Flow Safe Assembly Part Numbers (All Series)

FLOW SAFE

S 8 4 4 B – 0 5 M N 0 – 0 1 F N 0 – C S – S S – K T N S _ _   [Note 1]

MV seat & seals

Options / Accessories

N = NACE trim	E = electropolished inlet	R = remote sense
L = lift lever	C = cryo block	DR = Dresser dims. (F80)
P = BFP	D = closed dome tee	J = F100 PV with F70VP
T = FTC (T1= SS for F70PR)	Y = Swagelok fittings	Q = ESD dump valve
F = pilot inlet filter	A = NO solenoid	U = surge suppressor
S = short NPT inlet (F80/ F88/ F84L – 4/-6/-8)	B = NC solenoid	V = Harguard clean pilot supply
K = F500 set point ind.	G = lift indicator (rod)	W = F80M with whistle
M = manual blowdown	H = lift indicator (DP switch)	X = F70U speed controller
	O (letter) = dual pilots	Z = add'l welded fitting(s)

Trim material – see body, plus:

S1 = SS piston, retainer for F70PR/VP	DD = Duplex SS MV trim with Duplex pilot [Note 2]
S2 = SS piston, retainer, liner for F70PR/VP	DN = Duplex SS MV trim with Inconel pilot [Note 2]
S3 = SS pilot on F70PR	DS = Duplex SS MV trim with SS pilot
S5 = F7100 w/ alum. piston, CS liner, SS retainer, SS F100 pilot	SM = SS + Monel
	S6 = F7100 w/ alum. F100 pilot
	S8 = F7000 w/ SS liner, SS retainer, alum. piston

Body material:

SS = 316 SS / CF8M	AL = Aluminum	N5 = Inconel 625	H2 = Hast. C/C22
SL = 316L SS / CF3M	D4 = 22% Cr duplex	N0 = Inconel 600	H6 = Hast. C276
CS = standard CS	D6 = 25% Cr duplex	MO = Monel	6M = 6 Mo (254 SMO)
CL = low-temp. CS	C3 = LC3 CS	BR = Brass	20 = Alloy 20
TI = Titanium	6X = AL6XN		

Outlet rating (see inlet rating)

Conn. type (see below)

Outlet size (see inlet size)

Inlet rating:

1 = 150#	2 = 300#	3 = 600#	4 = 900#	5 = 1500#	6 = 2500#
0 = thread / VCR / Grayloc on F80/84L/88 [Note 3]				7 = 5000 (API)	8 = 10000 (API)

Conn. type:

MN = male NPT	RF = RF flange	FM = female MS	SN = sanitary	GR = Grayloc hub
FN = female NPT	RJ = RTJ flange	FS = female SAE	SL = Swagelok fitting	TC = Threaded & coned
MV = male VCR	DF = Dual RF flange [Note 4]	MS = male SAE	SW = socket weld	[Note 5]
FV = female VCR	DJ = Dual RTJ flange [Note 4]	BP = female BSPP threads	ST = small tongue (T&G)	S2 = SAE J518 Code 62
EF = metric RF flange	EJ = metric RTJ flange	MP = male BSPP threads	BW = butt weld	AP = API flange
OF = O-ring flange	LJ = lap joint RF flange	MT = male BSPT threads	AN = AN 37° flare	LF = large female (flange)
FF = flat-faced flange	HU = hammer union	TK = Techlok hub		

Inlet size:

05 = 1/2"	01 = 1"	02 = 2"	04 = 4"	08 = 8"	12 = 12"	Special:	14 = 1/4"	91 = 9/16"	1X = 1-1/4"
34 = 3/4"	15 = 1-1/2"	03 = 3"	06 = 6"	10 = 10"	16 = 16"		38 = 3/8"	25 = 2-1/2"	

Body size for F80's:
or F8000 orifice letter
or P = F70PR, F70VP
or 0 = F7000, F70U, F9000

