

facts

HIT Release November 2011

I am pleased to inform you about the new HIT Release November 2011. This is a short overview listing functional and content changes since last release in April 2011.



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November 29, 2011

55 – Marketing and Sales Tool
Product release

Product(s)

Reservation

Facts represents official information from headquarters to the regional companies. Processes, products, solutions, deadlines and conditions named herein may vary from individual regional companies

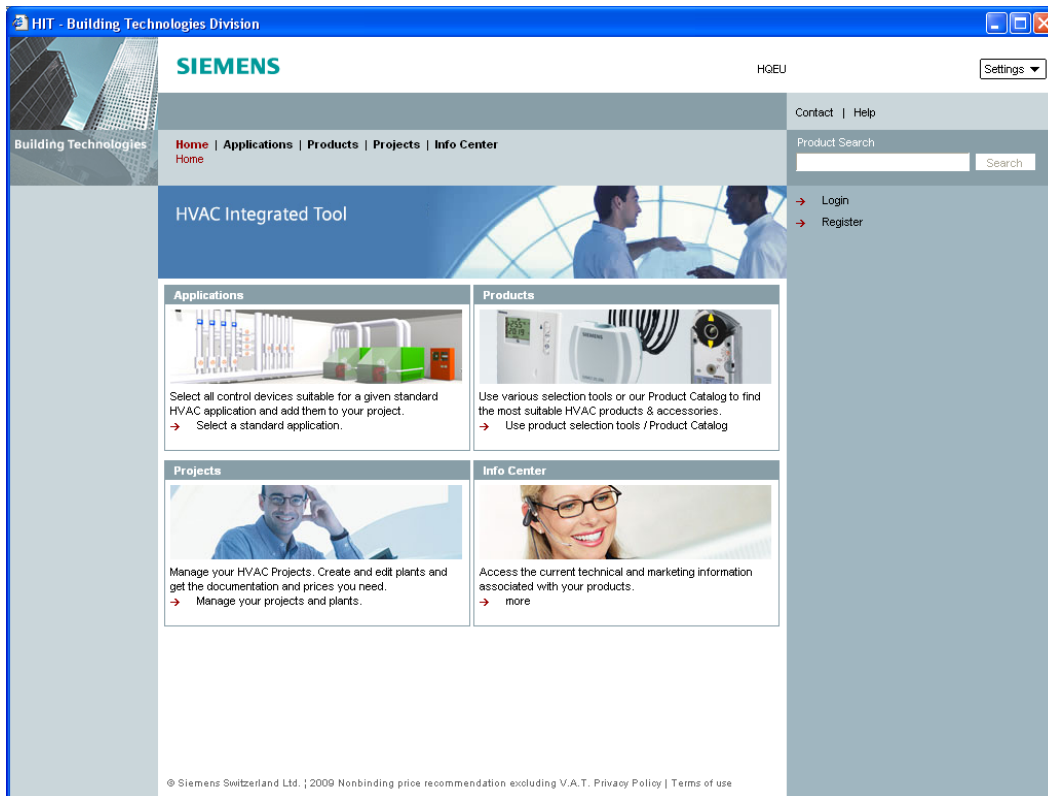
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1 Product description

HVAC Integrated Tool also known as HIT from Siemens Building Technologies provides installation contractors, technical consultants and designers with a software program that simplifies the design of heating, ventilation and air conditioning plants.



If you are not familiar with HIT, you can watch short introduction film (Windows Media Player required):

English https://intranet.sbt.siemens.com/swanlink/swl_supp/sensors/hit/hit_tutorial_en.wmv

German https://intranet.sbt.siemens.com/swanlink/swl_supp/sensors/hit/hit_tutorial_de.wmv

Find HIT online version at: www.siemens.com/hit

2 Major functional changes

This chapter describes the major functional changes in HIT.

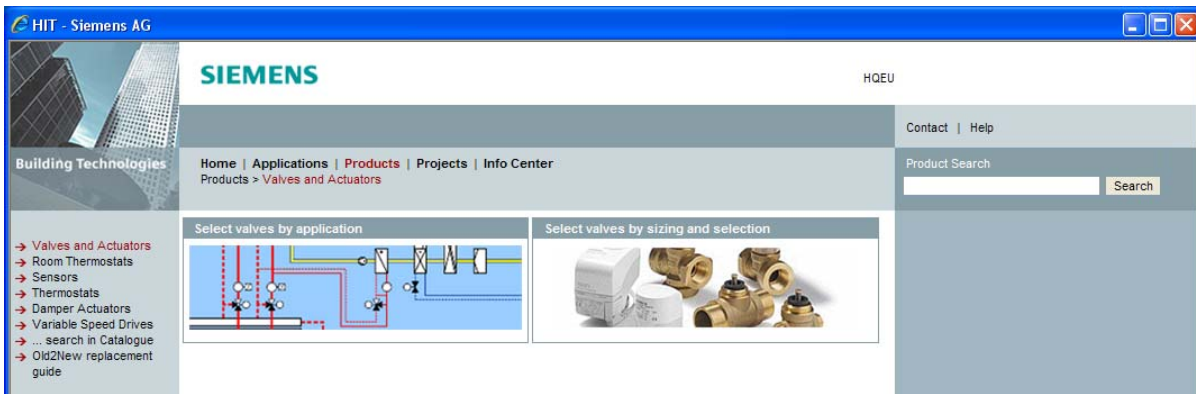
Improved selection module for Valves and Actuators

New HIT release features improvements in Valves and Actuators selection module, based on results of online survey. Module now supports 2 alternative workflows and has better usability.

