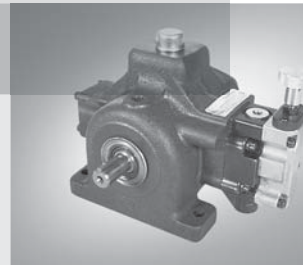


Variable volume Silentvane pumps

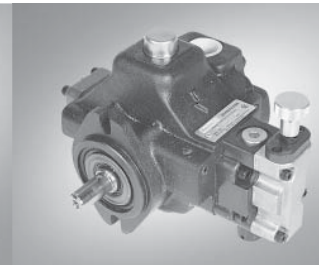
9 535 233 264/01.06 1/8
Replaces
9 535 233 264/10.00

Models SV10 and SV15

Manifold mounted
Flange mounted
Combination capability



Model SV10
2000 PSI
7.5 GPM



Model SV15
1000 PSI
11 GPM

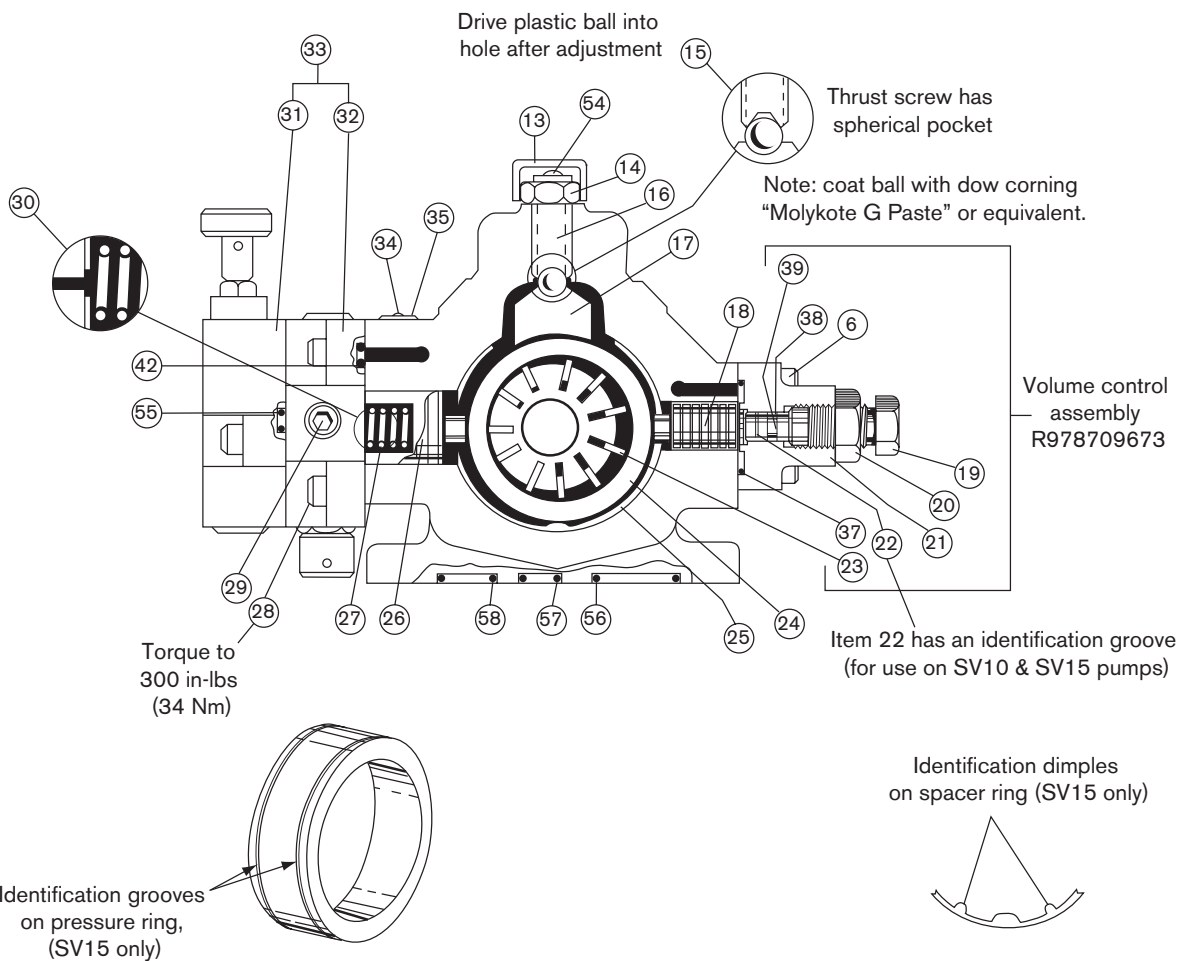
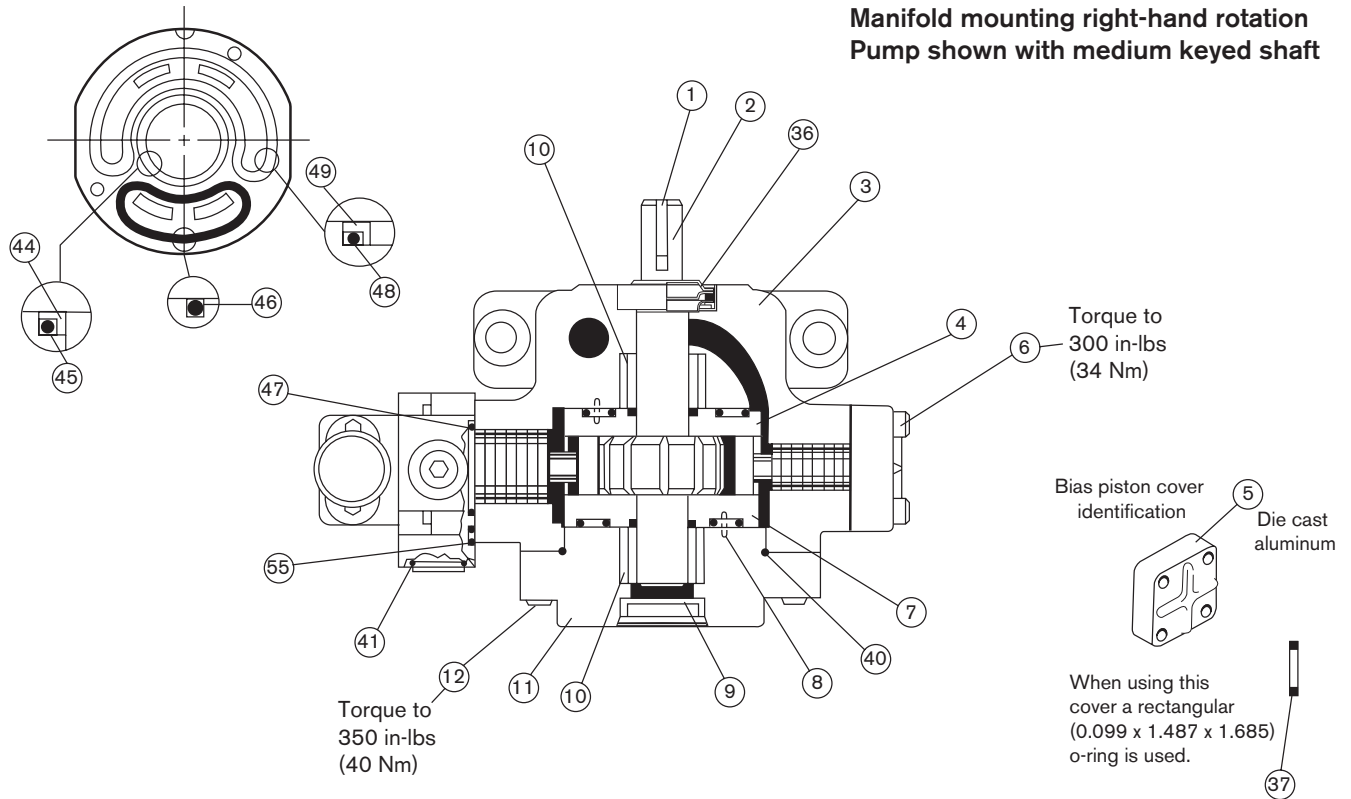
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Ordering code

