



3.5

# 36EN10-20 TYPE

## Proportion Throttle

Rated pressure (bar / psi)	250 / 3625
Rated flow (L/min / gpm)	68 / 18

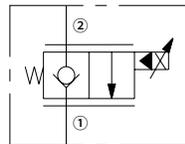
### Features

- Efficient wet-armature construction
- Optional waterproof E-Coils rated up to IP69K
- Industry common cavity
- Continuous-duty rated coils
- Metering Option

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### Symbol



## Description

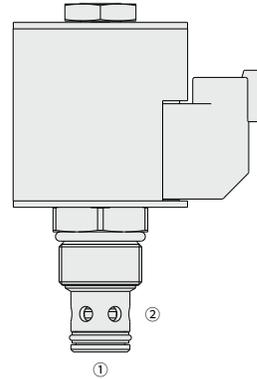
A proportional solenoid-operated, two-way, poppet-type, normally closed, screw-in hydraulic cartridge valve for low-leakage blocking and load-holding applications.

## Operation

When de-energized, the valve acts as a check valve, allowing flow from ① to ②, while blocking flow from ② to ①.

When energized, the ② to ① flow path opens. Flow is proportional to current applied to the coil.

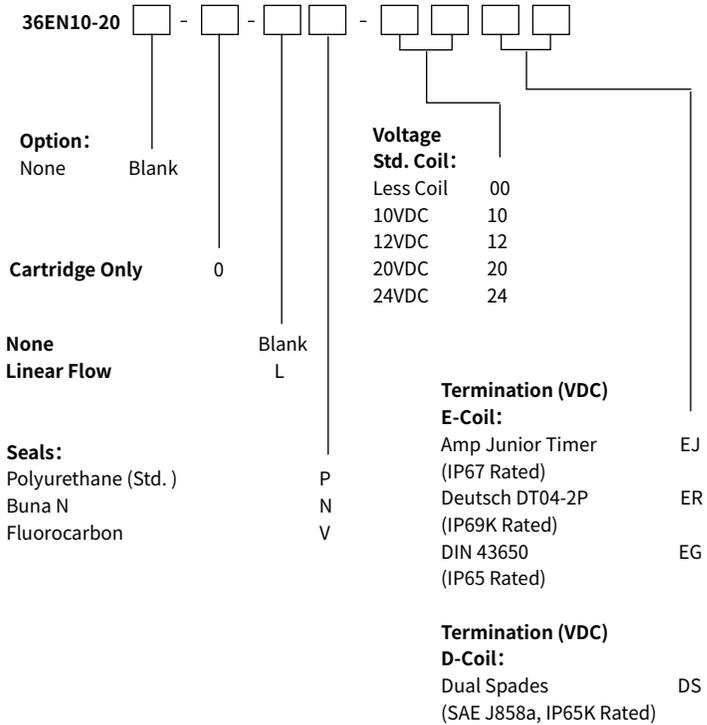
**Note:** If low voltage is expected on the machine, 12 or 24 volt systems will require the use of 10 volt or 20 volt coils respectively.



## Technical Data

Rated pressure	250 bar (3625 psi)
Rated flow	68 L/min (18 gpm) @ 34.5 bar (500 psi)
Minimum operating dither/pulse frequency	70 Hz
Hysteresis	Less than 5% up to 75% of I-max.; Less than 10% above 75% of I-max.
Cavity	VC10-2 (See technical reference)
Internal leakage	≤ 5 drops/min @ 250 bar
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm <sup>2</sup> /s
Temperature range	-54 to 107 °C (Polyurethane seals)
	-40 to 100 °C (Buna N seals)
	-26 to 204 °C (Fluorocarbon seals)
Degree of fluid contamination	The minimum pollution level is ISO4406 level 18/16/13, and level 15/13/11 is recommended to prolong the service life

## Ordering Code



02

## Materials

### Cartridge:

Weight: 0.16 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane (Std. ) seal.

### Standard Ported Body:

Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available; Dimensions may differ, consult factory.

