ③

CN2 - ④
CN2 - ③

CN2 - ②
CN2 - ①

Sol-Valve
(5Port 3Positon Exhaust Center)

Electro
Pneumatic
Regulator

Manual
Regulator

Air Filter

Stop Valve