PSV		-				-			-	
Hydraulic two-pressure control – normally low, energized to high pressure (phased out)		= J							50/60 =	Original design/ Combination pump
Single stage (phased out)		= K							51/61 =	2nd stage update
Load sensing flow control (phased out)		= L							52/62 =	1st & 2nd stage changes
Pressure compensator (STD)		= P							53/63 =	Sol. 2-press. control only
Solenoid two-pressure control – normally low, energized to high pressure		= S							54/64 =	Low noise port plates
Torque limiting control (phased out)		= T							55/65 =	Modified vane tip profile
No volume control		= N							56/66 =	New port plate coating
Screw volume control		= S							M =	Medium keyed shaft
Subplate		= S							D =	Thru keyed shaft
Flange, side ported (SAE straight thread)		= A							W =	Keyed shaft (metric)
Flange, rear ported (SAE straight thread) (phased out)		= B							R =	Right hand rotation
Viton seals		= F							Q =	Left hand rotation
Buna seals (phased out)		= O								Opposite drive shaft – manifold mounted (phased out)
Flow rate @1800 rpm									L =	Left hand rotation (phased out)
7.5 GPM		= 10								Pressure rating max.
11 GPM		= 15							H =	2000 PSI
									E =	1000 PSI (SV15 only)
									D =	750 PSI

Functional description – 56 Design

Manifold mounting right-hand rotation
Pump shown with medium keyed shaft

Functional description – 56 Design (cont.)

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	R978703157	Key	1 or 2	20	R978702563	Lock Nut	1
2	R978701840	Rotor Shaft, Standard	1	21	R978701183	Body, Volume Control	1
2	R978701841	Rotor Shaft, Thru (–56 design)	1	22	R978701839	Piston	1
2	R978702001	Rotor Shaft, Combination (–66 design)	1	23	R978700353	Vane (R978712784) 11 – Vane Kit	1
3	R978701225	Body, Subplate Mounted (–56 design)	1	24	R978701837	Pressure Ring	1
3	R978701233	Body, Flange Mounted (–66 design) RH –	1	24	R978701912	Pressure Ring (SV15 only)	1
4	R978701324	Port Plate, Body	1	25	R978701838	Spacer Ring	1
5	R978708987	Bias cover, Die Cast Aluminum	1	25	R978701922	Spacer Ring (SV15 only)	1
6	R978702488	Screw, 5/16-18 x 1-1/4	4	26	R978712776	Control Piston	1
7	R978701325	Port Plate, Cover	1	27	R978703189	Spring	1
8	R978702637	Roll Pin	4	**28	R978702488	Screw, 5/16-18 x 1-1/4	4
9	R978708821	Expansion Plug (–56 design)	1	28	R978708954	Screw, Ferry Head, 5/16-18 x 1-1/4	4
10	R978710265	Sleeve & Bearing Assembly	2	29	R978708950	Plug, #8 SAE	1
11	R978701226	Cover, Subplate Mounted (–56 design)	1	30	R978709174	Shim (SV15 only)	1
11	R978701238	Cover, Rear Ported SAE (–66 design)	1	31	—	Second stage of two-stage compensator	1
11	R978701258	Cover, Side Ported SAE (–66 design)	1	32	—	First stage of two-stage compensator	1
12	R978702501	Screw, 3/16-16 x 1-1/2	4	33	—	Assembly, two-stage compensator	4
13	Phased out since 2000	Cap, Thrust Screw	1	34	R978708959	Rivet, Nameplate	2
14	R978702562	Lock Nut, 5/8-18	1	35	R978708958	Nameplate	1
15	R978702580	Steel Ball	1	—	R978702547	Plug, 1/16 N.P.T.F. (Not shown)	4
*16	R978701923	Thrust Screw	1	50	R978709149	Gasket (Viton)	1
17	R978708816	Thrust Block	1	51	R978701264	End Cover	1
18	R978701836	Bias Piston	1	52	R978703142	Washer	2
19	R978701797	Adjusting Screw	1	53	R978702456	Screw, 3/8-16 x 7/8	2
				54	Phased out since 1998	Plastic Ball	1
				***59	R978702940	Plug, #4 SAE (Gage Port)	1

* Included in seal kits used for both SV10 and SV15.

** On standard Compensated and Load Sensing Compensating Pumps, this screw is used to mount the 1st stage to the pump body. All other optional compensators or controls use R978708954 ferry head cap screws.
CAUTION: Do not over torque.

*** Not shown.

† SV10/15 pumps manufactured prior to Feb. 1997 will need to order a control piston / spacer ring kit R978711861 (SV10) or R978711862 (SV15) since the newer control piston R978712776 cannot be installed with the older spacer ring.

