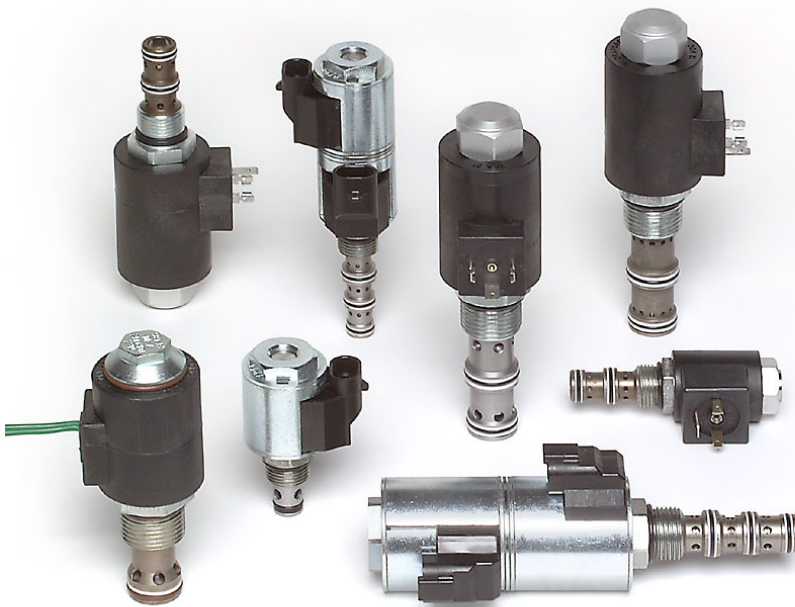


Electro-Proportional Valves



- Continuous-duty rated solenoids.
- Hardened precision spool and cage for long life.
- Cartridges voltage interchangeable.
- Efficient wet-armature construction.
- Industry-common cavity.
- Designed for excellent linearity and hysteresis.
- [Go to Electronic Controllers for Proportional Valves](#)

Selection Guide

[Recommended Electronic Controllers for Proportional Valves \(Technical Reference Info.\)](#)

[SP Valves and Coil Operating Parameters \(Technical Reference info.\)](#)

[SP Series Proportional Directional Valves](#)

[Proportional Flow Control Valves, 2-Way](#)

[Proportional Flow Control Valves, 3-Way](#)

[Proportional Flow Regulators, Pressure-Compensated](#)

[Proportional Flow Control Valves, Bi-Directional](#)

[Proportional Pressure Control Valves, Relief](#)

[Proportional Pressure Control Valves, Reducing/Relieving](#)

Electro-Proportional Valves

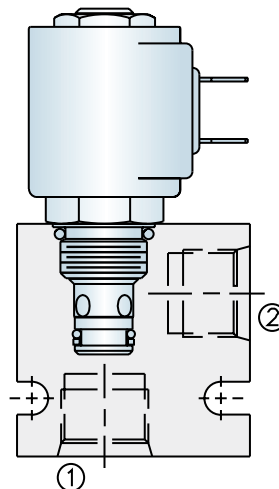
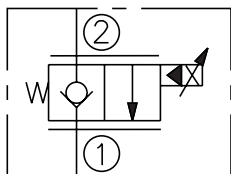


Proportional Directional Valves

Proportional Directional, 2-Way, Normally Closed

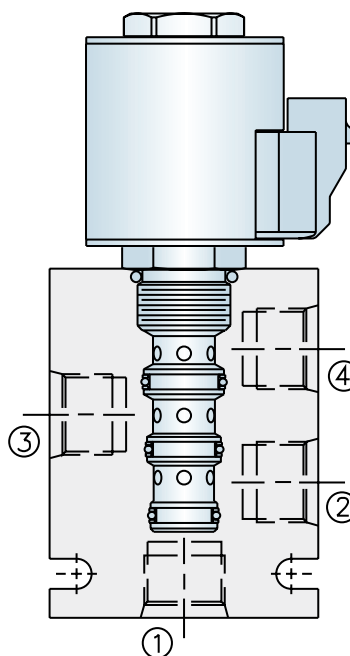
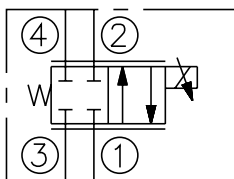
| Flow | Model | Cat. Pg. |
|------------------|----------------|-------------------------|
| 22 lpm / 6 gpm | SP08-20 | 2.008.1 |
| 68 lpm / 18 gpm | SP10-20 | 2.010.1 |
| 100 lpm / 27 gpm | SP12-20 | 2.012.1 |

New Models Highlighted



Proportional Directional, 4-Way, 2-Position, Normally Closed

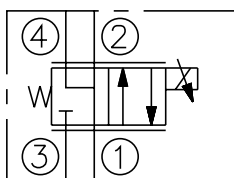
| Flow | Model | Cat. Pg. |
|------------------|----------------|-------------------------|
| 21 lpm / 5.5 gpm | SP10-41 | 2.080.1 |



Proportional Directional, 4-Way, 2-Position

| Flow | Model | Cat. Pg. |
|----------------|-----------------|-------------------------|
| 23 lpm / 6 gpm | SP10-46R | 2.090.1 |

