

**CURTISS -
WRIGHT**

Valve Group



Series 2600

Farris Engineering
Pressure Relief Valves





Type Numbering System

Our type numbering system simplifies the selection and specifying of Farris pressure relief valves because the digits that comprise a specific type number have a distinct significance. The digits describe the basic valve series, orifice, seat and internal construction, inlet temperature range, body, bonnet and spring material, inlet flange class and code liquid design.

Prefix 26		D				A		1							
(if applicable)		Series Number		Orifice Areas		Construction		Temperatures & Materials							
H	26	Orifice Letter	Area, Sq. In.		Area, Sq. mm*		A Conventional construction	Designation	Inlet Temperature Range °F	Material					
			API	Actual	API	Actual				Body & Bonnet	Spring				
Designates high pressure versions. Used for "Q", "R", "T", & "U" orifices only.	26	D	0.110	0.150	71	97	B BalanSeal construction	1	-20 to 800	Carbon Steel	Chrome Alloy				
		E	0.196	0.225	126	145	C Conventional with O-ring seat pressure seal								
		F	0.307	0.371	198	239	D BalanSeal with O-ring seat pressure seal					2**	451 to 800	Carbon Steel	Chrome Alloy
		G	0.503	0.559	325	361	E BalanSeal with auxiliary balancing piston					3	801 to 1000	Chrome Moly Steel	High Temp. Alloy
		H	0.785	0.873	506	563	F BalanSeal with auxiliary balancing piston and O-ring seat pressure seal					4*	1001 to 1200	Consult Factory	
		J	1.287	1.430	830	923	T Teflon seat, conventional					5*	1201 to 1500	Consult Factory	
		K	1.838	2.042	1186	1317	U Teflon seat, BalanSeal					1	-21 to -75	Use "S3" Trim Options ^A	
		L	2.853	3.170	1841	2045						1	-76 to -450	Use "S4" Trim Options ^A	
		M	3.60	4.000	2323	2581									
		N	4.34	4.822	2800	3111									
		P	6.38	7.087	4116	4572									
		Q	11.05	12.27	7129	7916									
		R	16.0	17.78	10323	11471									
		T	26.0	28.94	16774	18671									
		U	—	31.5	—	203.2*									
		V	—	49.4	—	318.7*									
		W	—	63.62	—	410.2*									
		W2	—	104.0	—	670.8*									
		X	—	113.1	—	729.5*									
		Y	—	143.1	—	923.0*									
Z	—	176.7	—	1139.7*											

* The "U" through "Z" orifices are not API Standard Sizes; metric areas are in square centimeters.

* Temperature ranges 4 and 5 are beyond the scope of this catalog. Consult the Factory.

** Temperature range 2 is no longer used as the standard range valve handles temperatures to 800°F.

^A Temperature range illustrated to designate low temperature use. The "S3" & "S4" trim can be used at high temperatures. See Page 18.

Ordering Information

To process your order properly and promptly, please specify the following:

- Quantity*
- Inlet and outlet size
- Farris type number*
- Inlet and outlet flange class and facing
- Materials of construction, if other than standard
- O-ring seat pressure seal material, if required
- Set pressure*
- Maximum inlet temperature*
- Allowable overpressure*
- Fluid and fluid state*
- Back pressure, superimposed constant and/or variable and built-up*
- Required capacity*
- Accessories
 - Bolted cap, open or packed lever
 - Test gag
 - Remoter

14. Code requirements, if any

15. Physical properties of fluid (molecular weight, specific gravity, etc.)

*As a customer service, we verify your selection and sizing. If you want this service, you must include this information.

Parts Replacement

Valves – If an exact replacement valve is required, then the valve type, size and serial number must be specified to ensure proper dimensions and material being supplied. If a specific valve is obsolete, a recommendation of the current equivalent will be made if possible.

Spare Parts – When ordering parts, use part names as listed in the bills of materials. Specify valve type, size and serial number. If the serial number is not available, the original Farris factory order number will help us supply the proper part and material.

Springs – Order as an assembly to include spring with upper and lower spring buttons. Specify valve type, size, serial number, set pressure and backpressure, if any.

Note: If valve modification or set pressure changes are required, consideration must be given to correct the nameplate and other data.

