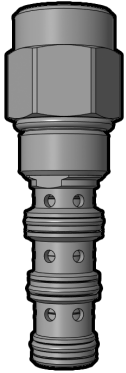


BRAKE RELEASE VALVE

Overview



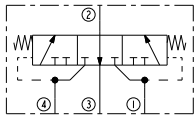
Description

THE BV10-40 IS A SPOOL TYPE PRESSURE TO SHIFT, SPRING RETURN, THREE POSITION VALVE. IT IS DESIGNED SO THAT OIL PRESSURE AT EITHER INLET PORT 1 OR 4 CAN BE DIRECTED TO PORT 2.

Operation

THE BV10-40 IS NORMALLY USED TO RELEASE A SPRING APPLIED PARK BRAKE WHENEVER HYDRAULIC POWER IS DIRECTED TO MOVE A LOAD. WHEN THE PRESSURE DIFFERENTIAL BETWEEN PORTS 1 AND 4 EXCEEDS APPROXIMATELY 80 psi, THE SPOOL HAS MOVED FAR ENOUGH TO CLOSE THE TANK PORT 3 AND OPEN THE PORT THAT HAS THE HIGHER PRESSURE BETWEEN PORT 1 AND PORT 4 TO PORT 2.

SYMBOL



Ratings

Pressure Ratings

Pressure rating: 5000 psi [345 bar]

Flow Ratings

Flow rating: SEE GRAPH

Maximum internal leakage: 21 in³/min [344 ml/min] AT 3000 psi [207 bar] 49.5 in³/min [811 ml/min] AT 5000 psi [345 bar]

Temperature Ratings

Operating fluid temperature: (BUNA N) -40°F TO 212°F [-40°C TO 100°C] (FLUOROCARBON) -15°F TO 400°F [-26°C TO 204°C] (POLYURETHANE) -65°F TO 225°F [-54°C TO 107°C]

Storage temperature: -40°F TO 160°F [-40°C TO 70°C]

Ambient temperature: -40°F TO 194°F [-40°C TO 90°C]

Operating Parameters

Fluids: MINERAL BASED OR SYNTHETIC HYDRAULIC FLUID WITH LUBRICATING PROPERTIES.

Fluid viscosity range: 7.4 TO 420 cSt

Maximum operating contamination level: 20/18/14 PER ISO 4406

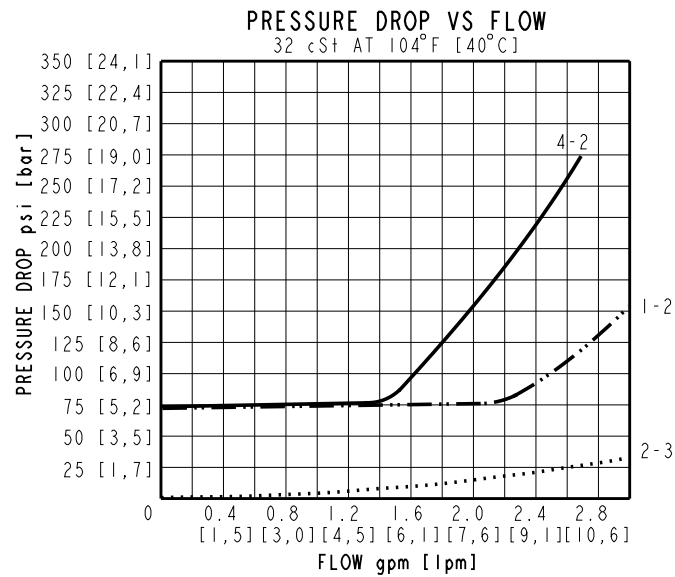
Properties

Unit weight: 0.36 lb [0,163 kg] 2 2

Internal wetted surface area: 26.7 in [172 cm]

