

CV

Check
Valves

SH

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

MV

Manual
Valves

SV

Solenoid
Valves

PV

Proportional
Valves

CE

Coils &
Electronics

BC

Bodies &
Cavities

TD

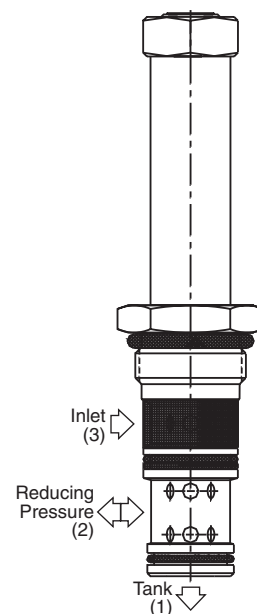
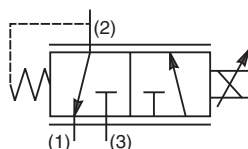
Technical
Data

General Description

3 Way, 2 Position, Proportional Pressure Reducing Valve. Side Cylinder Port. For additional information see Technical Tips on pages PV1-PV6.

Features

- Minimal Hysteresis
- One piece cartridge housing ensures internal concentricity
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Symmetrical coil can be reversed without affecting performance.
- Nonmagnetic spool and housing assembly



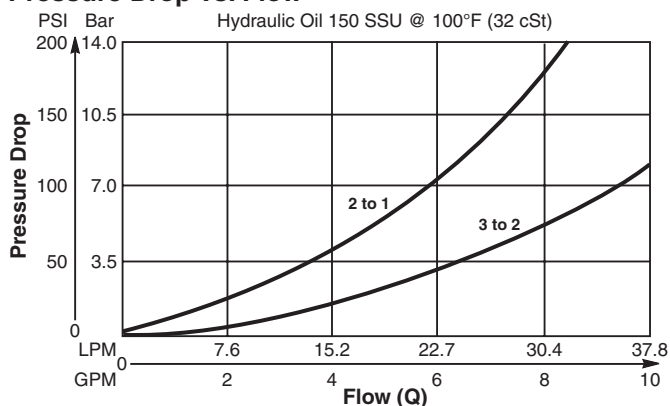
Specifications

Rated Flow (At 70 PSI ΔP)	30 LPM (8 GPM)
Max. Regulated Pressure @ 75% Current (Using 'SP' Coil)	02 14/17 Bar (200/240 PSI) 03 21/27 Bar (300/390 PSI) 05 29/38 Bar (420/550 PSI) 09 56/74 Bar (810/1080 PSI)
Max. Input Press. At Port 3	210 Bar (3000 PSI)
Max. Drainage Flow In Regulating Zone	25 cc/min. When De-Energized 800 cc/min. In Regulating Zone At 21 Bar (300 PSI) Input Pressure
Hysteresis @ 200 Hz PWM	3.5%
Dead End Response Time	40 ms At Step Signal 0 To 75% of Nominal Voltage
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-40°C to +93.3°C (Nitrile) (-40°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)
Fluid Compatibility/Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
Filtration	ISO Code 16/13, SAE Class 4 or better
Approx. Weight	.13 kg (.28 lbs.)
Cavity	3X (See BC Section for more details)