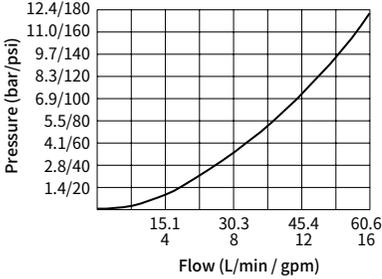
**Standard Coil:** Consult factory.

### E-Coil:

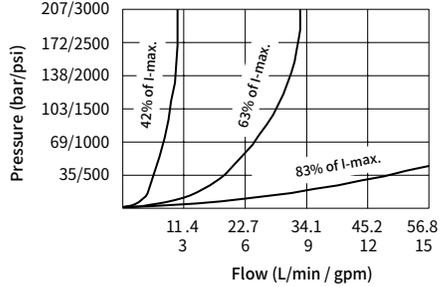
Weight: 0.41 kg; Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with Deutsch sockets.

# Characteristic curves

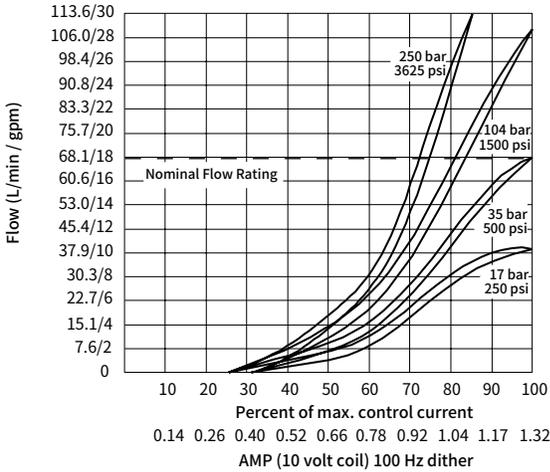
Pressure drop ② to ①  
at 125% of I-max.



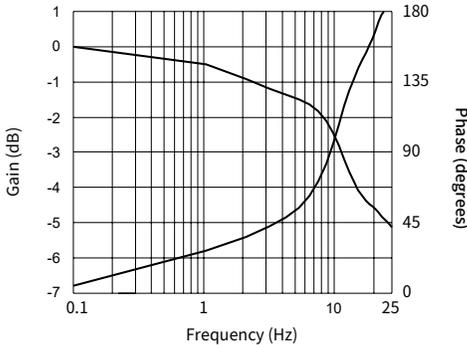
Pressure drop ② to ①  
at Various Current Levels



Flow vs. Current at various differential pressures  
32 cSt/150 sus oil at 40C

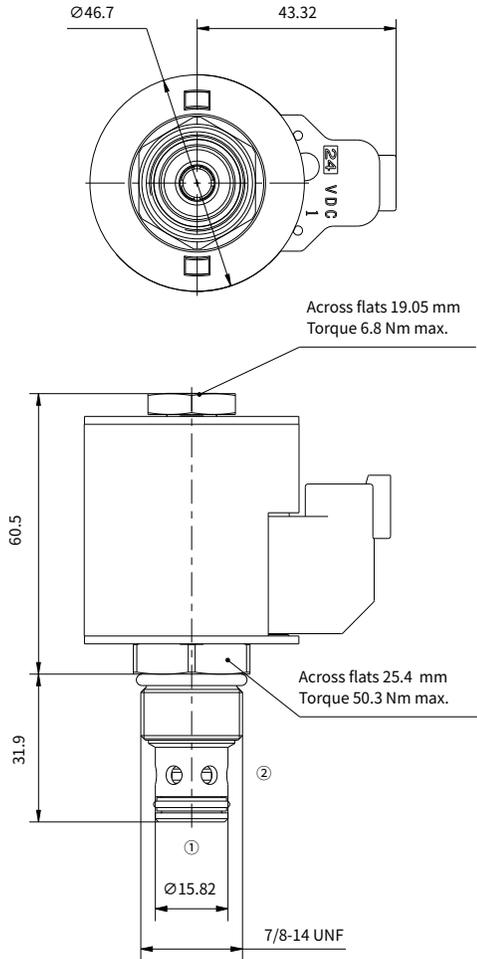


Frequency response  
average current 20% applied



# Dimensions

(Dimensions in mm)



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