M = Micro	B = B body	E = E body (short bonnet)	
P = 2-pc.Micro	C = C body (all F84/F85, F84L/F88-3/4/8 to 720 psig)	X = XL bonnet (D, E, F84L-4/8 from 721 – 4292 psi, F84L-2 above 15,538 psi)	
H = HP Micro cast.	D = D body (short bonnet)	Z = XXL (F84L-3/-4 > 4292 psi)	

Model – F80 (84 = F84; 85 = F85; 8L = F84L; 88 = F88) + orifice
or 725, 825, 734, 754, etc. (F7000 / F8000, pilot type, seat type)
or 70H = F70PR-HP; 70L = F70PR-LP; 70V = F70VP
or 705 = F70U
or 905 = F9000 (w/ O-ring seat)

S = Spring-op valve
P = Pilot-op valve or surge relief (PM = 'marine')
U = Unloader

Notes:
1. Be careful of "0" (zero) and "O" when entering.
2. Duplex trim / pilot will normally match grade of main valve body.
3. For Grayloc on POSRV, use rating code for equivalent flange.
4. Dual outlets available on F7000/8000 air / gas / vapor only.
5. Compatible with Autoclave, Butech, etc., M/P or H/P fittings.

S 8 L 4 C – 0 5 R F 2 – 0 1 R F 1 – C S – S S – T T N L _ _   [Note 1]

MV seat & seals

Options / Accessories

N = NACE trim
L = lift lever
S = short NPT inlet (F80/ F88/F84L – 4/-6/-8)
Z = add'l welded fitting(s)

E = electropolished inlet [repeat for outlet]
DR = Dresser dims. (F80)
W = F80M with whistle

Trim material – see body, plus: SM = SS + Monel

Body material:

SS = 316 SS / CF8M	AL = Aluminum	N5 = Inconel 625	H2 = Hast. C/C22
SL = 316L SS / CF3M	D4 = 22% Cr duplex	N0 = Inconel 600	H6 = Hast. C276
CS = standard CS	D6 = 25% Cr duplex	MO = Monel	6M = 6 Mo (254 SMO)
CL = low-temp. CS	C3 = LC3 CS	BR = Brass	20 = Alloy 20
TI = Titanium	6X = AL6XN		

Outlet rating
(see inlet rating)

Conn. type (see below)

Outlet size (see inlet size)

Inlet rating: 1 = 150#   2 = 300#   3 = 600#   4 = 900#   5 = 1500#   6 = 2500#
0 = thread / VCR / Grayloc / TC / etc.   7 = 5000 (API)   8 = 10000 (API)

Conn. type:

MN = male NPT	RF = RF flange	FM = female MS	SN = sanitary	GR = Grayloc hub
FN = female NPT	RJ = RTJ flange	FS = female SAE	SL = Swagelok fitting	TC = Threaded & coned
MV = male VCR	DF = Dual RF flange [Note 4]	MS = male SAE	SW = socket weld	[Note 2]
FV = female VCR	DJ = Dual RTJ flange [Note 4]	BP = female BSPP threads	ST = small tongue (T&G)	S2 = SAE J518 Code 62
EF = metric RF flange	EJ = metric RTJ flange	MP = male BSPP threads	BW = butt weld	AP = API flange
OF = O-ring flange	LJ = lap joint RF flange	MT = male BSPT threads	AN = AN 37° flare	LF = large female (flange)
HU = hammer union	TK = Techlok hub			

Inlet size: 05 = 1/2"   01 = 1"   02 = 2"   04 = 4"   08 = 8"   12 = 12"   Special: 14 = 1/4"   91 = 9/16"   1X = 1-1/4"
34 = 3/4"   15 = 1-1/2"   03 = 3"   06 = 6"   10 = 10"   16 = 16"   38 = 3/8"   25 = 2-1/2"

Body size:

M = Micro	B = B body	E = E body (short bonnet)
P = 2-pc.Micro	C = C body (all F84/F85, F84L/F88-3/4/8 to 720 psig)	X = XL bonnet (D, E, F84L-4/8 from 721 – 4292 psi,
H = HP Micro cast.	D = D body (short bonnet)	F84L-2 above 15,538 psi)
		Z = XXL (F84L-3/-4 > 4292 psi)

Model + orifice size
84 = F84
85 = F85
8L = F84L
88 = F88

S = Spring-op valve

Notes: 1. Be careful of "0" (zero) and "O" when entering.
2. Compatible with Autoclave, Butech, etc., M/P or H/P fittings.

