

VELAN PIPING KING PACKAGE UNITS

TS-V-BY, TSF-V-BY & SF-V-BY

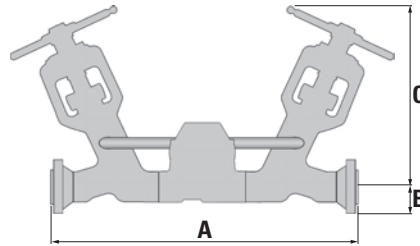
ENGINEERING DATA

TYPE	PRESSURE RANGE ⁽²⁾ psi / bar	ORIFICE in/mm	MAX CAPACITY lb/h kg/h
TS-V-BY (1)	0-120 0-8	3/8 9.5	1,650 750
	120-250 8-17	5/16 8	1,500 682
	250-300 17-21	5/16 8	1,700 773
TSF-V-BY (1)	0-200 0-14	3/8 9.5	2,000 909
	200-485 0-33.5	1/4 6.5	1,400 636
SF-V-BY (1)	0-50 0-3.5	3/4 19	3,250 1,477
	50-150 3.5-10.4	1/2 12.7	3,250 1,477
	150-300 10.4-21	1/2 12.7	4,500 2,045
	300-400 21-28	3/8 9.5	3,100 1,409
	400-600 280-42	5/16 8	2,600 1,182

Material and maximum temperature:

(1) A105, max. temp. 850°F (454°C), which is permissible, but not recommended for prolonged use above 800°F (426°C).

(2) Pressure range indicated in the above table is the preferred operating range, however the trap is functional from 0psi to its maximum operating pressure.



DIMENSIONS & WEIGHTS

TYPE	SIZE IN/MM	A FACE TO FACE			B CENTER TO BOTTOM	C CENTER TO TOP	WEIGHT LB/KG		
		SCR/ SW	BW	FLG			SCR/ SW	BW	FLG
TS-V-BY	3/8								
	1/2	11 1/4 286	17 1/4 438	15 1/4 387	2 50	7 3/4 197	17 7.5	18 8	24 11
	3/4 20								
TSF-V-BY	1/2 15	11 5/8 295	17 5/8 448	15 5/8 397	2 50	7 3/4 197	29 13	30 14	35 16
	3/4 20								
SF-V-BY-50	1/2 15	13 3/8 340	19 3/8 492	17 1/8 435	2 1/4 57	8 9/16 217			
	3/4 20	14 5/8 371	20 5/8 524	18 3/8 467	2 1/4 57	8 9/16 217	40 18	42 19	48 22
	1 25	14 5/8 371	20 5/8 524	18 3/8 467	2 1/4 57	8 9/16 217			
SF-V-BY-150 SF-V-BY-300 SF-V-BY-400 SF-V-BY-600	1/2 15	13 3/8 340	19 3/8 492	17 3/8 441	2 50	7 3/4 197			
	3/4 20	13 3/8 340	19 3/8 492	17 3/8 441	2 50	7 3/4 197	40 18	42 19	48 22
	1 25	14 5/8 371	20 5/8 524	18 5/8 473	2 1/4 57	8 9/16 217			

SSF-V-BY

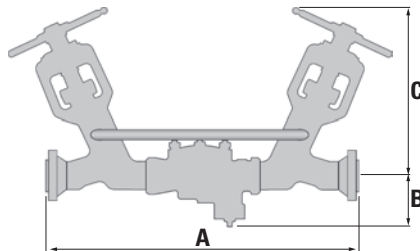
ENGINEERING DATA

TYPE	PRESSURE RANGE psi / bar ⁽¹⁾	ORIFICE in/mm	MAX CAPACITY lb/h kg/h
SSF-V-F-125	0-125 0-8.5	1 25	5,750 2,608
SSF-V-F-200	125-200 8.5-14	7/8 22	6,400 2,903
SSF-V-F-400	200-400 14-28	9/16 14	5,300 2,409
SSF-V-F-600	400-600 28-42	1/2 12.7	5,200 2,360

Material and maximum temperature:

WCB, max. temp. 850°F (454°C), which is permissible, but not recommended for prolonged use above 800°F (426°C).

