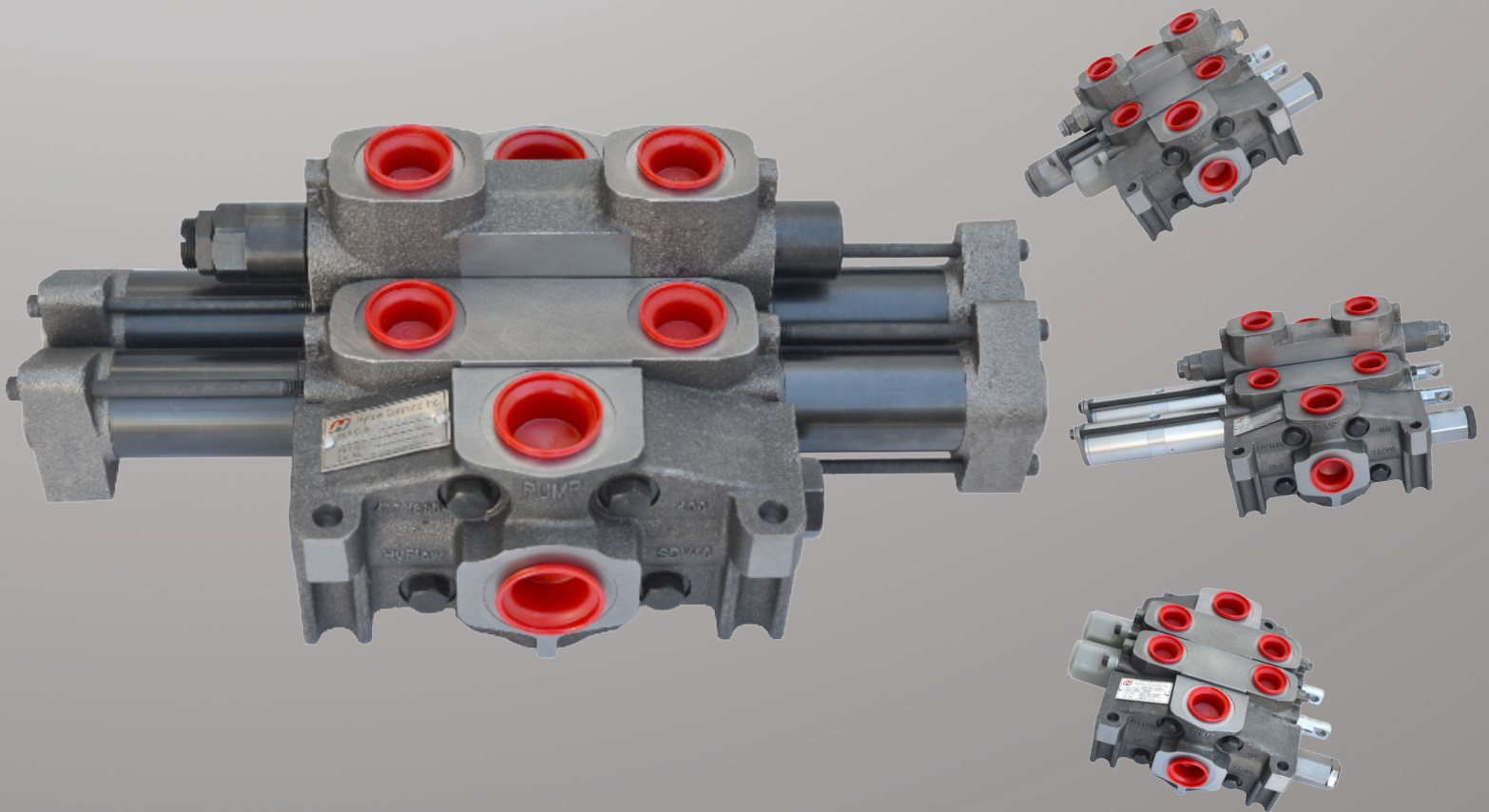




*Hyflow Controls*

# SDV40 & SDV70

Sectional Directional Control Valve



C062015

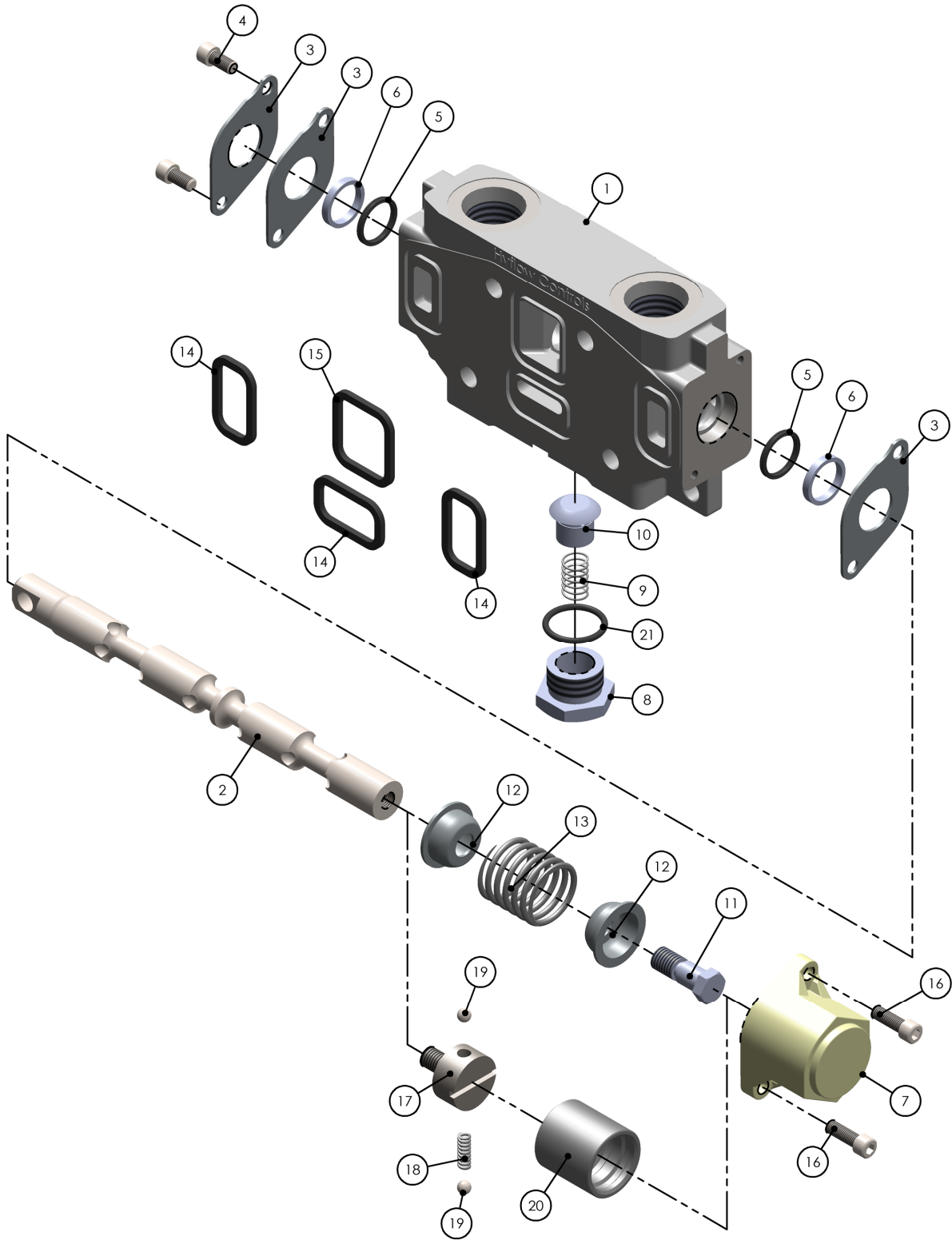


Please note: All parts supplied are Hyflow Controls®. The use of other manufactures' names, part numbers, descriptions or trademarks is for cross reference and informational purposes only.

# Contents

|                                                      |           |
|------------------------------------------------------|-----------|
| <b>SDV Exploded View</b> .....                       | <b>1</b>  |
| <b>SDV40 Valves</b> .....                            | <b>3</b>  |
| Dimensional Data                                     |           |
| Coding Table                                         |           |
| • Inlet                                              |           |
| • Mid-Inlet                                          |           |
| • Work Sections                                      |           |
| • Outlets                                            |           |
| <b>SDV70 Valves</b> .....                            | <b>14</b> |
| Dimensional Data                                     |           |
| Coding Table                                         |           |
| • Inlet                                              |           |
| • Mid-Inlet                                          |           |
| • Work Sections                                      |           |
| • Outlets                                            |           |
| <b>Valve Accessories</b> .....                       | <b>25</b> |
| <b>In-Line Accessories</b> .....                     | <b>26</b> |
| <b>Competitors Interchange Quick Reference</b> ..... | <b>28</b> |
| <b>Valve Assembly Form</b> .....                     | <b>32</b> |
| <b>Warranty</b> .....                                | <b>33</b> |

# Sectional Directional Control Valve Exploded View



## Exploded View Parts List

| Item | Part                    | Qty | SDV40        | SDV70        |
|------|-------------------------|-----|--------------|--------------|
| 1.   | Low-boy work section    |     |              |              |
| 2.   | Spool                   |     |              |              |
| 3.   | Retainer plates         | 3   | 491-3183-001 | 491-3183-005 |
| 4.   | Retainer plate screws   | 2   | 491-2433-015 | 491-2433-002 |
| 5.   | Spool seal              | 2   | 491-2985-014 | 491-3887-212 |
| 6.   | Back up seal            | 2   | 491-3681-378 | 491-3681-426 |
| 7.   | Back cap                | 1   | 441-7000-100 | 442-6000-100 |
| 8.   | Check valve hex cap     | 1   | 491-1571-044 | 491-1581-044 |
| 9.   | Check valve spring      | 1   | 491-4581-713 | 491-4581-713 |
| 10.  | Check valve poppet      | 1   | 491-3481-069 | 491-3481-069 |
| 11.  | Stripper bolt           | 1   | 491-2432-022 | 491-2432-021 |
| 12.  | Spring guides           | 2   | 491-2642-045 | 491-2642-013 |
| 13.  | Centering spring        | 1   | 491-4581-608 | 491-4581-633 |
| 14.  | Section seals - (3 pcs) | 3   | 491-3881-206 | 491-3881-200 |
| 15.  | Section seal - (1 pc)   | 1   | 491-3881-200 | 491-3881-403 |
| 16.  | Back cap screws         | 2   | 491-2433-020 | 491-2433-009 |
| 17.  | Detent poppet retainer  | 1   | 491-3583-008 | 491-3583-006 |
| 18.  | Detent spring           | 1   | 491-4581-130 | 491-4581-015 |
| 19.  | Detent balls            | 2   | 491-1282-010 | 491-1282-009 |
| 20.  | Detent sleeve           | 1   | 491-4283-015 | 491-4283-008 |
| 21.  | Check valve o-ring      | 1   | 491-3881-204 | 491-3881-204 |

Note: Replacement parts sold in kits

# SDV40

## Technical Data

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Construction         | Sectional                                       |
| Circuit              | Parallel/Open Center                            |
| Capacity             | SDV40: 40gpm nominal                            |
| Max Operate Pressure | 3500psi SAE ports only                          |
| Max Tank Pressure    | 150psi                                          |
| Filtration           | 25 Micron                                       |
| Spool Force          | 50lbs Maximum                                   |
| Temperature          | -20° to 200°F(-29° to 93°C)                     |
| Seal Type            | Buna-N                                          |
| Relief Valve         | Differential type, screw adjustable             |
| Material             | Compacted graphite,<br>high strength iron alloy |

## Valve Features

- Built-in, full-flow relief valves
- Parallel/Open center standard
- Spool changeover capability for right or left hand assemblies (left hand standard)
- Transition load checks to prevent load shift between spool positions (cylinder spool only)
- Manual, hydraulic, electric or pneumatic operation
- Sectional construction for maximum flexibility
- Low internal pressure drop
- Work sections are 100% pre-assembled and pre-tested before shipping

**\*\*Series and Tandem circuits for OEM applications special order only\*\***

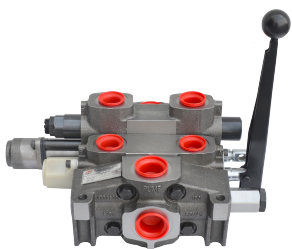
## Cross Reference

| Hyflow Controls® | Parker®                                    | Muncie® |
|------------------|--------------------------------------------|---------|
| SDV40            | DVA/DVG20, VA/VG20,<br>A20,V40,V42 and 25P | 60V     |

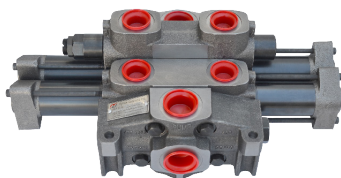
SDV40 is 100% compatible with DVA/DVG20 and 60V

## Approximate Weight (Lbs)

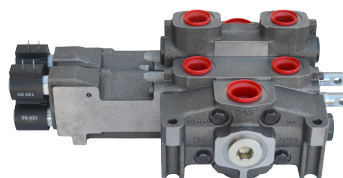
| Parts | Inlet | Outlet | PB Outlet | Work Section | Hi-Boy Section |
|-------|-------|--------|-----------|--------------|----------------|
| SDV40 | 9.5   | 6.8    | 7.7       | 9.6          | 12.2           |