Next pages provide a short overview of module's functionality.

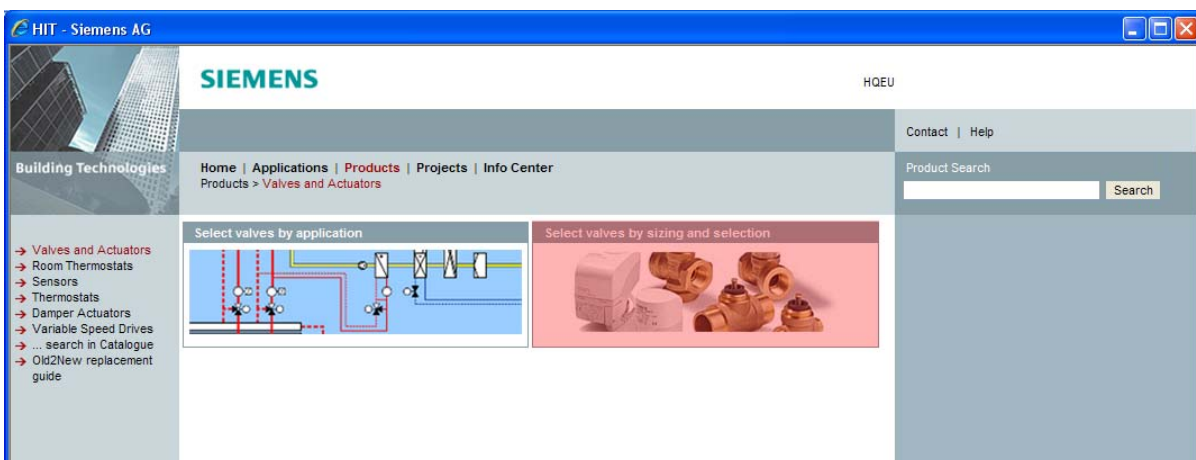
After clicking "Products" and then "Valves and Actuators" user can see portlets representing 2 alternative workflows:

- Select valves by application
- Select valves by sizing and selection



Workflow "Select valves by sizing and selection"

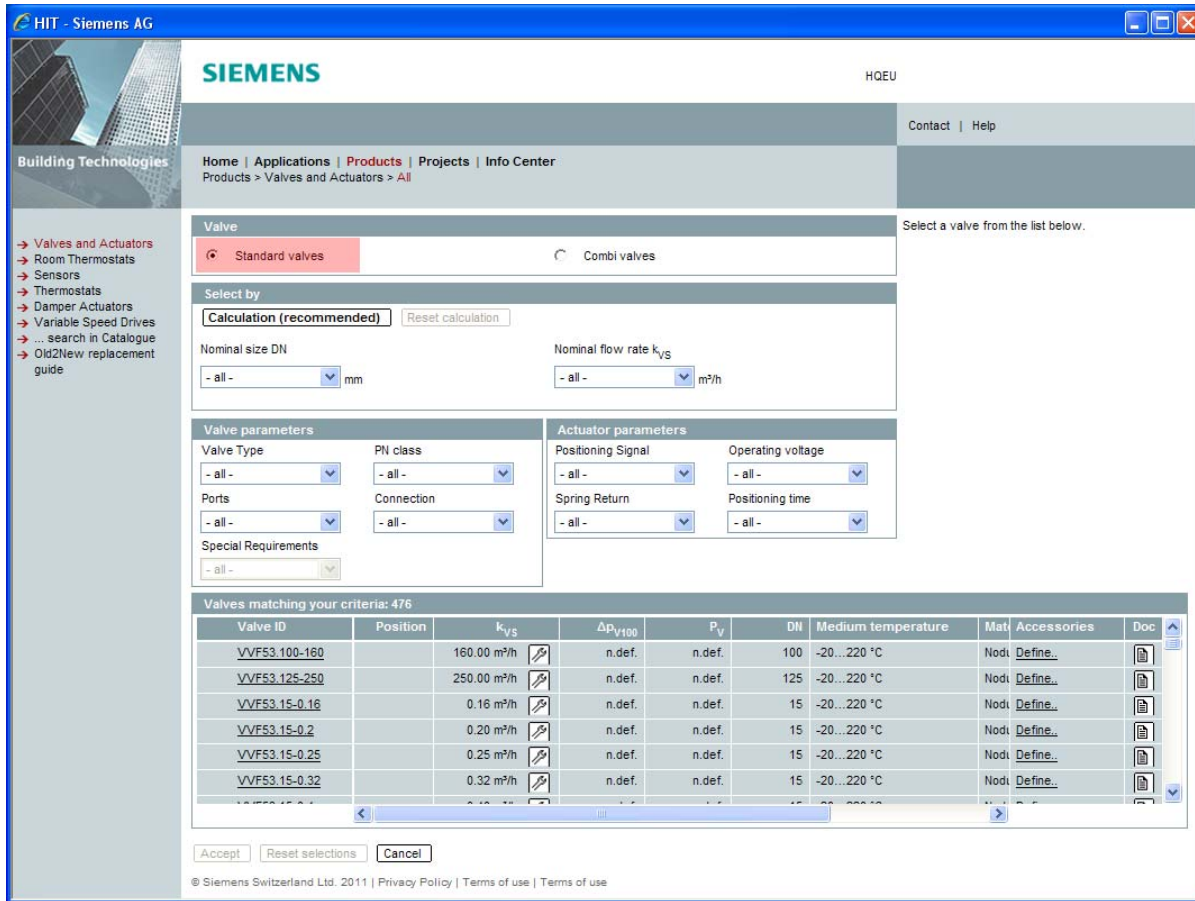
It is recommended for power-users and users who are already familiar with our product portfolio.