Seal kit (Viton)

SV10/15 Single End Shaft Pumps: R978700357				SV10/15 Through Shaft Pumps: R978700358			
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
36	R978700444	Shaft Seal Assembly (R978713301)	1 or 2	47	R978703049	O-Ring, 1/16 x 1-1/2 x 1-5/8 (–029)	1
37	R978709017	O-Ring, Rectangular (Aluminum Cap)	1	48	R978708864	O-Ring, 3/32 x 3 x 3-3/16 (–151)	2
37	R978702902	O-Ring, 3/32 x 1-9/16 x 1-3/4 (–129) (Ductile Cap)	1	49	R978708945	Back-up Ring	2
38	R978703238	Back-up Ring	1	55	R978702985	O-Ring, 1/16 x 5/16 x 7/16 (–011)	4
39	R978702877	O-Ring, 1/16 x 3/8 x 1/2 (–012)	1	56	R978703072	O-Ring, 3/32 x 1-3/8 x 1-3/16 (–123)	1
40	R978708863	O-Ring, 3/32 x 3-3/4 x 3-15/16 (–154)	1	57	R978702907	O-Ring, 3/32 x 3/4 x 9/16 (–113)	1
41	R978703065	O-Ring, #8 SAE (–908)	2	58	R978702913	O-Ring, 3/32 x 1 x 13/16 (–117)	1
42	R978702985	O-Ring 1/16 x 5/16 x 7/16 (–011) (Used with powered metal body)	1	***	R978702924	O-Ring, 3/32 x 7/16 x 5/8 (–111)	1
42	R978702916	O-Ring, 1/16 x 7/16 x 9/16 (–013) (Used with the iron body)	1	***	R978703067	O-Ring, (–904)	2
44	R978708815	Back-up Ring	2	***	R978703064	O-Ring, #10 SAE (–910)	1
45	R978703265	O-Ring, 1-1/4 x 1-3/8 x 1/16 (–026)	2	***	R978708779	Back-up Ring	1
46	R978702964	O-Ring, 1-7/16 x 1-5/8 x 3/32 (–127)	2				

*** Shown on pages 5, 6, and 7.

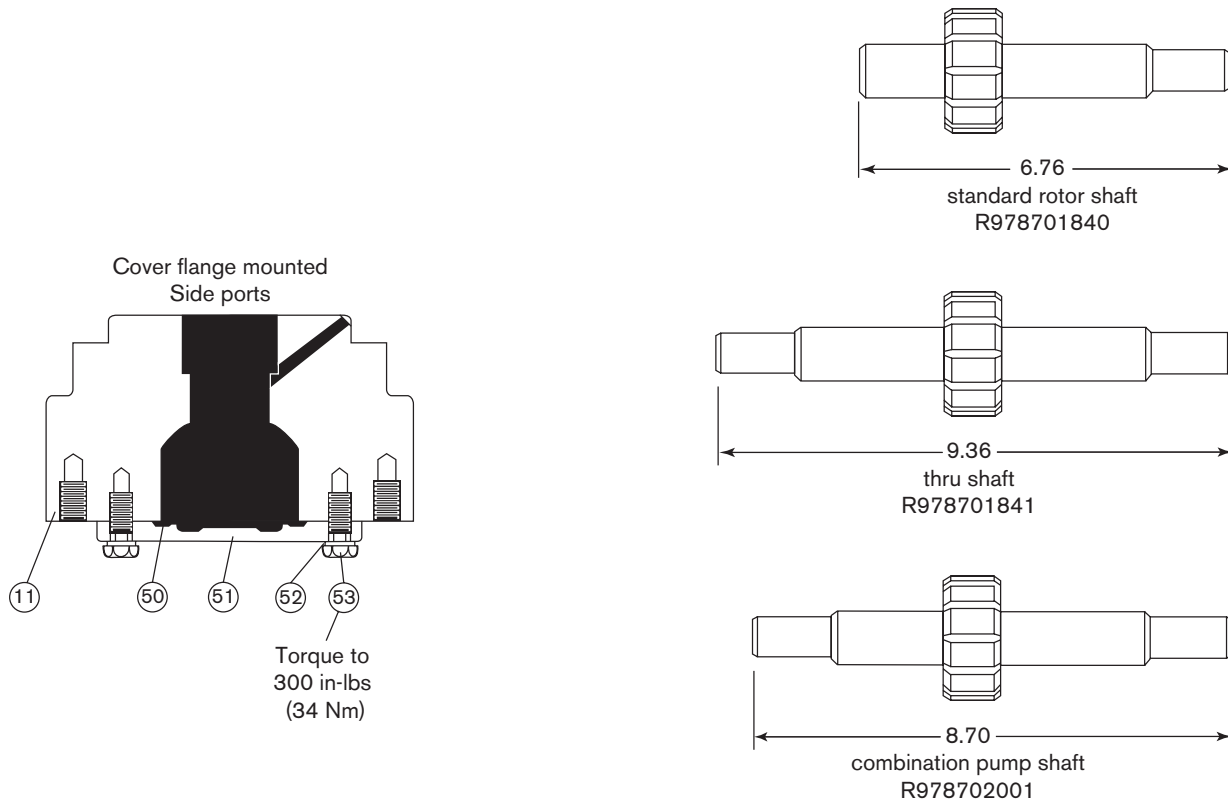
Note: R978700358 consists of 1 piece: R978700357 and 1 piece: R978700444.