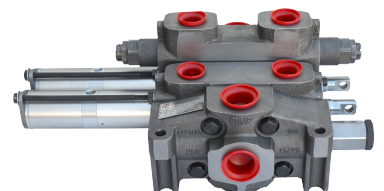
Hyd kickout with  
handle



Hydraulic control

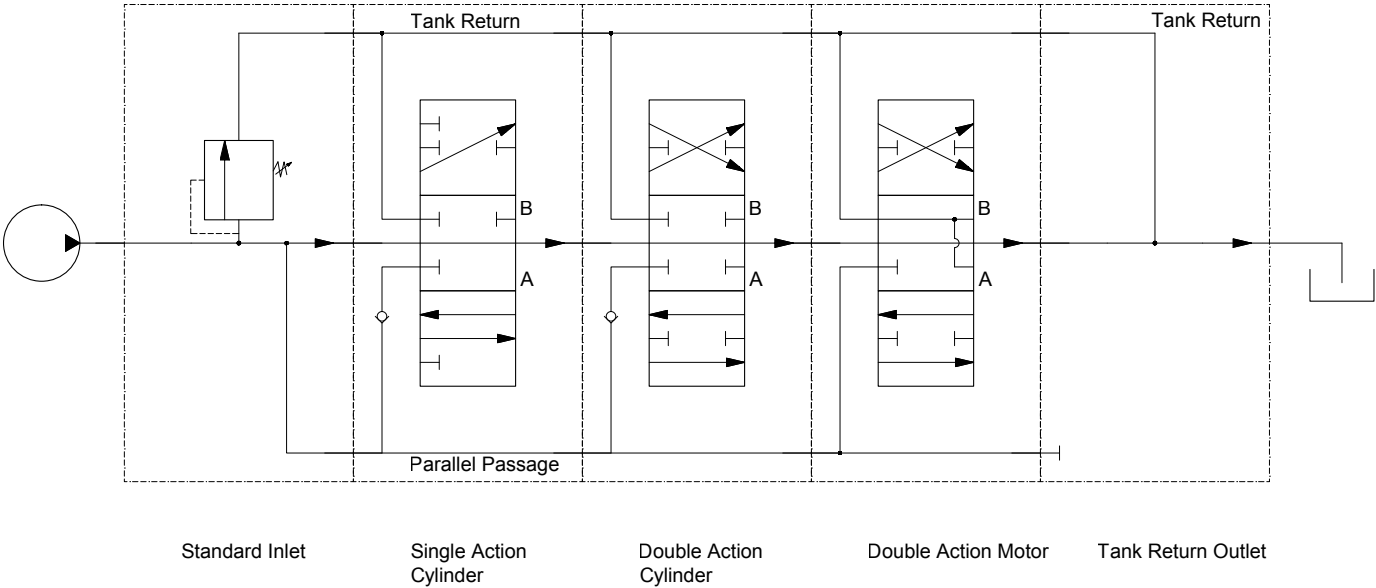


Solenoid control



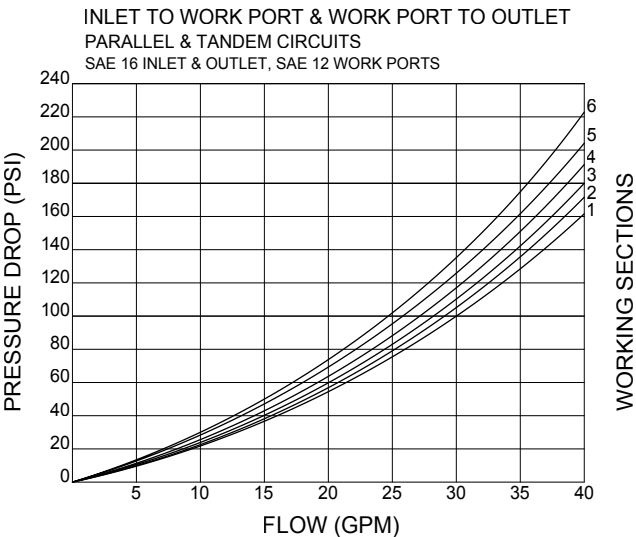
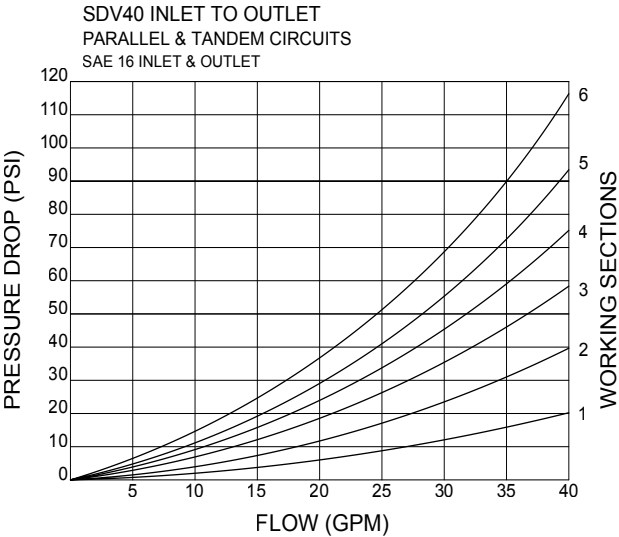
Air-shift

# Valve Assembly Schematic

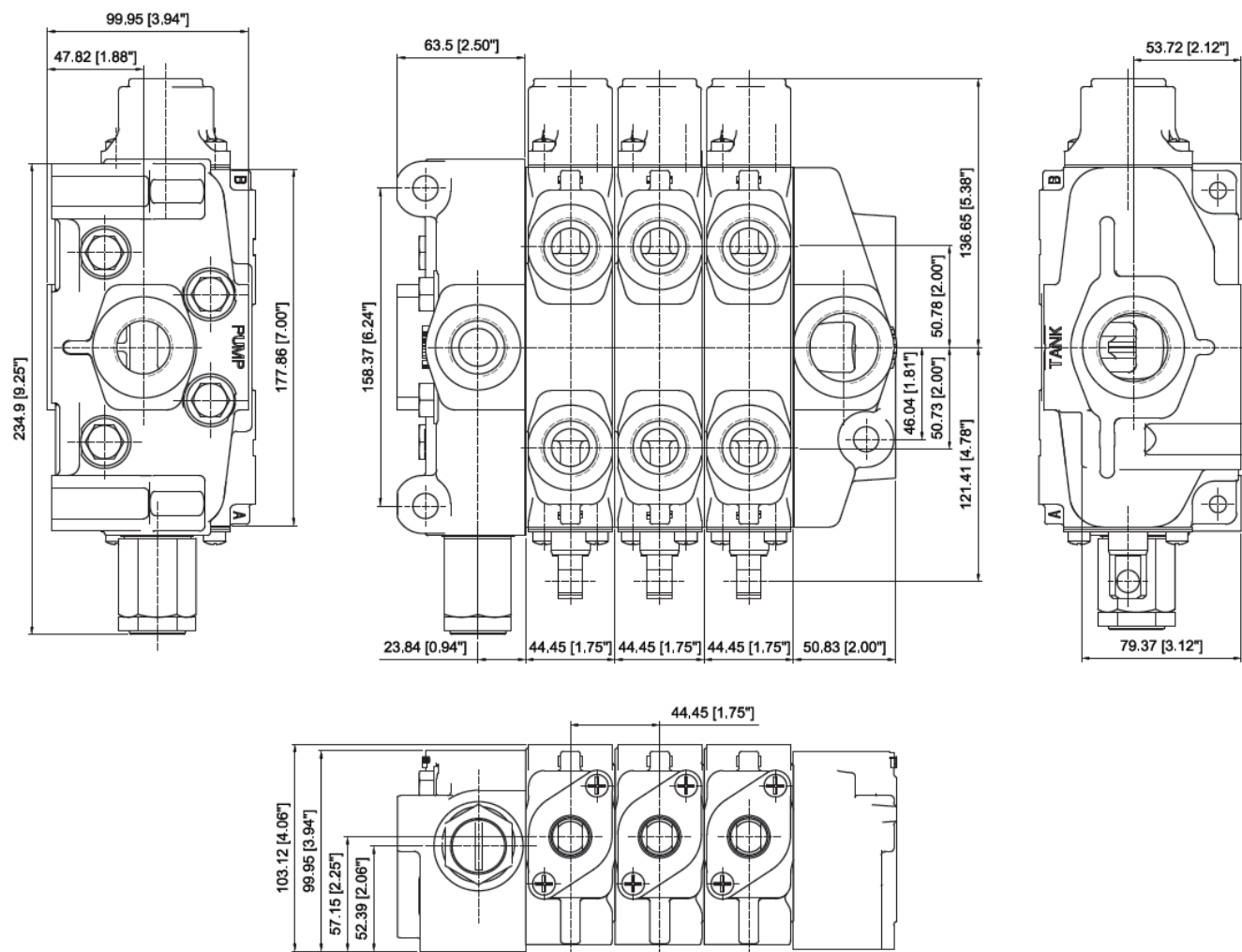


## Performance - Pressure Drops vs. Flow Rates

(all tests run at 100SSu and 120°F)



# Dimensional Data



# Inlet and Mid-Inlet Coding Table

**SDV40 - A - 88 - A**

40 – 40GPM

A – Standard

SF – Mid-Inlet split

SC – Mid-Inlet combined

**1st Code – Side Port**  
**2nd Code – Top Port**

0 - no port

1 - 3/4" split flange

2 - 1/2" NPT

3 - 3/4" NPT

4 - 1" NPT

5 - 1-1/4" NPT

6 - SAE-10

7 - SAE-12

8 - SAE-16

9 - SAE-20

**MRV or Plug Option**

None – Machined (Standard)

A – MRV installed

AH – HMRV installed

P – MRV plug installed

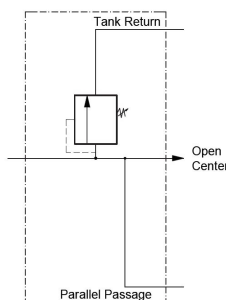
A\* (XXXX) – MRV installed with other pressure setting.

## Standard

| Part Number | Replacement for | Replacement for | Side Port | Top Port |
|-------------|-----------------|-----------------|-----------|----------|
| *SDV40-A00  | 347-9175-003    | 347-9175-005    | no ports  |          |
| SDV40-A44   | 347-9175-001    |                 | 1"NPT     | 1"NPT    |
| SDV40-A77   |                 | 347-9175-004    | SAE-12    | SAE-12   |
| SDV40-A88   | 347-9175-002    |                 | SAE-16    | SAE-16   |

Includes plastic port plugs

**Note: \* Not stock items. Please contact us for available status or lead-time.**



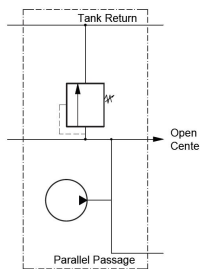
Schematic with MRV

## Mid-Inlet - Machined for MRV or MRVP.

**Combined Flow** - Combines primary & secondary pump flows for faster operating speed of downstream functions.

| Part Number  | Replacement for | Top Port |
|--------------|-----------------|----------|
| *SDV40-CFA00 | 347-9174-008    | no port  |
| SDV40-CFA30  | 347-9174-003    | 3/4"NPT  |
| SDV40-CFA70  | 347-9174-004    | SAE-12   |

Note: \* Special order only.

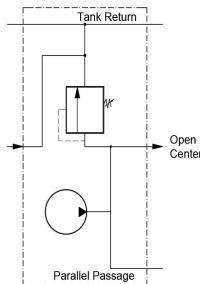


Schematic with MRV

**Split Flow** - Separates primary and secondary pump flows. One valve bank operates like two.

| Part Number  | Replacement for | Top Port |
|--------------|-----------------|----------|
| *SDV40-SFA00 | 347-9174-007    | no port  |
| SDV40-SFA30  | 347-9174-001    | 3/4"NPT  |
| SDV40-SFA70  | 347-9174-002    | SAE-12   |

Note: \* Special order only.



Schematic with MRV



## Main Relief Valves (MRV) Inlet - Mid-inlets differential type, screw adjustable



| Part Number     | Replacement for | Description                             |
|-----------------|-----------------|-----------------------------------------|
| SDV40-MRV       | 391-1873-001    | 2000psi@30gpm, 800-2500psi              |
| SDV40-MRV-2200  | 391-1873-001    | 2200psi@30gpm, 800-2500psi              |
| SDV40-MRV-2500  | 391-1873-001    | 2500psi@30gpm, 800-2500psi              |
| SDV40-HMRV      | 391-1873-128    | 3000psi@30gpm, 2500-3500psi             |
| SDV40-HMRV-2600 | 391-1873-128    | 2600psi@30gpm, 2500-3500psi             |
| SDV40-MRVP      | 391-1873-002    | Main relief valve plug with seal washer |

MRV and MRVP torque 75 ft. lbs. (900 in. lbs.)

# Work Section Coding Table

**SDV40- H D A 7 33(2500/2500) \***

| 40 – 40GPM               | None – Lowboy<br>H – Hi-Boy                      | <b>Spool Action and Function</b><br><b>A</b> - Spring return<br><b>B</b> - 3 position detent<br><b>*C</b> - Spring return, 4th position detent<br><b>V</b> - Single ended air shift, metering<br><b>VA</b> - Single ended air shift, on/off<br><b>*K</b> - Single ended solenoid (electro-hydraulic)<br><b>*RI</b> - Spring to center/detent spool in<br><b>*RO</b> - Spring to center/detent spool out<br><b>X</b> - Hydraulic remote control, metering<br><b>*XP</b> - Pilot operated, on/off<br><b>*DP</b> - Hydraulic detent, pressure released from A or B (auto kick-out)<br><b>*KP</b> - Double end solenoid, on/pff | <b>Left or Right Hand Assembly</b><br><b>None</b> – Left (standard)<br><b>R</b> - Right | <b>A &amp; B Port Size:</b><br><b>0</b> – no port<br><b>1</b> – 3/4" split flange<br><b>2</b> – 1/2" NPT<br><b>3</b> – 3/4" NPT<br><b>4</b> – 1" NPT<br><b>5</b> – SAE-8<br><b>6</b> – SAE-10<br><b>7</b> – SAE-12<br><b>8</b> – SAE-16<br><b>9</b> – SAE-20 | <b>Hi-Boy only</b><br>Port accessory relief valve<br><b>1st code</b> – A port<br><b>2nd code</b> – B port<br><b>None or 5</b> – machined with plastic port covers (standard)<br><b>0</b> – Not machined<br><b>1</b> – PRVAC - relief valve with anti-cavitation<br><b>2</b> – AC - anti-cavitation only, screw adj.<br><b>3</b> – PRVS relief valves, screw adj.<br>PRVS1 - 1000psi<br>PRVS2 - 2000psi<br>PRVS3 - 2500psi<br>To specify pressure setting use (XXXX) format. Example: 3 (2000)<br><b>*4</b> – Crossover relief valve<br><b>6</b> - PPRVS - pilot pressure relief<br><b>9</b> – PRVP - port relief plug<br>When specifying relief valve pressure setting use (XXXX) format. Example: SDV40-HDA711 (2000/2000) |
|--------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spool Function + Circuit |                                                  | Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                         |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>S</b>                 | Parallel Single acting Cylinder spool, B port    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                         |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>*N</b>                | Parallel Single acting Motor spool, B Port       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                         |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>D</b>                 | Parallel Double acting Cylinder spool            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                         |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>*WHD</b>              | Series Double acting Cylinder spool Hi-boy only  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Spool functions symbols for: D, WHD and TD                                              |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>*TD</b>               | Tandem Double acting Cylinder spool              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                         |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>M</b>                 | Parallel Double acting Motor spool               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                         |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>*WHM</b>              | Series Double acting Motor spool Hi-boy only     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Spool functions symbols for: M, WHM, and TM                                             |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>*TM</b>               | Tandem Double acting Motor spool                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                         |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>*T</b>                | Parallel Single acting Cylinder spool, A Port    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                         |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>*F</b>                | Parallel Double acting 4th position detent float |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                         |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Note: \* Not stock items. Please contact us for available status or lead-time.

