**Description** 

**Operation** 

**Features** 

• 12 and 24 volt coils standard.

Industry common cavity.Optional manual override.

• Optional waterproof E-Coils rated up to IP69K.

The regulated pressure is proportional to the input electrical current.

current applied, the valve will relieve at approximately 100 psi [6,9].

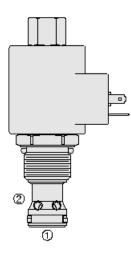
The TS12-26X is a screw-in, cartridge style, pilot-operated, spool-type, relief valve which CAN be infinitely adjusted across a prescribed range using a variable electric current.

The 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



## Overview



# Symbol

# Ratings

<u>Pressure Ratings</u>	
Pressure rating	241.3 bar (3500 psi) - Note: At port 1 206.8 bar (3000 psi) - Note: At port 2
Proof pressure	344.7 bar (4000 psi)
Burst pressure	827.4 bar (12000 psi) - Note: With coil assembled
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	
Flow rating	189 lpm (50 gpm) • <b>Note:</b> Delta-p (cartridge only) port 1-2 (coil de- energized) 12.4 bar (180 psi)
Hysteresis per cent	3 % - Note: Maximum
Maximum pilot flow	0.76 lpm (0.2 gpm)
<u>Temperature Ratings</u>	
Operating fluid temperature	-40 to 100 °C (-40 to 212 °F) -26 to 204 °C (-15 to 400 °F) -Note: With buna N seals -Note: With viton seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)
Ambient temperature	-40 to 70 °C (-40 to 160 °F)

## **Operating Parameters**

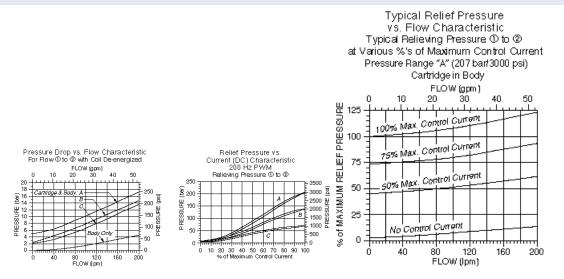
Fluids	Mineral based or synthetic with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination 18/16/13 per ISO 4406	
level	



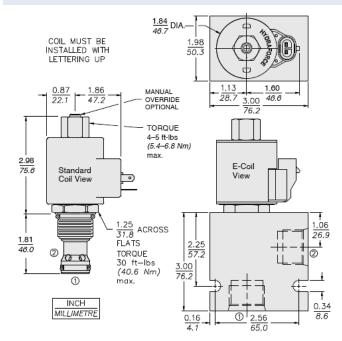
## **Properties**

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

#### Performance



## **Dimensions**



# **Installation Specifications**

VC12-2
44.9 to 50.2 N-m (33 to 37 ft-lb)
9.5 to 13.6 N-m (7 to 10 ft-lb)
None

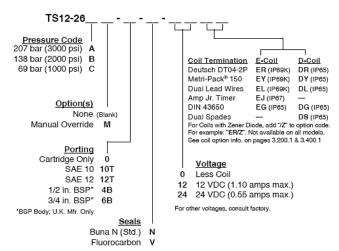
#### Accessories

Seal kit

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

#### **Order Code**





## **Model Options**

#### TS12-26DE-H-J-L

## **D** Regulating Pressure Range

CODE	DESCRIPTION
A	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	

#### 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
- Aluminum BSPP 1" (8) 8B Ductile Iron BSPP 1" 8BD
- (8)

# J Seal

CODE	DESCRIPTION
Ν	Buna-N
V	Fluorocarbon
Ρ	Polyurethane
U	PPDI Urethane

#### L Coil

CODE	DESCRIPTION	
0	No Coil	



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