New Model is Highlighted



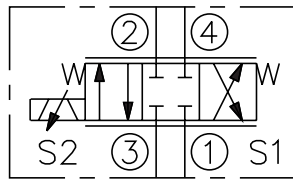
Electro-Proportional Valves



Proportional Directional Valves

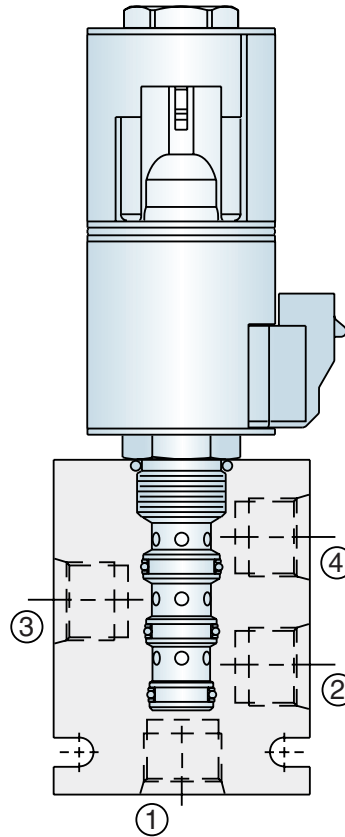
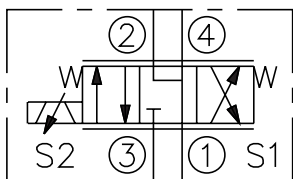
Proportional Directional, 4-Way, 3-Position, Closed Center

| Flow | Model | Cat. Pg. |
|----------------|-----------------|-------------------------|
| 11 lpm / 3 gpm | SP08-47C | 2.110.1 |
| 22 lpm / 3 gpm | SP10-47C | 2.111.1 |



Proportional Directional, 4-Way, 3-Position, "Motor Spool"

| Flow | Model | Cat. Pg. |
|----------------|-----------------|-------------------------|
| 11 lpm / 3 gpm | SP08-47D | 2.120.1 |
| 22 lpm / 3 gpm | SP10-47D | 2.121.1 |



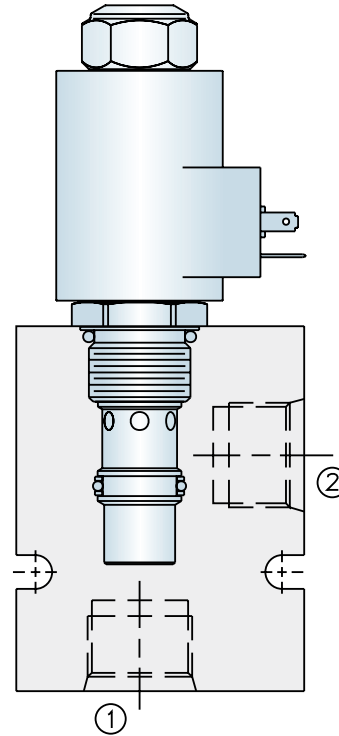
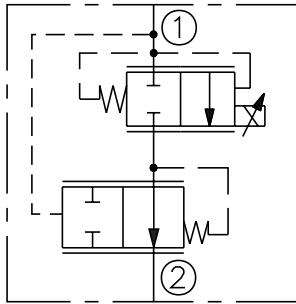
Electro-Proportional Valves



Proportional Flow Control Valves, 2-Way

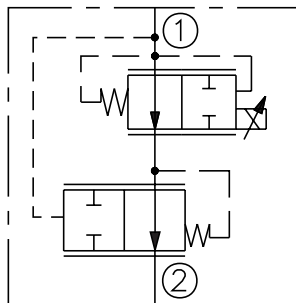
Proportional Flow Control, Restrictive, Normally Closed

| Flow | Model | Cat. Pg. |
|-----------------|----------------|-------------------------|
| 56 lpm / 15 gpm | PV72-20 | 2.330.1 |



Proportional Flow Control, Restrictive, Normally Open

| Flow | Model | Cat. Pg. |
|-----------------|----------------|-------------------------|
| 56 lpm / 15 gpm | PV72-21 | 2.340.1 |



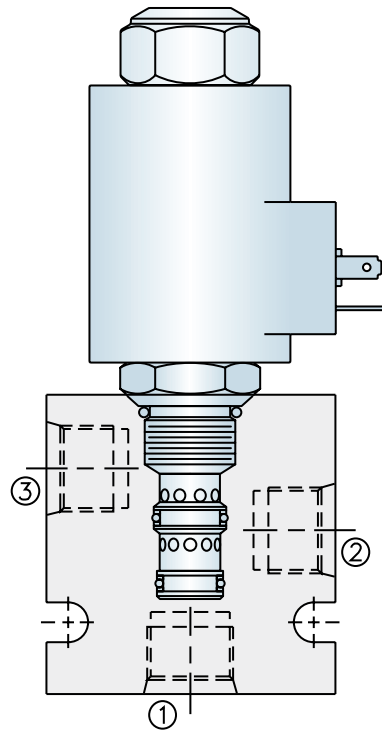
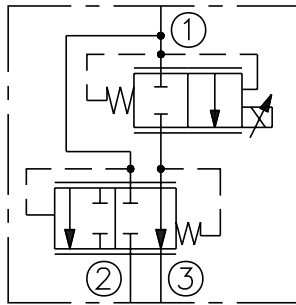
Electro-Proportional Valves