## Standard Work Sections

| Part Number<br>SDV40 | Replacement<br>for | 3 Way<br>3 Position<br>hold in<br>neutral | 4 Way<br>3 Position<br>hold in<br>neutral | 4 Way<br>3 Position<br>float in<br>neutral | Port<br>Size | Spring<br>Return | 3<br>Position<br>Detent | Metering<br>Hydraulic<br>Remote | Metering<br>Air Shift | On/Off<br>Air Shift | Work Port<br>Not<br>Machined |
|----------------------|--------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|--------------|------------------|-------------------------|---------------------------------|-----------------------|---------------------|------------------------------|
| <b>*DA0</b>          | 347-9172-001       |                                           | X                                         |                                            |              | X                |                         |                                 |                       |                     | X                            |
| DA3                  | 347-9172-002       |                                           | X                                         |                                            | ¾"NPT        | X                |                         |                                 |                       |                     |                              |
| DA7                  | 347-9172-003       |                                           | X                                         |                                            | SAE-12       | X                |                         |                                 |                       |                     |                              |
| DB3                  | 347-9172-026       |                                           | X                                         |                                            | ¾"NPT        |                  | X                       |                                 |                       |                     |                              |
| DB7                  | 347-9172-027       |                                           | X                                         |                                            | SAE-12       |                  | X                       |                                 |                       |                     |                              |
| DV3                  | 347-9172-033       |                                           | X                                         |                                            | ¾"NPT        |                  |                         |                                 | X                     |                     |                              |
| DV7                  | 347-9172-034       |                                           | X                                         |                                            | SAE-12       |                  |                         |                                 | X                     |                     |                              |
| DVA3                 |                    |                                           | X                                         |                                            | ¾"NPT        |                  |                         |                                 |                       | X                   |                              |
| DVA7                 |                    |                                           | X                                         |                                            | SAE-12       |                  |                         |                                 |                       | X                   |                              |
| DX3                  | 347-9172-043       |                                           | X                                         |                                            | ¾"NPT        |                  |                         | X                               |                       |                     |                              |
| DX7                  | 347-9172-044       |                                           | X                                         |                                            | SAE-12       |                  |                         | X                               |                       |                     |                              |
| <b>*MA0</b>          | 347-9172-004       |                                           |                                           | X                                          |              | X                |                         |                                 |                       |                     | X                            |
| MA3                  | 347-9172-005       |                                           |                                           | X                                          | ¾"NPT        | X                |                         |                                 |                       |                     |                              |
| MA7                  | 347-9172-006       |                                           |                                           | X                                          | SAE-12       | X                |                         |                                 |                       |                     |                              |
| MB3                  | 347-9172-039       |                                           |                                           | X                                          | ¾"NPT        |                  | X                       |                                 |                       |                     |                              |
| MB7                  | 347-9172-040       |                                           |                                           | X                                          | SAE-12       |                  | X                       |                                 |                       |                     |                              |
| MV3                  | 347-9172-136       |                                           |                                           | X                                          | ¾"NPT        |                  |                         |                                 | X                     |                     |                              |
| MV7                  | 347-9172-137       |                                           |                                           | X                                          | SAE-12       |                  |                         |                                 | X                     |                     |                              |
| MVA3                 |                    |                                           |                                           | X                                          | ¾"NPT        |                  |                         |                                 |                       | X                   |                              |
| MVA7                 |                    |                                           |                                           | X                                          | SAE-12       |                  |                         |                                 |                       | X                   |                              |
| MX3                  | 347-9172-062       |                                           |                                           | X                                          | ¾"NPT        |                  |                         | X                               |                       |                     |                              |
| MX7                  | 347-9172-063       |                                           |                                           | X                                          | SAE-12       |                  |                         | X                               |                       |                     |                              |
| SA3                  | 347-9171-002       | X                                         |                                           |                                            | ¾"NPT        | X                |                         |                                 |                       |                     |                              |
| SA7                  | 347-9171-003       | X                                         |                                           |                                            | SAE-12       | X                |                         |                                 |                       |                     |                              |
| SB3                  | 347-9171-026       | X                                         |                                           |                                            | ¾"NPT        |                  | X                       |                                 |                       |                     |                              |
| SB7                  | 347-9171-027       | X                                         |                                           |                                            | SAE-12       |                  | X                       |                                 |                       |                     |                              |
| SV3                  | 347-9101-129       | X                                         |                                           |                                            | ¾"NPT        |                  |                         |                                 | X                     |                     |                              |
| SV7                  | 347-9171-018       | X                                         |                                           |                                            | SAE-12       |                  |                         |                                 | X                     |                     |                              |
| SVA3                 |                    | X                                         |                                           |                                            | ¾"NPT        |                  |                         |                                 |                       | X                   |                              |
| SVA7                 |                    | X                                         |                                           |                                            | SAE-12       |                  |                         |                                 |                       | X                   |                              |
| SX3                  |                    | X                                         |                                           |                                            | ¾"NPT        | X                |                         | X                               |                       |                     |                              |
| SX7                  | 347-9101-161       | X                                         |                                           |                                            | SAE-12       | X                |                         | X                               |                       |                     |                              |

Note: \* Not stock item. Please contact us for available status or lead-time.

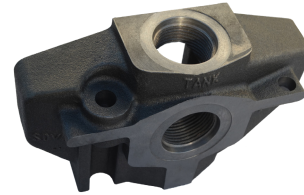
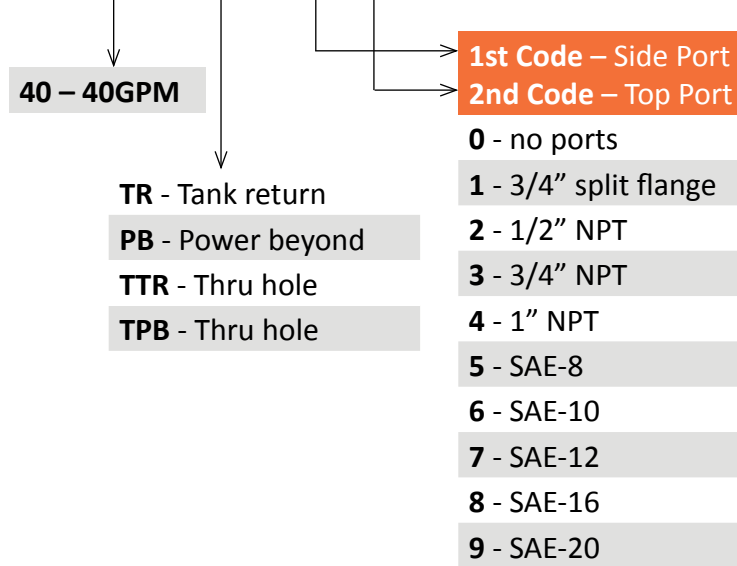
## Hi-Boy Work Sections

| Part Number<br>SDV40 | Replacement<br>for | 3 Way<br>3 Position<br>hold in<br>neutral | 4 Way<br>3 Position<br>hold in<br>neutral | 4 Way<br>3 Position<br>float in<br>neutral | Port<br>Size | Spring<br>Return | 3<br>Position<br>Detent | Metering<br>Hydraulic<br>Remote | Metering<br>Air Shift | On/Off<br>Air Shift | Work Port<br>Not<br>Machined |
|----------------------|--------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|--------------|------------------|-------------------------|---------------------------------|-----------------------|---------------------|------------------------------|
| <b>*HDA0</b>         | 347-9172-007       |                                           | X                                         |                                            |              | X                |                         |                                 |                       |                     | X                            |
| HDA3                 | 347-9172-008       |                                           | X                                         |                                            | ¾"NPT        | X                |                         |                                 |                       |                     |                              |
| HDA7                 | 347-9172-009       |                                           | X                                         |                                            | SAE-12       | X                |                         |                                 |                       |                     |                              |
| HDA7-PA              |                    |                                           | X                                         |                                            | SAE-12       | X                |                         |                                 |                       |                     |                              |
| HDA7-PB              |                    |                                           | X                                         |                                            | SAE-12       | X                |                         |                                 |                       |                     |                              |
| HDB3                 | 347-9172-017       |                                           | X                                         |                                            | ¾"NPT        |                  | X                       |                                 |                       |                     |                              |
| HDB7                 | 347-9172-018       |                                           | X                                         |                                            | SAE-12       |                  | X                       |                                 |                       |                     |                              |
| HDV3                 | 347-9172-024       |                                           | X                                         |                                            | ¾"NPT        |                  |                         |                                 | X                     |                     |                              |
| HDV7                 | 347-9172-025       |                                           | X                                         |                                            | SAE-12       |                  |                         |                                 | X                     |                     |                              |
| HDVA3                |                    |                                           | X                                         |                                            | ¾"NPT        |                  |                         |                                 |                       | X                   |                              |
| HDVA7                |                    |                                           | X                                         |                                            | SAE-12       |                  |                         |                                 |                       | X                   |                              |
| HDX3                 | 347-9172-045       |                                           | X                                         |                                            | ¾"NPT        |                  |                         | X                               |                       |                     |                              |
| HDX7                 | 347-9172-046       |                                           | X                                         |                                            | SAE-12       |                  |                         | X                               |                       |                     |                              |
| <b>*HMA0</b>         |                    |                                           |                                           | X                                          |              | X                |                         |                                 |                       |                     |                              |
| HMA3                 | 347-9172-011       |                                           |                                           | X                                          | ¾"NPT        | X                |                         |                                 |                       |                     | X                            |
| HMA7                 | 347-9172-012       |                                           |                                           | X                                          | SAE-12       | X                |                         |                                 |                       |                     |                              |
| HMB3                 | 347-9172-177       |                                           |                                           | X                                          | ¾"NPT        |                  | X                       |                                 |                       |                     |                              |
| HMB7                 | 347-9172-178       |                                           |                                           | X                                          | SAE-12       |                  | X                       |                                 |                       |                     |                              |
| HMV3                 | 347-9172-126       |                                           |                                           | X                                          | ¾"NPT        |                  |                         |                                 | X                     |                     |                              |
| HMV7                 | 347-9172-127       |                                           |                                           | X                                          | SAE-12       |                  |                         |                                 | X                     |                     |                              |
| HMVA3                |                    |                                           |                                           | X                                          | ¾"NPT        |                  |                         |                                 |                       | X                   |                              |
| HMVA7                |                    |                                           |                                           | X                                          | SAE-12       |                  |                         |                                 |                       | X                   |                              |
| <b>*HMX3</b>         | 347-9172-072       |                                           |                                           | X                                          | ¾"NPT        |                  |                         | X                               |                       |                     |                              |
| <b>*HMX7</b>         | 347-9172-073       |                                           |                                           | X                                          | SAE-12       |                  |                         | X                               |                       |                     |                              |
| HSA3                 | 347-9171-005       | X                                         |                                           |                                            | ¾"NPT        | X                |                         |                                 |                       |                     |                              |
| HSA7                 | 347-9171-006       | X                                         |                                           |                                            | SAE-12       | X                |                         |                                 |                       |                     |                              |
| HSB3                 | 347-9171-010       | X                                         |                                           |                                            | ¾"NPT        |                  | X                       |                                 |                       |                     |                              |
| HSB7                 | 347-9171-012       | X                                         |                                           |                                            | SAE-12       |                  | X                       |                                 |                       |                     |                              |
| HSV3                 | 347-9171-011       | X                                         |                                           |                                            |              |                  |                         |                                 | X                     |                     |                              |
| HSV7                 |                    | X                                         |                                           |                                            |              |                  |                         |                                 | X                     |                     |                              |
| HSVA3                |                    | X                                         |                                           |                                            |              |                  |                         |                                 |                       | X                   |                              |
| HSVA7                |                    | X                                         |                                           |                                            |              |                  |                         |                                 |                       | X                   |                              |
| HSX3                 |                    | X                                         |                                           |                                            | ¾"NPT        | X                |                         | X                               |                       |                     |                              |
| HSX7                 |                    | X                                         |                                           |                                            | SAE-12       | X                |                         | X                               |                       |                     |                              |

Note: \* Not stock item. Please contact us for available status or lead-time.

