

“ConF V5” Series

2-Way Wafer Type Constant Flow Balancing Valve

PRODUCT SPECIFICATION SHEET



FEATURES

- In this balanced valve design, the cartridge in the valve moves up and down automatically to maintain constant flow when there is system pressure fluctuation
- Every loop automatically limited to design flow
- Robust design save installation space.
- Simplified pipe design and calculation
- Quick and easy setup
- No balancing debug work required
- Stainless steel valve stem resists corrosion & thus the valve has a long service life

SPECIFICATIONS

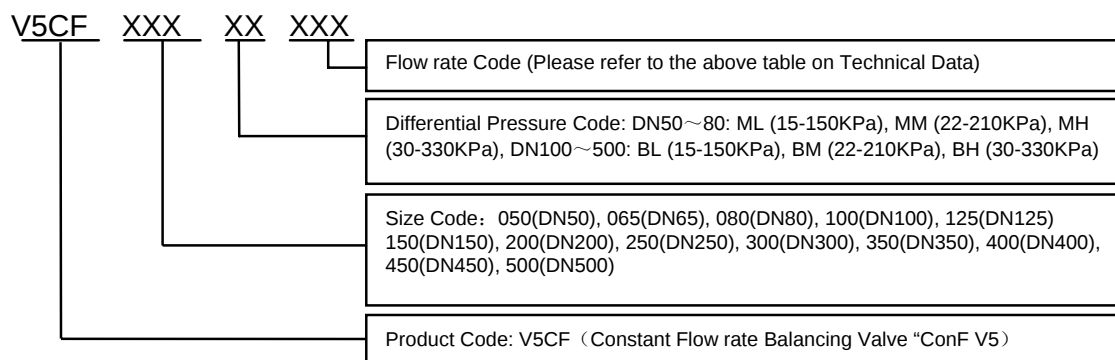
Size Range:	DN50~500
Flow Precision:	+/- 5%
Pressure Rating:	Static 375 psi (25 Bars), Burst 1875 psi (125 Bars)
End Connections:	Compatible with DIN EN 1092-1 2002 steel flanges
Medium:	Water
Media temperature:	0~ 110°C
Valve Material:	Body of ductile iron Cartridge of stainless steel O-ring seals of EPDM
Operating ambient temperature:	0 to 65°C
Shipping & storage temperature:	-40 to +65°C
Atmosphere:	Non-corrosive, non-explosive

APPLICATION

Honeywell “ConF V5” series dynamic balancing valve is designed for constant flow control in HVAC hydronic system. It keeps the flow constant within the specified working differential pressure range when system pressure fluctuates.

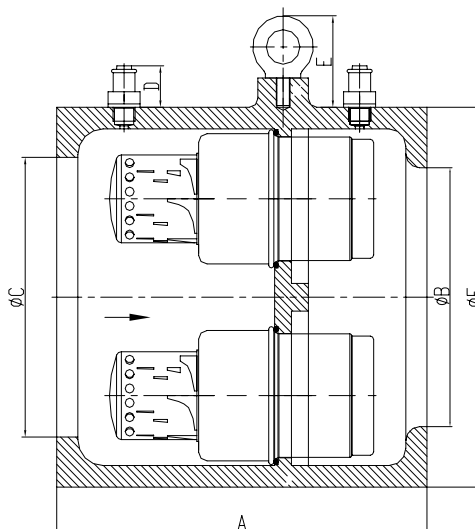
“ConF V5” series constant flow rate balancing valve is a self-balanced flow control valve used in 2-way controls for sizes from DN50-DN500.

OS Number Structure:

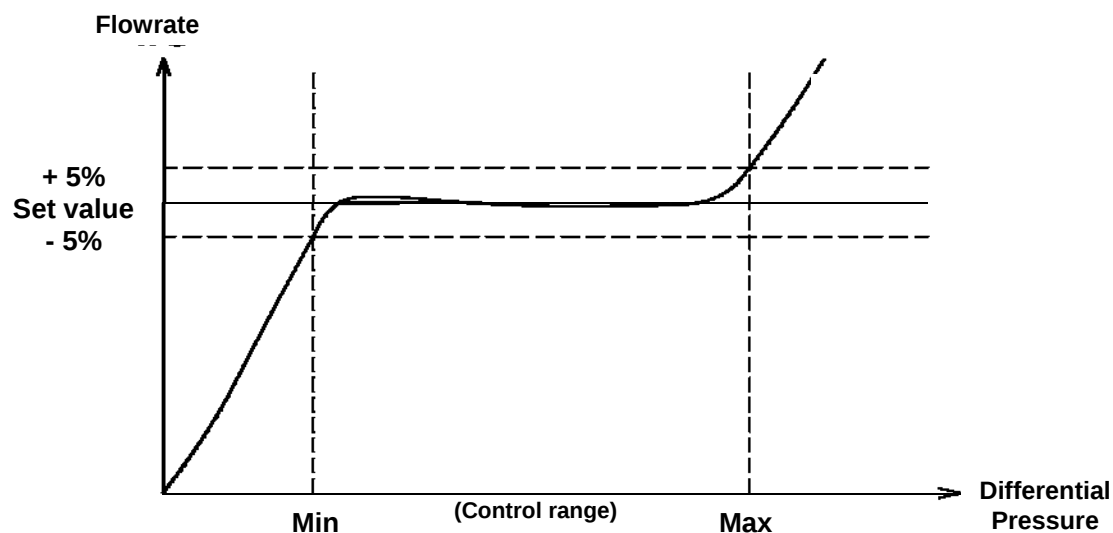


Dimension and Weight:

Size	A	B	C	D	E	F	Weight(Kg)
DN50	180	50	83	24		106	5.7
DN65	180	65	83	24		120	5.9
DN80	180	80	83	24		132	6.2
DN100	220	100	133	24		177	10.7
DN125	220	125	140	24		193	15.3
DN150	220	150	162	24	53	220	21.7
DN200	220	200	214	24	53	280	30.2
DN250	220	250	280	24	53	341	34.5
DN300	223	300	328	24	69	400	50.7
DN350	223	350	382	24	69	448	58.8
DN400	242	400	440	24	69	510	90.3
DN450	242	450	487	24	69	560	110.8
DN500	242	500	545	24	69	618	149.7



Flowrate-Differential Pressure Characteristic Curve

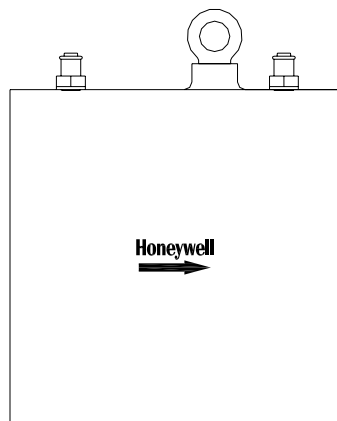


Technical Data:

Size	DP Range (KPa)	Flow rate (m ³ /h) / Flow rate Code
DN50	15-150	5.44/ <u>003</u> , 5.90/ <u>004</u> , 6.37/ <u>005</u> , 6.80/ <u>006</u> , 7.27/ <u>007</u> , 7.70/ <u>008</u> , 8.17/ <u>009</u> , 8.64/ <u>010</u> , 9.07/ <u>011</u> , 9.54/ <u>012</u> , 10.01/ <u>013</u> , 10.44/ <u>014</u> , 10.91/ <u>015</u> , 11.34/ <u>016</u> , 11.81/ <u>017</u> , 12.28/ <u>018</u> , 12.71/ <u>019</u> , 13.18/ <u>020</u> , 13.95/ <u>021</u>
	22-210	14.18/ <u>016</u> , 14.76/ <u>017</u> , 15.34/ <u>018</u> , 15.91/ <u>019</u> , 16.45/ <u>020</u> , 17.43/ <u>021</u>
	33-330	17.93/ <u>019</u> , 18.54/ <u>020</u> , 19.42/ <u>021</u>
DN65	15-150	6.80/ <u>006</u> , 7.27/ <u>007</u> , 7.70/ <u>008</u> , 8.17/ <u>009</u> , 8.64/ <u>010</u> , 9.07/ <u>011</u> , 9.54/ <u>012</u> , 10.01/ <u>013</u> , 10.44/ <u>014</u> , 10.91/ <u>015</u> , 11.34/ <u>016</u> , 11.81/ <u>017</u> , 12.28/ <u>018</u> , 12.71/ <u>019</u> , 13.18/ <u>020</u> , 13.95/ <u>021</u>
	22-210	14.18/ <u>016</u> , 14.76/ <u>017</u> , 15.34/ <u>018</u> , 15.91/ <u>019</u> , 16.45/ <u>020</u> , 17.43/ <u>021</u>
	33-330	17.93/ <u>019</u> , 18.54/ <u>020</u> , 19.42/ <u>021</u>
DN80	15-150	7.27/ <u>007</u> , 7.70/ <u>008</u> , 8.17/ <u>009</u> , 8.64/ <u>010</u> , 9.07/ <u>011</u> , 9.54/ <u>012</u> , 10.01/ <u>013</u> , 10.44/ <u>014</u> , 10.91/ <u>015</u> , 11.34/ <u>016</u> , 11.81/ <u>017</u> , 12.28/ <u>018</u> , 12.71/ <u>019</u> , 13.18/ <u>020</u> , 13.95/ <u>021</u>
	22-210	14.18/ <u>016</u> , 14.76/ <u>017</u> , 15.34/ <u>018</u> , 15.91/ <u>019</u> , 16.45/ <u>020</u> , 17.43/ <u>021</u>
	33-330	17.93/ <u>019</u> , 18.54/ <u>020</u> , 19.42/ <u>021</u>
DN100	15-150	8.17/ <u>009</u> , 9.07/ <u>011</u> , 10.01/ <u>013</u> , 10.91/ <u>015</u> , 11.81/ <u>017</u> , 12.71/ <u>019</u> , 13.61/ <u>021</u> , 15.40/ <u>023</u> , 17.28/ <u>025</u> , 19.08/ <u>027</u> , 20.88/ <u>029</u> , 22.68/ <u>031</u> , 24.56/ <u>033</u> , 26.89/ <u>035</u>
	22-210	28.36/ <u>031</u> , 30.68/ <u>033</u> , 32.9/ <u>035</u> , 36.08/ <u>037</u>
	33-330	37.66/ <u>035</u>
DN125	15-150	11.81/ <u>017</u> , 12.71/ <u>019</u> , 13.61/ <u>021</u> , 15.40/ <u>023</u> , 17.28/ <u>025</u> , 19.08/ <u>027</u> , 20.88/ <u>029</u> , 22.68/ <u>031</u> , 24.56/ <u>033</u> , 26.89/ <u>035</u> , 28.62/ <u>037</u> , 31.32/ <u>039</u> , 34.02/ <u>041</u> , 36.84/ <u>043</u> , 40.09/ <u>045</u> , 41.76/ <u>047</u> , 45.36/ <u>049</u> , 49.12/ <u>051</u> , 53.27/ <u>053</u>
	22-210	42.52/ <u>041</u> , 46.02/ <u>043</u> , 50.02/ <u>045</u>
	33-330	51.84/ <u>043</u> , 56.26/ <u>045</u>
DN150	15-150	15.40/ <u>023</u> , 17.28/ <u>025</u> , 19.08/ <u>027</u> , 20.88/ <u>029</u> , 22.68/ <u>031</u> , 24.56/ <u>033</u> , 26.89/ <u>035</u> , 28.62/ <u>037</u> , 31.32/ <u>039</u> , 34.02/ <u>041</u> , 36.84/ <u>043</u> , 40.09/ <u>045</u> , 41.76/ <u>047</u> , 45.36/ <u>049</u> , 49.12/ <u>051</u> , 53.27/ <u>053</u>
	22-210	56.72/ <u>049</u> , 61.36/ <u>051</u> , 66.24/ <u>053</u>
	33-330	69.12/ <u>051</u> , 75.07/ <u>053</u>
DN200	15-150	40.09/ <u>045</u> , 41.76/ <u>047</u> , 45.36/ <u>049</u> , 49.12/ <u>051</u> , 53.27/ <u>053</u> , 57.19/ <u>055</u> , 63.49/ <u>057</u> , 70.07/ <u>059</u> , 76.37/ <u>061</u> , 82.67/ <u>063</u> , 88.97/ <u>065</u> , 97.14/ <u>067</u>
	22-210	99.26/ <u>069</u> , 103.32/ <u>071</u> , 107.38/ <u>073</u> , 111.37/ <u>075</u> , 115.15/ <u>077</u> , 121.15/ <u>079</u>
	33-330	123.56/ <u>075</u> , 127.95/ <u>077</u> , 134.19/ <u>079</u>
DN250	15-150	70.07/ <u>059</u> , 76.37/ <u>061</u> , 82.67/ <u>063</u> , 88.97/ <u>065</u> , 97.14/ <u>067</u> , 104.94/ <u>069</u> , 114.84/ <u>071</u> , 124.74/ <u>073</u> , 135.08/ <u>075</u> , 146.23/ <u>077</u>
	22-210	155.98/ <u>091</u> , 162.36/ <u>093</u> , 168.74/ <u>095</u> , 175.01/ <u>097</u> , 180.95/ <u>099</u> , 189.58/ <u>101</u>
	33-330	193.38/ <u>097</u> , 200.89/ <u>099</u> , 209.33/ <u>101</u>
