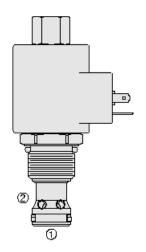


Overview



Description

The TS12-26X is a screw-in, cartridge style, pilot-operated, spool-type, relief valve which CAN be infinitely adjusted across a prescribed range using a variable electric current. The regulated pressure is proportional to the input electrical current.

Operation

The TS12-26X blocks flow from port 1 to port 2 until sufficient pressure is present at port 1 to open the pilot section by offsetting the electrically induced solenoid force. With no current applied, the valve will relieve at approximately 100 psi [6,9].

Features

- 12 and 24 volt coils standard.
- o Optional waterproof E-Coils rated up to IP69K.
- Industry common cavity.
- · Optional manual override.

Symbol



Ratings

Pressure Ratings

241.3 bar (3500 psi) - Note: At port 1 Pressure rating 206.8 bar (3000 psi) - Note: At port 2

344.7 bar (4000 psi) Proof pressure

827.4 bar (12000 psi) - Note: With coil assembled Burst pressure

Adjustable pressure range 6.9 to 206.8 bar (100 to 3000 psi) - Note: Model code A (from zero to maximum control current)

6.9 to 138.0 bar (100 to 2000 psi) - Note: Model code b (from zero to

maximum control current)

2.1 to 68.9 bar (30 to 1000 psi) - Note: Model code c (from zero to maximum

control current)

Flow Ratings

189 lpm (50 gpm) - **Note:** energized) 12.4 bar (180 psi) Flow rating - Note: Delta-p (cartridge only) port 1-2 (coil de-

3 % - Note: Maximum

Hysteresis per cent

0.76 lpm (0.2 gpm) Maximum pilot flow

Temperature Ratings

-40 to 100 °C (-40 to 212 °F) - Note: With buna N seals Operating fluid temperature -26 to 204 °C (-15 to 400 °F) - Note: With viton seals

-40 to 70 °C (-40 to 160 °F) Storage temperature -40 to 70 °C (-40 to 160 °F) Ambient temperature

Operating Parameters

Mineral based or synthetic with lubricating properties Fluids

7.4 to 420 cSt Fluid viscosity range

Maximum operating contamination 18/16/13 per ISO 4406

level

TS12-26 24OCT2023 16:45 hydraforce.com

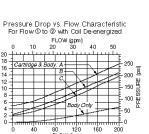


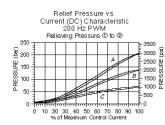
Properties

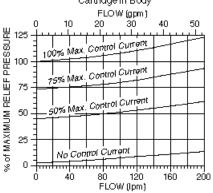
Unit weight 0.56 kg (1.23 lb)
Internal wetted surface area 163 cm² (36.8 in²)

Performance

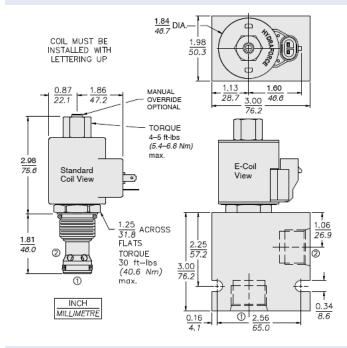
Typical Relief Pressure vs. Flow Characteristic Typical Relieving Pressure ① to ② at Various %'s of Maximum Control Current Pressure Range "A" (207 barl3000 psi) Cartridge in Body







Dimensions



Installation Specifications

Cavity VC12-2

Cartridge installation torque 44.9 to 50.2 N-m (33 to 37 ft-lb)
Coil nut torque 9.5 to 13.6 N-m (7 to 10 ft-lb)

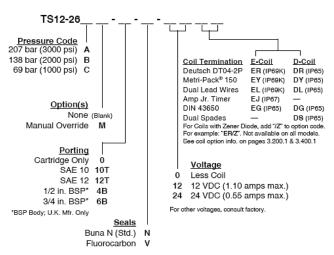
Orientation restriction None

Accessories

Seal kit SK12-2X-B - Note: X=seal option

Order Code





Model Options

TS12-26DE-H-J-L

D Regulating Pressure Range

CODE	DESCRIPTION
Α	6.9 to 206.8 bar (100 to 3000 psi) Pressure Range
В	6.9 to 138.0 bar (100 to 2000 psi) Pressure Range
С	2.1 to 68.9 bar (100 to 1000 psi) Pressure Range

E Manual Override

CODE	DESCRIPTION
BLANK	NONE
М	Minimum Regulated Pressure Override, 3/16" Internal Hex

H Line Body

CODE	DESCRIPTION
0	No Body
10T	Aluminum SAE 10
12T	Aluminum SAE 12
16T	Aluminum SAE 16
12TD	Ductile Iron SAE 12
16TD	Ductile Iron SAE 16
8B	Aluminum BSPP 1" (8)
8BD	Ductile Iron BSPP 1" (8)

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
Р	Polyurethane
U	PPDI Urethane

L Coil

CODE	DESCRIPTION
0	No Coil



CODE	DESCRIPTION
CODE	DESCRIPTION
10DG	10 VDC, D-Coil, DIN 43650
10DL	10 VDC, D-Coil, Dual Lead Wires
10DS	10 VDC, D-Coil, Dual Spade
10EL	10 VDC, E-Coil, Dual Lead Wires
10ER	10 VDC, E-Coil, Deutsch
12DG	12 VDC, D-Coil, DIN 43650
12DL	12 VDC, D-Coil, Dual Lead Wires, 18 inches long
12DL/36	12 VDC, D-Coil, Dual Lead Wires, 36 inches long
12DL/W	12 VDC, D-Coil, Dual Lead Wires with Weatherpak
12DR	12 VDC, D-Coil, Deutsch
12DS	12 VDC, D-Coil, Dual Spade
12EG	12 VDC, E-Coil, DIN 43650
12EJ	12 VDC, E-Coil, AMP Jr.
12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
12ER	12 VDC, E-Coil, Deutsch
12EY	12 VDC, E-Coil, Metri-Pack 150
20DS	20 VDC, D-Coil, Dual Spade
20ER	20 VDC, E-Coil, Deutsch
24AG	24 VDC, D-Coil, DIN 43650
24AP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
24DG	24 VDC, D-Coil, DIN 43650
24DL	24 VDC, D-Coil, Dual Lead Wires
24DL/W	24 VDC, D-Coil, Dual Lead Wires with Weatherpak
24DP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
24DR	24 VDC, D-Coil, Deutsch
24DS	24 VDC, D-Coil, Dual Spade
24EG	24 VDC, E-Coil, DIN 43650
24EJ	24 VDC, E-Coil, AMP Jr.
24EL	24 VDC, E-Coil, Dual Lead Wires, 18 inches long
24EL/36	24 VDC, E-Coil, Dual Lead Wires, 36 inches long
24ER	24 VDC, E-Coil, Deutsch
24EY	24 VDC, E-Coil, Metri-Pack 150
36DS	36 VDC, D-Coil, Dual Spade

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