# Outlet - Coding Table

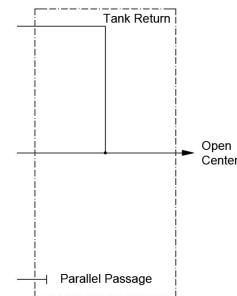
**SDV40 - TR - 8 8**



## Tank Return

| Part Number  | Replacement for | Side Port  | Top Port |
|--------------|-----------------|------------|----------|
| *SDV40-TR00  | 347-9176-006    | no ports   |          |
| SDV40-TR44   | 347-9176-001    | 1"NPT      | 1"NPT    |
| SDV40-TR50   | 347-0176-501    | 1-1/4" NPT | no port  |
| SDV40-TR88   | 347-9176-002    | SAE-16     | SAE-16   |
| *SDV40-TTR00 | 347-9176-010    | no ports   |          |
| SDV40-TTR88  | 347-9176-007    | SAE-16     | SAE-16   |
| SDV40-TTR90  | 347-9176-024    | SAE-20     | no port  |

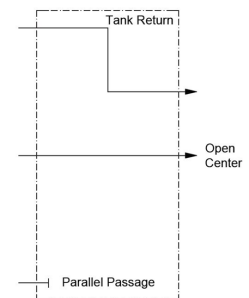
**Note: \* Special order only.**  
**SDV40 - TTR00,TTR88,TTR90 - 3500psi**



## Power Beyond

| Part Number  | Replacement for | Side Port LP | Side Port HP | Top Port LP | Top Port HP |
|--------------|-----------------|--------------|--------------|-------------|-------------|
| *SDV40-PB00  | 347-9176-009    | no ports     |              |             |             |
| SDV40-PB08   | 347-9176-005    | no port      | no port      | SAE-16      | SAE-16      |
| SDV40-PB44   | 347-9176-003    | 1"NPT        | 1"NPT        | 1"NPT       | 1"NPT       |
| SDV40-PB80   | 347-9176-004    | SAE-16       | SAE-16       | no port     | no port     |
| SDV40-PB88   | 347-9176-007    | SAE-16       | SAE-16       | SAE-16      | SAE-16      |
| *SDV40-TPB00 | 347-9176-011    | no ports     |              |             |             |
| SDV40-TPB88  | 347-9176-008    | SAE-16       | SAE-16       | SAE-16      | SAE-16      |

**Note: \* Special order only.**  
**SDV40 - TPB00,TPB80 - 3500psi**



## Stud Kits



| Part Number | Replacement for |
|-------------|-----------------|
| SDV40-SK-1  | 391-1873-045    |
| SDV40-SK-2  | 391-1873-046    |
| SDV40-SK-3  | 391-1873-047    |
| SDV40-SK-4  | 391-1873-048    |
| SDV40-SK-5  | 391-1873-049    |
| SDV40-SK-6  | 391-1873-050    |
| SDV40-SK-7  | 391-1873-051    |
| SDV40-SK-8  | 391-1873-052    |

SK studs - torque 29ft. lbs. (348in. lbs.) for 2500psi

## Thru Hole Stud Kits



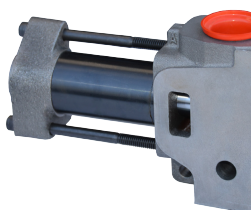
| Part Number | Replacement for |
|-------------|-----------------|
| SDV40-TSK-1 | 391-1873-129    |
| SDV40-TSK-2 | 391-1873-130    |
| SDV40-TSK-3 | 391-1873-131    |
| SDV40-TSK-4 | 391-1873-132    |
| SDV40-TSK-5 | 391-1873-133    |
| SDV40-TSK-6 | 391-1873-134    |
| SDV40-TSK-7 | 391-1873-135    |
| SDV40-TSK-8 | 391-1873-136    |

TSK studs - torque 42ft.lbs. (504in. lbs.) for 3500psi

## Work Section Spool Actuation Kits

| Part Number         | Replacement for | Function                                |
|---------------------|-----------------|-----------------------------------------|
| SDV40-K-100         | 391-1873-019    | Spring return                           |
| SDV40-K-101         | 391-1873-020    | 3 position detent                       |
| <b>*SDV40-K-106</b> | 391-1873-025    | Single ended DA solenoid 12VDC          |
| SDV40-K-106-C       |                 | Single ended solenoid kit. Casting only |
| SDV40-K-109         | 391-1873-173    | Metering hyd remote control             |
| <b>*SDV40-K-110</b> | 391-1873-172    | Pilot on/off control                    |
| <b>*SDV40-K111</b>  | 391-1873-091    | Double ended DA solenoid 12VDC          |
| <b>*SDV40-K-112</b> | 391-1873-174    | Single ended DA solenoid 24VDC          |
| SDV40-K-113         | 391-1873-206    | Metering air shift                      |
| SDV40-K-113A        |                 | Airshift on/off                         |
| <b>*SDV40-K-130</b> | 392-1873-022    | Detent in/out, auto kick out            |

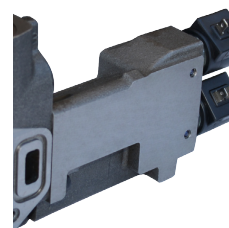
Note: \* Not stock item. Please contact us for available status or lead-time.



**Metering Hydraulic  
Remote Control Kit**



**Pressure Kick-out**



**Single Ended DA  
Solenoid Kit**



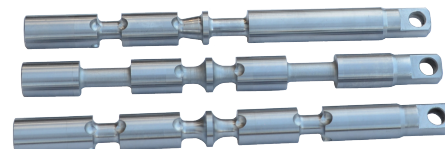
**Metering  
Air-Shift Kit**



**Air Shift  
ON/OFF**

# Spools

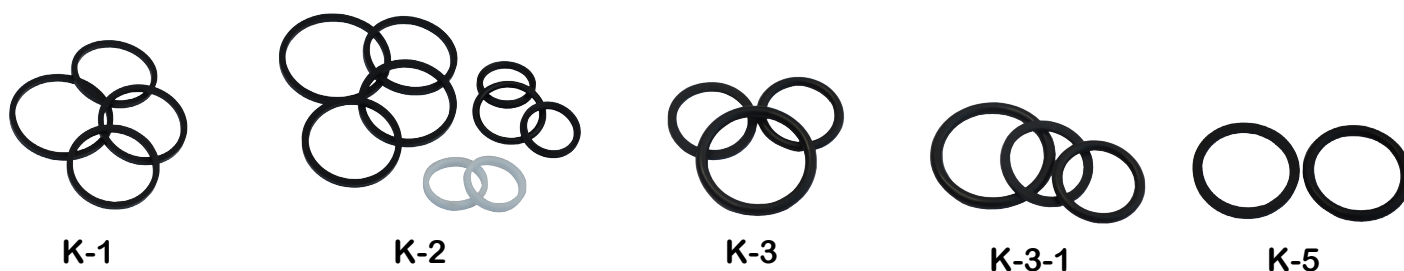
| Part Number | Replacement for | Description                        |
|-------------|-----------------|------------------------------------|
| SDV40-SPL-1 | 391-1873-067    | 4 way/3 position, hold in neutral  |
| SDV40-SPL-3 | 391-1873-071    | 4 way/3 position, float in neutral |
| SDV40-SPL-5 | 391-1873-075    | 3 way/3 position, hold in neutral  |



# Seal Kits

| Part Number  | Replacement for | Kit                              | Kit Contains                    |
|--------------|-----------------|----------------------------------|---------------------------------|
| SDV40-K-1    | 391-2873-035    | Work section assembly kit        | 4 section seals                 |
| SDV40-K-2    | 391-1873-036    | Work section repair kit          | 7 seals & 2 spool support rings |
| *SDV40-K-3   | 391-1873-037    | Port relief without A/C seal kit | All replaceable seals (3 pcs)   |
| *SDV40-K-3-1 | 391-1873-042    | Port relief with A/C seal kit    | All replaceable seals (3 pcs)   |
| *SDV40-K-5   | 391-1873-039    | MRV seal kit                     | All replaceable seals (2pcs)    |

Note: \* Not stock item. Please contact us for available status or lead-time.



# Hand Assembly - includes linkage kit.

H style handles are for Hi-Boy sections with port relief valve on the handle side.

| Part Number | Replacement for | Handle Length | Handle Style |
|-------------|-----------------|---------------|--------------|
| SDV40-H-4   | 391-1873-061    | 8"            | Standard     |
| SDV40-H-6   | 391-1873-094    | 6"            | H            |
| SDV40-H-8   | 391-1873-062    | 8"            | H            |
| SDV40-H-10  | 391-1873-063    | 10"           | H            |



# SDV70

## Technical Data

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Construction         | Sectional                                       |
| Circuit              | Parallel/Open Center                            |
| Capacity             | SDV70: 70gpm nominal                            |
| Max Operate Pressure | 3500 psi SAE ports only                         |
| Max Tank Pressure    | 150psi                                          |
| Filtration           | 25 Micron                                       |
| Spool Force          | 50lbs Maximum                                   |
| Temperature          | -20° to 200°F (-29° to 93°C)                    |
| Seal Type            | Buna-N                                          |
| Relief Valve         | Differential type, screw adjustable             |
| Material             | Compacted graphite,<br>high strength iron alloy |

## Valve Features

- Built-in, full-flow relief valves
- Parallel/Open center standard
- Spool changeover capability for right or left hand assemblies (left hand standard)
- Transition load checks to prevent load shift between spool positions (cylinder spool only)
- Manual, hydraulic, electric or pneumatic operation
- Sectional construction for maximum flexibility
- Low internal pressure drop
- Work sections are 100% pre-assembled and pre-tested before shipping

**\*\*Series and Tandem circuits for OEM applications special order only\*\***

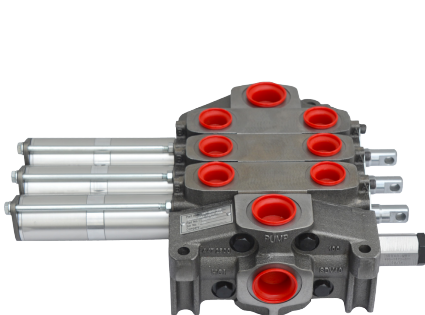
## Cross Reference

| Hyflow Controls® | Parker®              | Muncie® |
|------------------|----------------------|---------|
| SDV70            | DVA/DVG35<br>VA/VG35 | 60V     |

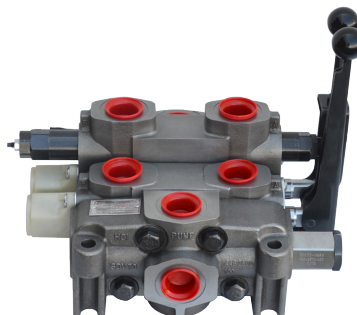
SDV70 is 100% compatible with DVA/DVG35 and 60V

## Approximate Weight (Lbs)

| Parts | Inlet | Outlet | PB Outlet | Work Section | Hi-Boy Section |
|-------|-------|--------|-----------|--------------|----------------|
| SDV70 | 13.8  | 10.7   | 11.6      | 13.7         | 19.0           |



Metering air shift

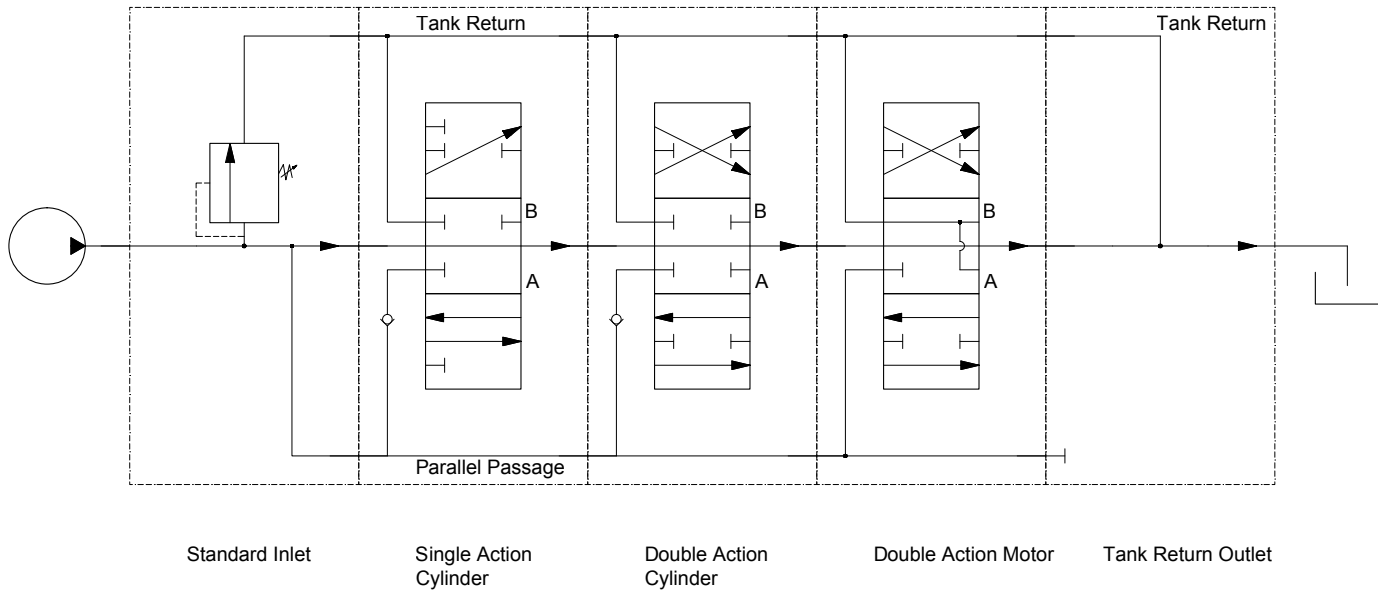


Manual handle



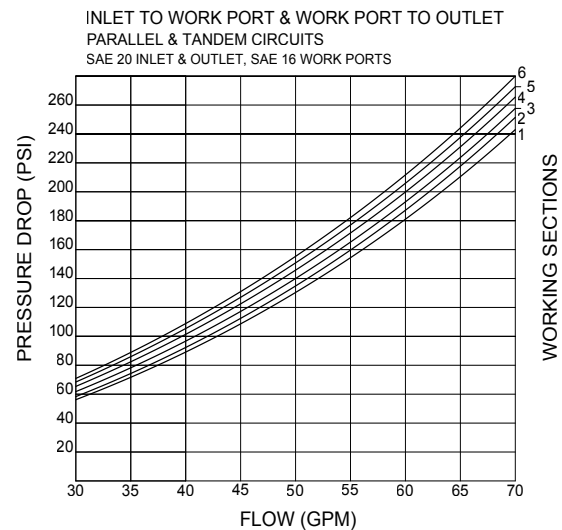
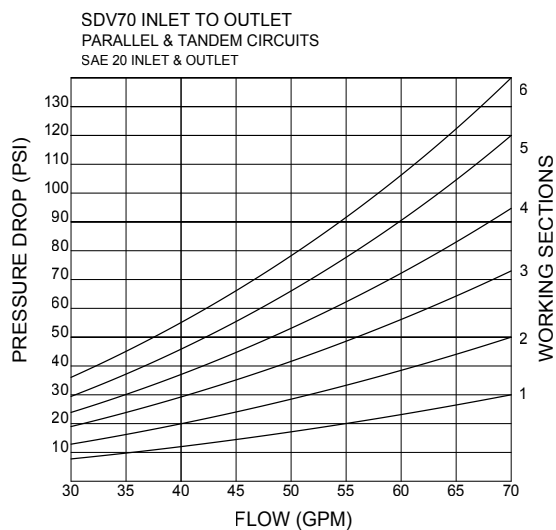
Metering hydraulic  
remote control