Workflow brings user directly to valve selection page. Valves are divided to 2 main groups:

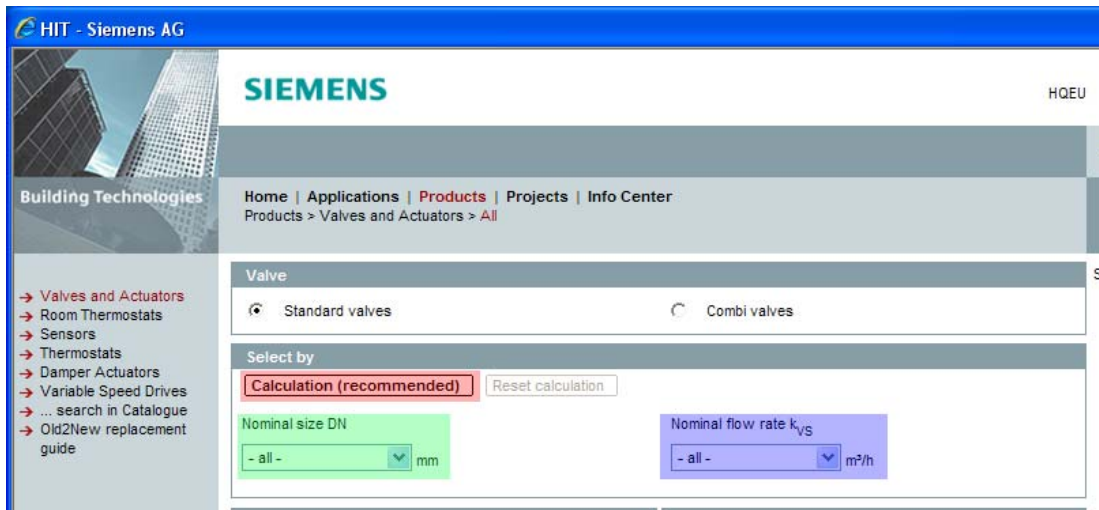
- Standard valves (default pre-selection)
- Combi valves

Selection process for “Standard valves”



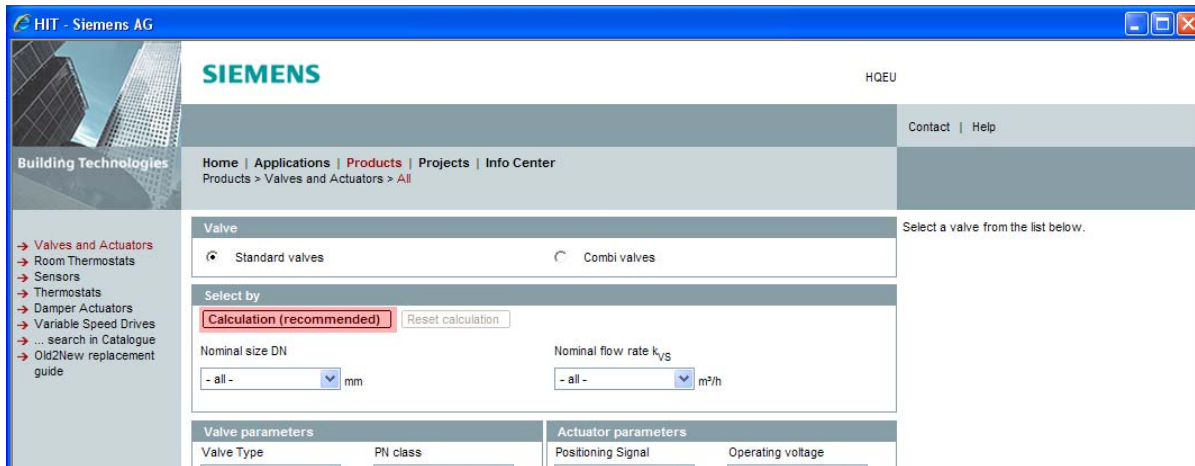
User can select valves by 3 methods:

- Calculation
- Nominal size DN
- Nominal flow rate k_{vs}

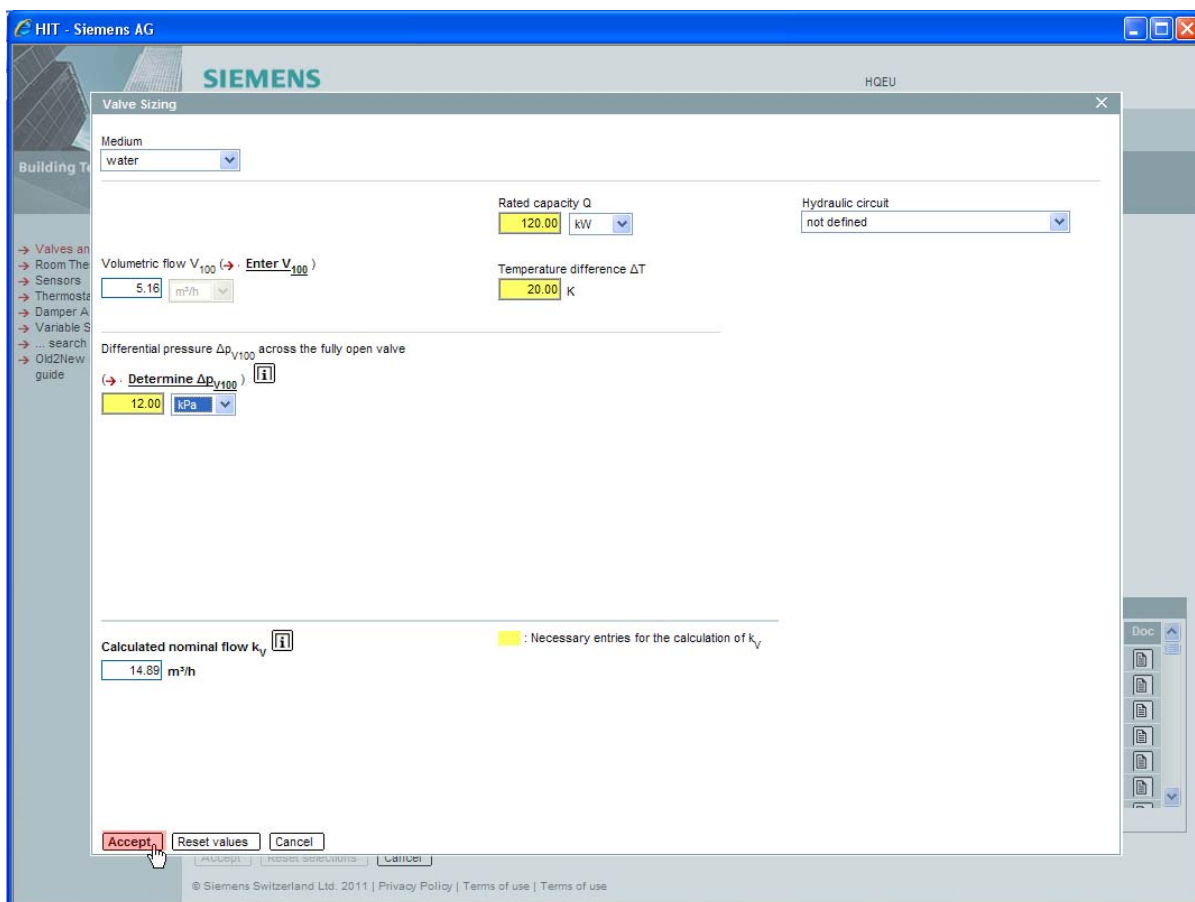


It is recommended to select valves by calculation (sizing). However, in early stages of the project, when not all technical parameters are clear yet and customer needs a rough price estimation, selection by nominal size (DN) can be useful. It can also happen, that calculation (sizing) has been already done by someone else and user needs to find valves corresponding to certain k_v values. In that case selection by nominal flow rate (k_{vs}) can be used.

Selection by calculation:



Sizing page and its handling have not changed:



After completing calculation, user clicks "Accept" button to transfer inputs and result to selection page:

The screenshot shows the Siemens HIT software interface. At the top, there's a navigation bar with 'Home | Applications | Products | Projects | Info Center'. Below that, a sidebar lists various valve types. The main area is titled 'Valve' and shows 'Standard valves' selected. Under 'Select by', there's a 'Calculation (recommended)' button and a 'Reset calculation' button. The calculation results are displayed: Medium: water, Volumetric flow V_{100} : 5.16 m³/h, Differential pressure Δp_{V100} : 12.00 kPa, and Calculated k_v : 14.89 m³/h. Below this, there are sections for 'Valve parameters' and 'Actuator parameters', each with several dropdown menus. At the bottom, a table lists 'Valves matching your criteria: 32' with columns for Valve ID, Position, k_{vs} , Δp_{V100} , P_V , DN, Medium temperature, Material, vs, Accessories, and Doc. Buttons for 'Accept', 'Reset selections', and 'Cancel' are at the bottom left.

When new calculation (sizing) is needed, user can reset it:

This is a close-up of the 'Reset calculation' button in the Siemens HIT software interface. The button is highlighted with a red box and a hand cursor. The surrounding interface shows the 'Valve' section with 'Standard valves' selected, the 'Select by' section with 'Calculation (recommended)' and 'Reset calculation' buttons, and the calculation results: Medium: water, Volumetric flow V_{100} : 5.16 m³/h, Differential pressure Δp_{V100} : 12.00 kPa, and Calculated k_v : 14.89 m³/h. Below this, there are sections for 'Valve parameters' and 'Actuator parameters', each with several dropdown menus.

Rest of selection process is the same as in previous HIT versions.