Repair kits

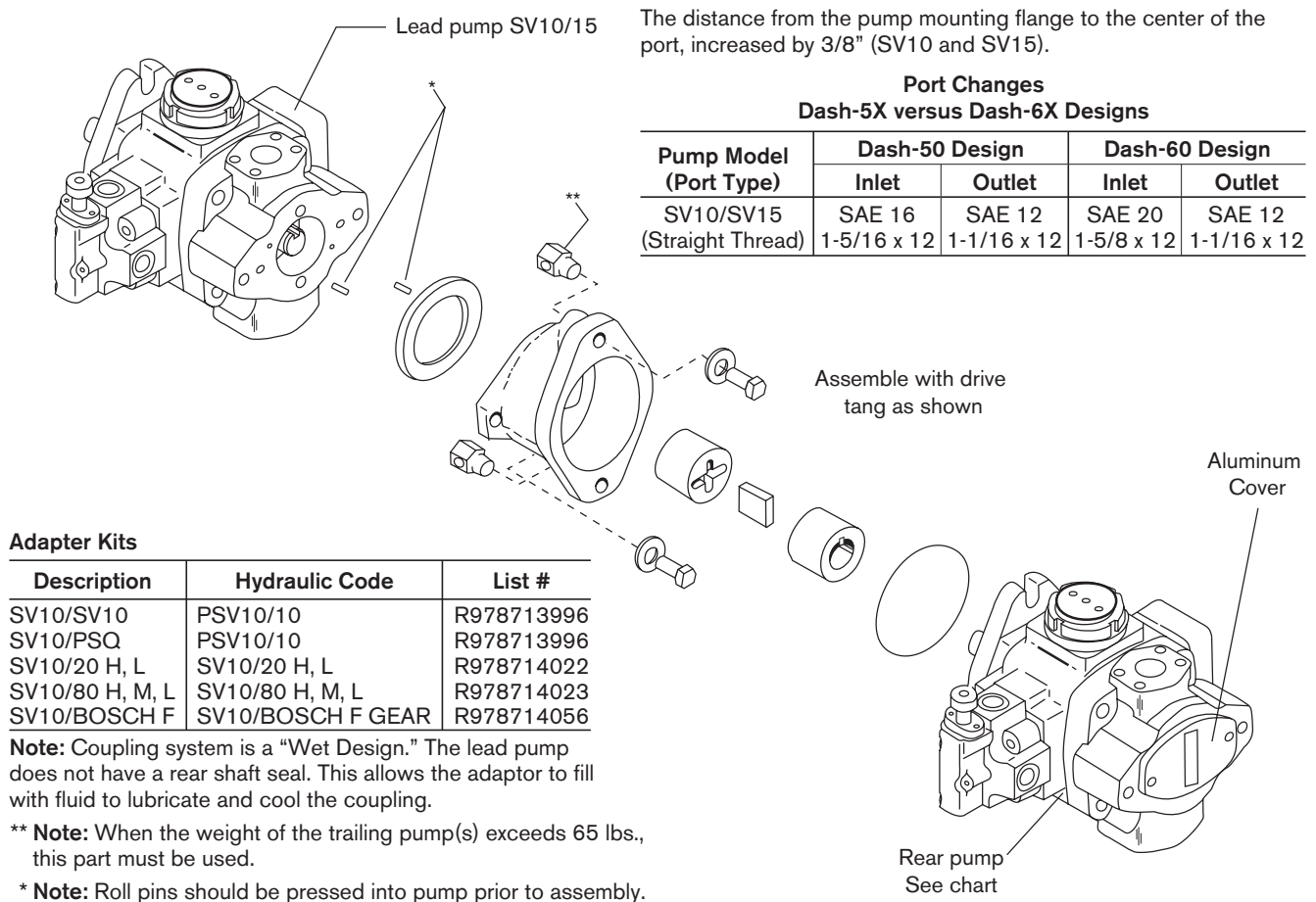
Description	Design Digit	Assembly No. SV10	Assembly No. SV15
Std. Medium Keyed Shaft – Viton	–50 thru –66	R978700362	R978700364
Double-ended Shaft – Viton	–50 thru –56	R978700363	R978700365
Combination Shaft – Viton	–60 thru –66	R978700414	R978700415