# Valve Assembly Schematic

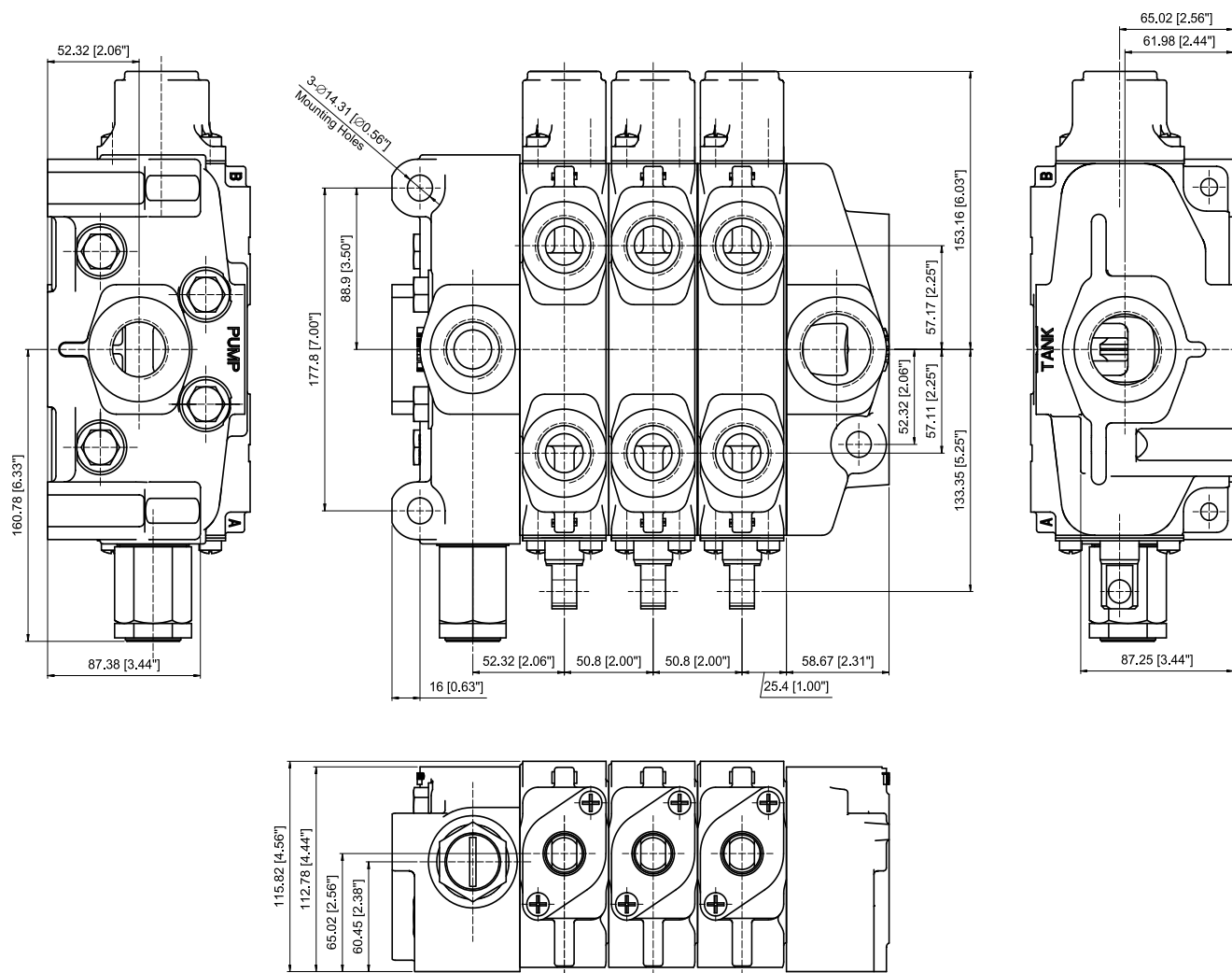


## Performance - Pressure Drops vs. Flow Rates

(all tests run at 100SSu and 120°F)

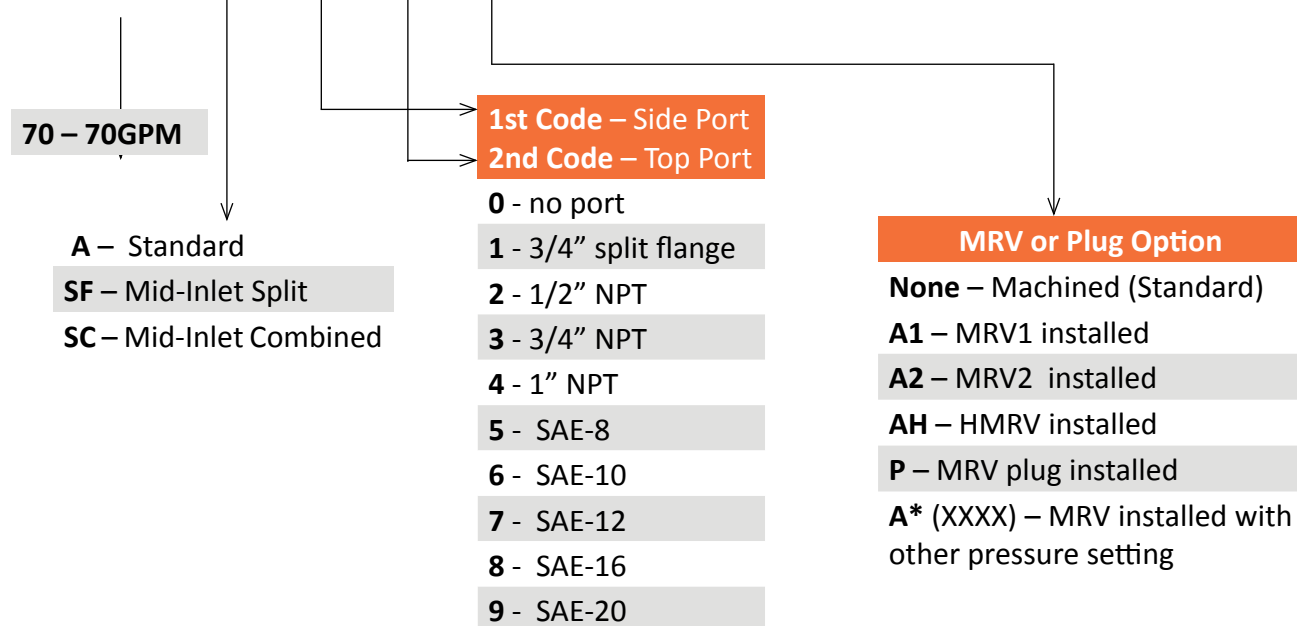


# Dimensional Data



# Inlet and Mid-Inlet Coding Table

**SDV70- A - 9 - 8 - A2**

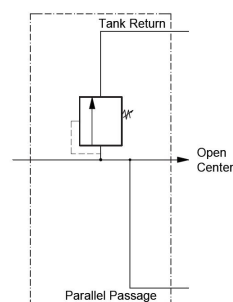


## Standard

| Part Number       | Replacement for | Replacement for | Side Port | Top Port |
|-------------------|-----------------|-----------------|-----------|----------|
| <b>*SDV70-A00</b> | 348-9175-003    | 348-9175-006    | no ports  |          |
| SDV70-A44         | 348-9175-001    |                 | 1"NPT     | 1"NPT    |
| SDV70-A88         | 348-9175-005    | 348-9175-008    | SAE-16    | SAE-16   |
| SDV70-A98         | 348-9175-002    | 348-9175-004    | SAE-20    | SAE-16   |

Includes plastic port plugs

**Note: \* Not stock items. Please contact us for available status or lead-time.**



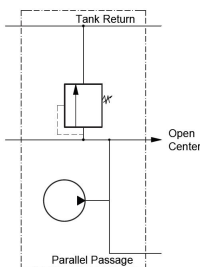
Schematic with MRV

# Mid-Inlet - Machined for MRV or MRVP.

**Combined Flow** - Combines primary & secondary pump flows for faster operating speed of downstream functions.

| Part Number  | Replacement for | Top Port |
|--------------|-----------------|----------|
| *SDV70-CFA00 | 348-9174-008    | no port  |
| SDV70-CFA40  | 348-9174-003    | 1" NPT   |
| SDV70-CFA80  | 348-9174-004    | SAE-16   |

Note: \* Special order only.

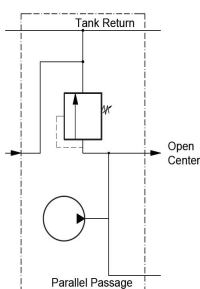


Schematic with MRV

**Split Flow** - Separates primary and secondary pump flows. One valve bank operates like two.

| Part Number  | Replacement for | Top Port |
|--------------|-----------------|----------|
| *SDV70-SFA00 | 348-9174-007    | no port  |
| SDV70-SFA40  | 348-9174-001    | 1" NPT   |
| SDV70-SFA80  | 348-9174-002    | SAE-16   |

Note: \* Special order only.



Schematic with MRV



## Main Relief Valves (MRV) Inlet - Mid-inlets differential type, screw adjustable

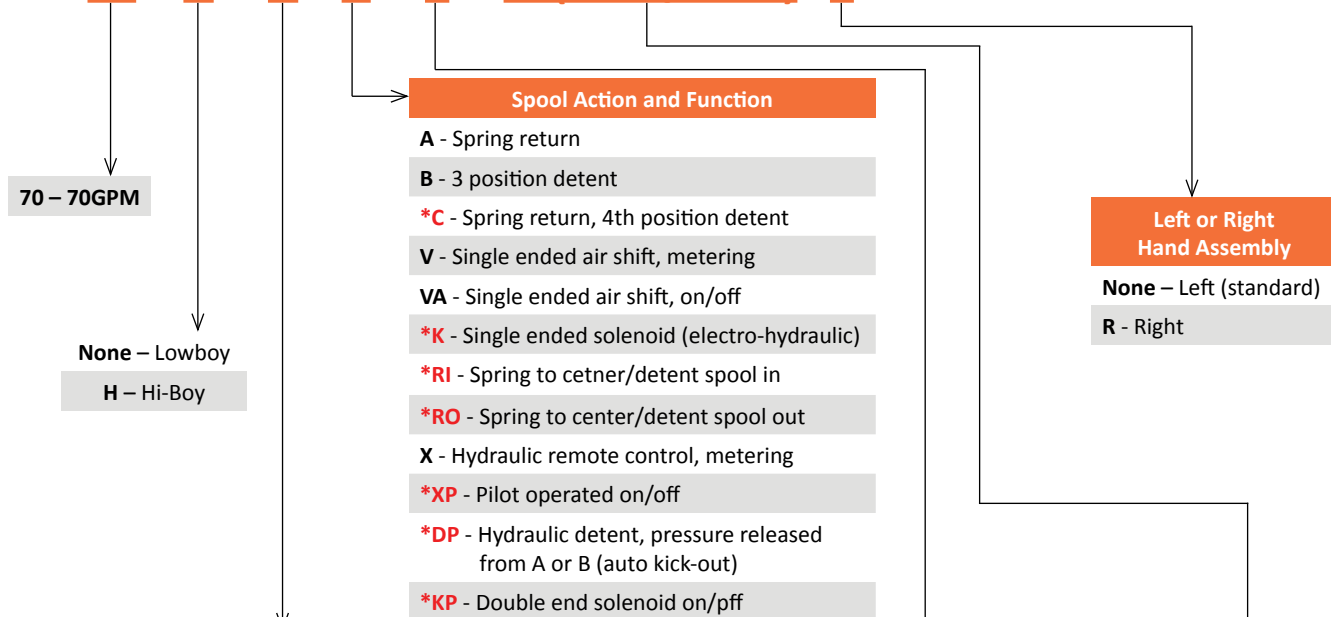


| Part Number | Replacement for | Description                             |
|-------------|-----------------|-----------------------------------------|
| SDV70-MRV1  | 391-1873-003    | 1500psi@50gpm, 800-2000psi adjustable   |
| SDV70-MRV2  | 391-1873-004    | 2500psi@50gpm, 2000-2500psi adjustable  |
| SDV70-HMRV  | 391-1873-137    | 3000psi@30gpm, 2000-3500psi adjustable  |
| SDV70-MRVP  | 391-1873-005    | Main relief valve plug with seal washer |

MRV and MRVP torque 75 ft. lbs. (900 in. lbs.)

# SDV70 Work Section Coding Table

**SDV70- H D A 7 33(2500/2500) \***



| Spool Function + Circuit |                                                  | Symbol                                          |
|--------------------------|--------------------------------------------------|-------------------------------------------------|
| <b>S</b>                 | Parallel Single acting Cylinder spool, B port    |                                                 |
| <b>*N</b>                | Parallel Single acting Motor spool, B Port       |                                                 |
| <b>D</b>                 | Parallel Double acting Cylinder spool            |                                                 |
| <b>*WHD</b>              | Series Double acting Cylinder spool Hi-boy only  | <br>Spool functions symbols for: D, WHD and TD  |
| <b>*TD</b>               | Tandem Double acting Cylinder spool              |                                                 |
| <b>M</b>                 | Parallel Double acting Motor spool               |                                                 |
| <b>*WHM</b>              | Series Double acting Motor spool Hi-boy only     | <br>Spool functions symbols for: M, WHM, and TM |
| <b>*TM</b>               | Tandem Double acting Motor spool                 |                                                 |
| <b>*T</b>                | Parallel Single acting Cylinder spool, A Port    |                                                 |
| <b>*F</b>                | Parallel Double acting 4th position detent float |                                                 |

| A & B Port Size:             |
|------------------------------|
| <b>0</b> - no port           |
| <b>1</b> - 3/4" split flange |
| <b>2</b> - 1/2" NPT          |
| <b>3</b> - 3/4" NPT          |
| <b>4</b> - 1" NPT            |
| <b>5</b> - SAE-8             |
| <b>6</b> - SAE-10            |
| <b>7</b> - SAE-12            |
| <b>8</b> - SAE-16            |
| <b>9</b> - SAE-20            |

| Hi-Boy only                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Port accessory relief valve                                                                                                                                            |
| <b>1st code</b> - A port                                                                                                                                               |
| <b>2nd code</b> - B port                                                                                                                                               |
| <b>None or 5</b> - machined with plastic port covers (standard)                                                                                                        |
| <b>0</b> - Not machined                                                                                                                                                |
| <b>1</b> - PRVAC - relief valve with anti-cavitation                                                                                                                   |
| <b>2</b> - AC - anti-cavitation only, screw adj.                                                                                                                       |
| <b>3</b> - PRVS relief valves, screw adj.<br>PRVS1 - 1000psi<br>PRVS2 - 2000psi<br>PRVS3 - 2500psi<br>To specify pressure setting use (XXXX) format. Example: 3 (2000) |
| <b>*4</b> - Crossover relief valve                                                                                                                                     |
| <b>6</b> - PPRVS - pilot pressure relief                                                                                                                               |
| <b>9</b> - PRVP - port relief plug                                                                                                                                     |
| When specifying relief valve pressure setting use (XXXX) format. Example: SDV40-HDA711 (2000/2000)                                                                     |

Note: \* Not stock items. Please contact us for available status or lead-time.

