



3.4

30EN08-20 TYPE

Proportion Throttle

Rated pressure (bar / psi)	207 / 3000
Rated flow (L/min / gpm)	Without manual override: 22 / 5.8 With manual override: 18.4 / 4.8

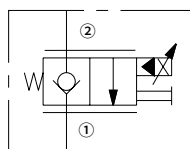
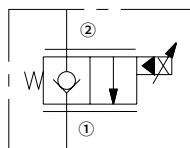
Features

- Excellent linearity and hysteresis
- Efficient wet-armature construction
- Optional waterproof E-Coils rated up to IP69K
- Industry common cavity
- Continuous-duty rated coils
- Manual override options

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Symbol



*With manual override "J"

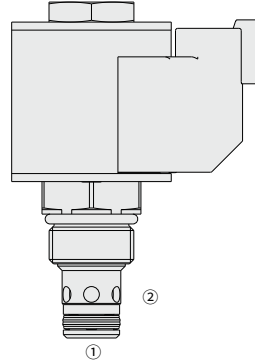
Description

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 30EN08-20 acts as a check valve, allowing flow from ① to ②, and blocking flow from ② to ①. When energized, the ② to ① flow path is opened. Flow is proportional to current applied to the coil. Flow varies with manual override.

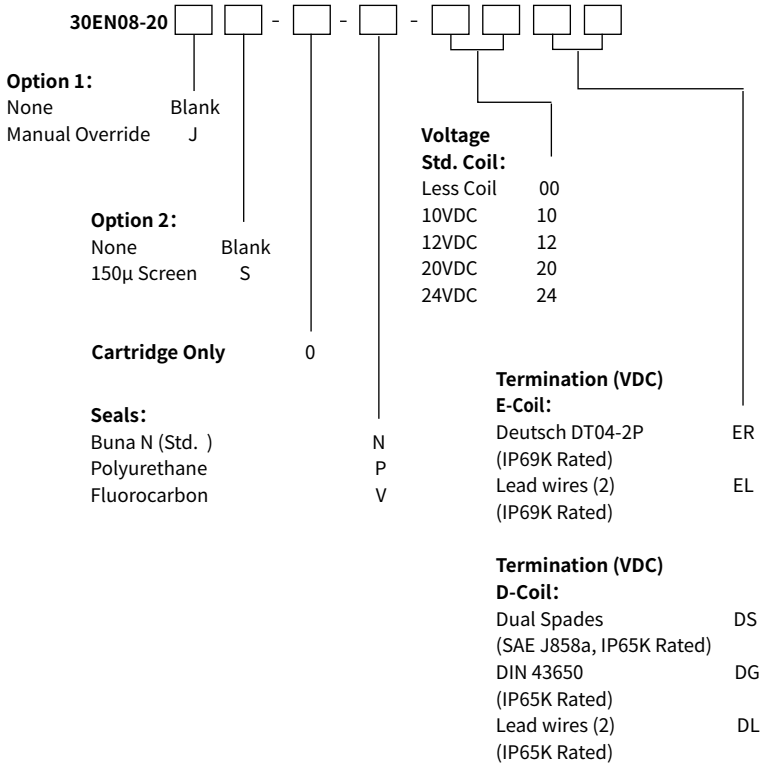
Note: If low voltage is expected on the machine, 12 or 24 volt systems will require the use of 10 or 20 volt coils respectively.



Technical Data

Rated pressure	207 bar (3000 psi)
Rated flow	Without manual override: 22 L/min(5.8 gpm) @ 34.5 bar With manual override: 18.4 L/min(4.8 gpm) @ 34.5 bar
Minimum operating dither/ pulse frequency	70 Hz
Hysteresis	Less than 5% up to 85% of I-max.; Less than 10% above 85% of I-max.
Cavity	VC08-2 (See technical reference)
Internal leakage	≤ 5 drops/min @ 207 bar
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm ² /s
Temperature range	-40 to 100 °C (Buna N seals)
	-54 to 107 °C (Polyurethane 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: 0.11 kg / 0.12 kg (with manual override J); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N (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.

