



R-DDV[®] SERVOVALVE PART NUMBER SYSTEM

(basic part number)

(options)

Example Part Number: **27A50F - 3D01** **G** - **999**

Basic Configurations

Model	Port Circle	Bolt Pattern	Std Elec Connection
27A50F	0.48"	.938" X 1.032"	4-wire shielded cable
27B50F	----- D03 -----		4-wire shielded cable
27C20F	0.78"	1.344" X 1.688"	4-wire shielded cable
27E50F	0.875"	1.750" X 2.562"	4-pin MS 3102 connector
27G50F	1.75"	2.375" X 3.625"	4-pin MS 3102 connector

Options: Spool Lap

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

O-Ring Material

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

* at additional cost

Electrical Commands

Code	Command	Code	Command
01	± 5 Volts	10	4 to 20 mA
02	± 10 Volts	11	± 10 mA
03	± 5 mA	12	± 8 mA
04	± 50 mA	13*	± 12 mA
05*	0 to + 10 Volts	14	± 20 mA
06	± 40 mA	15*	± 10 Volts / ± 20 mA
07*	± 2 Volts / ± 5 mA	16*	± 2.5 Volts
08*	± 3 Volts / ± 7.5 mA	17*	± 100 mA
09*	± 5 Volts / ± 12.5 mA	18*	± 2.5 Volts / ± 6.2 mA

* at additional cost

Options: Leadwire / Connector*

Code	Description
Blank	See 'Basic Configurations' Table
Models 27A50F, 27B50F and 27C20F	
G	In line 4-pin MS 3102 connector
A – F, H	Contact WHRT for description
Models 27E50F and 27G50F	
J	6-pin MS 3102 connector

* at additional cost for other than 'Basic'

Flow Rate

Model 27A50F

Code	gpm*	scfm**	Cv Factor***	Max Pressure	Std Lap
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	1% OL
3D	1.8	4.0	0.071	5000 psi	10% OL
4K	3.5	8.0	0.14	5000 psi	10% OL

Model 27B50F

Code	gpm*	scfm**	Cv Factor***	Max Pressure
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
4D	2.5	6.0	0.11	5000 psi
5E	5.0	11.5	0.21	3000 psi
6F	8.0	18	0.32	2000 psi
7G	11.0	25	0.45	1000 psi

Model 27C20F

Code	gpm*	scfm**	Cv Factor***	Max Pressure	Std Lap
3B	5.0	11.5	0.21	3000 psi	10% OL
4D	8.0	18	0.32	2000 psi	10% OL
5K	10.5	24	0.43	1000 psi	10% OL

Model 27E50F

Code	gpm*	scfm**	Cv Factor***	Max Pressure
3B	10.0	23	0.41	5000 psi
4A	15.0	34	0.61	5000 psi

Model 27G50F

Code	gpm*	scfm**	Cv Factor***	Max Pressure
1F	20.0	46	.82	5000 psi
3F	30.0	68	1.22	5000 psi
5F	40.0	92	1.64	5000 psi
9F	60.0	136	2.44	3000 psi

* 4-way flow rating with hydraulic oil at 1000 psid

** 4-way flow rating with air at 100 psig

*** Per orifice