



RISERPACK™

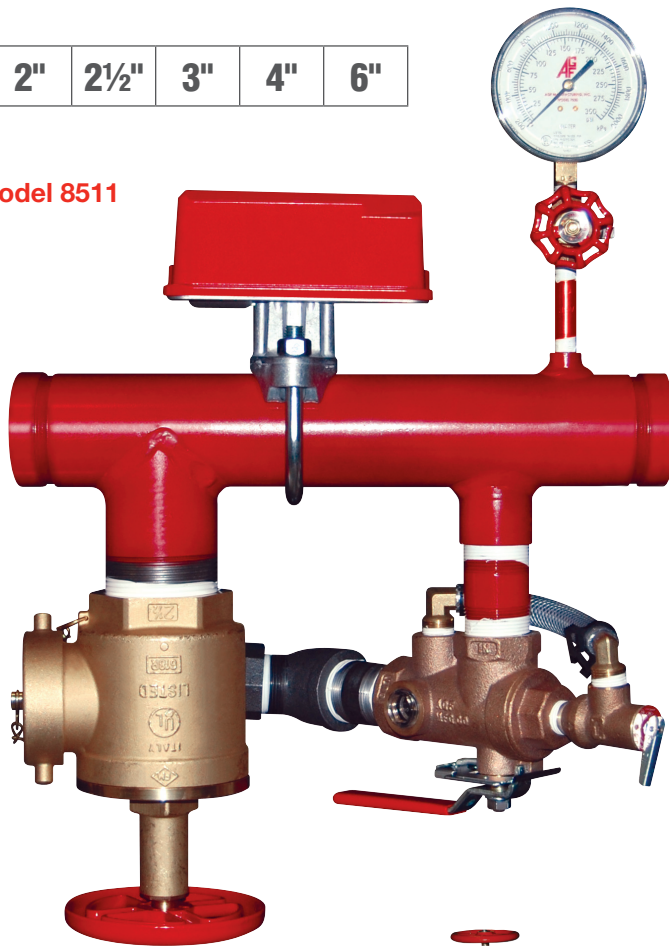
Model 8511

Pre-Assembled TEST_{AND}DRAIN® Riser with Hose Test Connection and Optional Pressure Reducing Valve

Sizes:

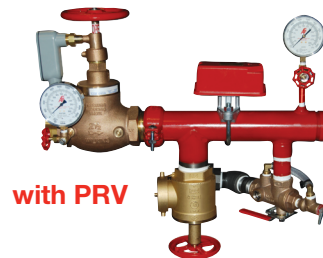
1½"	2"	2½"	3"	4"	6"
-----	----	-----	----	----	----

Base Model 8511



Features:

- NST Hose Test Connection
- Grooved Pipe Connections
- Water Flow Switch
- Pressure Gauge
- Optional Pressure Reducing Valve
- TEST_{AND}DRAIN® Valve with bypass and pressure relief valve



The AGF RiserPACK™ Model 8511 is a pre-packaged floor control riser assembly designed for NFPA 13 wet fire sprinkler systems. The Model 8511 features a hose test connection, TEST_{AND}DRAIN® valve, flow switch, and pressure gauge with shutoff valve.

- The 1½" and 2" Model 8511 utilize a 1" FNPT TEST_{AND}DRAIN Model 2511 and are available with orifice sizes of 3/8" to 5/8" (ELO)
- 2½" and 3" Model 8511 utilize a 1¼" FNPT TEST_{AND}DRAIN Model 2511 and are available with orifice sizes of 3/8" to ¾" (ESFR)
- 4" and 6" Model 8511 utilize a 2" groove TEST_{AND}DRAIN Model 2511 and are available with orifice sizes of 3/8" to K25

Reduce inlet water pressure by adding an optional in-line or angled Pressure Reducing Valve with pressure gauge and shutoff valve.