Selection by Nominal size DN:

Valve

Standard valves
 Combi valves

Select a valve from the list below.

Select by

Calculation (recommended)
 Reset calculation

Nominal size DN: mm

Nominal flow rate k_{VS} : m^3/h

Actuator parameters

Positioning Signal:
 Operating voltage:
 Spring Return:
 Positioning time:

PN class:

Connection:

criteria: 476

	Position	k_{VS}	Δp_{V100}	P_V	DN	Medium temperature	Material, va	Accessories	Doc
		160.00 m^3/h	n.def.	n.def.	100	-20...220 °C	Nodular cast	Define..	
		250.00 m^3/h	n.def.	n.def.	125	-20...220 °C	Nodular cast	Define..	
		0.16 m^3/h	n.def.	n.def.	15	-20...220 °C	Nodular cast	Define..	
VVF53.15-0.2		0.20 m^3/h	n.def.	n.def.	15	-20...220 °C	Nodular cast	Define..	

Nominal flow rate k_{VS}

Valve

Standard valves
 Combi valves

Select a valve from the list below.

Select by

Calculation (recommended)
 Reset calculation

Nominal size DN: mm

Nominal flow rate k_{VS} : m^3/h

Valve parameters

Valve Type:
 Stroke valves:
 Ports:
 2-port:
 Special Requirements:

PN class:

Connection:

Operating voltage:

Positioning time:

Valves matching your criteria: 34

Valve ID	Position	k_{VS}	DN	Medium temperature	Material, va	Accessories	Doc
VVF43.100-125		125.00 m^3/h	100	-20...220 °C	Nodular cast	Define..	
VVF43.100-160		160.00 m^3/h	100	-20...220 °C	Nodular cast	Define..	
VVF43.125-200		200.00 m^3/h	125	-20...220 °C	Nodular cast	Define..	

Note:

It always makes sense for to combine selection by DN or k_{VS} with other selection criteria: "Valve type", "PN class", "Ports", "Connection".

Rest of selection process is the same as in previous HIT versions.

Selection process for “Combi valves”

When “Combi valves” are selected, set of available selection parameters is changed. “Nominal flow rate kvs ” is replaced by “Volumetric flow V_{100} ” and parameters “Valve Type” and “Ports” are deactivated:

The screenshot shows the Siemens HIT software interface. The main window is titled 'HIT - Siemens AG' and 'HQUEU'. The navigation menu on the left includes 'Valves and Actuators', 'Room Thermostats', 'Sensors', 'Thermostats', 'Damper Actuators', 'Variable Speed Drives', '... search in Catalogue', and 'Old2New replacement guide'. The main content area is divided into several sections:

- Valve Selection:** A dropdown menu shows 'Standard valves' and 'Combi valves' (selected).
- Select by:** A 'Calculation (recommended)' button is active, and a 'Reset calculation' button is also present.
- Nominal size DN:** A dropdown menu shows '- all -' and 'mm'.
- Volumetric flow V_{100} :** A dropdown menu shows '- all -' and 'l/h'.
- Valve parameters:** A dropdown menu shows '- all -' and '2-port' (selected).
- Actuator parameters:** A dropdown menu shows '- all -' and 'Operating voltage'.

Below the selection area, a table titled 'Valves matching your criteria: 47' is displayed:

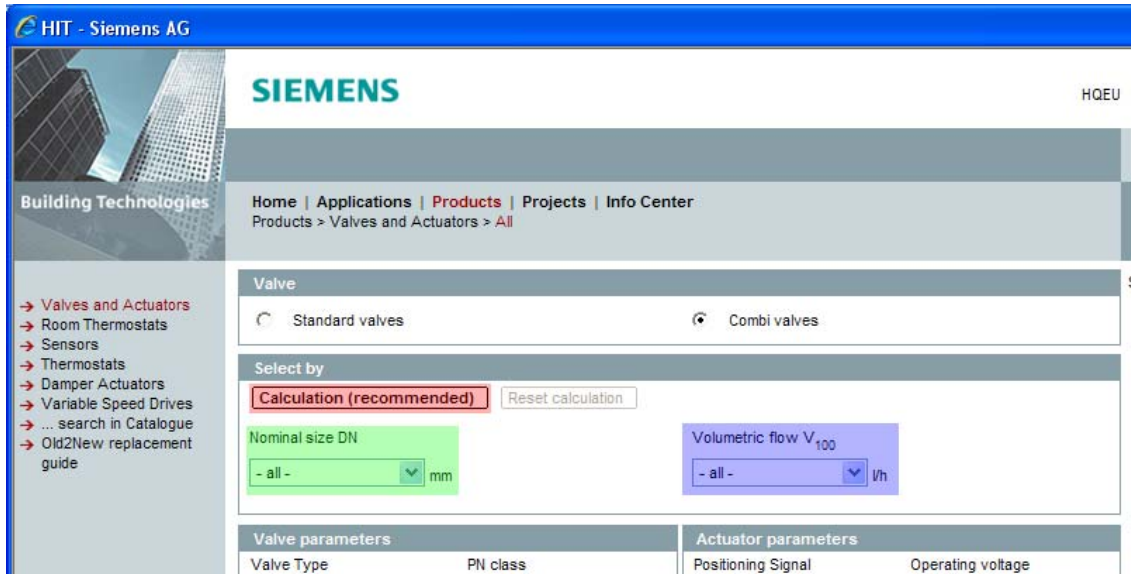
Valve ID	Position	V_{100}	P_V	DN	Medium temperature	Material, valve body	Accessories	Doc
VPH5.15F0.5			n.def.	15	1...120 °C	Dezincification resistan		
VPH5.15F0.5Q			n.def.	15	1...120 °C	Dezincification resistan	Define..	
VPH5.15F1.5			n.def.	15	1...120 °C	Dezincification resistan		
VPH5.15F1.5Q			n.def.	15	1...120 °C	Dezincification resistan	Define..	
VPH5.20F0.9			n.def.	20	1...120 °C	Dezincification resistan		
VPH5.20F0.9Q			n.def.	20	1...120 °C	Dezincification resistan	Define..	