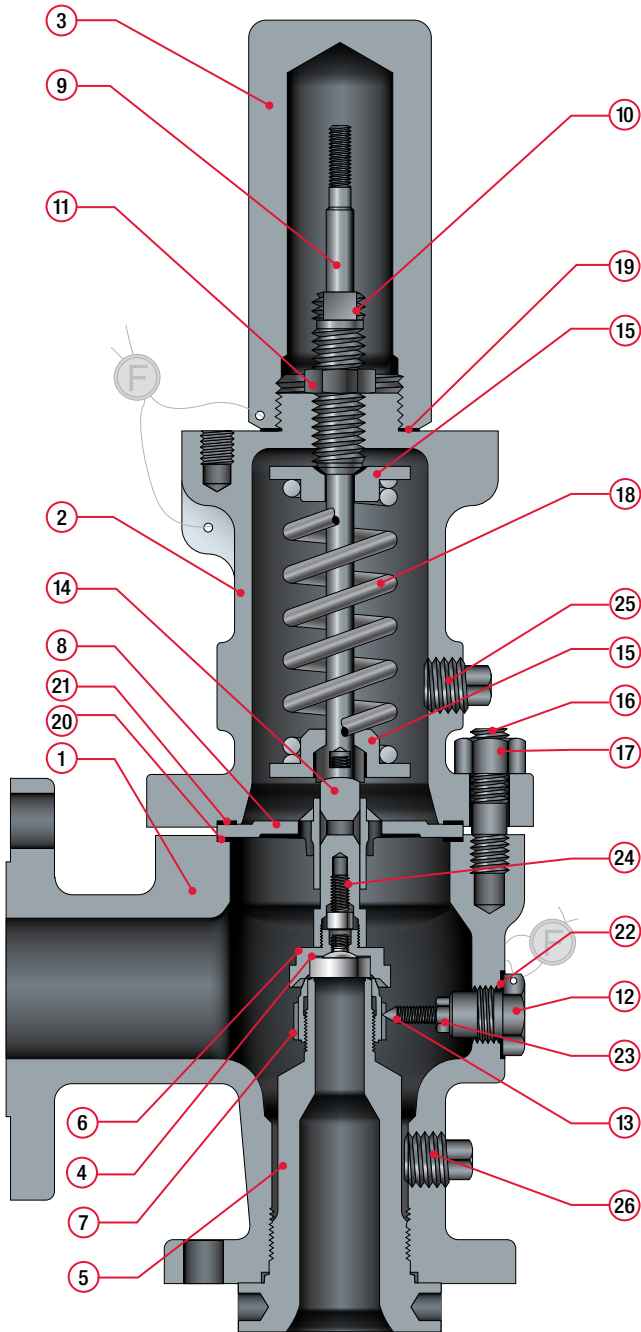
2		X -	1	2	0	/S4
Inlet Class		Special Construction (If applicable)	Inlet Facing	Cap Construction	Test Gag	Special Material
Designation	ASME Inlet Flange Class	A Expanded API sizes: air, steam and gas service* B Expanded API sizes: ASME liquid valve* C Expanded API sizes: ASME Code Section VIII exposed spring design* D Valve suitable for heat transfer service-vapor E Valve suitable for heat transfer service-liquid F Expanded API size valves suitable for heat transfer service-vapor* G Expanded API size valves suitable for heat transfer service-liquid* L ASME Code certified for liquid, air, steam and gas service.** S ASME Code Section VIII exposed spring design * Letter suffixes for expanded API sizes where 2-1/2" inlet or outlet has been replaced by 3" size. ** Certified as non-adjustable blowdown	0 Special Facings ² 1 Raised Face, ASME Std. (125 to 160 AARH) 2 Large Female, ASME Std. 3 Small Male, ASME Std. 4 Small Female, ASME Std. 5 Large Tongue, ASME Std. 6 Large Groove, ASME Std. 7 Small Tongue, ASME Std. 8 Small Groove, ASME Std. 9 Ring Joint (octagonal), ASME Std. H 63-83 AARH Smooth Finish RF Although not applicable to the Inlet facing only, the following first digit letters are also used: J 63 to 83 AARH (outlet only) K 63 to 83 AARH (inlet & outlet) X Special Welded Connections ³	2 Screwed Cap 3 Bolted Cap 4 Packed Lever 7 Open Lever 8 Remoter (with Packed Lever)	0 Without Gag 1 With Gag	See "Materials for Corrosive Service" Table below. /SP Special Construction ¹
0	150					
1	300 lightweight valve					
2	300 heavyweight valve					
3	600					
4	900					
5	1500					
6	2500					