Note: Each kit contains the following parts: one rotor shaft, one key, one set of vanes, four roll pins, two port plates, two bearings, one pressure ring and one seal kit.

Functional description – 66 Design



Adapter/coupling system



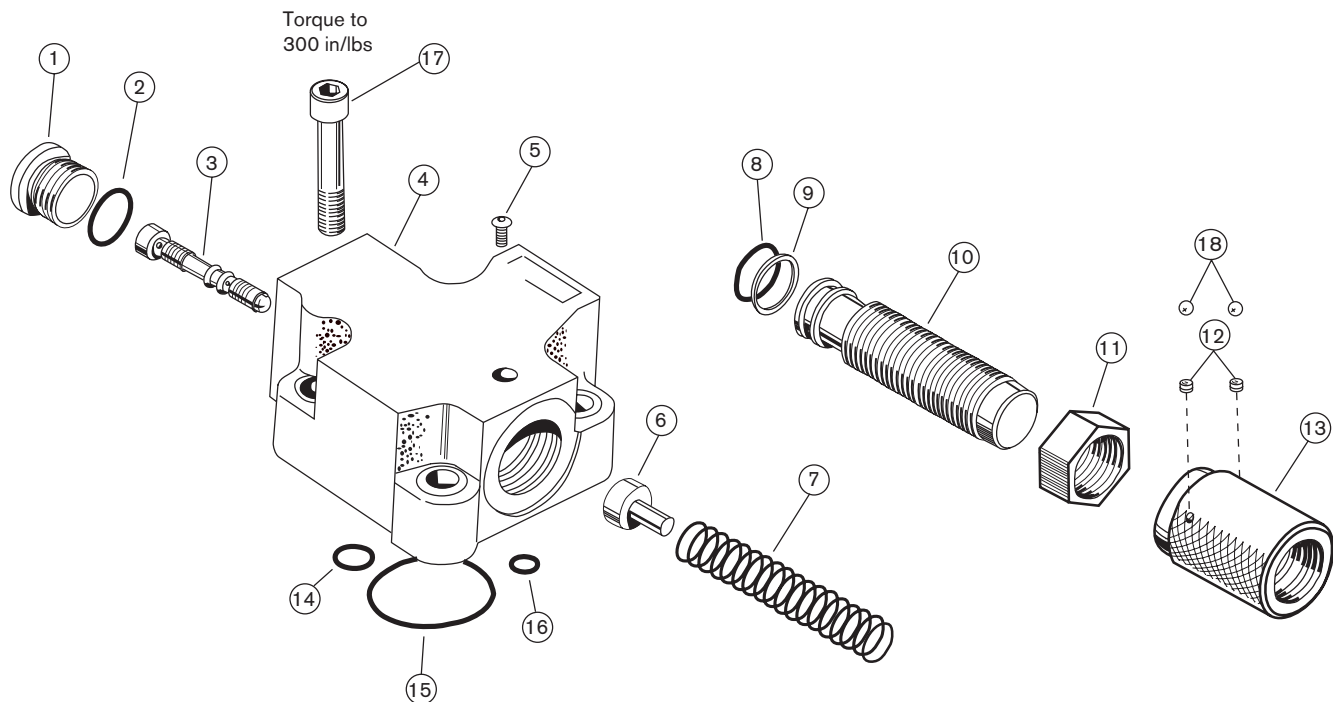
The distance from the pump mounting flange to the center of the port, increased by 3/8" (SV10 and SV15).