Proportional Flow Control Valves, 3-Way

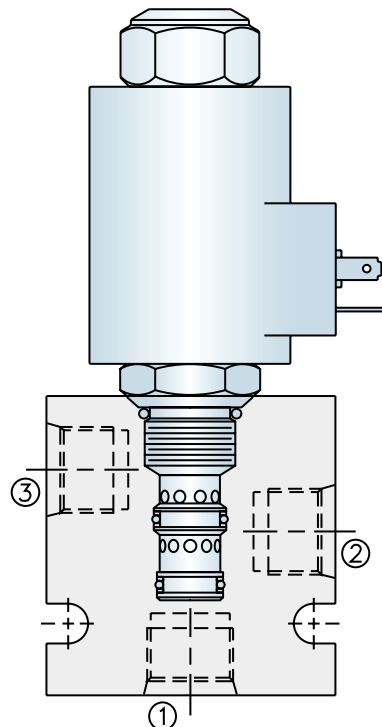
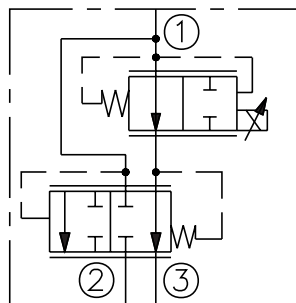
Proportional Flow Control, Bypass, Normally Closed

| Flow | Model | Cat. Pg. |
|------------------|-----------------|-------------------------|
| 22 lpm / 6 gpm | PV08-30 | 2.370.1 |
| 30 lpm / 8 gpm | PV70-30 | 2.372.1 |
| 64 lpm / 17 gpm | PV72-30 | 2.374.1 |
| 151 lpm / 40 gpm | PV76-30A | 2.376.1 |



Proportional Flow Control, Bypass, Normally Open

| Flow | Model | Cat. Pg. |
|-----------------|----------------|-------------------------|
| 22 lpm / 6 gpm | PV08-31 | 2.380.1 |
| 30 lpm / 8 gpm | PV70-31 | 2.382.1 |
| 53 lpm / 14 gpm | PV72-31 | 2.384.1 |
| 79 lpm / 21 gpm | PV76-31 | 2.386.1 |



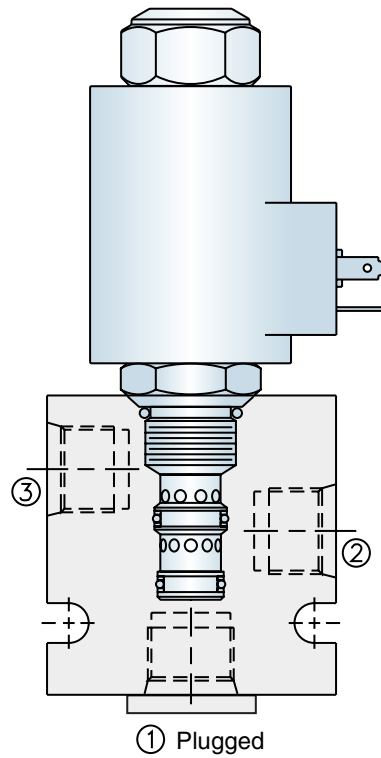
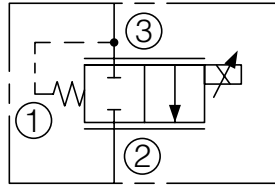
Electro-Proportional Valves



Proportional Flow Control Valves, 3-Way

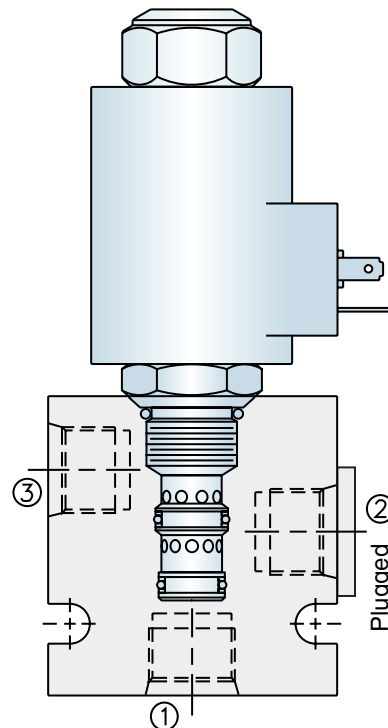
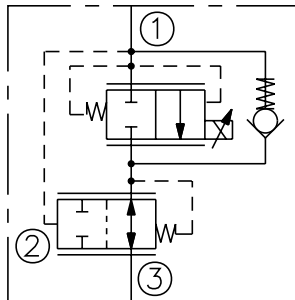
Proportional Flow Control, Normally Closed

| Flow | Model | Cat. Pg. |
|-----------------|----------------|-------------------------|
| 38 lpm / 10 gpm | PV70-33 | 2.400.1 |
| 76 lpm / 20 gpm | PV72-33 | 2.406.1 |