Materials for Corrosive Service				
Designation	Special Material Description			
	Body Bonnet, Cap	Internal Parts		
		Nozzle & Disc	Other	Springs & Buttons
/S1	Standard	316	316 ⁴	Chrome Alloy Spring, 316 Buttons
/S3	316	316	316	Chrome Alloy Nickel Plated Spring, 316 Buttons
/S4	316	316	316	316
/H1	Standard	Hastelloy C	Standard	Standard
/H2	Standard	Hastelloy C	Hastelloy C & Monel	Chrome Alloy Nickel Plated Spring, 316 Buttons
/H3	Hastelloy C [®]	Hastelloy C	Hastelloy C	Chrome Alloy Nickel Plated Spring, 316 Buttons
/H4	Hastelloy C	Hastelloy C	Hastelloy C	Hastelloy C
/M1	Standard	Monel	Standard	Standard
/M2	Standard	Monel	Monel	Chrome Alloy Nickel Plated Spring, 316 Buttons
/M3	Monel	Monel	Monel	Chrome Alloy Nickel Plated Spring, 316 Buttons
/M4	Monel	Monel	Monel	Inconel Spring, Monel Buttons
/N1	Carbon Steel (NACE)	316 (NACE)	316 ⁴	Inconel Spring, 316 Buttons
/LB	SA-352 Gr. LCB (Cap - 316)	316	316	Standard
/LC	SA-352 Gr. LCC (Cap - 316)	316	316	Standard
/N4	316 (NACE)	316 (NACE)	316	Inconel Spring, 316 Buttons

General Notes:

- Specials trim or connection types not covered by other type number designations require "/SP" added to the type number. Example: 26HA10-120/SP.
- Special inlet facings not covered by other inlet facing designations such as lens joint inlet or non-standard nozzle finishes.
- Designates welded inlet connections including butt-weld, socket weld and high pressure Grayloc (hub style) connections. Grayloc is a registered trademark of Oceaneering International Inc.
- Spring adjusting screw is supplied in standard precipitation hardened (17-4 Ph) stainless steel. Note: S1 Stem Retainer changes from 17-4 Ph to 316 stainless steel.
- For special non stainless trim in compliance with NACE Standards add "N" to the material suffix. Example: 26HB12-120/M4N.
- Duplex stainless trim options available on application in standard and super duplex alloys. Consult the factory.

2600/2600L Series Conventional



Bill of Materials - Conventional

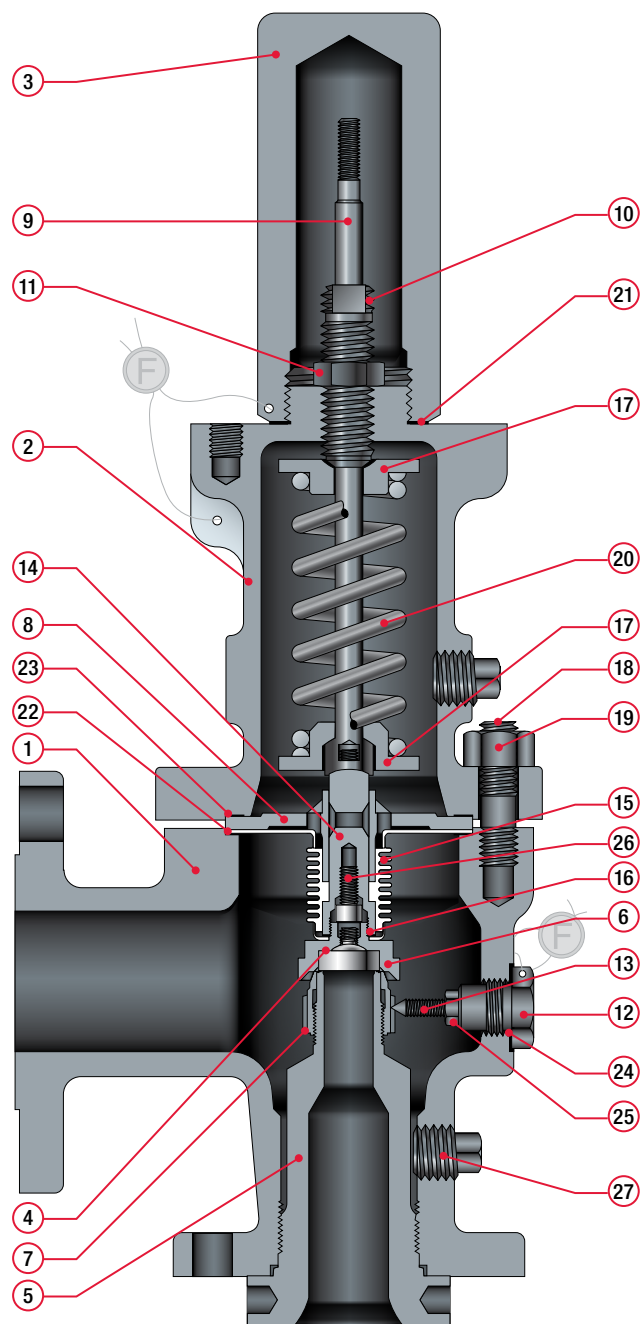
Item	Part Name	Material
1	Body	SA-216 Gr. WCB Carbon Steel ¹
		SA-217 Gr. WC6 Alloy St. (1-1/4 Cr-1/2 Moly) ²
2	Bonnet	SA-216 Gr. WCB Carbon Steel ¹
		SA-217 Gr. WC6 Alloy St. (1-1/4 Cr-1/2 Moly) ²
3	Cap. Plain Screwed	Carbon Steel
4	Disc	316 St. St.
5	Nozzle	316 St. St.
6	Disc Holder	316 St. St.
7	Blowdown Ring	316 St. St.
8	Sleeve Guide	316 St. St.
9	Stem	316 St. St.
10	Spring Adjusting Screw	Stainless Steel
11	Jam Nut (Spr. Adj. Screw)	316 St. St.
12	Lock Screw (B.D.R.)	316 St. St.
13	Lock Screw Stud	316 St. St.
14	Stem Retainer ⁸	17-4 Ph. St. St.
15	Spring Button	316 St. St.
16	Body Stud	SA-193 Gr. B7 Alloy St.
17	Hex Nut (Body)	SA-194 Gr. 2H Alloy St.
18	Spring	Chrome Alloy Rust Proofed ¹
		High Temperature Alloy Rust Proofed ²
19	Cap Gasket	316 St. St.
20	Body Gasket	316 St. St.
21	Bonnet Gasket	316 St. St.
22	Lock Screw Gasket	316 St. St.
23	Hex Nut (B.D.R.L.S.)	Stainless Steel
24	Lock Screw (D.H.)	Stainless Steel
25	Pipe Plug (Bonnet)	Steel
26	Pipe Plug (Body)	Steel

