

HYDRAULICKÉ SYSTÉMY



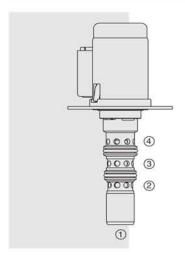


UKŁADY HYDRAULICZNE

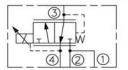
ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

ELECTRO-PROPORTIONAL VALVES—PRESSURE CONTROLS

Proportional Pressure Reducing/Relieving TS98-T34

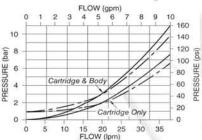


ISO SYMBOL

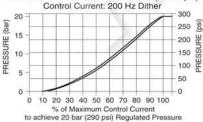


PERFORMANCE

Pressure Drop vs. Flow Characteristic - For Flow 3 to 4 with Coil De-energized For Flow 2 to 3 with Coil Energized



Reduced Pressure vs. Current Characteristic With Inlet Pressure at 2 of 0–20.7 bar (0–300 psi) Control Current: 200 Hz Dither



Note: Regulated pressures up to 29.3 bar (425 psi) can be attained with increased current value and 30 bar (435 psi) inlet pressure.

DESCRIPTION

A pilot-operated, spool-type, proportional pressure reducing/relieving valve. It is a drop-in, flange-mounted, cartridge-type valve, which can be infinitely adjusted across a prescribed range using a variable electric input. Back pressure at port 4 becomes additive to the pressure setting at a 1:1 ratio. The coil is an integral part of the valve and is not serviceable. The regulated pressure is proportional to DC current input.

Without applied current, the TS98-T34 allows free flow from 3 to 4. When the coil is energized, in reducing mode, flow is allowed from port 2 to 3. When the coil is energized, in relieving mode, flow is allowed from port 3 to 4.

FEATURES

- · Economical drop-in style.
- · Optional 233 micron mesh screen
- · Optional lock-down flange
- 12 or 24 VDC coils.
- · Several push-on termination options.
- · Integral waterproof coil standard.

RATINGS

Maximum Inlet Pressure and Regulated Pressure: 30 bar (435 psi)

Maximum Control Current: To achieve 20 bar (290 psi) regulated pressure: 0.85 amps for 12 VDC coil; 0.43 amps for 24 VDC coil

Note: Regulated pressures up to 29.3 bar (425 psi) can be attained with increased current values and 30 bar (435 psi) inlet pressure.

Coil Resistance: 7.25 ohms (12 VDC); 28.5 ohms (24 VDC) at 20°C (68°F) Coil Inductance: 70 mH (12 VDC) 330 mH (24 VDC) at 20°C (68°F)

Regulated Pressure Range from Zero to Maximum Control Current:

0-20 bar (0-290 psi) with 20.7 bar (300 psi) inlet.

Rated Flow: 30 lpm (8 gpm)

Internal Leakage at 0A: 0.55 lpm (0.15 gpm) with 20.7 bar (300 psi) inlet

Cycle Life: Five million cycles

Operating Fluid Temperature: -40 to 149°C (-40 to 300°F) with HBNR seals.

Filtration: See page 9.010.1

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

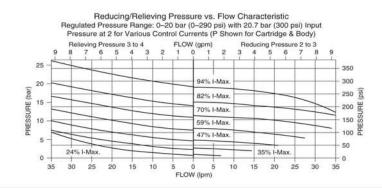
Installation: Flange-mounted. Mounting screws sold separately. Optional lockdown flange also available.

Flange Mounting Screws: M5 x 8; Part No. 4000039 (sold separately)

Cavity: VC-T003; See page 9.111.1

Cavity Tool: CT-T003R0-x-G; See page 8.600.1

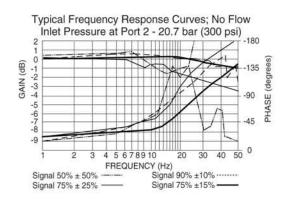
Seal Kit: SK98-T3N; See page 8.650.1

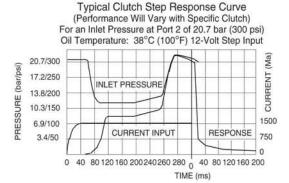


Valve w/Internally Piloted Spool

TS98-T34

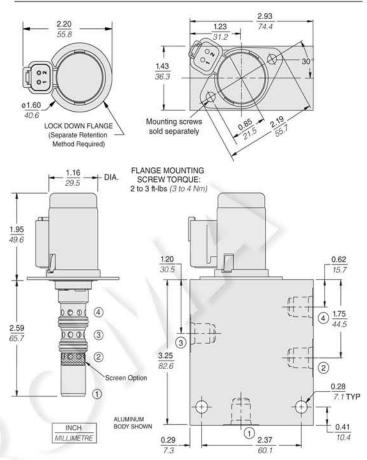
PERFORMANCE (continued)





Recommended Electronic Controllers: See page 2.001.1 or our Electronics catalog.

DIMENSIONS



MATERIALS

Cartridge including Coil: Weight: 0.24 kg (0.51 lb) Steel with hardened work surfaces.
Zinc-Nickel plated exposed surfaces; HNBR O-rings standard.
Coil is encapsulated, Class H high-temperature magnet wire, with zinc-nickel plated shell.

Special Ported Body: Weight: 0.11 kg (0.26 lb) Anodized highstrength aluminum alloy, rated to 207 bar (3000 psi). See page 8.010.1 Part No. 71501X0 (sold separately)

Mounting Screws: Part No. 4000039 (sold separately)

TO ORDER

