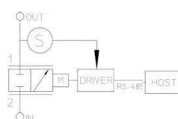


DPS SYSTEM

Motorized Valves Systems

Dynamic Pressure System is a three-element system: stepper motor valve, driver and pressure transducer. Combined together these three elements give rise to a system that changes the brewing pressure in a few hundred of milliseconds and with a precision never seen before. DPS adjusts the brewing pressure in a dynamic way, depending on a specific target coming from the electronic control of the machine. The DPS system can easily be interfaced with the electronic of every machine.



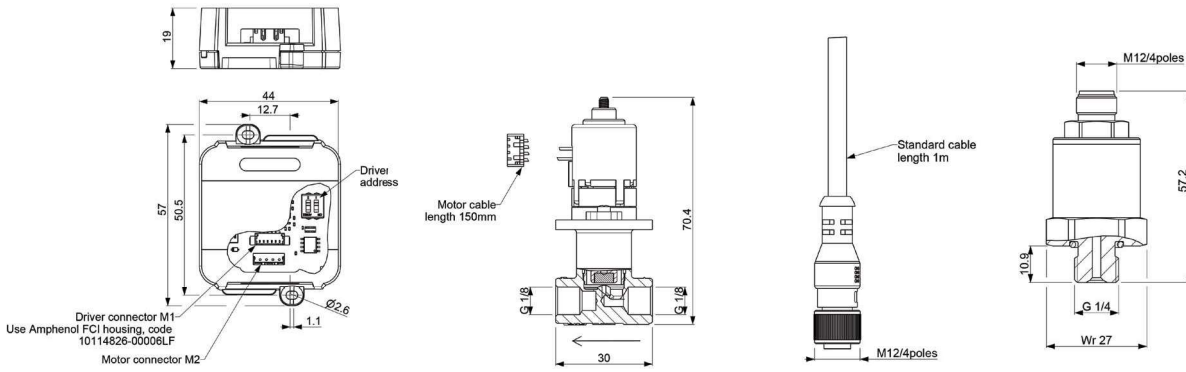
TECHNICAL DATA

	VALVE	
PORT CONNECTION		G1/8
SEALING MATERIALS		FKM
MEDIUM TEMPERATURE		25°C
FLUIDS		Water, air, inert gases
VISCOSITY		max. 12 cSt
INSTALLATION		With actuator upright
MOPD		12 bar
ORIFICE DIAMETER		1,2 mm
TRAVEL PER STEP		0,021 mm
POWER SUPPLY	DRIVER	24V DC \pm 10%
SYSTEM - POWER RANGE		12 W max
ELECTRICAL CONFORMITY		IEC/EN 61326-1
AMBIENT TEMPERATURE		From -40°C to +85°C
PROTECTION		Valve sensorless stall detection Full protected motor
RESOLUTION STEP		Micro-step 1/4
INPUT		2xAnalog 0-5 V
COMMUNICATION BUS		Bus RS-485 slave integrated
RESPONSE TIME		\leq 5 ms (typically)
PORT CONNECTION		
POWER SUPPLY	PRESSURE TRANSDUCER	5 V DC
OUTPUT RANGE		0,5-4,5 V Ratiometric
PRESSURE RANGE		0-20 bar
PS		40 bar
BURST PRESSURE		60 bar

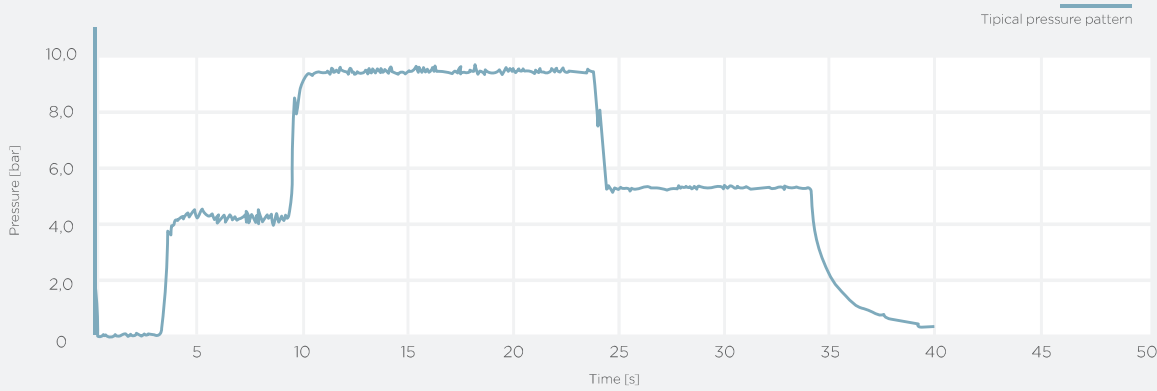
MATERIALS

	VALVE	
BODY		Brass on request: PPS, Stainless Steel AISI series 300
ARMATURE TUBE		Stainless Steel AISI series 300
PLUNGER		Stainless Steel AISI series 300
SHUTTER		V=FKM On request: B=NBR
ORIFICE		Brass On request: PPS, Stainless Steel AISI series 300
MATERIAL CASE	DRIVER	PPO
BODY	PRESSURE TRANSDUCER	STAINLESS STEEL AISI SERIES 300
O-RING		V=FKM ON REQUEST: B=NBR
CERAMIC SENSOR		AL ₂ O ₃ 96%

■ Please check the compatibility of the fluids in contact with the materials at RFQ stage.



Proportional technology ■ Motorized Valves System ■ **DPS SYSTEM**



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I	II	III	IV	V	VI	VII	VIII	IX
DPS	12	JN1	V	12	R	24	T	0000

CODIFICATION

I. SYSTEM NAME

DPS

II. MOPD

12 bar

III. BODY VALVE

JN1

IV. SEAL MATERIAL

V=FKM

V. CORE TUBE TYPE

KC - for 2/2 proportional valves

VI. Ø ORIFICE

1,2 mm

VII. INTERFACE TYPE

with Master System

R=RS-485

VIII. DRIVER SUPPLY+

T= Transducer

IX. FUTURE CODES

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