Flow Safe Assembly Part Numbers
(Pilot-operated valves / Unloaders / Surge reliefs)

⛰ FLOW SAFE

P 8 5 5 M – 0 4 R J 5 – 0 6 R F 2 – C L – S S – V V N P T F   [Note 1]

MV seat & seals

Options / Accessories		
N = NACE trim	R = remote sense	H = lift indicator (DP switch)
P = BFP	C = cryo block	J = F100 PV with F70VP
T = FTC (T1= SS for F70PR)	D = closed dome tee	Q = ESD dump valve
F = pilot inlet filter	Y = Swagelok fittings	U = surge suppressor
K = F500 set point ind.	A = NO solenoid	V = Harguard clean pilot supply
M = manual blowdown	B = NC solenoid	X = F70U speed controller
O (letter) = dual pilots	G = lift indicator (rod)	Z = add'l welded fitting(s)

Trim material – see body, plus:
- S1 = SS piston, retainer for F70PR/VP
- S2 = SS piston, retainer, liner for F70PR/VP
- S3 = SS pilot on F70PR
- S5 = F7100 w/ alum. piston/CS liner/SS retainer/ SS F100 pilot
- DD = Duplex SS MV trim with Duplex pilot [Note 2]
- DN = Duplex SS MV trim with Inconel pilot [Note 2]
- DS = Duplex SS MV trim with SS pilot
- SM = SS + Monel
- S6 = F7100 w/ alum. F100 pilot
- S8 = F7000 w/ SS liner, SS retainer, alum. piston

Body material:

SS = 316 SS / CF8M	AL = Aluminum	N5 = Inconel 625	H2 = Hast. C/C22
SL = 316L SS / CF3M	D4 = 22% Cr duplex	N0 = Inconel 600	H6 = Hast. C276
CS = standard CS	D6 = 25% Cr duplex	MO = Monel	6M = 6 Mo (254 SMO)
CL = low-temp. CS	C3 = LC3 CS	BR = Brass	20 = Alloy 20
TI = Titanium	6X = AL6XN		

Outlet rating (see inlet rating)

Conn. type (see below)

Outlet size (see inlet size)

Inlet rating: [Note 3]

1 = 150#	2 = 300#	3 = 600#	4 = 900#	5 = 1500#	6 = 2500#
0 = thread				7 = 5000 (API)	8 = 10000 (API)

Conn. type:

FN = female NPT	DF = Dual RF flange [Note 4]	AP = API flange	FF = flat-faced flange
RF = RF flange	DJ = Dual RTJ flange [Note 4]	TC = Autoclave/Butech	OF = O-ring flange
RJ = RTJ flange	EF = metric RF flange	TK = Techlok hub	LF = large female (flange)
GR = Grayloc hub	EJ = metric RTJ flange	ST = small tongue (T&G)	

Inlet size:

01 = 1"	02 = 2"	04 = 4"	08 = 8"	12 = 12"
15 = 1-1/2"	03 = 3"	06 = 6"	10 = 10"	16 = 16"

F8000 orifice letter
- or P = F70PR, F70VP
- or 0 = F7000, F70U, F9000

Model / pilot / seat type: 725, 825, 734, 754, etc.
- or 70H = F70PR-HP   70L = F70PR-LP
- or 705 = F70U   70V = F70VP
- or 905 = F9000 (w/ O-ring seat)

P = Pilot-op valve or surge relief (PM = 'marine')
U = Unloader

Notes:
1. Be careful of "0" (zero) and "O" when entering.
2. Duplex trim / pilot will normally match grade of main valve body.
3. For Grayloc on POSRV, use rating code for equivalent flange.
4. Dual outlets available on F7000/8000 air / gas / vapor only.