DN300	15-150	104.94/ <u>069</u> , 114.84/ <u>071</u> , 124.74/ <u>073</u> , 135.08/ <u>075</u> , 146.23/ <u>077</u> , 150.15/ <u>079</u> , 163.65/ <u>081</u> , 177.15/ <u>083</u> , 190.65/ <u>085</u> , 206.47/ <u>087</u>
	22-210	212.7/ <u>107</u> , 221.4/ <u>109</u> , 230.1/ <u>111</u> , 238.65/ <u>113</u> , 246.75/ <u>115</u> , 257.88/ <u>117</u>
	33-330	259.2/ <u>113</u> , 268.95/ <u>115</u> , 278.1/ <u>117</u> , 290.33/ <u>119</u>
DN350	15-150	163.65/ <u>081</u> , 177.15/ <u>083</u> , 190.65/ <u>085</u> , 206.47/ <u>087</u> , 213.50/ <u>089</u> , 226.8/ <u>091</u> , 236.2/ <u>093</u> , 245.6/ <u>095</u> , 254.2/ <u>097</u> , 263.6/ <u>099</u> , 275.7/ <u>101</u> , 283.5/ <u>103</u> , 295.25/ <u>105</u> , 307/ <u>107</u>
	22-210	277.9/ <u>121</u> , 289.4/ <u>123</u> , 301/ <u>125</u> , 312.5/ <u>127</u> , 323.6/ <u>129</u> , 336.9/ <u>131</u>
	33-330	352.1/ <u>129</u> , 364.7/ <u>131</u> , 380.8/ <u>133</u>
DN400	15-150	190.65/ <u>085</u> , 204.15/ <u>087</u> , 213.50/ <u>089</u> , 226.8/ <u>091</u> , 236.2/ <u>093</u> , 245.6/ <u>095</u> , 254.2/ <u>097</u> , 263.6/ <u>099</u> , 275.7/ <u>101</u> , 283.5/ <u>103</u> , 295.25/ <u>105</u> , 307/ <u>107</u> , 317.75/ <u>109</u> , 329.5/ <u>111</u> , 343.67/ <u>113</u>
	22-210	348.8/ <u>133</u> , 363.2/ <u>135</u> , 377.7/ <u>137</u> , 392.05/ <u>139</u> , 405.85/ <u>141</u> , 422.44/ <u>143</u>
	33-330	432/ <u>141</u> , 448.25/ <u>143</u> , 463.5/ <u>145</u> , 482.33/ <u>147</u>
DN450	15-150	245.6/ <u>095</u> , 254.2/ <u>097</u> , 263.6/ <u>099</u> , 275.7/ <u>101</u> , 283.5/ <u>103</u> , 295.25/ <u>105</u> , 307/ <u>107</u> , 317.75/ <u>109</u> , 329.5/ <u>111</u> , 343.67/ <u>113</u> , 351.54/ <u>115</u> , 366.11/ <u>117</u> , 380.68/ <u>119</u> , 394.01/ <u>121</u> , 408.58/ <u>123</u> , 424.88/ <u>125</u>
	22-210	431.03/ <u>145</u> , 448.86/ <u>147</u> , 466.84/ <u>149</u> , 484.66/ <u>151</u> , 501.85/ <u>153</u> , 522.41/ <u>155</u>
	33-330	546.08/ <u>153</u> , 565.59/ <u>155</u> , 590.37/ <u>157</u>
DN500	15-150	275.7/ <u>101</u> , 283.5/ <u>103</u> , 295.25/ <u>105</u> , 307/ <u>107</u> , 317.75/ <u>109</u> , 329.5/ <u>111</u> , 343.67/ <u>113</u> , 351.54/ <u>115</u> , 366.11/ <u>117</u> , 380.68/ <u>119</u> , 394.01/ <u>121</u> , 408.58/ <u>123</u> , 424.88/ <u>125</u> , 436.97/ <u>127</u> , 454.36/ <u>129</u> , 470.27/ <u>131</u> , 487.66/ <u>133</u> , 512.28/ <u>135</u>
	22-210	522.41/ <u>155</u> , 536.26/ <u>157</u> , 557.72/ <u>159</u> , 578.98/ <u>161</u> , 599.47/ <u>163</u> , 642.42/ <u>165</u>
	33-330	652.36/ <u>163</u> , 675.61/ <u>165</u> , 725.39/ <u>167</u>

Installation

1. Read these instructions carefully. Failure to follow them could damage the product or cause hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service-person.
4. Always conduct a thorough checkout when installation is completed.
5. **IMPORTANT:**
For trouble-free operation of the product, good installation practice must include initial system flushing, chemical water treatment and the use of a 50 micron (or finer) system side stream filter(s). Remove all filters before flushing.
6. Suggest using a tentative pipe to do the initial system flushing, and then install the valve in the pipe.
7. Do not use boiler additives, solder flux and wetted materials which are petroleum based or contain mineral oil, hydrocarbons, or ethylene glycol acetate. Compounds which can be used with minimum 50% water dilution are diethylene glycol, ethyleneglycol and propylene glycol (antifreeze solutions).
8. The valve may be installed with flow direction same as the arrow on the valve body. Wrong installation will lead to hydronic system paralysis.
9. Attention not to damage the test cock during installation. (above DN200)



Honeywell

Automation and Control Solutions

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Subject to change without notice.