Pressure Reducing Valves

	In-Line	Angled
Factory Set		
Field Adjustable		

NOTE: It is important to note that the pressure rating of the relief valve indicates an operating range of pressure for both opening and closing of the valve. Standard relief valves are required to OPEN in a range of pressure between 90% and 105% of their rating. The valves are required to CLOSE at a pressure above 80% of that rating. The relief valve should be installed where it is easily accessible for maintenance. Care should be taken that the relief valve CANNOT be isolated from the system when the system is operational. A relief valve should NEVER have a shutoff valve or a plug downstream of its outlet.

Reliability, Versatility, Code Compatibility

Model 8511 Base Manifold

SIZE	AGF Item ID	Description
1½"	8530	1½" M8511 x 3/8" Orifice
	8531	1½" M8511 x 7/16" Orifice
	8532	1½" M8511 x 1/2" Orifice
	8533	1½" M8511 x 17/32" Orifice
	8534	1½" M8511 x 5/8" ELO Orifice
2"	8540	2" M8511 x 3/8" Orifice
	8541	2" M8511 x 7/16" Orifice
	8542	2" M8511 x 1/2" Orifice
	8543	2" M8511 x 17/32" Orifice
	8544	2" M8511 x 5/8" ELO Orifice
2½"	8560	2½" M8511 x 3/8" Orifice
	8561	2½" M8511 x 7/16" Orifice
	8562	2½" M8511 x 1/2" Orifice
	8563	2½" M8511 x 17/32" Orifice
	8564	2½" M8511 x 5/8" ELO Orifice
	8565	2½" M8511 x 3/4" ESFR Orifice
3"	8570	3" M8511 x 3/8" Orifice
	8571	3" M8511 x 7/16" Orifice
	8572	3" M8511 x 1/2" Orifice
	8573	3" M8511 x 17/32" Orifice
	8574	3" M8511 x 5/8" ELO Orifice
	8575	3" M8511 x 3/4" ESFR Orifice
4"	8580	4" M8511 x 3/8" Orifice
	8581	4" M8511 x 7/16" Orifice
	8582	4" M8511 x 1/2" Orifice
	8583	4" M8511 x 17/32" Orifice
	8584	4" M8511 x 5/8" ELO Orifice
	8585	4" M8511 x 3/4" ESFR Orifice
	8586	4" M8511 x K25 Orifice
6"	8590	6" M8511 x 3/8" Orifice
	8591	6" M8511 x 7/16" Orifice
	8592	6" M8511 x 1/2" Orifice
	8593	6" M8511 x 17/32" Orifice
	8594	6" M8511 x 5/8" ELO Orifice
	8595	6" M8511 x 3/4" ESFR Orifice
	8596	6" M8511 x K25 Orifice

GRV x GRV Pilot Operated PRV's available for all manifold sizes. Contact factory for more info.

Adding a Pressure Reducing Valve?

When adding an optional Pressure Reducing Valve follow the steps below to generate an AGF Item ID.

Note: PRV selection guide only pertains to Direct Acting PRV's 1½" and 2½" manifolds.

Step 1 - Manifold

Choose a desired manifold from the chart to the left and write the Item ID number in Step 1 below.

Step 2 - PRV Orientation

Choose a desired PRV orientation and write the corresponding call letters (IL or AB) in Step 2 below.

IL = In-Line (only available in 2½")

AB = Angled Body

Step 3 - Valve Style/Manufacturer

Choose a desired PRV style and write the corresponding call letters (FAZW, POZW or FSZW) in Step 3 below. FSZW option continue to Step 4.

FAZW = Field Adjustable (only available in 2½")

Zurn Wilkins

POZW = Pilot Operated (In-line only 2", 2½", 3"-6")

Zurn Wilkins

FSZW = Factory Set, Non-Adjustable (2½" or 1½")

Zurn Wilkins

Step 4:

Choose desired Pressure Bonnet (Factory Set Model Only) and write the corresponding letter in Step 4 below. Refer to pressure charts on the next page to determine proper bonnet.