At the bottom of the interface, there are buttons for 'Accept', 'Reset selections', and 'Cancel'. The footer text reads: '© Siemens Switzerland Ltd. 2011 | Privacy Policy | Terms of use | Terms of use'.

User can again select valves by 3 methods:

- Calculation
- Nominal size DN

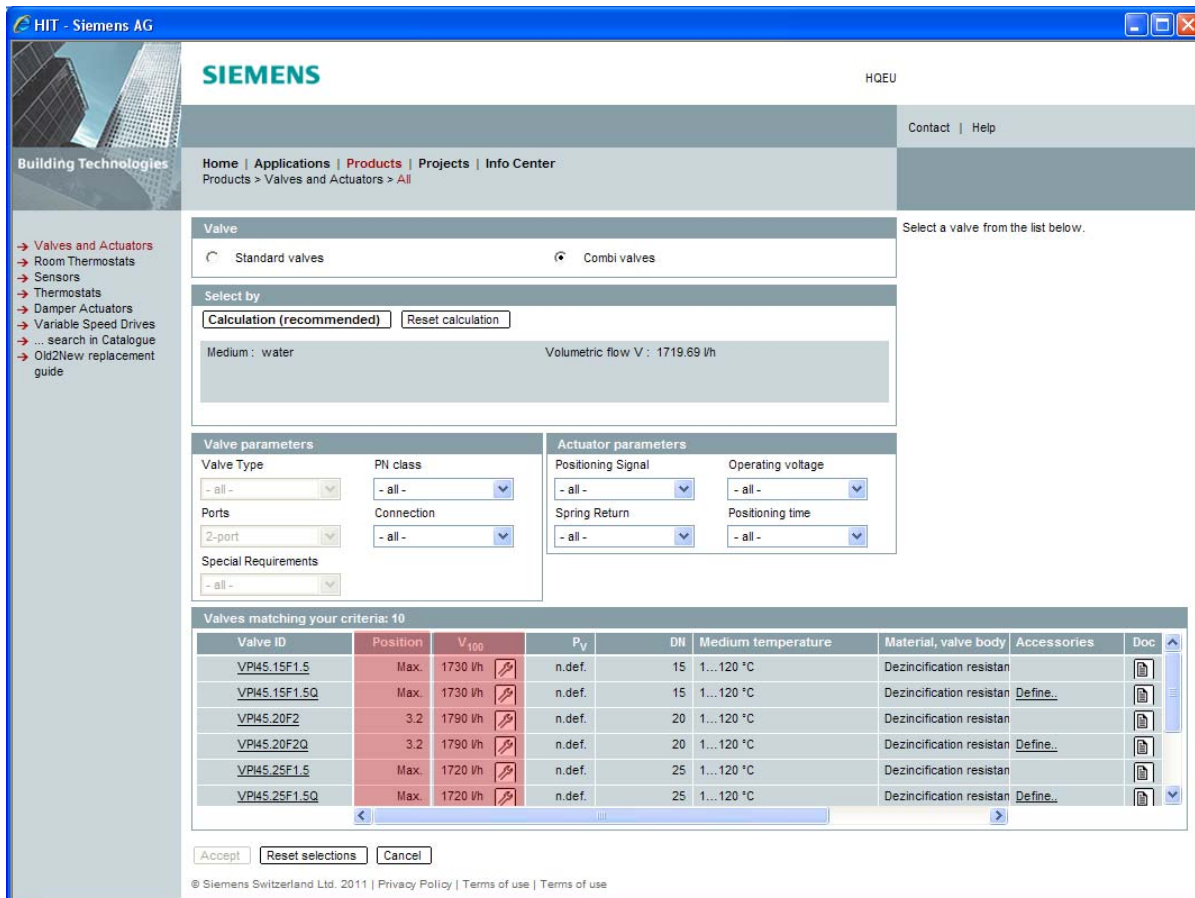
- Volumetric flow V_{100}



Selection by calculation:

Works similar to "Standard valves", only V_{100} is calculated instead of k_v value and sizing page is more simple. After completing calculation, user clicks "Accept" button to transfer inputs and calculated value to selection page.

Result list shows valves that correspond to required volumetric flow V_{100} and their preadjustment position:



Selection by Nominal size DN and Volumetric flow V_{100} :

Works analogically to selection shown for "Standard valves", only V_{100} is used instead of k_{vs} .