**Port Changes
Dash-5X versus Dash-6X Designs**

Pump Model (Port Type)	Dash-50 Design		Dash-60 Design	
	Inlet	Outlet	Inlet	Outlet
SV10/SV15 (Straight Thread)	SAE 16 1-5/16 x 12	SAE 12 1-1/16 x 12	SAE 20 1-5/8 x 12	SAE 12 1-1/16 x 12

Single stage

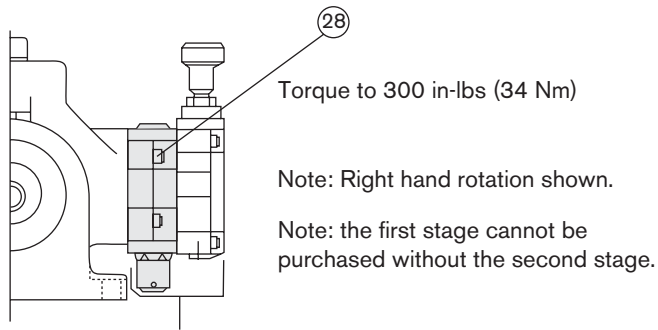
Phased out product – Not all parts remain available.



Ref. No.	Part No.	Description	Qty.
1	R978708950	Plug, SAE #8	1
2	R978703065	O-Ring, SAE #8 –908	1
3	—	Spool, Phased out	1
4	—	Body, Phased out	1
5	—	Screw, Phased out	1
6	—	Spring Seat, Phased out	1
7	—	Spring, Phased out	1
8	R978702912	O-Ring, 5/8 x 3/4 x 1/6 –016	1
9	R978709114	Back-up Ring	1
10	—	Internal Adjustment Barrel, Phased out	1
11	—	Lock Nut, Phased out	1
12	—	Set Screw, 1/4-20 x 1/8, Phased out	2
13	—	Pressure Adjustment Knob, Phased out	1
14	R978702985	O-Ring, 1-16 x 5/16 x 7/16 –011	1
15	R978703049	O-Ring, 1-16 x 1-1/2 x 1-5/8 –029	1
16	R978702916	O-Ring, 1-16 x 7/16 x 9/16 –013	1
*17	R978702488	Screw, 5/16-18 x 1-1/4	4
18	—	Plastic Ball, 9/64 Diameter, Phased out	2

* Item 17 is not included in the complete assembly.

Standard two-stage compensator – First stage: 56 Design, 66 Design



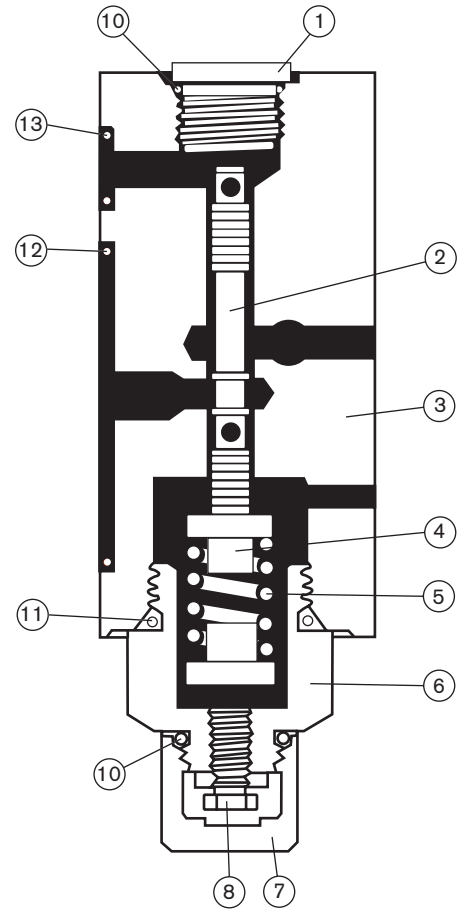
Standard two stage
pressure compensator (P control)
SV10 R978714016
SV15 R978714005