Proportional Flow Control, Normally Closed

| Flow | Model | Cat. Pg. |
|-----------------|----------------|-------------------------|
| 30 lpm / 8 gpm | PV70-34 | 2.412.1 |
| 57 lpm / 15 gpm | PV72-34 | 2.414.1 |



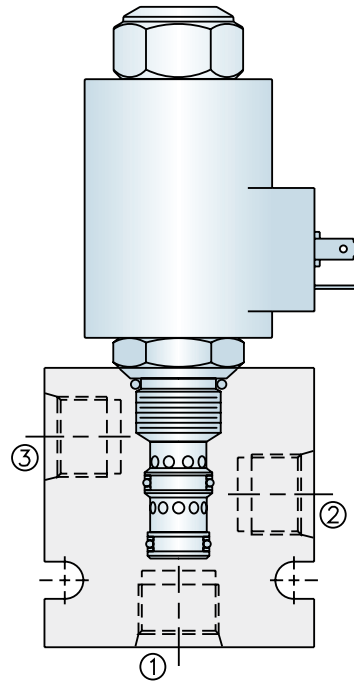
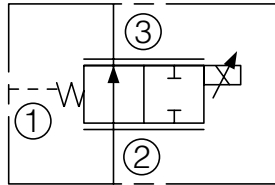
Electro-Proportional Valves



Proportional Flow Control Valves, 3-Way

Proportional Flow Control, Normally Open

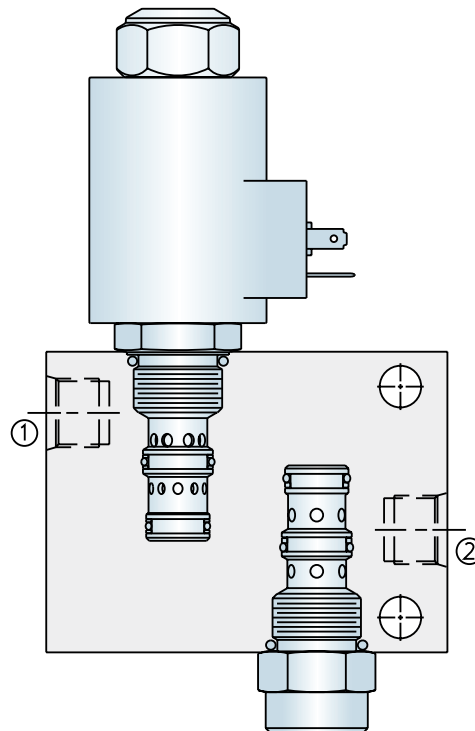
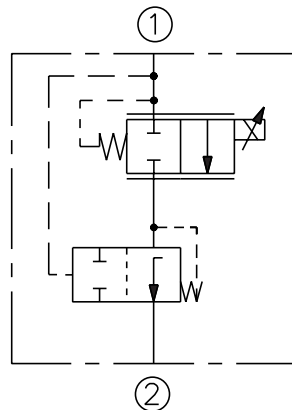
| Flow | Model | Cat. Pg. |
|-----------------|----------------|-------------------------|
| 38 lpm / 10 gpm | PV70-35 | 2.432.1 |
| 87 lpm / 23 gpm | PV72-35 | 2.434.1 |



Proportional Flow Regulators, Pressure-Compensated

Proportional Flow Regulator, Pressure-Compensated 2-Port, Normally Closed

| Flow | Model | Cat. Pg. |
|-----------------|------------------|-------------------------|
| 30 lpm / 8 gpm | PFR70-33E | 2.401.1 |
| 60 lpm / 16 gpm | PFR72-33L | 2.408.1 |



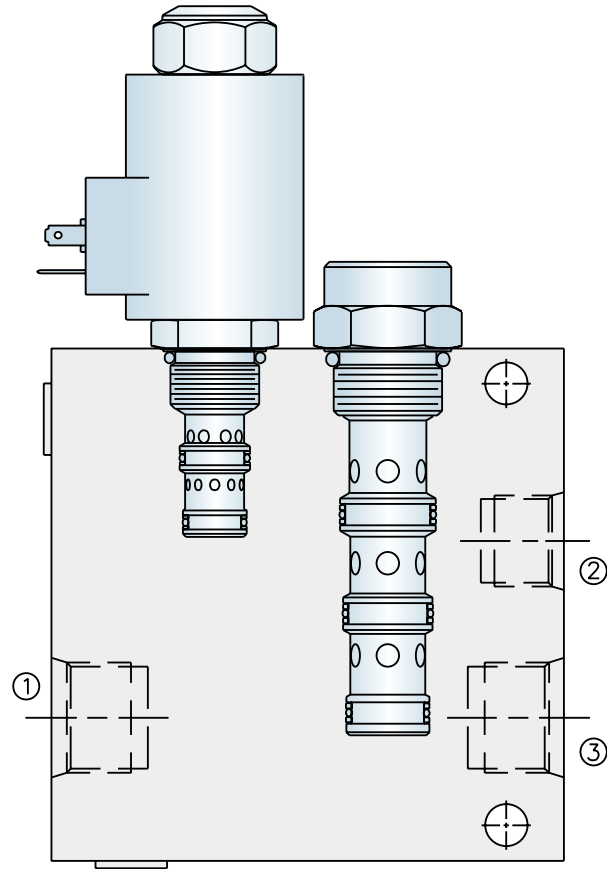
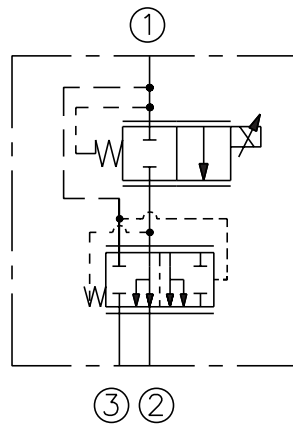
Electro-Proportional Valves