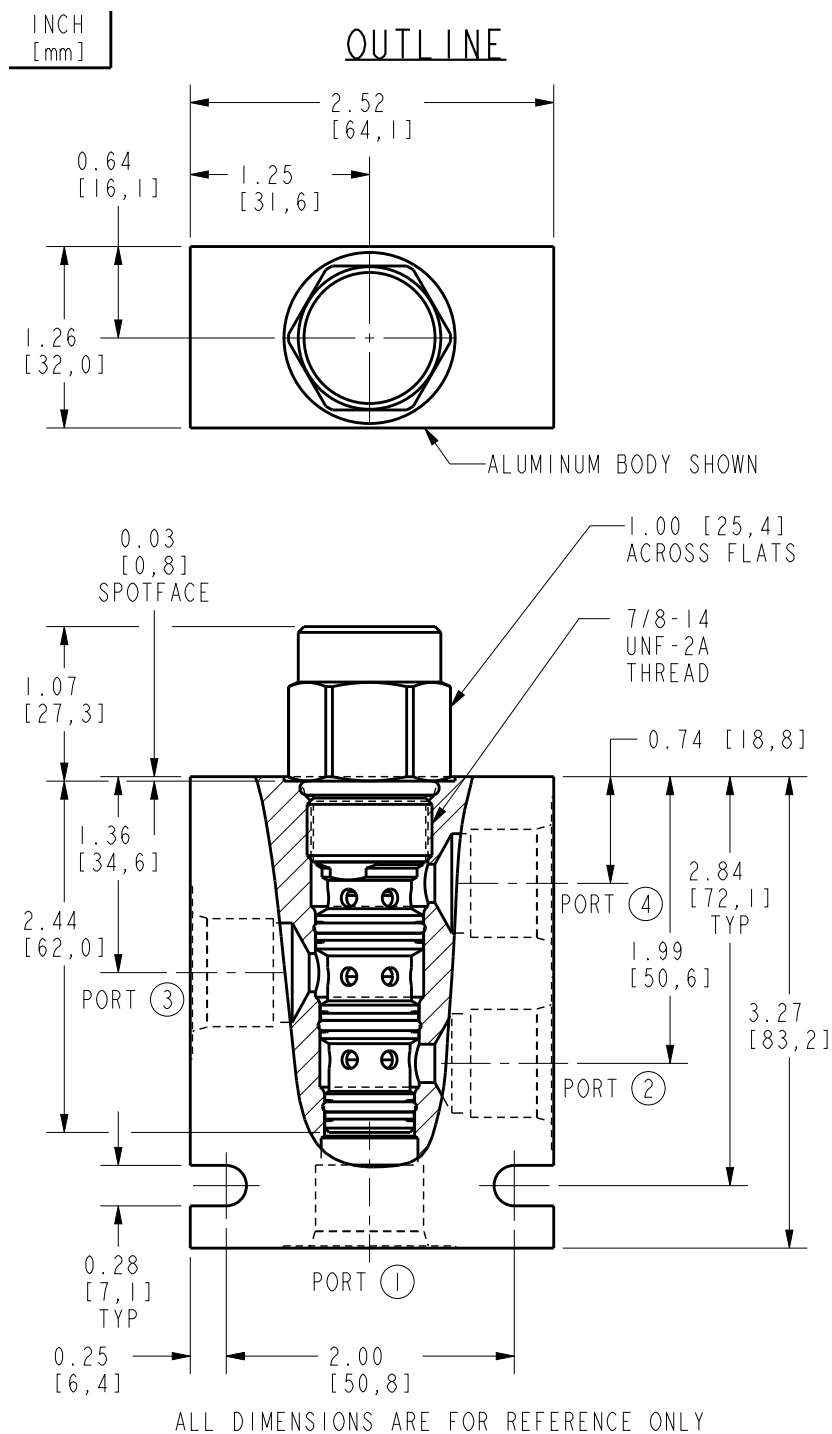
BRAKE RELEASE VALVE

Performance



BRAKE RELEASE VALVE

Dimensions



Installation Specifications

Cavity: VC10-4

Cartridge installation torque: 47-53 ft-lb [63,7-71,9 N-m]

Orientation restriction: NONE

BRAKE RELEASE VALVE

Accessories

Seal kit: SK10-4N-TBT (BUNA N)

SK10-4V-TBT (FLUOROCARBON)

SK10-4P-TBT (POLYURETHANE)

Order Code

ORDERING INFORMATION:

BV10-40-X-X

BASE MODEL NUMBER

PORTING:

CARTRIDGE ONLY - 0

SEAL OPTION:

BUNA N - N

FLUOROCARBON - V

POLYURETHANE - P

Model Options

BV10-40-H-J

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6

J Seal

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