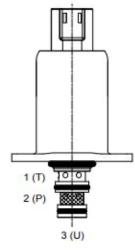


EN043-PRR DIRECT ACTING PROPORTIONAL, PRESSURE REDUCING/RELIEVING, SLIP-IN TYPE



DESCRIPTION

Special cavity, slip-in style flange retained, direct acting proportional pressure reducing/relieving valve.

OPERATION

The EN043-PRR generates a variable pressure in response to a PWM (Pulse Width Modulated) current signal. With no current applied to the proportional solenoid, the inlet port #2 (P) is blocked and the regulated port #3 (U) is vented to port #1 (T). As current is increased, fluid pressure is proportionally controlled at the regulated port #3 (U). On attainment of proportionally determined pressure at #3 (U), the cartridge shifts to block flow at #2 (P), thereby regulating pressure at #3 (U). In this mode, the valve also will relieve #3 (U) to #1 (T) at a variable value over the set reducing pressure.

FEATURES

- Slip-in style.
- Efficient wet-armature construction.
- Integral waterproof coil.
- Continuous duty rated solenoid.

HYDRAULIC SYMBOL

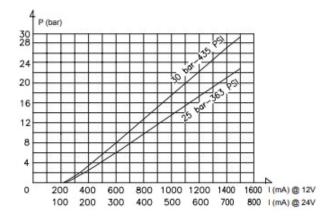


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Flange retained product. The coil is an integral part of the valve and is not serviceable. Eventual tank pressure exceeding 0 PSI has to be added to the reduced pressure value.

PERFORMANCE

| Reduced | pressure | (bar) | vs. | Current | (mA) |
|---------|----------|---------|------|---------|------|
| | 12 V ar | nd 24 V | Coil | | |



VALVE SPECIFICATIONS

| Nominal Flow | 1 GPM (4 LPM) @ 8 bar Delta P | | | |
|--------------------------------|-------------------------------------|--|--|--|
| Max inlet Pressure "H" version | 5000 PSI (345 bar) | | | |
| Max Inlet Pressure "L" version | 700 PSI (50 bar) | | | |
| Controlled Pressure Range | 0 - 25 bar / 0 - 30 bar (see graph) | | | |
| Reduced Pressure Tolerance | <u>+</u> 5% | | | |
| Max. Back Pressure at T Port | 290 PSI (20 bar) | | | |
| | 15 ml/min @ 500 PSI (35 bar) inlet | | | |
| Internal Leakage | 35 ml/min @ 5000 PSI (350 bar) | | | |
| | inlet | | | |
| Viscosity Range | 36 to 3000 SSU (3 to 647 cSt) | | | |
| Filtration | ISO 18/15/13 (ISO 4406) | | | |
| Media Operating Temperature | -77° to 194° F (-25° to +90° C) | | | |
| Range | | | | |
| Weight | 0.54 lbs. (0.25 kg) | | | |
| Operating Fluid Media | General Purpose Hydraulic Fluid | | | |
| Cavity | 40200043 | | | |
| Flange Mounting Screws/Torque | M4x10 / 3 FtLbs. (4 Nm) | | | |
| COIL SPECIFICATIONS | | | | |
| Current Supply Characteristics | PWM (Pulse Width Modulation) | | | |
| | 200 – 1500 mA (12 VDC coil) | | | |
| Rated Current Range | 100 – 750 mA (24 VDC coil) | | | |
| PWM or Super-imposed Dither | 100 - 200 Hz | | | |
| Frequency | 100 - 200 HZ | | | |
| Coil Resistance (12 VDC) | 5.4 Ohms <u>+</u> 5% at 68°F (20°C) | | | |
| (24 VDC) | 22 Ohms +5% at 68°F (20°C) | | | |
| Max. Power Consumption | 12 Watts (20°C) | | | |
| Protection Degree | IP67 according to IEC 529 | | | |
| Coil Termination | Deutsch-Integral DT04-2P | | | |
| | | | | |

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.



W51

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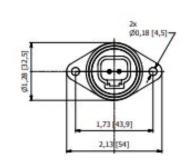


PROPORTIONAL CONTROLS

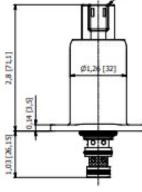
Connector Color

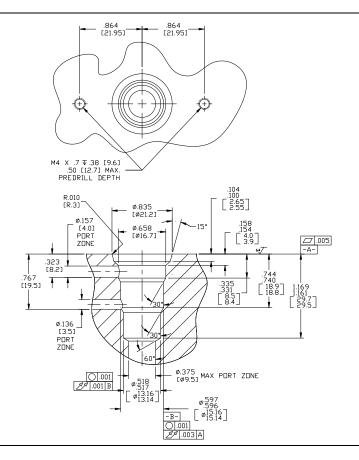
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DIMENSIONS

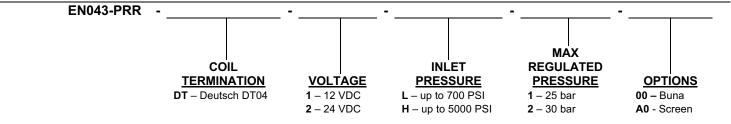








ORDERING INFORMATION



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