(1) Pressure range indicated in the above table is the preferred operating range, however the trap is functional from 0psi to its maximum operating pressure.



DIMENSIONS & WEIGHTS

TYPE	SIZE in/mm	A FACE TO FACE			B CENTER TO BOTTOM	C CENTER TO TOP	WEIGHT lb/kg		
		SCR/ SW	BW	FLG			SCR/ SW	BW	FLG
SSF-V-BY-125	2 50	27 686	33 838	31 787	5 3/8 137	16 11/16 424	198 90	198 90	200 91
	1 1/2 40	25 635	31 787	29 737	5 3/8 137	15 9/16 395	119 54	123 56	146 66
SSF-V-BY-200 SSF-V-BY-400 SSF-V-BY-600	2 50	25 635							

VELAN PIPING KING PACKAGE UNITS

**N-V-BY-150, N-V-BY-300,
N-V-BY-675, N-V-BY-900,
N-V-BY-1500, N-V-BY-2500,
N-V-BY-2600**

ENGINEERING DATA

TYPE	PRESSURE RANGE psi/bar	ORIFICE in/mm	MAX. CAPACITY lb/h kg/h
N-V-BY-150 (1)(2)(4)	0-150	1/2	2,800
	0-10.5		1,272
N-V-BY-300 (1)(2)(4)	150-300	12.7	3,500
	10.5-21		1,590
N-V-BY-675 (1)(2)(4)	300-675	5/16	2,900
	21-46.5	8	1,315
N-V-BY-900 (1)(2)(4)	675-900	1/4	1,850
	46.5-62		8,41
N-V-BY-1500 (1)(2)(4)	900-1500	6.4	2,100
	62-103		955
N-V-BY-2500 (2)	500-2500	5/16	955
	34.5-172		2,182
N-V-BY-2600 (3)	500-2600	8	4,900
	34.5-179		2,227

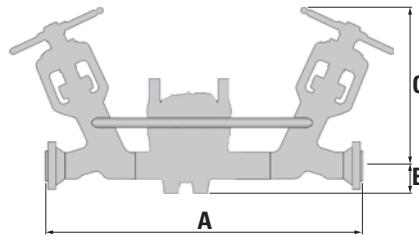
Material and maximum temperature:

(1) A105/WCB, max. temp. 850°F (454°C) which is permissible, but not recommended for prolonged use above 800°F (426°C),

(2) F22, max. temp. 1,050°F (565°C),

(3) F91, max. temp. 1,100°F (593°C).

(4) Pressure range indicated in the above table is the preferred operating range, however the trap is functional from 0psi to its maximum operating pressure.



Also available with Velan Power Ball Valve:

- Two isolating
- Three bypass valves

DIMENSIONS & WEIGHTS

TYPE	SIZE in/mm	A FACE TO FACE			B CENTER TO BOTTOM	C CENTER TO TOP	WEIGHT lb/kg		
		SCR/SW	BW	FLG			SCR/SW	BW	FLG
N-V-BY-675	1/2	14 1/2	20 1/2	18 1/2	2	7 3/4	36	39	42
	15	368	521	470	50	197	16	18	19
N-V-BY-900 N-V-BY-1500	3/4	15 3/4	21 3/4	20 1/4	2 1/4	8 9/16	57	60	63
	20	400	552	514	57	217	26	27	29
N-V-BY-2500 N-V-BY-2600	1	18 5/8	24 5/8	23 1/8	2 11/16	11 1/2	69	72	75
	25	473	625	587	68	292	31	33	34
	1/2	18 1/2	24 1/2	24	2 7/8	9 1/8	96	100	110
	15	470	622	610	73	232	43	45	50
N-V-BY-2500 N-V-BY-2600	3/4	21 3/8	27 3/8	26 7/8	3	12 1/4	120	125	140
	20	543	695	683	76	311	54	57	63
	1	24	30	29 1/2	4 1/4	16 1/2	170	175	190
	25	610	762	749	108	419	77	79	86

