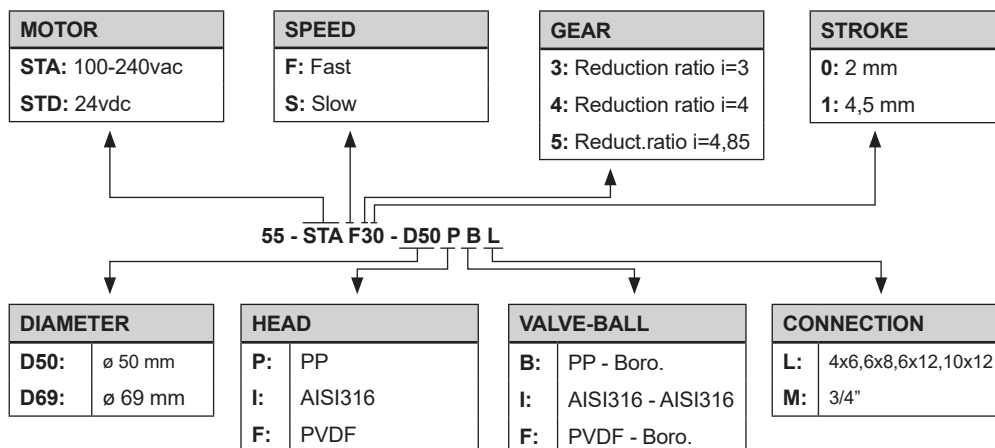


# DOSMART AC: TECHNICAL FEATURES

## DSM 001

### CODE FORMULATION



### MATERIALS

Diaphragm	P.T.F.E, elastomer base reinforced with fiber
Retention	FPM
Head	P.P. / PVDF / SS 316
Valves (body)	P.P / PVDF / SS 316
Valves (ball)	borosilicate/AISI316

### FLOW - PRESSURE

55-STA... / 55-STD ...		S50-D50	F50-D50	F30-D50	F51-D50	F31-D50	F41-D69	F31-D69
Max Flow at P máx.	l/h	1.5	4	8	13	25	40	60
	gph	0.40	1.05	2.10	3.40	6.60	10.50	15.80
Max. Pressure	Bar	16	12	8	7	5	3	2
	psi	232	174	116	100	72	44	29
Strokes/min		50	95	150	91	162	113	164
Turndown ratio		1:3000	1:3000	1:3000	1:3000	1:3000	1:3000	1:3000
Max. suction lift during operation	m	6	6	6	6	6	5	3
Min. DN suction/discharge pipe	mm	4	4	6	6	10	10	10
Max. viscosity (standar valve and min. DN pipe)	mPa.s	100	10	200	100	200	200	100
Max. viscosity SS mode (Slow Suction and special valves)	mPa.s	3000	3000	3000	3000	3000	3000	1800

# DOSMART AC: TECHNICAL FEATURES

## DSM 001

### TECHNICAL FEATURES

Power	32 W	Protection	IP-65
Voltage	100-250 vac / 22-30 vdc	Ambient temperature	0 ... 45 °C
Frequency	50/60 Hz	Media temperature	PP: 0 ... 50 °C PVDF: -10 ... 50 °C S.S.: -10 ... 60 °C
		Relative humidity max.	95% (without condensation)

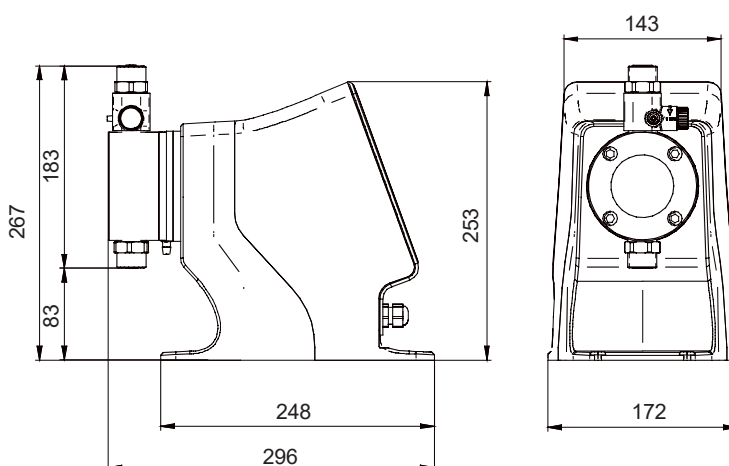
### OPERATION MODES

- Analogue control (0/4-20mA)
- Proportional pulse control
- Batch dosing control
- ModBus supervision and control
- Manual flow control

### INPUTS

- Analogue input 0/4-20mA
- External pulse input
- Remote on/off input
- Level sensor input (pre-empty)
- Level sensor input (empty)
- Leakage detector input
- Flow detector input
- Pressure sensor input

### DIMENSIONS



### WEIGHT

DOSmart : 4.5 Kg (10 lb)

### ADDITIONAL SAFETY DEVICES

- Temperature sensor
- Overload and short circuit protection
- Level sensor (optional)
- Diaphragm leakage detector (optional)
- Pressure sensor (optional)
- Flow failure detector (optional)

### SALIDAS Y COMUNICACIONES

- Serial port RS-485 ModBus
- 4-20mA output for register and monitoring
- Pulse output for register, monitoring and 2nd pump control
- Alarm output (relay)
- Level alarm output (relay)