## Standard Work Sections

| Part Number<br>SDV70 | Replacement<br>for | 3 Way<br>3 Position<br>hold in<br>neutral | 4 Way<br>3 Position<br>hold in<br>neutral | 4 Way<br>3 Position<br>float in<br>neutral | Port<br>Size | Spring<br>Return | 3<br>Position<br>Detent | Metering<br>Hydraulic<br>Remote | Metering<br>Air Shift | On/Off<br>Air Shift | Work Port<br>Not<br>Machined |
|----------------------|--------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|--------------|------------------|-------------------------|---------------------------------|-----------------------|---------------------|------------------------------|
| <b>*DA0</b>          | 348-9172-001       |                                           | X                                         |                                            |              | X                |                         |                                 |                       |                     | X                            |
| DA4                  | 348-9172-002       |                                           | X                                         |                                            | 1" NPT       | X                |                         |                                 |                       |                     |                              |
| DA8                  | 348-9172-003       |                                           | X                                         |                                            | SAE-16       | X                |                         |                                 |                       |                     |                              |
| DB4                  | 348-9172-022       |                                           | X                                         |                                            | 1" NPT       |                  | X                       |                                 |                       |                     |                              |
| DB8                  | 348-9172-023       |                                           | X                                         |                                            | SAE-16       |                  | X                       |                                 |                       |                     |                              |
| DV4                  | 348-9172-029       |                                           | X                                         |                                            | 1" NPT       |                  |                         |                                 | X                     |                     |                              |
| DV8                  | 348-9172-030       |                                           | X                                         |                                            | SAE-16       |                  |                         |                                 | X                     |                     |                              |
| DVA4                 |                    |                                           | X                                         |                                            | 1" NPT       |                  |                         |                                 |                       | X                   |                              |
| DVA8                 |                    |                                           | X                                         |                                            | SAE-16       |                  |                         |                                 |                       | X                   |                              |
| DX4                  | 348-9172-039       |                                           | X                                         |                                            | 1" NPT       |                  |                         | X                               |                       |                     |                              |
| DX8                  | 348-9172-040       |                                           | X                                         |                                            | SAE-16       |                  |                         | X                               |                       |                     |                              |
| <b>*MA0</b>          | 348-9172-004       |                                           |                                           | X                                          |              | X                |                         |                                 |                       |                     | X                            |
| MA4                  | 348-9172-005       |                                           |                                           | X                                          | 1" NPT       | X                |                         |                                 |                       |                     |                              |
| MA8                  | 348-9172-006       |                                           |                                           | X                                          | SAE-16       | X                |                         |                                 |                       |                     |                              |
| MB4                  | 348-9172-081       |                                           |                                           | X                                          | 1" NPT       |                  | X                       |                                 |                       |                     |                              |
| MB8                  | 348-9172-082       |                                           |                                           | X                                          | SAE-16       |                  | X                       |                                 |                       |                     |                              |
| MV4                  |                    |                                           |                                           | X                                          | 1" NPT       |                  |                         |                                 | X                     |                     |                              |
| MV8                  |                    |                                           |                                           | X                                          | SAE-16       |                  |                         |                                 | X                     |                     |                              |
| MVA4                 |                    |                                           |                                           | X                                          | 1" NPT       |                  |                         |                                 |                       | X                   |                              |
| MVA8                 |                    |                                           |                                           | X                                          | SAE-16       |                  |                         |                                 |                       | X                   |                              |
| MX4                  | 348-9172-058       |                                           |                                           | X                                          | 1" NPT       |                  |                         | X                               |                       |                     |                              |
| MX8                  | 348-9172-059       |                                           |                                           | X                                          | SAE-16       |                  |                         | X                               |                       |                     |                              |
| SA4                  | 348-9171-002       | X                                         |                                           |                                            | 1" NPT       | X                |                         |                                 |                       |                     |                              |
| SA8                  | 348-9171-003       | X                                         |                                           |                                            | SAE-16       | X                |                         |                                 |                       |                     |                              |
| SB4                  | 348-9171-007       | X                                         |                                           |                                            | 1" NPT       |                  | X                       |                                 |                       |                     |                              |
| SB8                  | 348-9171-017       | X                                         |                                           |                                            | SAE-16       |                  | X                       |                                 |                       |                     |                              |
| SV4                  | 348-9171-018       | X                                         |                                           |                                            | 1" NPT       |                  |                         |                                 | X                     |                     |                              |
| SV8                  | 348-9171-016       | X                                         |                                           |                                            | SAE-16       |                  |                         |                                 | X                     |                     |                              |
| SVA4                 |                    | X                                         |                                           |                                            | 1" NPT       |                  |                         |                                 |                       | X                   |                              |
| SVA8                 |                    | X                                         |                                           |                                            | SAE-16       |                  |                         |                                 |                       | X                   |                              |
| SX4                  |                    | X                                         |                                           |                                            | 1" NPT       | X                |                         | X                               |                       |                     |                              |
| SX8                  | 348-9101-083       | X                                         |                                           |                                            | SAE-16       | X                |                         | X                               |                       |                     |                              |

Note: \* Not stock item. Please contact us for available status or lead-time.

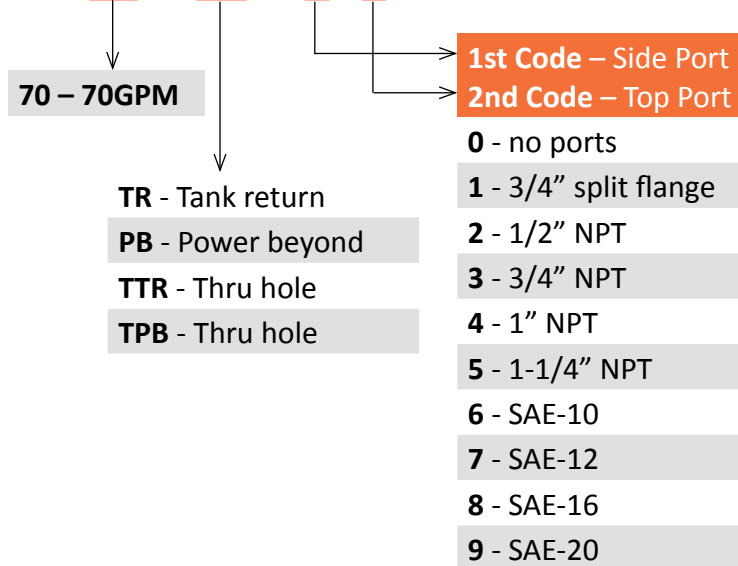
## Hi-Boy Work Sections

| Part Number<br>SDV70 | Replacement<br>for | 3 Way<br>3 Position<br>hold in<br>neutral | 4 Way<br>3 Position<br>hold in<br>neutral | 4 Way<br>3 Position<br>float in<br>neutral | Port<br>Size | Spring<br>Return | 3<br>Position<br>Detent | Metering<br>Hydraulic<br>Remote | Metering<br>Air<br>Shift | On/Off<br>Air Shift | Work Port<br>Not<br>Machined |
|----------------------|--------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|--------------|------------------|-------------------------|---------------------------------|--------------------------|---------------------|------------------------------|
| <b>*HDA0</b>         | 348-9172-007       |                                           | X                                         |                                            |              | X                |                         |                                 |                          |                     | X                            |
| HDA4                 | 348-9172-008       |                                           | X                                         |                                            | 1" NPT       | X                |                         |                                 |                          |                     |                              |
| HDA8                 | 348-9172-009       |                                           | X                                         |                                            | SAE-16       | X                |                         |                                 |                          |                     |                              |
| HDB4                 | 348-9172-013       |                                           | X                                         |                                            | 1" NPT       |                  | X                       |                                 |                          |                     |                              |
| HDB8                 | 348-9172-014       |                                           | X                                         |                                            | SAE-16       |                  | X                       |                                 |                          |                     |                              |
| HDV4                 | 348-9172-020       |                                           | X                                         |                                            | 1" NPT       |                  |                         |                                 | X                        |                     |                              |
| HDV8                 | 348-9172-021       |                                           | X                                         |                                            | SAE-16       |                  |                         |                                 | X                        |                     |                              |
| HDVA4                |                    |                                           | X                                         |                                            | 1" NPT       |                  |                         |                                 |                          | X                   |                              |
| HDVA8                |                    |                                           | X                                         |                                            | SAE-16       |                  |                         |                                 |                          | X                   |                              |
| HDX4                 | 348-9172-175       |                                           | X                                         |                                            | 1" NPT       |                  |                         | X                               |                          |                     |                              |
| HDX8                 | 348-9172-038       |                                           | X                                         |                                            | SAE-16       |                  |                         | X                               |                          |                     |                              |
| <b>*HMA0</b>         |                    |                                           |                                           | X                                          |              | X                |                         |                                 |                          |                     | X                            |
| HMA4                 | 348-9172-011       |                                           |                                           | X                                          | 1" NPT       | X                |                         |                                 |                          |                     |                              |
| HMA8                 | 348-9172-012       |                                           |                                           | X                                          | SAE-16       | X                |                         |                                 |                          |                     |                              |
| HMB4                 | 348-9172-062       |                                           |                                           | X                                          | 1" NPT       |                  | X                       |                                 |                          |                     |                              |
| HMB8                 | 348-9172-063       |                                           |                                           | X                                          | SAE-16       |                  | X                       |                                 |                          |                     |                              |
| HMV4                 | 348-9172-126       |                                           |                                           | X                                          | 1" NPT       |                  |                         |                                 | X                        |                     |                              |
| HMV8                 | 348-9172-066       |                                           |                                           | X                                          | SAE-16       |                  |                         |                                 | X                        |                     |                              |
| HMVA4                |                    |                                           |                                           | X                                          | 1" NPT       |                  |                         |                                 |                          | X                   |                              |
| HMVA8                |                    |                                           |                                           | X                                          | SAE-16       |                  |                         |                                 |                          | X                   |                              |
| HMX4                 | 348-9172-072       |                                           |                                           | X                                          | 1" NPT       |                  |                         | X                               |                          |                     |                              |
| HMX8                 | 348-9172-068       |                                           |                                           | X                                          | SAE-16       |                  |                         | X                               |                          |                     |                              |
| HSA4                 | 348-9171-005       | X                                         |                                           |                                            | 1" NPT       | X                |                         |                                 |                          |                     |                              |
| HSA8                 | 348-9171-006       | X                                         |                                           |                                            | SAE-16       | X                |                         |                                 |                          |                     |                              |
| HSB4                 | 348-9172-060       | X                                         |                                           |                                            | 1" NPT       |                  | X                       |                                 |                          |                     |                              |
| HSB8                 | 348-9172-061       | X                                         |                                           |                                            | SAE-16       |                  | X                       |                                 |                          |                     |                              |
| HSV4                 |                    | X                                         |                                           |                                            | 1" NPT       |                  |                         |                                 | X                        |                     |                              |
| HSV8                 |                    | X                                         |                                           |                                            | 1" NPT       |                  |                         |                                 | X                        |                     |                              |
| HSVA4                |                    | X                                         |                                           |                                            | SAE-16       |                  |                         |                                 |                          | X                   |                              |
| HSVA8                |                    | X                                         |                                           |                                            | SAE-16       |                  |                         |                                 |                          | X                   |                              |
| HSX4                 |                    | X                                         |                                           |                                            | 1" NPT       | X                |                         | X                               |                          |                     |                              |
| HSX8                 |                    | X                                         |                                           |                                            | SAE-16       | X                |                         | X                               |                          |                     |                              |

Note: \* Not stock item. Please contact us for available status or lead-time.

# Outlet - Coding Table

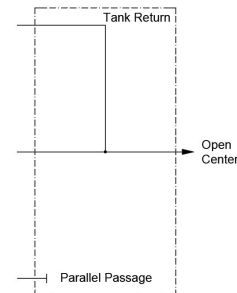
**SDV70 - TR - 5 5**



## Tank Return

| Part Number  | Replacement for | Side Port  | Top Port   |
|--------------|-----------------|------------|------------|
| *SDV70-TR00  | 348-9176-006    | no ports   |            |
| SDV70-TR55   | 348-9176-001    | 1-1/4" NPT | 1-1/4" NPT |
| SDV70-TR99   | 348-9176-002    | SAE-20     | SAE-20     |
| *SDV70-TTR00 | 348-9176-010    | no ports   |            |
| SDV70-TTR99  | 348-9176-007    | SAE-20     | SAE-20     |

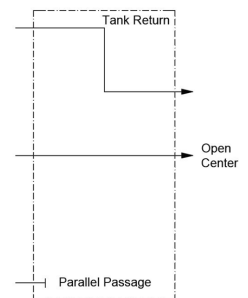
**Note: \* Special order only.**  
**SDV70 - TTR00,TTR99 - 3500psi**



## Power Beyond

| Part Number  | Replacement for | Side Port LP | Side Port HP | Top Port LP | Top Port HP |
|--------------|-----------------|--------------|--------------|-------------|-------------|
| *SDV70-PB00  | 348-9176-009    | no ports     |              |             |             |
| SDV70-PB09   | 348-9176-005    | no port      | no port      | SAE-20      | SAE-20      |
| SDV70-PB55   | 348-9176-003    | 1-1/4" NPT   | 1-1/4" NPT   | 1-1/4" NPT  | 1-1/4" NPT  |
| SDV70-PB90   | 348-9176-004    | SAE-20       | SAE-20       | no port     | no port     |
| SDV70-PB99   | 348-0176-012    | SAE-20       | SAE-20       | SAE-20      | SAE-20      |
| *SDV70-TPB00 | 348-9176-011    | no ports     |              |             |             |
| SDV70-TPB99  | 348-9176-008    | SAE-20       | SAE-20       | SAE-20      | SAE-20      |

**Note: \* Special order only.**  
**SDV40 - TPB00,TPB99 - 3500psi**



## Stud Kits



## Thru Hole Stud Kits



| Part Number | Replacement for |
|-------------|-----------------|
| SDV70-SK-1  | 391-1873-053    |
| SDV70-SK-2  | 391-1873-054    |
| SDV70-SK-3  | 391-1873-055    |
| SDV70-SK-4  | 391-1873-056    |
| SDV70-SK-5  | 391-1873-057    |
| SDV70-SK-6  | 391-1873-058    |
| SDV70-SK-7  | 391-1873-059    |
| SDV70-SK-8  | 391-1873-060    |

SK studs - torque 42ft. lbs. (504in. lbs.)

