

UL/FM PRODUCTS FOR

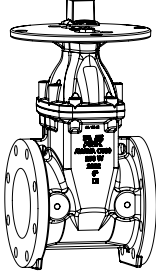
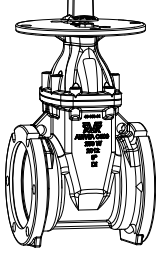
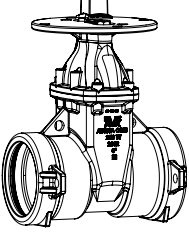
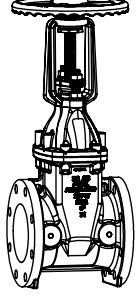
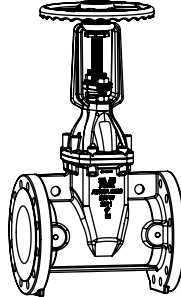
# FIRE PROTECTION

UL/FM PRODUCTS FOR FIRE PROTECTION

## UL/FM PRODUCTS FOR FIRE PROTECTION ACRONYMS :

**ANSI - American National Standards Institute**  
**AWWA - American Water Works Association**  
**DIPS - Ductile Iron Pipe Size**  
**EPDM - Ethylene Propylene Diene Monomer**  
**FL - Flange**  
**FM - Factory Mutual**  
**GR - Grooved**  
**HDPE - High Density Polyethylene**  
**IPS - Iron Pipe Size**  
**MJ - Mechanical Joint**  
**NBR - Nitrile Butyl Rubber**

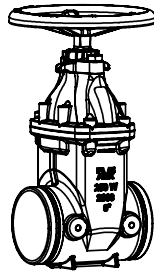
**NRS - Non Rising Stem**  
**NPT - National Pipe Thread**  
**OS&Y - Outside Screw/Stem & Yoke**  
**PE - Polyethylene**  
**PIV - Post Indicator Valve**  
**PO - Push - On**  
**PUR - Polyurethane**  
**SS - Stainless Steel**  
**UL - Underwriters Laboratories**

Type	AVK Ref. #	Size	Weight		Price US \$																																												
			kg	lb																																													
<p><b>Series 45/FFP</b>  <b>FL X FL, PIV,</b>  <b>Full wall ductile iron</b>  <b>125 lb. Flange</b></p> <p>to AWWA C509/C515                      Flanged ends                      to ASME B 16.42                      Class 150                      NRS                      250 PSI 4"-12"                      200 PSI 14"-16"</p> 	<table border="1"> <tr><td>45-100-FFP</td><td>4"</td><td>38</td><td>84</td><td>1,421</td></tr> <tr><td>45-150-FFP</td><td>6"</td><td>63</td><td>139</td><td>1,811</td></tr> <tr><td>45-200-FFP</td><td>8"</td><td>82</td><td>181</td><td>2,685</td></tr> <tr><td>45-250-FFP</td><td>10"</td><td>121</td><td>267</td><td>4,111</td></tr> <tr><td>45-300-FFP</td><td>12"</td><td>174</td><td>391</td><td>4,911</td></tr> <tr><td>45-350-FFP</td><td>14"</td><td>278</td><td>613</td><td>14,761</td></tr> <tr><td>45-400-FFP</td><td>16"</td><td>377</td><td>831</td><td>15,989</td></tr> </table> <p>Use UL/FM discount</p>	45-100-FFP	4"	38	84	1,421	45-150-FFP	6"	63	139	1,811	45-200-FFP	8"	82	181	2,685	45-250-FFP	10"	121	267	4,111	45-300-FFP	12"	174	391	4,911	45-350-FFP	14"	278	613	14,761	45-400-FFP	16"	377	831	15,989													
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<p><b>Series 45/MMP</b>  <b>MJ X MJ, PIV</b>  <b>Full wall ductile iron</b></p> <p>to AWWA C509/C515                      Mechanical joint ends                      NRS                      250 PSI 4"-12"                      200 PSI 14"-16"</p> 	<table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td>less MJ accessories</td></tr> <tr><td>45-100-FFP</td><td>4"</td><td>41</td><td>89</td><td>1,431</td><td></td></tr> <tr><td>45-150-FFP</td><td>6"</td><td>61</td><td>133</td><td>1,755</td><td></td></tr> <tr><td>45-200-FFP</td><td>8"</td><td>90</td><td>199</td><td>2,639</td><td></td></tr> <tr><td>45-250-FFP</td><td>10"</td><td>135</td><td>298</td><td>3,969</td><td></td></tr> <tr><td>45-300-FFP</td><td>12"</td><td>174</td><td>383</td><td>4,953</td><td></td></tr> <tr><td>45-350-FFP</td><td>14"</td><td>278</td><td>613</td><td>14,761</td><td></td></tr> <tr><td>45-400-FFP</td><td>16"</td><td>377</td><td>831</td><td>15,989</td><td></td></tr> </table> <p>Use UL/FM discount</p>						less MJ accessories	45-100-FFP	4"	41	89	1,431		45-150-FFP	6"	61	133	1,755		45-200-FFP	8"	90	199	2,639		45-250-FFP	10"	135	298	3,969		45-300-FFP	12"	174	383	4,953		45-350-FFP	14"	278	613	14,761		45-400-FFP	16"	377	831	15,989	
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<p><b>Series 45/FFOH</b>  <b>FL X FL OS&amp;Y</b>  <b>Full wall ductile iron</b>  <b>250 lb. Flange</b></p> <p>to AWWA C509/C515                      Flanged ends                      to ASME B 16.42                      Class 250 OS&amp;Y                      250 PSI                      Size 4"-12"</p> 	<table border="1"> <tr><td>45-100-FFOH</td><td>4"</td><td>52</td><td>113</td><td>4,475</td></tr> <tr><td>45-150-FFOH</td><td>6"</td><td>92</td><td>202</td><td>5,025</td></tr> <tr><td>45-200-FFOH</td><td>8"</td><td>137</td><td>301</td><td>6,725</td></tr> <tr><td>45-250-FFOH</td><td>10"</td><td>182</td><td>400</td><td>10,200</td></tr> <tr><td>45-300-FFOH</td><td>12"</td><td>256</td><td>563</td><td>12,275</td></tr> </table> <p>Use UL/FM discount</p>	45-100-FFOH	4"	52	113	4,475	45-150-FFOH	6"	92	202	5,025	45-200-FFOH	8"	137	301	6,725	45-250-FFOH	10"	182	400	10,200	45-300-FFOH	12"	256	563	12,275																							
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**Type**

