



R-DDV[®] SERVOVALVE PART NUMBER SYSTEM

(basic part number) (options)
Example Part Number: 27B50F - 6F01 G-999

Basic Configurations

Model	Port Circle	Bolt Pattern
27A50F	0.48"	.938" X 1.032"
27B50F	----- D03	-----
27C20F	0.78"	1.344" X 1.688"
27E50F	0.875"	1.750" X 2.562"
27G50F	1.75"	2.375" X 3.625"

O-Ring Material

Code	Description
-	Nitrile (std config)
A*	Ethylene Propylene
V*	Viton

* at additional cost

Electrical Commands

Code	Command	Impedance (ohms)
01	± 5 V	50K
02	± 10 V	50K
03	± 5 mA	1000
04	± 50 mA	100
05	0 to +10 V	50K
06	± 40 mA	125
07	± 2 V / ± 5 mA	403
08	± 3 V / ± 7.5 mA	403
09	± 5 V / ± 12.5 mA	403
10	+4 to +20 mA	620
11	± 10 mA	500
12	± 8 mA	620
13	± 12 mA	412
14	± 20 mA	250
15	± 10 V / ± 20 mA	500
16	± 2.5 V	50k
17	± 100 mA	25
18	± 2.5 V / ± 6.2 mA	403

Flow Rate

Model	Code	gpm*	scfm**	Cv ***	Max Pressure	Std Lap****
27A	5C	0.10	0.22	0.0039	5000 psi	5% UL
	0M	0.18	0.45	0.008	5000 psi	5% UL
	1E	0.4	1.0	0.018	5000 psi	5% UL
	2F	0.9	2.0	0.036	5000 psi	2% OL
	3D	1.8	4.0	0.071	5000 psi	10% OL
	4K	3.5	8.0	0.14	5000 psi	10% OL
27B	1A	0.2	0.5	0.009	5000 psi	
	2B	0.6	1.5	0.027	5000 psi	
	3C	1.2	3.0	0.054	5000 psi	-995
	4D	2.5	6.0	0.11	5000 psi	or
	5E	5.0	11.5	0.21	3000 psi	-999
	6F	8.0	18	0.32	2000 psi	
27C	7G	11.0	25	0.45	1000 psi	
	3B	5.0	11.5	0.21	3000 psi	10% OL
	4D	8.0	18	0.32	2000 psi	10% OL
27E	5K	10.5	24	0.43	1000 psi	10% OL
	3B	10.0	23	0.41	5000 psi	-995
	4A	15.0	34	0.61	5000 psi	or
27G	5C	20.0	46	0.82	5000 psi	-999
	1F	20.0	46	0.82	5000 psi	
	3F	30.0	68	1.22	5000 psi	-995
	5F	40.0	92	1.64	5000 psi	or
	9F	60.0	136	2.44	3000 psi	-999

* 4-way flow, oil, 1000 psid

** 4-way flow, air, 100 psig

*** Per orifice

**** See table: 'Options: Spool Lap' for -995 and -999 description. All the standard overlapped options are electrically compensated to Zero-lap.

Options: Leadwire / Connector (leave blank for standard)

Code Option

Models 27A, 27B and 27C

Blank	10" 4-wire shielded leadwire cable (standard configuration)
C*	20 foot, 4-wire shielded leadwire cable
F*	3 foot, 4-wire shielded leadwire cable
G*	10" shielded leadwire cable w/ 4-pin MS connector MS3101F-14S-2P

Models 27E and 27G

Blank	4-pin MS connector CF3102E-14S-2P (standard configuration)
J*	6-pin MS connector CF3102E-14S-6P, with position output

* at additional cost for other than standard (Blank)

Example Part Numbers:

27B50F-6F01G-999: 27B, Nitrile seals, 8.0 gpm, ±5V, 20 foot 4-wire shielded leadwire cable, Zero-Lap

27A50F-3D02: 27A, Nitrile seals, 1.8 gpm, ±10V, std 10" 4-wire shielded leadwire cable, std 10% OL w/ electrical compensation to apparent Zero-Lap

27G50FV9F10J-995: 27G, Viton seals, 60 gpm, 4-20 mA, 6-pin MS connector, 10% OL w/ electrical compensation to apparent Zero-Lap

Options: Spool Lap

3-digit code used for models 27A, 27C only when specifying non-standard lap condition

3-digit code required for model 27B, 27E, and 27G (-995 or -999 included in base price)

Code Option

Blank	Std machined lap, electrically compensated to apparent Zero-lap (27A & 27C)
-999	Flow ground to Zero-lap (cost adder 27A, 27C)
-998*	Flow ground to 3% UL
-997*	Standard machined OL, no electrical compensation for lap
-996*	'Zero Flow' shut-off at zero command
-995	Flow Ground to 10% OL, electrically compensated to Zero-lap (cost adder 27A, 27C)
-8XX*	No Internal Fuse
-XXX*	Contact WHRT for other special considerations

*at additional cost for other than standard lap