TS10-36A-0-N-0

Description

Operation

Features

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• 12 and 24 volt coils standard.

Industry common cavity.

Optional manual override.

• Optional waterproof E-Coils rated up to IP69K.

The TS10-36X is a screw-in, cartridge style, pilot-operated, spool-type, proportional pressure reducing/relieving valve which CAN be infinitely adjusted across a prescribed range using a variable

With current applied to the valve coil, the TS10-36XX allows flow from port 2 to port 1 until sufficient pressure is present at port 1 to open the pilot section by offsetting the electrically induced solenoid force. Upon reaching the predetermined pressure at port 1, the valve shifts to restrict inlet flow at port 2, thereby regulating pressure at port 1. in this mode, the valve also relieves port 1 to port 3. With no

electric input. The regulated pressure is proportional to the input electrical current

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

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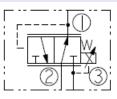
pl@salushydraulics.pl



Overview

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Symbol



Ratings

Pressure Ratings	
Pressure rating	241.3 bar (3500 psi) - Note: Ports 1, 2 68.9 bar (1000 psi) - Note: Port 3
Proof pressure	249.9 bar (3625 psi)
Burst pressure	758.4 bar (11000 psi) - Note: With coil assembled
Adjustable pressure range	6.9 to 206.8 bar (100 to 3000 psi) - Note: Model-code A 6.9 to 158.6 bar (100 to 2300 psi) - Note: Model code B 6.9 to 117.2 bar (100 to 1700 psi) - Note: Model code C
Flow Ratings	
Flow rating	56.8 lpm (15 gpm)
Maximum pilot flow	0.02 lpm (0.08 gpm) • Note: With maximum control current and with inlet pressure of 241.3 bar (3500 psi) at regulated flow of 3.8 lpm (1 gpm)
Other Ratings	
Cycle life	Less than 5% performance degradation over 1 million cycles (based on simulated test at 37.8 lpm (10 gpm) flow and maximum pressure setting.
Corrosion protection	960 hr salt spray per ASTM b117
Temperature Ratings	
Operating fluid temperature	-40 to 100 °C (-40 to 212 °F) - Note: With buna N seals -26 to 204 °C (-15 to 400 °F) - Note: With fluorocarbon seals -54 to 107 °C (-65 to 225 °F) - Note: With polyurethane 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

7.4 to 420 cSt Fluid viscosity range

Maximum operating contamination level 18/16/13 per ISO 4406 (tank pressure is additive to regulated pressure)



Properties

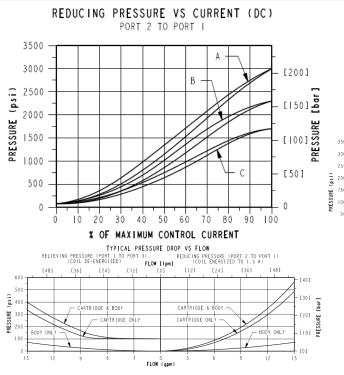
Unit weight	0.21 kg (0.47 lb)	
Internal wetted surface area	192 cm² (29.8 in²) 198 cm² (30.7 in²)	- Note: TS10-36X - Note: TS10-36XM

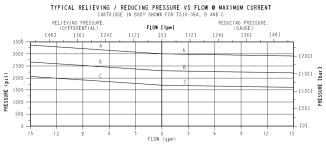
Electrical Parameters

<u>D Series coils</u>

Maximum control current Valve inductance	1.10 A 0.55 A 141 mH 626 mH	 Note: 12 Vdc coil Note: 24 Vdc coil Note: 12 Vdc coil Note: 24 Vdc coil 	
<u>E Series coils</u>			
Maximum control current	1.20 A 0.60 A	- Note: 12 Vdc coil - Note: 24 Vdc coil	
Valve inductance	139 mH 600 mH	- Note: 12 Vdc coil - Note: 24 Vdc coil	
Recommended PWM frequency	200 Hz		

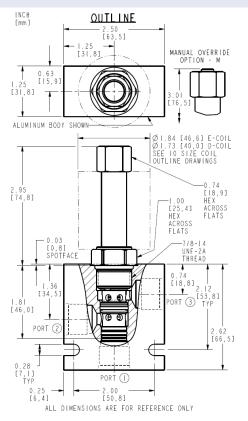
Performance







Dimensions



Materials

Cartridge: Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N O-rings and polyester elastomer back-ups standard. **Standard Ported Body:** Weight: 0.16 kg. (0.35 lbs.); Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi); Ductile iron bodies available; dimensions may differ.

Standard D-Coil: Weight each: 0.32 kg. (0.7 lbs.); Unitized thermoplastic encapsulated, Class H high temperature magnet wire. E-Coil: Weight: 0.41 kg. (0.9 lbs.); Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with integral connectors.

Installation Specifications

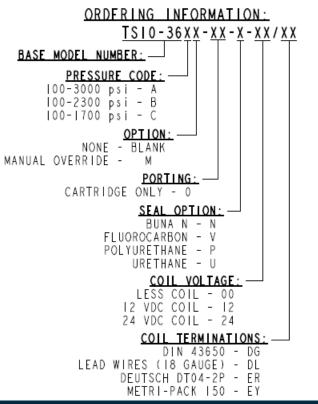
Cavity Cartridge installation torque	VC10-3 32.5 to 35.3 N-m (24 to 26 ft-lb)
Coil nut torque	9.5 to 13.6 N-m (7 to 10 ft-lb)
Orientation restriction	None

Accessories

Seal kit Housings Coils SK10-3X-BM SK10-3U-OO • Note: X = seal option

Order Code





POSITION CODE

		TS10-36DE-H-J-L
D		Regulating Pressure Range
D	А	6.9 to 206.8 bar (100 to 3000 psi) Pressure Range
D	В	6.9 to 158.6 bar (100 to 2300 psi) Pressure Range
D	С	6.9 to 117.2 bar (100 to 1700 psi) Pressure Range
E		Manual Override
E	BLANK	NONE
E	Μ	Minimum Regulated Pressure Override, 3/16" Internal Hex
Н		Line Body
н	0	No Body
Н	6T	Aluminum SAE 6
н	8T	Aluminum SAE 8
Н	6TD	Ductile Iron SAE 6
н	8TD	Ductile Iron SAE 8
н	3B	Aluminum BSPP 3/8" (3)
н	3BD	Ductile Iron BSPP 3/8" (3)
J		Seal
J	Ν	Buna-N
J	V	Fluorocarbon
J	Р	Polyurethane
J	U	PPDI Urethane
L		Coil
L	0	No Coil
L	10DG	10 VDC, D-Coil, DIN 43650
L	10DL	10 VDC, D-Coil, Dual Lead Wires
L	10DS	10 VDC, D-Coil, Dual Spade

DESCRIPTION



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