**Series 45/GGN**  
**IPS GR X GR**  
**Ductile iron body**

Grooved ends (IPS)  
 to AWWA C606  
 NRS  
 250 PSI  
 Size 3"-8"



**AVK Ref. #**

**Size**

**Weight**  
 kg lb

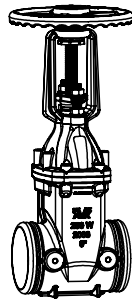
**Price**  
 US \$

45-080-GGN	3"	16	35	1,247
45-100-GGN	4"	21	46	1,393
45-150-GGN	6"	40	87	1,863
45-200-GGN	8"	61	133	2,929

Use UL/FM discount

**Series 45/GGO**  
**IPS GR X GR OS&Y**  
**Ductile iron body**

Grooved ends (IPS)  
 to AWWA C606  
 OS&Y  
 250 PSI  
 Size 3"-8"



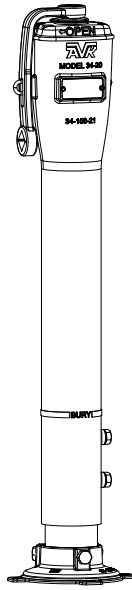
45-080-GGO	3"	18	40	1,065
45-100-GGO	4"	26	56	1,273
45-150-GGO	6"	47	103	1,855
45-200-GGO	8"	72	157	3,039

Use UL/FM discount

**Type**

**Series 34/0X  
Telescopic Indicator Post  
Above ground  
Up-right model**

UL listed and  
FM approved



**AVK Ref. #**

**Size**

**Weight  
kg lb**

**Price  
US \$**

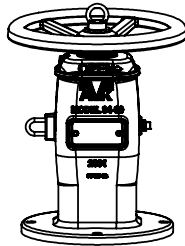
AVK Ref. #	Size	Min-Max. Bury Depth		kg	lb	Price US \$
34-100-0X	4"	33"-56"	72	156	1,799	
34-100-0X	4"	55"-78"	86	188	2,077	
34-100-0X	4"	77"-100"	100	219	2,243	
34-150-0X	6"	38"-61"	72	156	1,799	
34-150-0X	6"	60"-83"	86	188	2,077	
34-150-0X	6"	82"-105"	100	219	2,243	
34-200-0X	8"	42.5"-65.5"	72	282	1,799	
34-200-0X	8"	64.5"-87.5"	86	367	2,077	
34-200-0X	8"	86.5"-109.5"	100	592	2,243	
34-250-0X	10"	47"-70"	72	156	1,799	
34-250-0X	10"	69"-92"	86	186	2,077	
34-250-0X	10"	91"-114"	100	219	2,243	
34-300-0X	12"	51"-74"	72	156	1,799	
34-300-0X	12"	73"-96"	86	186	2,077	
34-300-0X	12"	95"-118"	100	219	2,243	
34-350-0X	14"	61"-84"	72	156	1,799	
34-350-0X	14"	83"-106"	86	186	2,077	
34-350-0X	14"	105"-128"	100	219	2,243	
34-400-0X*	16"	61"-84"	72	156	1,799	
34-400-0X*	16"	83"-106"	86	186	2,077	
34-400-0X*	16"	105"-128"	100	219	2,243	

\* Not FM approved

Ductile iron lower barrel add 25%

**Series 34/8X  
Indicator post  
Wall model**

UL listed and  
FM approved



**Stem Length  
In.**

AVK Ref. #	Size	Stem Length In.		kg	lb	Price US \$
34-100-8X	4"	10"	29.0	64	1,705	
34-100-8X	4"	30"	31.5	69	1,793	
34-100-8X	4"	50"	34.0	75	1,883	
34-150-8X	6"	10"	29.0	64	1,705	
34-150-8X	6"	30"	31.5	69	1,793	
34-150-8X	6"	50"	100	75	1,883	
34-200-8X	8"	10"	29.0	64	1,705	
34-200-8X	8"	30"	31.5	69	1,793	
34-200-8X	8"	50"	34.0	75	1,883	
34-250-8X	10"	10"	29.0	64	1,705	
34-250-8X	10"	30"	31.5	69	1,793	
34-250-8X	10"	50"	34.0	75	1,883	
34-300-8X	12"	10"	29.0	64	1,705	
34-300-8X	12"	30"	31.5	69	1,793	
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34-350-8X	14"	50"	34.0	75	1,883	
34-400-8X*	16"	10"	29.0	64	1,705	
34-400-8X*	16"	30"	31.5	69	1,793	
34-400-8X*	16"	50"	34.0	75	1,883	

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