Proportional Flow Regulators, Pressure-Compensated

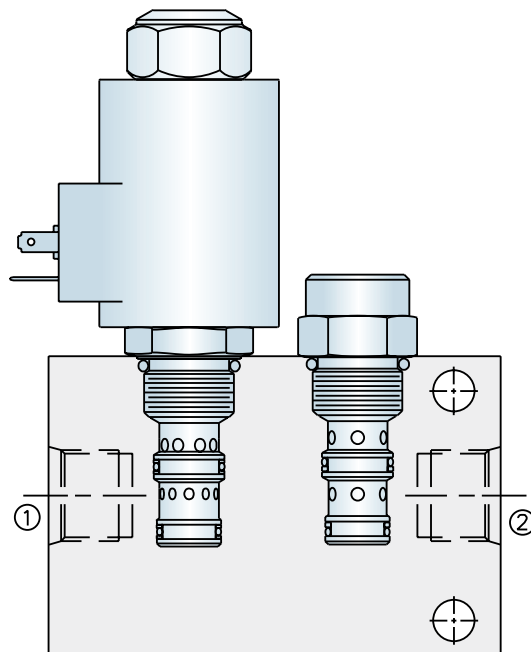
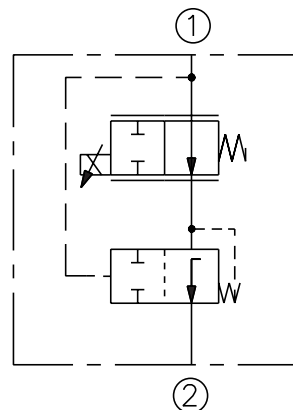
Proportional Flow Regulator Pressure-Compensated, 3-Port Normally Closed, Priority Bypass

| Flow | Model | Cat. Pg. |
|-----------------|------------------|-------------------------|
| 30 lpm / 8 gpm | PFR70-33F | 2.402.1 |
| 30 lpm / 8 gpm | PFR70-33J | 2.403.1 |
| 60 lpm / 16 gpm | PFR72-33J | 2.407.1 |



Proportional Flow Regulator, Pressure-Compensated 2-Port, Normally Open

| Flow | Model | Cat. Pg. |
|-----------------|------------------|-------------------------|
| 30 lpm / 8 gpm | PFR70-35E | 2.433.1 |
| 60 lpm / 16 gpm | PFR72-35L | 2.435.1 |



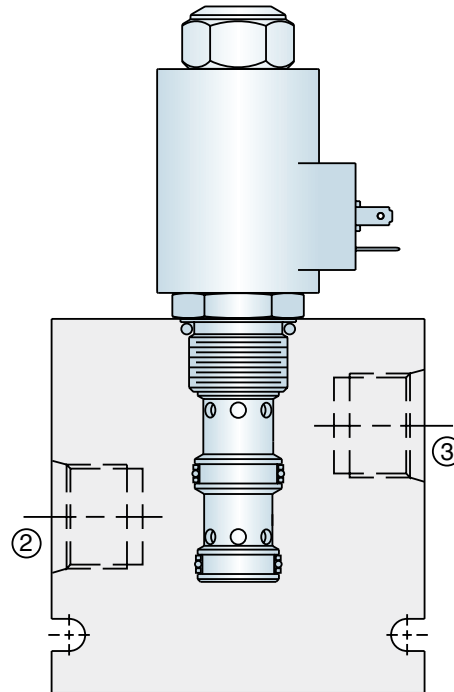
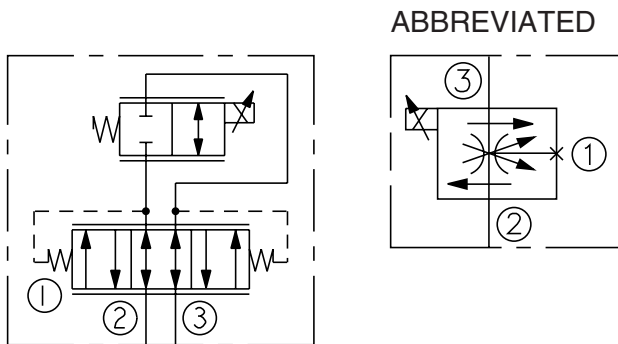
Electro-Proportional Valves