Ref. No.	Part No.	Description	Qty.
1	R978708950	Plug, SAE #8	1
2	R978701928	Spool	1
3	R978701274	Body, 1st Stage (Iron)	1
4	R978701990	Spring Seat	2
5	R978708949	Spring	1
6	R978702033	Adaptor	1
7	R978701988	Safety Cap	1
8	R978710283	Adjustment Screw & Locknut	1
*10	R978703065	O-Ring, #8 SAE (-908)	2
*11	R978703064	O-Ring, #10 SAE (-910)	1
*12	R978703049	O-Ring, 1/16 x 1-1/2 x 1-5/8	1
*13	R978702985	O-Ring, 1/16 x 5/16 x 7/16 (Used with R978701274)	1
**14	R978702916	O-Ring, 1/16 x 7/16 x 9/16	1
***28	R978702488	Screw, Socket Head, 5/16-18 x 1-1/4	4

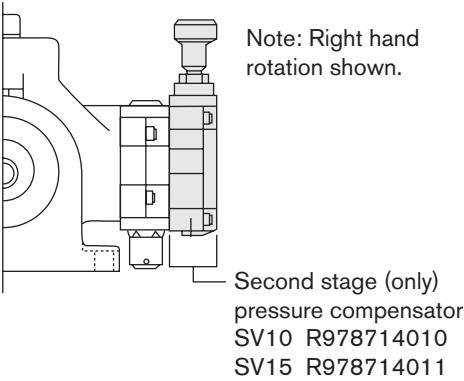
* Included in Seal Kit R978700357.

** Not shown.

*** On standard Compensated and Load Sensing Compensating Pumps, this screw is used to mount the 1st stage to the pump body. All other optional compensators or controls use R978708954 ferry head cap screws.
CAUTION: Do not over torque.

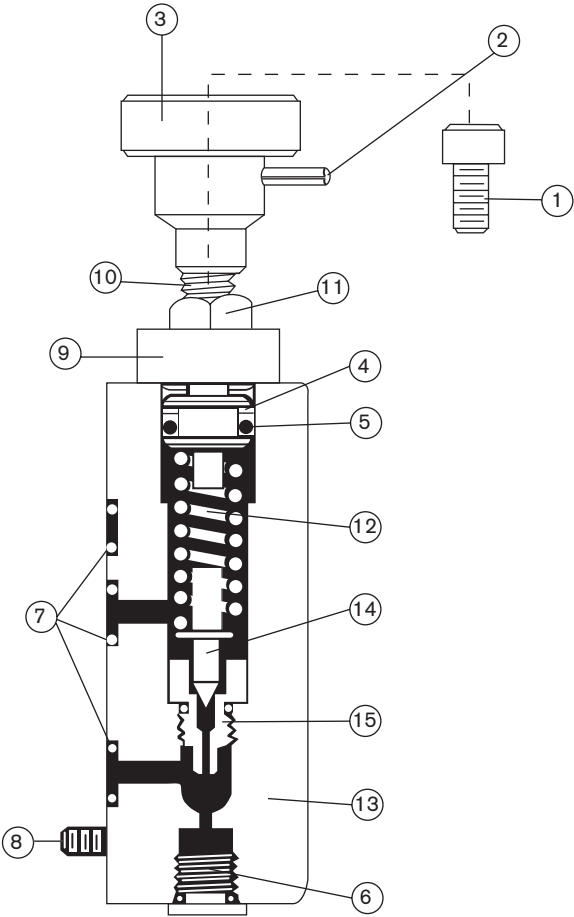


Standard two-stage compensator – Second stage: 56 Design, 66 Design



Ref. No.	Part No.	Description*	Qty.
1	R978702678	Screw, #10-24 X 1/2	2
2	R978702639	Roll Pin	1
3	R978701927	Knob	1
4	R978708779	Back-up Ring	1
5	R978702924	O-ring, (-111 Viton 75)	1
6	R978702940	Plug, #4 SAE with O-Ring (-904)	1
7	R978702985	O-Ring, 1/16 x 5/16 x 7/16	3
8	R978702482	Screw, 1/4-20 x 1-1/4	3
9	R978701105	Retaining Cap	1
10	R978702022	Adjusting Screw	1
11	R978702560	Lock Nut	1
12	R978703152	Spring	1
13	R978701247	Body	1
14	R978702038	Poppet	1
15	R978710286	Seat & O-Ring	1

* Not valid for design series -53/-63.



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