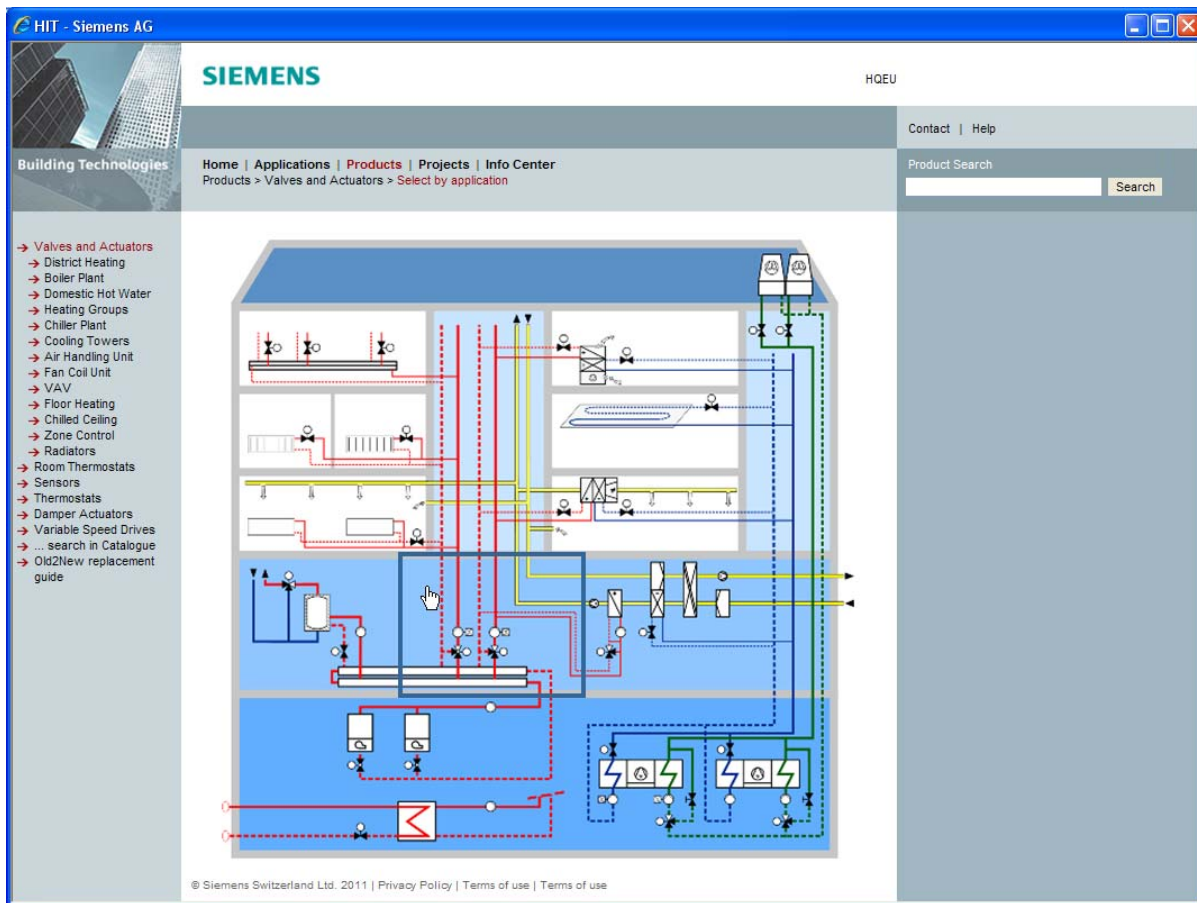
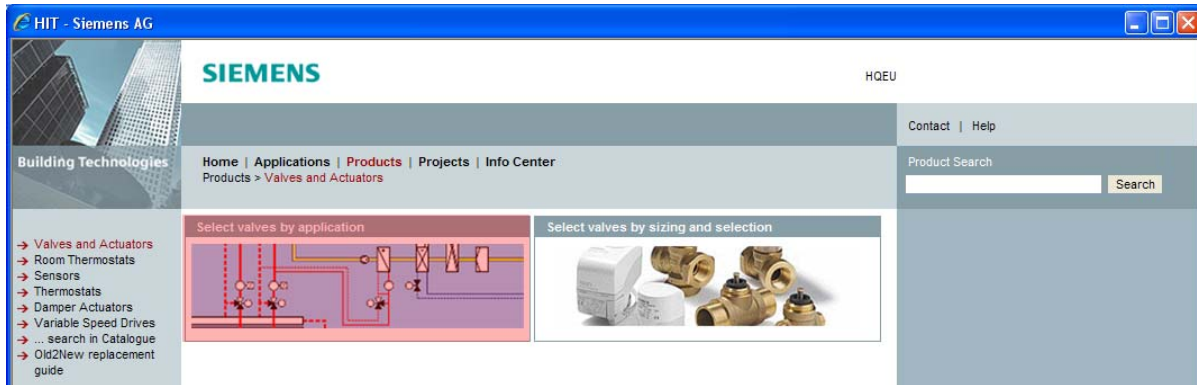
Note:

It always makes sense for to combine selection by DN and/or V_{100} with "PN class" and "Connection".

Rest of selection process is the same as in previous HIT versions.

Workflow "Select valves by application"

It is recommended for users who are not yet familiar with our product portfolio and need stronger guidance. Workflow starts in "House of Valves", where user selects valve application. It has been already existing, therefore detailed description is not necessary.