Options:

N	O	P	Q	R	S	T	U
---	---	---	---	---	---	---	---

Example:

Step 1	Step 2	Step 3	Step 4*
Manifold	Orientation	Style	Bonnet
8560	IL	FSZW	N

*When selecting FAZW (Field Adjustable) or POZW (Pilot Operated) PRV Step 4 will be left blank.

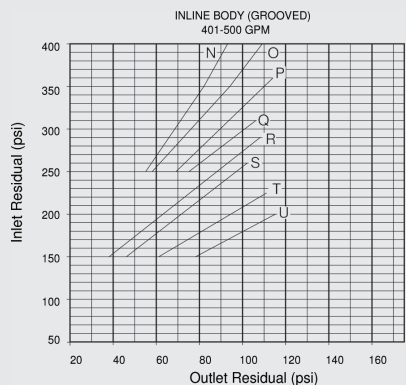
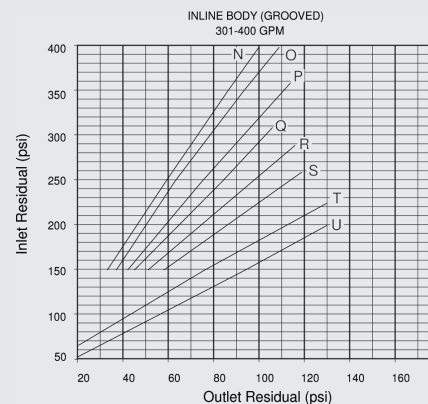
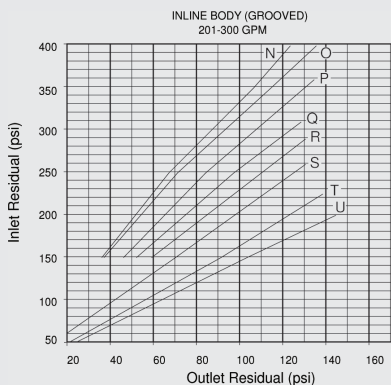
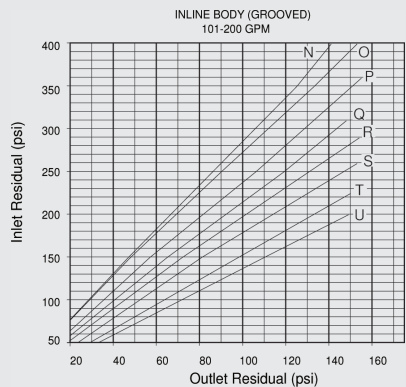
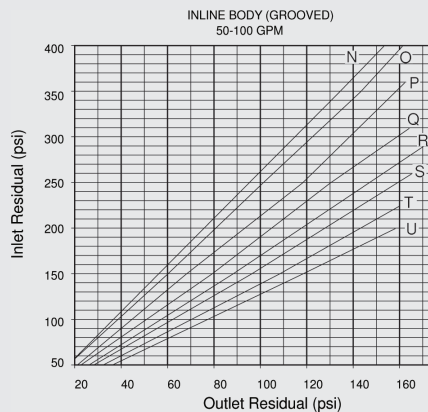
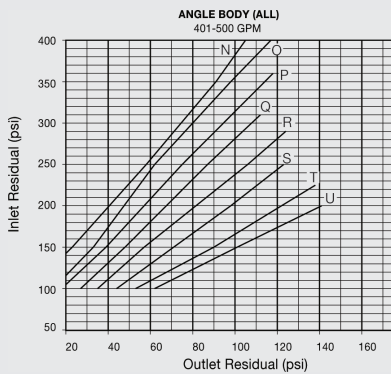
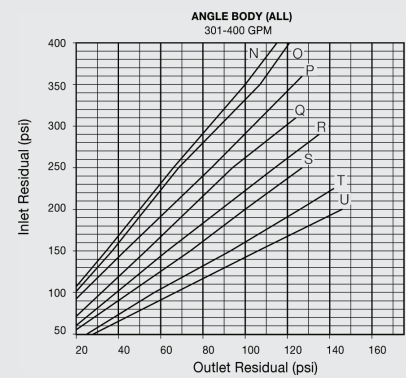
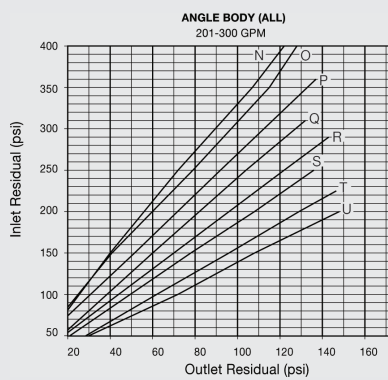
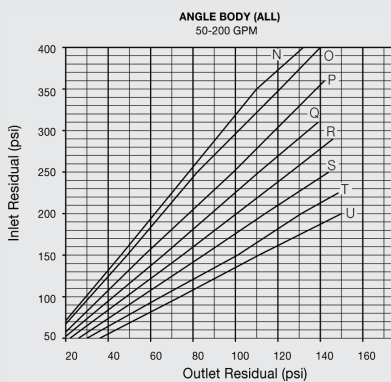
Fill out this table to create the AGF Item ID.