**SPF0-V-BY TO SPF7-V-BY
SP6-V-BY TO SP8-V-BY**

ENGINEERING DATA

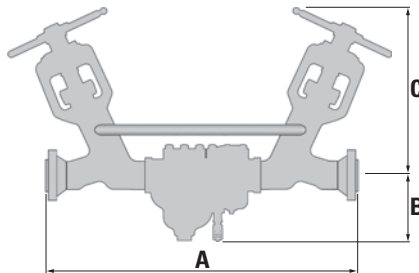
TYPE	PRESSURE RANGE psi/bar (3)	ORIFICE in/mm	MAX. CAPACITY lb/h kg/h
SPF0-V-BY (1)(2)	10-200	7/8	17,000
	0.69-14		7,727
SPF1-V-BY (1)(2)	200-350	22	19,000
	14-24		8,636
SPF2-V-BY (1)(2)	350-600	35	22,000
	24-42		10,000
SPF3-V-BY (1)(2)	600-1500	1 3/8	27,000
	42-103		12,273
SPF4-V-BY (1)	10-200	51	38,000
	0.69-14		17,272
SPF5-V-BY (1)	200-350	2	43,000
	14-24		19,545
SPF6-V-BY (1)	350-600	51	49,000
	24-42		22,272
SPF7-V-BY (1)(3)	600-1500	2	63,000
	42-103		28,636
SP6-V-BY (1)	10-200	51	90,000
	0.69-14		40,909
SP7-V-BY (1)	200-600	2	130,000
	14-42		59,090
SP8-V-BY (1)	600-1500	2	160,000
	42-103		72,727

Material and maximum temperature:

(1) A105/WCB, max. temp. 850°F (454°C) which is permissible, but not recommended for prolonged use above 800°F (426°C),

(2) F22, max. temp. 1,050°F (565°C),

(3) Pressure range indicated in the above table is the preferred operating range, however the trap is functional from 10psi to its maximum operating pressure.



DIMENSIONS & WEIGHTS

TYPE	SIZE in/mm	A FACE TO FACE			B CENTER TO BOTTOM	C CENTER TO TOP	WEIGHT lb/kg					
		SCR/SW	BW	FLG			SCR/SW	BW	FLG			
SPF0-V-BY SPF1-V-BY SPF2-V-BY SPF3-V-BY (1)	1	19 1/8	25 1/8	23 1/8(1)	2 11/16	11 1/2	90	93	118			
	25	486	638	587	68	292						
	1 1/2	21 3/4	27 3/4	25 3/4(1)	5 3/8	15 9/16				41	42	63
SPF4-V-BY SPF5-V-BY SPF6-V-BY SPF7-V-BY (2)	40	552	705	654	137	395	167	170	217			
	1 1/2	22 3/4	28 3/4	26 3/4(2)	5 3/8	15 9/16				75	77	98
	40	578	730	679	137	395						
SP6-V-BY SP7-V-BY SP8-V-BY (3)	2	24 3/4	30 3/4	28 3/4(2)	5 3/8	16 11/16	275	275	286			
	50	629	781	730	137	424						
	2	32	38	36(3)	5 3/8	16 11/16				125	125	130
	50	813	965	914								
2 1/2	38	38	38(3)	137	424							
65	965	965	965									
3	38	38	38(3)	137	424							
80	965	965	965									

(1) For SPF3-V-BY with Flanged Connection, A (face to face) for 1" is 23 5/8" (600 mm) and for 1 1/2" is 26 1/4" (669 mm).

(2) For SPF7-V-BY with Flanged Connection, A (face to face) for 1 1/2" is 27 1/4" (692 mm) and for 2" is 31 3/4" (806 mm).

(3) For SP8-V-BY with Flanged Connection, A (face to face) is 39" (991 mm) for all sizes.