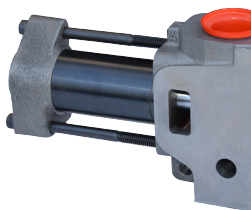
| Part Number | Replacement for |
|-------------|-----------------|
| SDV70-TSK-1 | 391-1873-138    |
| SDV70-TSK-2 | 391-1873-139    |
| SDV70-TSK-3 | 391-1873-140    |
| SDV70-TSK-4 | 391-1873-141    |
| SDV70-TSK-5 | 391-1873-142    |
| SDV70-TSK-6 | 391-1873-143    |
| SDV70-TSK-7 | 391-1873-144    |
| SDV70-TSK-8 | 391-1873-145    |

TSK studs - torque 75ft. lbs. (900in. lbs.)

## Work Section Spool Actuation Kits

| Part Number   | Replacement for | Function                       |
|---------------|-----------------|--------------------------------|
| SDV70-K-200   | 391-1873-026    | Spring return                  |
| SDV70-K201    | 391-1873-027    | 3 position detent              |
| *SDV70-K-206  | 391-1873-033    | Single ended DA solenoid 12VDC |
| SDV70-K-209   | 391-1873-170    | Metering hyd remote control    |
| *SDV70-K-210  | 391-1873-171    | Pilot on/off control           |
| *SDV70-K-211  | 391-1873-092    | Double ended DA solenoid 12VDC |
| *SDV70-K-212  | 391-1873-175    | Single ended DA solenoid 24VDC |
| SDV70-K-213   | 391-1873-203    | Metering air shift             |
| *SDV70-K-213A |                 | Airshift on/off                |
| *SDV70-K-230  | 391-1872-023    | Detent in/out auto kick out    |

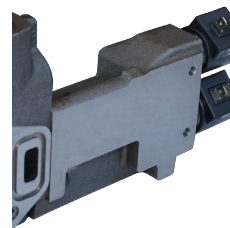
Note: \* Not stock item. Please contact us for available status or lead-time.



**Metering Hydraulic  
Remote Control Kit**



**Pressure Kick-out**



**Single Ended DA  
Solenoid Kit**



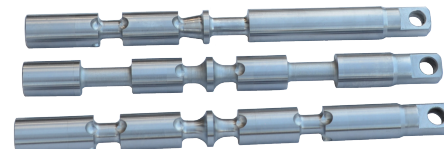
**Metering  
Air-Shift Kit**



**Air Shift  
ON/OFF**

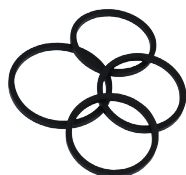
# Spools

| Part Number  | Replacement for | Description                        |
|--------------|-----------------|------------------------------------|
| SDV70-SPL-11 | 391-1873-068    | 4 way/3 position, hold in neutral  |
| SDV70-SPL-13 | 391-1873-068    | 4 way/3 position, float in neutral |
| SDV70-SPL-15 | 391-1873-076    | 3 way/3 position, hold in neutral  |

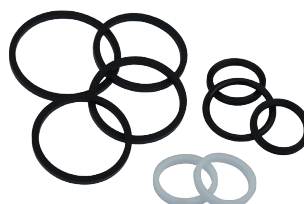


# Seal Kits

| Part Number | Replacement for | Kit                       | Kit Contains                    |
|-------------|-----------------|---------------------------|---------------------------------|
| SDV70-K-11  | 391-1873-040    | Work section assembly kit | 4 section seals                 |
| SDV70-K-12  | 391-1873-041    | Work section repair kit   | 7 seals & 2 spool support rings |



K-11



K-12

# Hand Assembly - includes linkage kit.

H style handles are for Hi-Boy sections with port relief valve on the handle side.

| Part Number | Replacement for | Handle Length | Handle Style |
|-------------|-----------------|---------------|--------------|
| SDV70-H-4   | 391-1873-064    | 8"            | Standard     |
| SDV70-H-6   | 391-1873-097    | 6"            | H            |
| SDV70-H-8   | 391-1873-065    | 8"            | H            |
| SDV70-H-10  | 391-1873-066    | 10"           | H            |



# Valve Accessories

| Part Number    | Replacement for | Description                                                                    |
|----------------|-----------------|--------------------------------------------------------------------------------|
| SDV-AC         | 391-1873-010    | Anti-cavitation check valve                                                    |
| SDV-PPRVS-1700 | 355-9109-027    | Pilot port relief, set at 1700psi@1gpm, 800-2500psi screw adjustable           |
| SDV-PPRVS-2000 | 355-9109-027    | Pilot port relief, set at 2000psi@1gpm, 1000-2500psi screw adjustable          |
| SDV-PRVAC      | 391-1873-006    | Port relief valve with AC, set at 2500psi@25gpm, 500-5000psi screw adjustable  |
| SDV-PRVAC-1450 | 391-1873-006    | Port relief valve with AC, set at 1450psi@25gpm, 1000-2500psi screw adjustable |
| SDV-PRVP       | 391-1873-011    | Port relief valve plug for Hi-boy                                              |
| SDV-PRVS1      | 391-1873-344    | Port relief valve, set at 1000psi@10gpm, 500-1000psi screw adjustable          |
| SDV-PRVS2      | 391-1873-345    | Port relief valve, set at 2000psi@10gpm, 1000-2500psi screw adjustable         |
| SDV-PRVS3      | 391-1873-346    | Port relief valve, set at 2500psi@10gpm, 2500-3500psi screw adjustable         |
| SDV-PRVS3-2900 | 355-1873-346    | Port relief valve set at 2900psi@10gpm, 2500-3500psi screw adjustable          |



**SDV-PPRVS**

**SDV-PRVAC**



**SDV-PRVS**



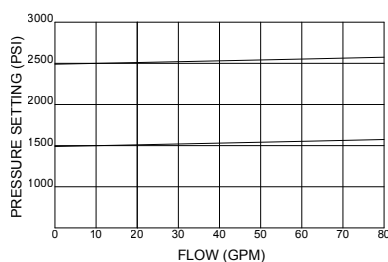
**SDV-AC**



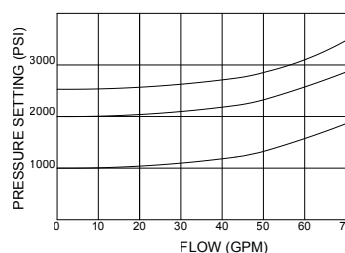
**SDV-PRVP**



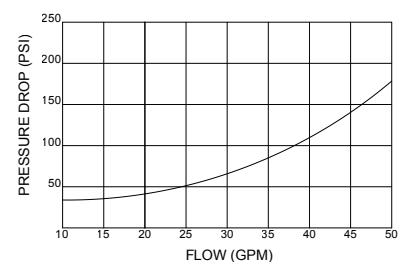
**SDV- PRVAC performance**



**SDV- PRVS performance**



**SDV-AC performance**



# Work Port Plugs

## NPT Plugs

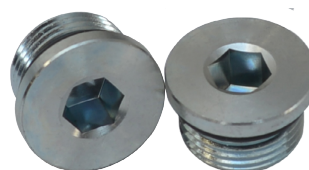
| Part Number | Size   |
|-------------|--------|
| SDV-DPL-75  | 3/4"   |
| SDV-DPL-100 | 1"     |
| SDV-DPL-125 | 1-1/4" |



NPT Plugs

## SAE Plugs - with O-rings

| Part Number   | Size             |
|---------------|------------------|
| SDV-DPL-12    | SAE-12           |
| SDV-DPL-16    | SAE-16           |
| SDV-DPL-16/25 | SAE-16/0.25" NPT |
| SDV-DPL-20    | SAE-20           |



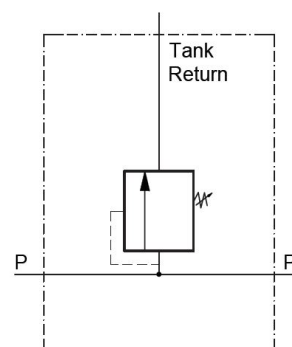
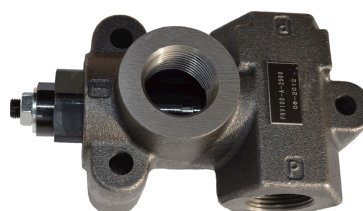
SAE Plugs

# In-line Accessories

PRV series in-line pilot-operated relief valves max 60gpm/max 5000psi

## Specifications:

|                        |                                                   |
|------------------------|---------------------------------------------------|
| Input Flow             | 60GPM                                             |
| Max Operating Pressure | 5000psi @ SAE port only                           |
| Operating Temperature  | -40°C to +95°C (-40°F to 200°F)                   |
| Material               | High strength cast iron and high grade steel      |
| Filtration             | ISO code 16/13 SAE Class 4 or better              |
| Mounting Position      | In-line. No restriction                           |
| Seal                   | Buna-N                                            |
| Cartridge Part Number  | PRVC60-A-2500<br>PRVC60-A-3000<br>Replaces RP60-A |



| Part Number   | Replacement for | Port Size | Relief Setting                 | Casting Only |
|---------------|-----------------|-----------|--------------------------------|--------------|
| PRV12-A-2500  | RPL-12-A-2500   | SAE-12    | 2500psi screw adj. 500-3500psi | B-PRV12-A    |
| PRV16-A-2500  | RPL-16-A-2500   | SAE-16    | 2500psi screw adj. 500-3500psi | B-PRV16-A    |
| PRV75-A-2500  | RPL-75-A-2500   | 3/4" NPT  | 2500psi screw adj. 500-3500psi | B-PRV75-A    |
| PRV100-A-2500 | RPL-100-A-2500  | 1" NPT    | 2500psi screw adj. 500-3500psi | B-PRV100-A   |

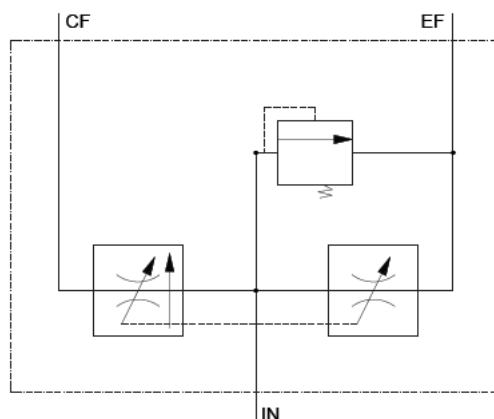
# Flow Control Valve

| Part Number | Replacement for | Port Size | Description                                                                                    |
|-------------|-----------------|-----------|------------------------------------------------------------------------------------------------|
| DSCV-N75    | 355-9201-014    | 3/4" NPT  | Deceleration speed control valve, cam operated, rated 40gpm@3500psi, max drain pressure 50psi. |



# Pressure Compensated Flow Control Valves

| Part Number   | Port Size | Flow Range (gpm) | Relief Setting (psi) | Weight (lb) |
|---------------|-----------|------------------|----------------------|-------------|
| PFCR 51-50N16 | 1/2" NPT  | 0-16             | 2250                 | 9           |
| PFCR 51-75N30 | 3/4" NPT  | 0-30             |                      | 9           |
| PFCR 51-10N16 | SAE-10    | 0-16             |                      | 9           |
| PFCR 51-12N30 | SAE-12    | 0-30             |                      | 9           |



# SDV40 Competitors Interchange Quick Reference

## SDV40 Inlets

| Part Number | DVA/DVG   | TDN          |
|-------------|-----------|--------------|
| SDV40-A00   | DVA20-A00 | 347-9175-003 |
| SDV40-A44   | DVA20-A44 | 347-9175-001 |
| SDV40-A77   | DVG20-A77 | 347-9175-004 |
| SDV40-A88-  | DVA20-A44 | 347-9175-002 |

## SDV40 Spools

| Part Number | DVA/DVG    | TDN          |
|-------------|------------|--------------|
| SDV40-SPL-1 | DV20-SPL-1 | 391-1873-067 |
| SDV40-SPL-3 | DV20-SPL-3 | 391-1873-071 |
| SDV40-SPL-5 | DV20-SPL-5 | 391-1873-075 |

## SDV40 MRV & MRV Plugs

| Part Number     | DVA/DVG    | TDN          |
|-----------------|------------|--------------|
| SDV40-MRV       | DVA20-MRV  | 391-1873-001 |
| SDV40-MRV-2200  | DVA20-MRV  | 391-1873-001 |
| SDV40-MRV-2500  | DVA20-MRV  | 391-1873-001 |
| SDV40-HMRV      | DVG20-HMRV | 391-1873-128 |
| SDV40-HMRV-2600 | DVG20-HMRV | 391-1873-128 |
| SDV40-MRVP      | DVA20-MRVP | 391-1873-002 |

## SDV40 Stud Kits

| Part Number | DVA/DVG    | TDN          |
|-------------|------------|--------------|
| SDV40-SK-1  | DVA20-SK-1 | 391-1873-045 |
| SDV40-SK-2  | DVA20-SK-2 | 391-1873-046 |
| SDV40-SK-3  | DVA20-SK-3 | 391-1873-047 |
| SDV40-SK-4  | DVA20-SK-4 | 391-1873-048 |
| SDV40-SK-5  | DVA20-SK-5 | 391-1873-049 |
| SDV40-SK-6  | DVA20-SK-6 | 391-1873-050 |
| SDV40-SK-7  | DVA20-SK-7 | 391-1873-051 |
| SDV40-SK-8  | DVA20-SK-8 | 391-1873-052 |

## SDV40 Outlets

| Part Number | DVA/DVG    | TDN          |
|-------------|------------|--------------|
| SDV40-TR00  | DVA20-TR00 | 347-9176-006 |
| SDV40-TR44  | DVA20-TR44 | 347-9176-001 |
| SDV40-TR50  | DVA20-TR50 | 347-9176-501 |
| SDV40-TR88  | DVA20-TR88 | 347-9176-002 |
| SDV40-PB00  | DVA20-PB00 | 347-9176-009 |
| SDV40-PB44  | DVA20-PB44 | 347-9176-003 |
| SDV40-PB08  | DVA20-PB08 | 347-9176-005 |
| SDV40-PB80  | DVA20-PB80 | 347-9176-004 |
| SDV40-PB88  | DVA20-PB88 | 347-9173-007 |