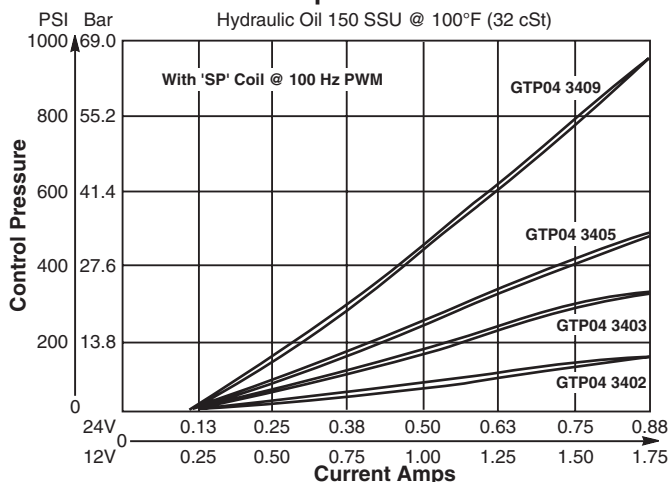
Performance Curves

▲ PWM Current Regulator Recommended

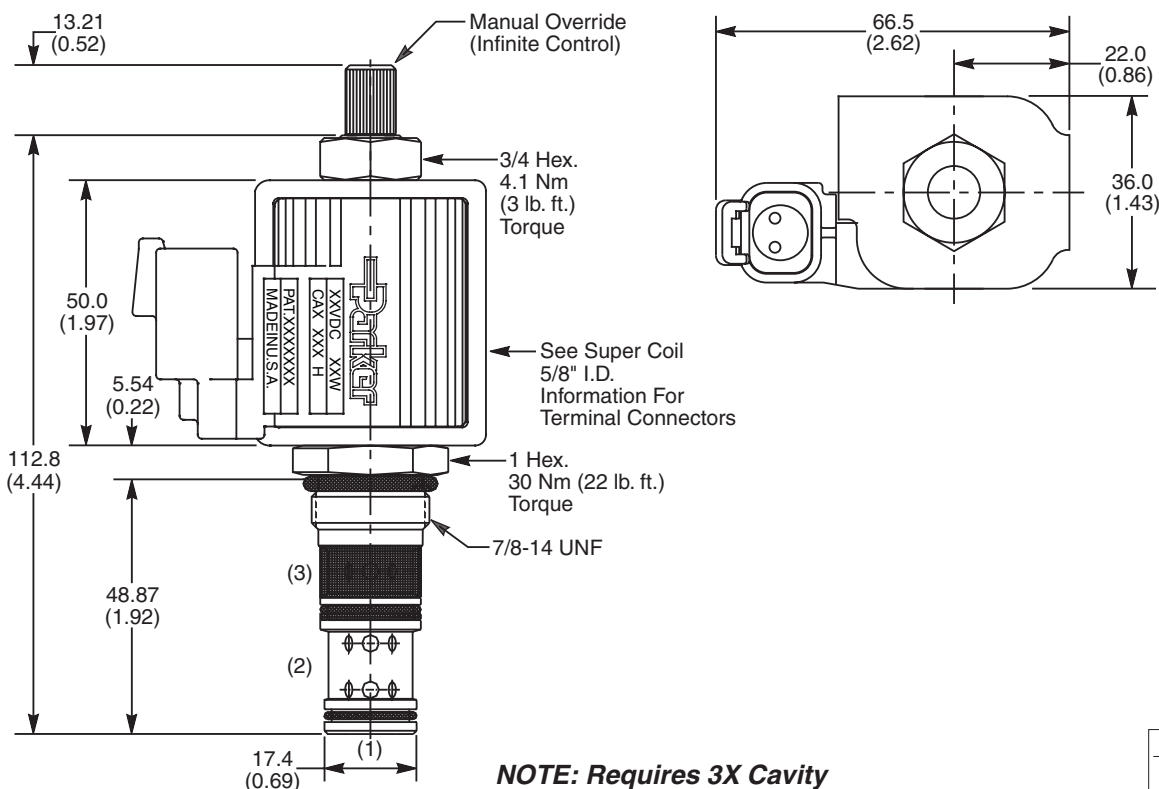
Pressure Drop vs. Flow



Pressure @ Port 2 vs. Input Current



Dimensions Millimeters (Inches)



NOTE: Requires 3X Cavity

Ordering Information

GTP0434			1				
10 Size Proportional Valve	Style	Override Option	Filter Screen	Seals	Coil Type	Coil Voltage	Coil Termination

Code	Style (Maximum Regulated Pressure Range - SP Coil)
02	14/17 Bar (200/240 PSI)
03	21/27 Bar (300/390 PSI)
05	29/38 Bar (420/550 PSI)
09	56/74 Bar (810/1080 PSI)

Contact factory for other regulated pressure to 124 Bar (1800 PSI)

Code	Override Option
0	Not Required
5	Detented M.O.

Code	Filter Screen
1	60 Mesh Screen on Inlet Port

Code	Seals / Kit No.
N	Nitrile / Buna-N (Std.) (SK30081N-1)
V	Fluorocarbon / (SK30081V-1)

Code	Coil Type
Omit	Without Coil
SS	Super Coil - 18 Watts
SP	Super Coil - 28 Watts

Code	Coil Voltage
Omit	Without Coil
D012	12 VDC
D024	24 VDC

Code	Coil Termination
Omit	Without Coil
D	DIN Plug Face
A	Amp Jr. Timer*
L	Dual Lead Wire*
LS	Sealed Lead Wire*
H	Molded Deutsch*

See Super Coil 5/8" I.D.
 *DC Only

Order Bodies Separately

LB10		
Line Body	Porting	Body Material

Code	Porting
553	1/2" SAE
554	3/8" BSP

Code	Body Material
A	Aluminum
S	Steel