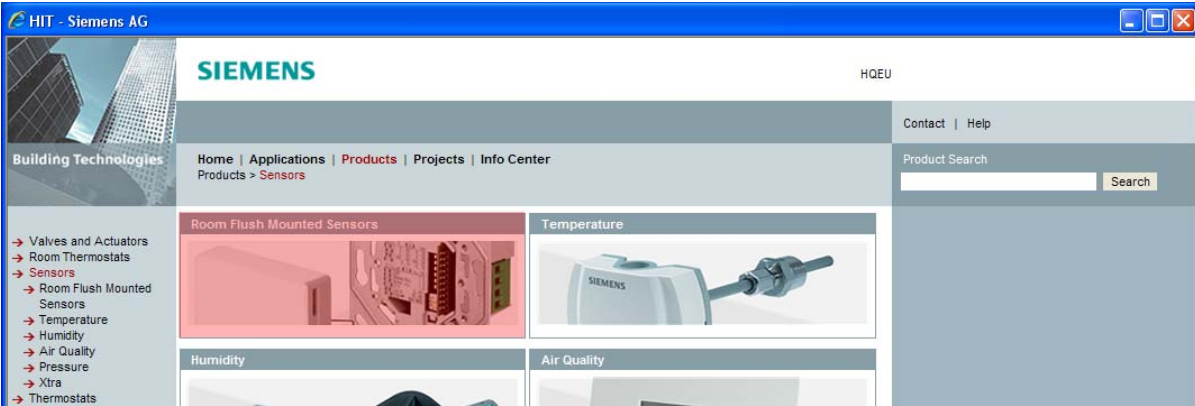


Note:

Both selection and sizing page are the same as in workflow "Select valves by sizing and selection".

Selection module for room flush mounted sensors

The new room flush mounted sensors have dedicated product selection module within "Sensors":



User can select right combination of base and front module by parameters "Mechanical design", "Measured values" and "Output signals". Selection logic is the same as with other sensors, only difference is, that user gets two ASNs as result:

Select required features

Mechanical design
EU (CEE/VDE)

Measured values		Output signals	
Temperature: Yes	Humidity: No	Output for Temperature: DC 0...10 V	Output for Humidity: - all -
VOC: No	CO2: Yes	Output for Air Quality: - all -	Output for CO2: DC 0...10 V

Products matching your criteria: 1

Product no.	Mechanical design	Base Module	Front Module	Temperature	Humidity	VOC	CO2	Outp	Accessories	Doc
AQR2546NF	EU (CEE/VDE)	Yes				No	Yes		Define..	
AQR2532NNW			Yes	Yes	No			DC 0		

Frame can be selected as Accessory:

Products matching your criteria: 1

Product no.	Mechanical design	Base Module	Front Module	Temperature	Humidity	VOC	CO2	Outp	Accessories	Doc
AQR2546NF	EU (CEE/VDE)	Yes				No	Yes		Define..	
AQR2532NNW			Yes	Yes	No			DC 0		

New applications for "Central Operating and Monitoring"

There are 6 new applications for WEB-browser OZW672.. with LPB communication available.

The screenshot shows the Siemens HIT web interface. The top navigation bar includes 'Home | Applications | Products | Projects | Info Center'. The left sidebar lists various building technologies like Heating, Air Handling, Cooling, etc. The main content area is titled 'Main search criteria' and contains several filter sections: 'Plant operating' (Operate with: - all -), 'Field bus protocol' (Field bus protocol: LPB), 'Connection type' (Connection type: - all -), 'Plant size' (Number of devices: - all -), and 'Alarm receiving' (Operating device, E-mail receiver, SMS-receiver, Pager, Fax). Below the filters is a table of 'Applications matching your criteria: 6' with columns for 'Application no.' and 'Doc'. The applications listed are OWA101 672 HQ, OWA102 672 HQ, OWA103 672 HQ, OWAL01 672 HQ, OWAL02 672 HQ, and OWAL03 672 HQ. To the right of the table is a 'Plant diagram' showing a network topology with a Router, Internet cloud, Mail Client, Web browser, GSM/GPRS, and various LPB/BSB devices. At the bottom of the interface, there are 'Accept' and 'Cancel' buttons.

After selecting application with required parameters, click at button "Accept" brings user to application edit page. Click at button "Save" allows user to save application to a project:

The screenshot shows the application edit page for 'OWAI01 672 HQ'. The top header reads 'Plant: New plant (Project: New project)'. Below the header is the application name 'OWAI01 672 HQ -'. The main area contains a detailed plant diagram showing a Router connected to the Internet, which is connected to Mail Client and Web browser via Ethernet. A GSM/GPRS device is also connected to the Internet. Below this, an OZW672.. device is connected to the LPB/BSB network, which includes several control units. On the left side, there are buttons for 'Replace application' and 'Remove application'. Below the diagram is a table with the following data:

Opt.	Reference	Product no.	Description	Doc	Qty	Copy	Delete
	N1	OZW672.01	Web Server for 1 LPB/BSB device		1		

Below the table, there is a link for 'Complete plant documentation' and two buttons: 'Save' (highlighted with a mouse cursor) and 'Add product'.