## SDV40 Spools Actuation Kits

| Part Number | DVA/DVG    | TDN          |
|-------------|------------|--------------|
| SDV40-K-100 | DV20-K-100 | 391-1873-019 |
| SDV40-K-101 | DV20-K-101 | 391-1873-020 |
| SDV40-K-109 | DV20-K-109 | 391-1873-173 |
| SDV40-K-113 | DV20-K-113 | 391-1873-206 |

## SDV40 Handles

| Part Number | DVA/DVG   | TDN          |
|-------------|-----------|--------------|
| SDV40-H-4   | DV20-H-4  | 391-1873-094 |
| SDV40-H-6   | DV20-H-6  | 391-1873-061 |
| SDV40-H-8   | DV20-H-8  | 391-1873-062 |
| SDV40-H-10  | DV20-H-10 | 391-1873-063 |

## Work Sections

| Part Number | DVA          | DVG          |
|-------------|--------------|--------------|
| SDV40-DA0   | 347-9172-001 | 347-9172-051 |
| SDV40-DA3   | 347-9172-002 |              |
| SDV40-DA7   | 347-9172-003 | 347-9172-052 |
| SDV40-DB3   | 347-9172-026 |              |
| SDV40-DB7   | 347-9172-027 | 347-9172-064 |
| SDV40-DV3   | 347-9172-033 |              |
| SDV40-DV7   | 347-9172-034 | 347-9172-067 |
| SDV40-DX3   | 347-9172-043 |              |
| SDV40-DX7   | 347-9172-044 | 347-9172-054 |
| SDV40-MA0   | 347-9172-004 |              |
| SDV40-MA3   | 347-9172-005 |              |
| SDV40-MA7   | 347-9172-006 | 347-9172-053 |
| SDV40-MB3   | 347-9172-039 |              |
| SDV40-MB7   | 347-9172-040 | 347-9172-065 |
| SDV40-MV3   | 347-9172-136 |              |
| SDV40-MV7   | 347-9172-137 |              |
| SDV40-MX3   | 347-9172-062 |              |
| SDV40-MX7   | 347-9172-063 | 347-9172-066 |
| SDV40-SA3   | 347-9171-002 |              |
| SDV40-SA7   | 347-9171-003 |              |
| SDV40-SB3   | 347-9101-002 |              |
| SDV40-SB7   | 347-9101-179 |              |
| SDV40-SV3   | 347-9101-129 |              |
| SDV40-SV7   | 347-9171-018 |              |
| SDV40-SX3   |              |              |
| SDV40-SX7   | 347-9101-161 |              |

## Hi-boy Sections

| Part Number | DVA          | DVG          |
|-------------|--------------|--------------|
| SDV40-HDA0  | 347-9172-007 | 347-9172-079 |
| SDV40-HDA3  | 347-9172-008 |              |
| SDV40-HDA7  | 347-9172-009 | 347-9172-056 |
| SDV40-HDB3  | 347-9172-017 |              |
| SDV40-HDB7  | 347-9172-018 | 347-9172-069 |
| SDV40-HDV3  | 347-9172-024 |              |
| SDV40-HDV7  | 347-9172-025 | 347-9172-081 |
| SDV40-HDX3  | 347-9172-045 |              |
| SDV40-HDX7  | 347-9172-046 | 347-9172-058 |
| SDV40-HMA0  | 347-9172-010 |              |
| SDV40-HMA3  | 347-9172-011 |              |
| SDV40-HMA7  | 347-9172-012 | 347-9172-057 |
| SDV40-HMB3  | 347-9172-177 |              |
| SDV40-HMB7  | 347-9172-178 | 347-9172-070 |
| SDV40-HMV3  | 347-9172-126 |              |
| SDV40-HMV7  | 347-9172-127 |              |
| SDV40-HMX3  | 347-9172-072 |              |
| SDV40-HMX7  | 347-9172-073 | 347-9172-071 |
| SDV40-HSA3  | 347-9171-005 |              |
| SDV40-HSA7  | 347-9171-006 | 347-9171-007 |
| SDV40-HSB3  | 347-9171-010 |              |
| SDV40-HSB7  | 347-9171-012 |              |
| SDV40-HSV3  | 347-9171-011 |              |
| SDV40-HSV7  | 347-9171-011 |              |
| SDV40-HSX3  |              |              |
| SDV40-HSX7  |              |              |

# SDV70 Competitors Interchange Quick Reference

## SDV70 Inlets

| Part Number | DVA/DVG   | TDN          |
|-------------|-----------|--------------|
| SDV70-A00   | DVA35-A00 | 348-9175-003 |
| SDV70-A44   | DVA35-A44 | 348-9175-001 |
| SDV70-A88   | DVA35-A88 | 348-9175-005 |
| SDV70-A98   | DVA35-A98 | 348-9175-002 |

## SDV70 Spools

| Part Number  | DVA/DVG     | TDN          |
|--------------|-------------|--------------|
| SDV70-SPL-11 | DV35-SPL-11 | 391-1873-068 |
| SDV70-SPL-13 | DV35-SPL-13 | 391-1873-072 |
| SDV70-SPL-15 | DV35-SPL-15 | 391-1873-076 |

## SDV70 MRV & MRV Plugs

| Part Number | DVA/DVG    | TDN          |
|-------------|------------|--------------|
| SDV70-MRV1  | DVA35-MRV1 | 391-1873-003 |
| SDV70-MRV2  | DVA35-MRV2 | 391-1873-004 |
| SDV70-HMRV  | DVG35-HMRV | 391-1973-137 |
| SDV70-MRVP  | DVA35-MRVP | 391-1873-005 |

## SDV70 Stud Kits

| Part Number | DVA/DVG    | TDN          |
|-------------|------------|--------------|
| SDV70-SK-1  | DVA35-SK-1 | 391-1873-053 |
| SDV70-SK-2  | DVA35-SK-2 | 391-1873-054 |
| SDV70-SK-3  | DVA35-SK-3 | 391-1873-055 |
| SDV70-SK-4  | DVA35-SK-4 | 391-1873-056 |
| SDV70-SK-5  | DVA35-SK-5 | 391-1873-057 |
| SDV70-SK-6  | DVA35-SK-6 | 391-1873-058 |
| SDV70-SK-7  | DVA35-SK-7 | 391-1873-059 |
| SDV70-SK-8  | DVA35-SK-8 | 391-1873-060 |

## SDV70 Outlets

| Part Number | DVA/DVG    | TDN          |
|-------------|------------|--------------|
| SDV70-TR00  | DVA35-TR00 | 348-9176-006 |
| SDV70-TR55  | DVA35-TR55 | 348-9176-001 |
| SDV70-TR99  | DVA35-TR99 | 348-9176-002 |
| SDV70-PB00  | DVA35-PB00 | 348-9176-009 |
| SDV70-PB55  | DVA35-PB55 | 348-9176-003 |
| SDV70-PB09  | DVA35-PB09 | 348-9176-005 |
| SDV70-PB90  | DVA35-PB90 | 348-9176-004 |
| SDV70-PB99  | DVA35-PB99 | 348-9176-012 |

## SDV70 Spools Actuation Kits

| Part Number | DVA/DVG    | TDN          |
|-------------|------------|--------------|
| SDV70-K-200 | DV35-K-200 | 391-1873-026 |
| SDV70-K-201 | DV35-K-201 | 391-1873-027 |
| SDV70-K-209 | DV35-K-209 | 391-1873-170 |
| SDV70-K-213 | DV35-K-213 | 391-1873-203 |

## SDV70 Handles

| Part Number | DVA/DVG   | TDN          |
|-------------|-----------|--------------|
| SDV70-H-4   | DV35-H-4  | 391-1873-097 |
| SDV70-H-6   | DV35-H-6  | 391-1873-064 |
| SDV70-H-8   | DV35-H-8  | 391-1873-065 |
| SDV70-H-10  | DV35-H-10 | 391-1873-066 |

## Work Sections

| Part Number | DVA          | DVG          |
|-------------|--------------|--------------|
| SDV70-DA0   | 348-9172-001 | 348-9172-047 |
| SDV70-DA4   | 348-9172-002 |              |
| SDV70-DA8   | 348-9172-003 | 348-9172-048 |
| SDV70-DB4   | 348-9172-022 |              |
| SDV70-DB8   | 348-9172-023 |              |
| SDV70-DV4   | 348-9172-029 |              |
| SDV70-DV8   | 348-9172-030 |              |
| SDV70-DX4   | 348-9172-039 |              |
| SDV70-DX8   | 348-9172-040 | 348-9172-050 |
| SDV70-MA0   | 348-9172-004 |              |
| SDV70-MA4   | 348-9172-005 |              |
| SDV70-MA8   | 348-9172-006 | 348-9172-049 |
| SDV70-MB4   | 348-9172-081 |              |
| SDV70-MB8   | 348-9172-082 |              |
| SDV70-MV4   |              |              |
| SDV70-MV8   |              |              |
| SDV70-MX4   | 348-9172-058 |              |
| SDV70-MX8   | 348-9172-059 |              |
| SDV70-SA4   | 348-9171-002 |              |
| SDV70-SA8   | 348-9171-003 |              |
| SDV70-SB4   | 348-9171-007 |              |
| SDV70-SB8   | 348-9171-017 |              |
| SDV70-SV4   | 348-9171-018 |              |
| SDV70-SV8   | 348-9171-016 |              |
| SDV70-SX4   |              |              |
| SDV70-SX8   | 348-9101-083 |              |

## Hi-boy Sections

| Part Number | DVA          | DVG          |
|-------------|--------------|--------------|
| SDV70-HDA0  | 348-9172-007 | 348-9172-070 |
| SDV70-HDA4  | 348-9172-008 |              |
| SDV70-HDA8  | 348-9172-009 | 348-9172-052 |
| SDV70-HDB4  | 348-9172-013 |              |
| SDV70-HDB8  | 348-9172-014 | 348-9172-072 |
| SDV70-HDV4  | 348-9172-020 |              |
| SDV70-HDV8  | 348-9172-021 | 348-9172-075 |
| SDV70-HDX4  | 348-9172-175 |              |
| SDV70-HDX8  | 348-9172-038 | 348-9172-054 |
| SDV70-HMA4  | 348-9172-011 |              |
| SDV70-HMA8  | 348-9172-012 | 348-9172-053 |
| SDV70-HMB4  | 348-9172-062 |              |
| SDV70-HMB8  | 348-9172-063 | 348-9172-071 |
| SDV70-HMV4  | 348-9172-126 |              |
| SDV70-HMV8  | 348-9172-066 | 348-9172-074 |
| SDV70-HMX4  | 348-9172-072 |              |
| SDV70-HMX8  | 348-9172-068 | 348-9172-076 |
| SDV70-HSA4  | 348-9171-005 |              |
| SDV70-HSA8  | 348-9171-006 | 348-9171-011 |
| SDV70-HSB4  | 348-9171-009 |              |
| SDV70-HSB8  | 348-9171-010 |              |
| SDV70-HSV4  |              |              |
| SDV70-HSV8  |              |              |
| SDV70-HSX4  |              |              |
| SDV70-HSX8  |              |              |

# Valve Assembly Form

|                      |                              |
|----------------------|------------------------------|
| <b>Company:</b>      | <b>Phone:</b>                |
| <b>Address:</b>      | <b>Email:</b>                |
| <b>Main Contact:</b> | <b>Customer Part Number:</b> |

**Model:** SDV40 ☐ SDV70 ☐

**Assembly Direction:** Left ☐ Right ☐

## Inlet

**Main Relief:** Yes ☐ No ☐

Set at \_\_\_\_\_ PSI

**Porting** (SAE - NPT)

Top: Type \_\_\_\_\_ Size \_\_\_\_\_

Side: Type \_\_\_\_\_ Size \_\_\_\_\_

## Outlet

**Type:**

Tank Return ☐ Power Beyond ☐

Thru Hole ☐ Thru Hole ☐

**Porting** (SAE - NPT)

Top: Type \_\_\_\_\_ Size \_\_\_\_\_

Side: Type \_\_\_\_\_ Size \_\_\_\_\_

Top/Side: Type \_\_\_\_\_ Size \_\_\_\_\_

## Handles

Yes ☐ No ☐

(Please Circle Number)

**Standard** handles at section number:

**1 2 3 4 5 6 7 8**

**H** handles at section number:

**1 2 3 4 5 6 7 8**

## Work Sections

|                               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------------------|---|---|---|---|---|---|---|---|
| Parallel                      |   |   |   |   |   |   |   |   |
| Series                        |   |   |   |   |   |   |   |   |
| Double Acting<br>4 Way/ 3 Pos |   |   |   |   |   |   |   |   |
| Single Acting<br>3 Way/3 Pos  |   |   |   |   |   |   |   |   |
| Cylinder Spool                |   |   |   |   |   |   |   |   |
| Motor Spool                   |   |   |   |   |   |   |   |   |
| A/B Port Size                 |   |   |   |   |   |   |   |   |

## Spool Actuation

|                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|---|---|---|---|---|---|---|---|
| Spring Return        |   |   |   |   |   |   |   |   |
| 3 Pos Detent         |   |   |   |   |   |   |   |   |
| Hyd. Remote<br>Meter |   |   |   |   |   |   |   |   |
| Hyd. Pilot<br>ON/OFF |   |   |   |   |   |   |   |   |
| Air Remote<br>Meter  |   |   |   |   |   |   |   |   |
| Solenoid<br>12VDC    |   |   |   |   |   |   |   |   |
| Other                |   |   |   |   |   |   |   |   |

## Hi-boy Port Accessories

|                               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------------------|---|---|---|---|---|---|---|---|
| Anti-Cavitation<br>A<br>B     |   |   |   |   |   |   |   |   |
| PRVAC<br>____ PSI<br>A<br>B   |   |   |   |   |   |   |   |   |
| PRVS<br>____ PSI<br>A<br>B    |   |   |   |   |   |   |   |   |
| Plugged<br>____ PSI<br>A<br>B |   |   |   |   |   |   |   |   |

## Mid-Inlets

|                                                                        | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------------------------------------------------------------|---|---|---|---|---|---|---|---|
| Split Flow                                                             |   |   |   |   |   |   |   |   |
| Comb Flow                                                              |   |   |   |   |   |   |   |   |
| Main R/V                                                               |   |   |   |   |   |   |   |   |
| Main R/V Plug                                                          |   |   |   |   |   |   |   |   |
| Port Size<br>SAE <input type="checkbox"/> NPT <input type="checkbox"/> |   |   |   |   |   |   |   |   |

**Comments:**