General Notes:

1. Applies to type numbers 26() A10 thru 26() A16.
2. Applies to type numbers 26() A32 thru 26() A36.
3. Parentheses in type number indicate orifice designation, as in 26FA10.
4. For corrosive and low temperature materials, see pages 17 through 21.
5. For open and packed lever materials and test gags, see accessories on pages 68 & 69.
6. For capacities, see pages 39-42 U.S. Units, 57-60 Metric Units.
7. For dimensions and weights, see pages 72-75.
8. For 316 Stem Retainer add S1 suffix to Type #.
9. For ASME Certified liquid service use the 2600L Series as illustrated on page 14.



2600/2600L Series BalanSeal



Bill of Materials - BalanSeal

Item	Part Name	Material
1	Body	SA-216 Gr. WCB Carbon Steel ¹
		SA-217 Gr. WC6 Alloy St. (1-1/4 Cr-1/2 Moly) ²
2	Bonnet	SA-216 Gr. WCB Carbon Steel ¹
		SA-217 Gr. WC6 Alloy St. (1-1/4 Cr-1/2 Moly) ²
3	Cap. Plain Screwed	Carbon Steel
4	Disc	316 St. St.
5	Nozzle	316 St. St.
6	Disc Holder	316 St. St.
7	Blowdown Ring	316 St. St.
8	Sleeve Guide	316 St. St.
9	Stem	316 St. St.
10	Spring Adjusting Screw	Stainless Steel
11	Jam Nut (Spr. Adj. Screw)	316 St. St.
12	Lock Screw (B.D.R.)	316 St. St.
13	Lock Screw Stud	316 St. St.
14	Stem Retainer ⁸	17-4 Ph. St. St.
15	Bellows	Inconel Composite
16	Bellows Gasket	Non-Asbestos
17	Spring Button	316 St. St.
18	Body Stud	SA-193 Gr. B7 Alloy St.
19	Hex Nut (Body)	SA-194 Gr. 2H Alloy St.
20	Spring	Chrome Alloy Rust Proofed ¹
		High Temperature Alloy Rust Proofed ²
21	Cap Gasket	316 St. St.
22	Body Gasket	316 St. St.
23	Bonnet Gasket	316 St. St.
24	Lock Screw Gasket	316 St. St.
25	Hex Nut (B.D.R.L.S.)	Stainless Steel
26	Lock Screw (D.H.)	Stainless Steel
27	Pipe Plug (Body)	Steel

General Notes:

1. Applies to type numbers 26()B10 through 26()B16.
2. Applies to type numbers 26()B32 through 26()B36.
3. Parentheses in type number indicate orifice designation, as in 26FA10.
4. For corrosive and low temperature materials, see pages 17 through 21.
5. For open and packed lever materials and test gags, see accessories on pages 68 & 69.
6. For capacities, see pages 39-42 U.S. Units, 57-60 Metric Units.
7. For dimensions and weights, see pages 72-75.
8. For 316 Stem Retainer add S1 suffix to Type #.
9. For ASME Certified liquid service use the 2600L Series as illustrated on page 14.



Built in conformance to ASME Code Section VIII, capacity certified by National Board