Proportional Flow Control Valves, Bi-Directional

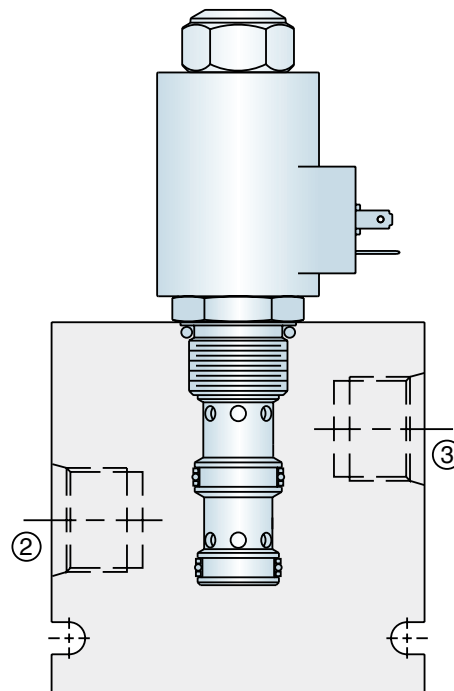
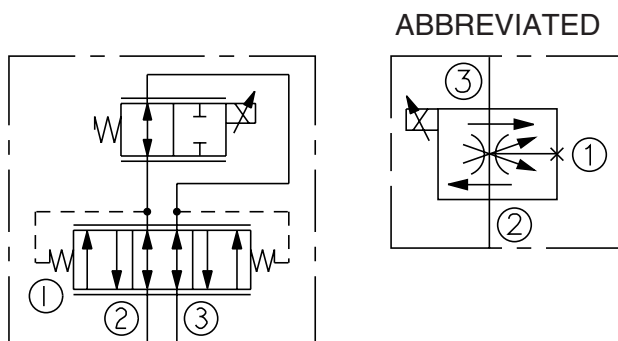
Proportional Flow Control, Bi-Directional, Normally Closed

| Flow | Model | Cat. Pg. |
|-----------------|----------------|-------------------------|
| 19 lpm / 5 gpm | ZL70-30 | 2.602.1 |
| 50 lpm / 13 gpm | ZL72-30 | 2.604.1 |



Proportional Flow Control, Bi-Directional, Normally Open

| Flow | Model | Cat. Pg. |
|-----------------|----------------|-------------------------|
| 19 lpm / 5 gpm | ZL70-31 | 2.622.1 |
| 50 lpm / 13 gpm | ZL72-31 | 2.624.1 |



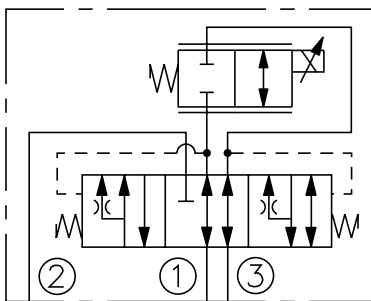
Electro-Proportional Valves



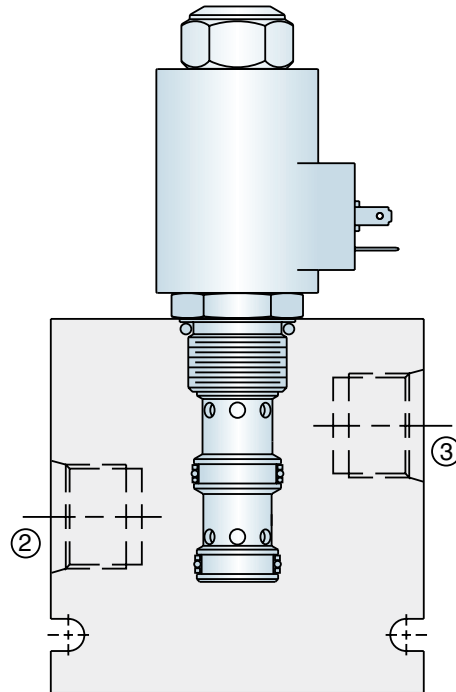
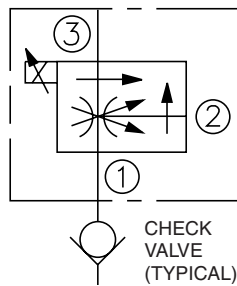
Proportional Flow Control Valves, Bi-Directional

Proportional Flow Control, Bi-Directional, Normally Closed

| Flow | Model | Cat. Pg. |
|-----------------|----------------|-------------------------|
| 19 lpm / 5 gpm | ZL70-33 | 2.632.1 |
| 50 lpm / 13 gpm | ZL72-33 | 2.634.1 |
| 19 lpm / 5 gpm | ZL70-36 | 2.662.1 |
| 45 lpm / 12 gpm | ZL72-36 | 2.664.1 |

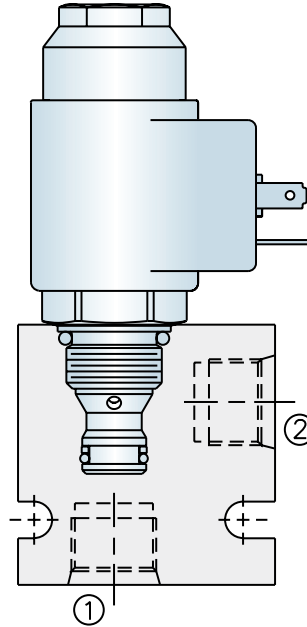
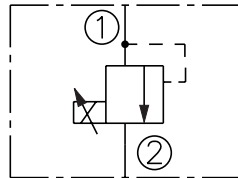