Step 1	Step 2	Step 3	Step 4
Manifold	Orientation	Style	Bonnet

Choosing the Correct Settings

In choosing the correct setting for the Pressure Reducing Valve refer to the charts and the following procedures:

1. Determine the demand in gallons per minute required downstream of the valve.
2. To determine the static outlet pressure, locate the static chart. Determine the valve inlet static pressure shown on the vertical axis and draw a horizontal line from that pressure to the appropriate curve determined above, then draw a vertical line down to the horizontal axis and read the static outlet pressure.
3. Determine the standpipe residual or "flow pressure" at the valve inlet.
4. Locate the appropriate flow chart based on GPM required and body style.
5. Locate the inlet residual pressure on the vertical axis of the chart and draw a horizontal line from this pressure across the chart.
6. Locate the desired valve outlet residual pressure on the horizontal axis of the chart and draw a vertical line from this pressure.
7. The curve nearest the intersection of the two lines drawn is the appropriate type for the valve.



Sizes:

2½"

Field Adjustable Pressure Reducing Valve

- Underwriters Laboratory listed at 400 PSI
- Underwriters Laboratory listed as a checking device
- Reduces pressure under flow (residual) and no flow (static) conditions
- Tamper-resistant setting
- Visual indicator for ON-OFF inspection
- Equipped with four ¼" ports inlet and outlet both sides
- Integral supervisory switch
- In-line or angle style cast brass body
- Grooved inlet and outlet



Sizes:

2"

2½"

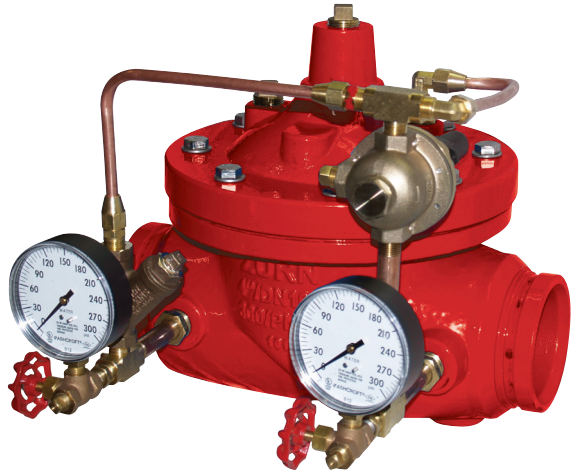
3"

4"

6"

Pilot Operated Pressure Reducing Valve

- Underwriters Laboratory listed at 300 PSI
- Maintains constant downstream set pressure
- Minimal pressure loss through valve
- Pilot spring range: 50-165 PSI outlet
- Red epoxy coated cast iron body
- By-pass includes pressure gauges: 0-300 PSI
- Grooved inlet and outlet



AGF Manufacturing Inc.

100 Quaker Lane • Malvern, PA 19355

Phone: 610-240-4900 • Fax: 610-240-4906

www.testandrain.com