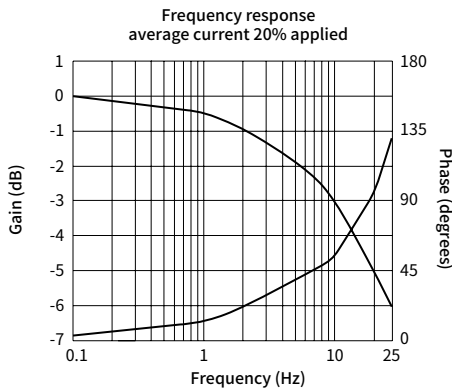
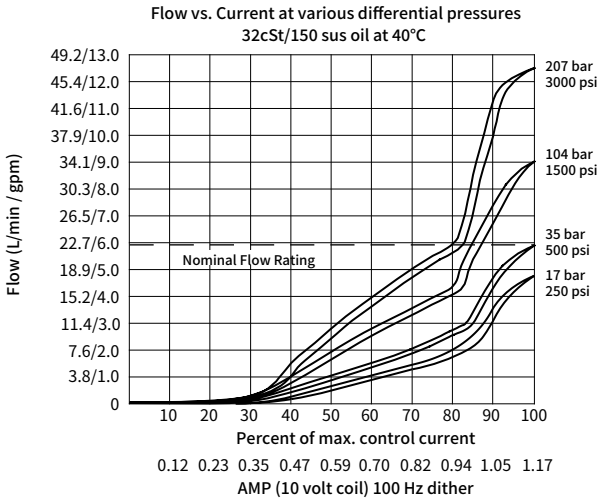
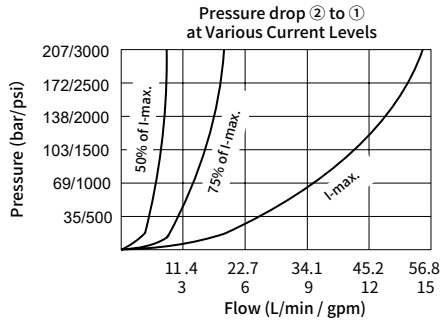
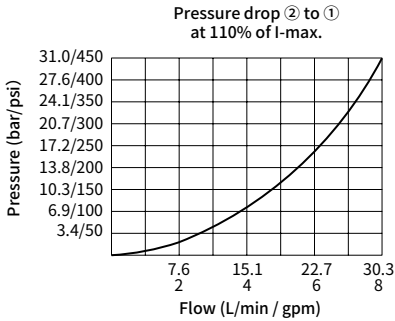
Standard Coil:

Weight: 0.11 kg. Unitized thermoplastic encapsulated, class H high temperature magnetwire.

E-Coil:

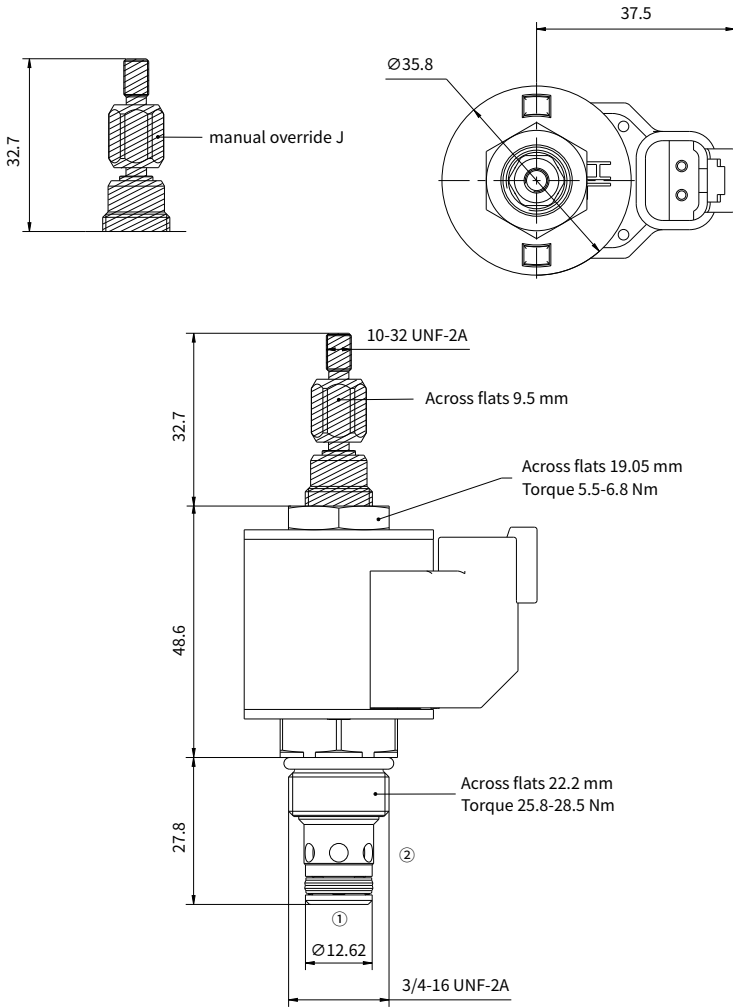
Weight: 0.14 kg; Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with Deutsch sockets.

Characteristic curves



Dimensions

(Dimensions in mm)



02

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