ABBREVIATED:

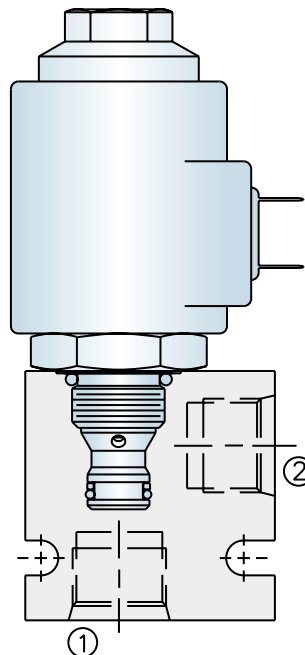
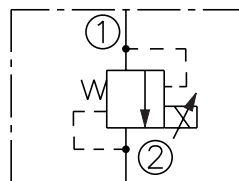


Electro-Proportional Valves**Proportional Pressure Control Valves, Relief****Proportional Pressure Control, Relief
Increasing Pressure with Increasing Current**

| Flow | Model | Cat. Pg. |
|------------------|----------------|-------------------------|
| 3.79 lpm / 1 gpm | TS08-20 | 2.812.1 |
| 12 lpm / 3.2 gpm | TS38-20 | 2.813.1 |

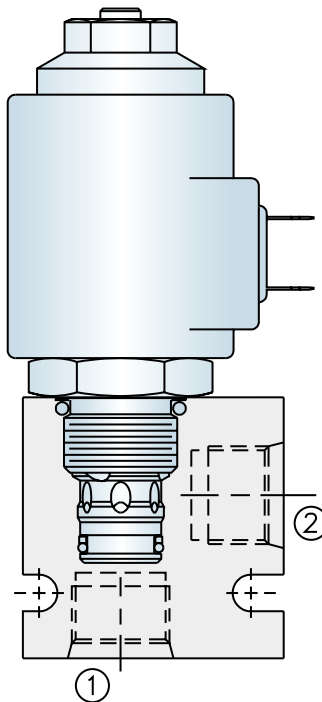
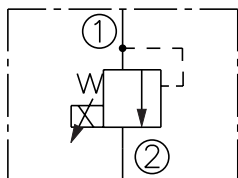
**Proportional Pressure Control, Relief
Decreasing Pressure with Increasing Current**

| Flow | Model | Cat. Pg. |
|-------------------|----------------|-------------------------|
| 1.1 lpm / 0.3 gpm | TS38-21 | 2.823.1 |

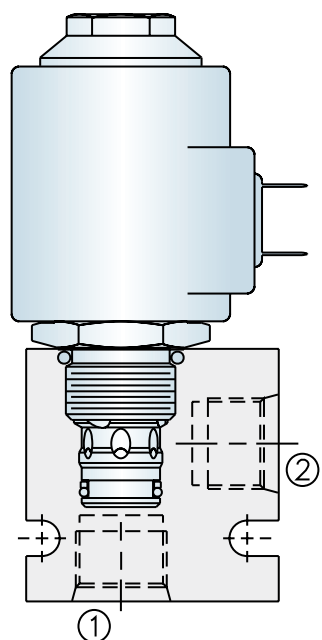
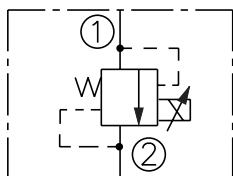


Electro-Proportional Valves**Proportional Pressure Control Valves, Relief****Proportional Pressure Control, Pilot-Operated Relief
Increasing Pressure with Increasing Current**

| Flow | Model | Cat. Pg. |
|------------------|----------------|-------------------------|
| 95 lpm / 25 gpm | TS10-26 | 2.852.1 |
| 189 lpm / 50 gpm | TS12-26 | 2.854.1 |

**Proportional Pressure Control, Pilot-Operated Relief
Decreasing Pressure with Increasing Current**

| Flow | Model | Cat. Pg. |
|------------------|----------------|-------------------------|
| 19 lpm / 5 gpm | TS08-27 | 2.860.1 |
| 76 lpm / 20 gpm | TS10-27 | 2.862.1 |
| 189 lpm / 50 gpm | TS12-27 | 2.864.1 |



Electro-Proportional Valves

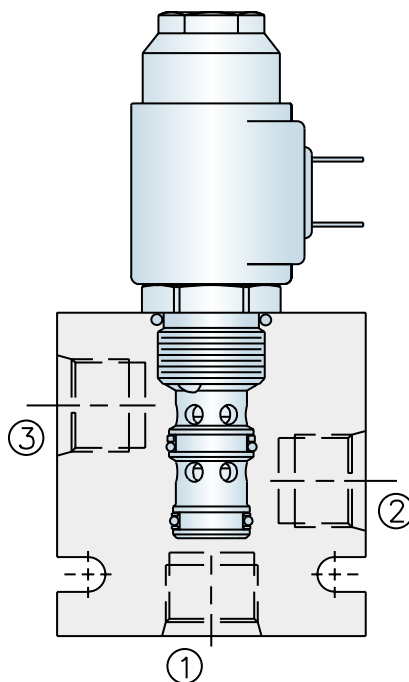
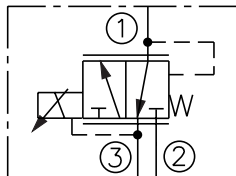


Proportional Pressure Control Valves, Reducing/Relieving

Proportional Pressure Control Reducing/Relieving, Pilot Operated

| Flow | Model | Cat. Pg. |
|------------------|----------------|-------------------------|
| 25 lpm / 6.5 gpm | TS80-30 | 2.872.1 |

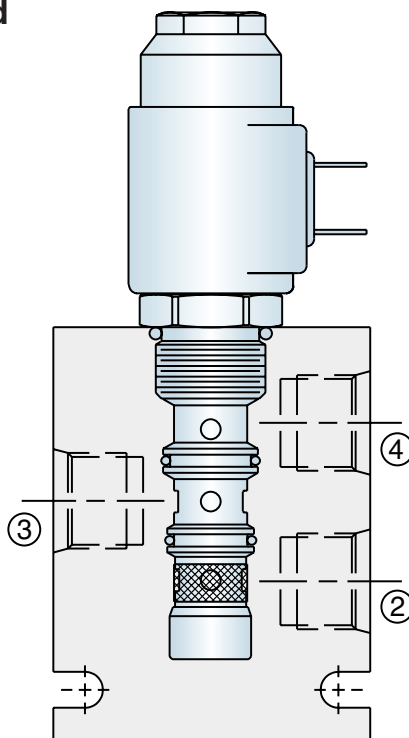
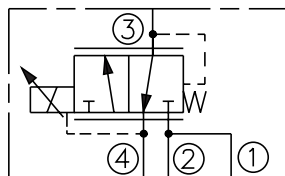
USASI / ISO:



Proportional Pressure Control Reducing/Relieving, Internal Pilot Operated

| Flow | Model | Cat. Pg. |
|------------------|----------------|-------------------------|
| 30 lpm / 8 gpm | TS98-30 | 2.882.1 |
| 11.4 lpm / 3 gpm | TS98-31 | 2.890.1 |

USASI / ISO:



Electro-Proportional Valves

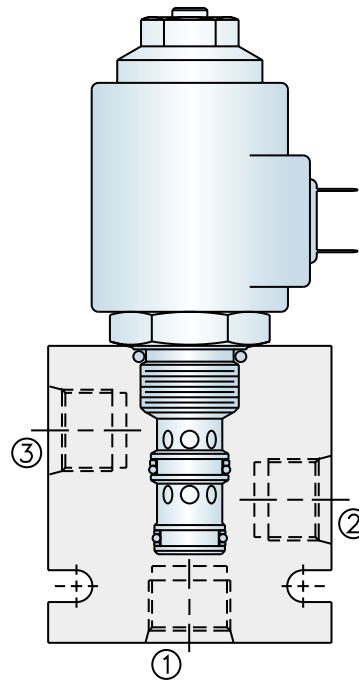
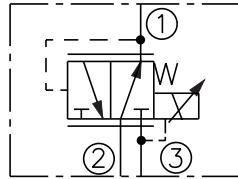


Proportional Pressure Control Valves, Reducing/Relieving

Proportional Pressure Control Reducing/Relieving, Pilot Operated

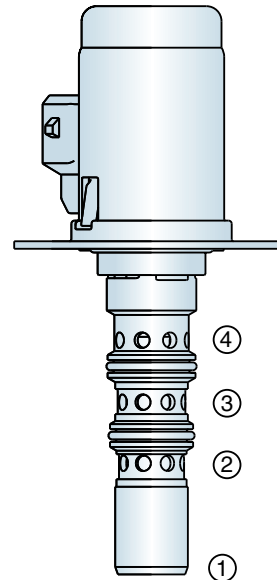
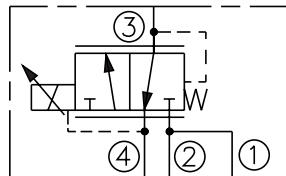
| Flow | Model | Cat. Pg. |
|------------------|----------------|-------------------------|
| 60 lpm / 16 gpm | TS10-36 | 2.900.1 |
| 189 lpm / 50 gpm | TS12-36 | 2.901.1 |

New Model is Highlighted



Proportional Pressure Control, Drop-In Style Reducing/Relieving, Internal Pilot Operated

| Flow | Model | Cat. Pg. |
|----------------|-----------------|-------------------------|
| 30 lpm / 8 gpm | TS98-T34 | 2.950.1 |



Electro-Proportional Valves**Proportional Pressure Control Valves, Reducing/Relieving****Proportional Pressure Control
Reducing/Relieving, Direct Operated**

| Flow | Model | Cat. Pg. |
|------------------|------------------|-------------------------|
| 4 lpm / 1.05 gpm | EHPR08-33 | 2.970.1 |

