SIEMENS 4⁸⁵³





VPI45..

VPI45..Q with pressure test points

ACVATIX™

Combi valves, PN 25

VPI45.. VPI45..Q

for rooms, zones, air handling units as well as small to medium heating, ventilation and air-conditioning systems

- With integrated pressure differential controller
- Valve body made of dezincification resistant hot-pressed brass (DZR), CW602N
- Volumetric flow \dot{V}_{100} 500...8500 l/h nominal, with presetting of min. 90 l/h
- DN 15...DN 50
- Internally threaded Rp conforming to ISO 7-1
- Version with pressure test points for Δp measurement (optional)
- For use with electromotoric SSD.. and SQD.. actuators (3-position or DC 0...10 V)

Use

- In ventilation and air conditioning plants for control on the water side and automatic
 hydraulic balancing of terminal units, such as fan coils, induction units, and in heat
 exchangers for heating or cooling
- In heating zones like self-contained heating systems, apartments, individual rooms, etc., and for closed systems
- With flow rate of 8500 l/h also suited for small ventilation and air conditioning plants

Type summary

Туре	DN	H ₁₀₀	Connections		Test points	V _{min}	V ₁₀₀	SSD			D
								$\Delta p_{min}^{1)}$	Δp_{max}	$\Delta p_{min}^{1)}$	Δp_{max}
		[mm]				[l/h]	[l/h]	[kPa]	[kPa]	[kPa]	[kPa]
VPI45.15F0.5	15		Do 1/"			90	620	16	400		
VPI45.15F1.5	15		Rp ½"			290	1730	18	400		
VPI45.20F0.9	20		D= 3/"			160	1050	16	400		
VPI45.20F2	20	5	Rp ¾"			350	2040	22	400		
VPI45.25F1.5	05		D 4"			280	1720	16	400		
VPI45.25F2	25		Rp 1"			350	2040	22	400		
VPI45.32F3	32		Rp 11/4"			560	3050	18	400		
VPI45.40F7	40		Rp 1½"			2355	7105			26	400
VPI45.50F8.5	50	6.5	Rp 2"	internally		2664	8586			32	400
VPI45.15F0.5Q	45		D= 1/"	threaded		90	620	16	400		
VPI45.15F1.5Q	15		Rp ½"			290	1730	18	400		
VPI45.20F0.9Q	20		D= 3/"	24"		160	1050	16	400		
VPI45.20F2Q	20	5	Rp ¾"			350	2040	22	400		
VPI45.25F1.5Q	05		D 4"		with pressure	280	1720	16	400		
VPI45.25F2Q	25		Rp 1"		test points	350	2040	22	400		
VPI45.32F3Q	32		Rp 11/4"			560	3050	18	400		
VPI45.40F7Q	40	0.5	Rp 1½"			2355	7105			26	400
VPI45.50F8.5Q	50	6.5	Rp 2"			2664	8586			32	400

DN = nominal size

 H_{100} = nominal stroke

 \dot{V}_{100} = volumetric flow through fully open valve (H₁₀₀)

 \dot{V}_{min} = smallest presettable volumetric flow through fully open valve (H₁₀₀)

 Δp_{max} = max. permissible differential pressure across the valve's control path, valid for the entire actuating range of the motorised valve

 Δp_{min} = minimum differential pressure required across the valve's control path, so that the difference pressure regulator works reliably

 $^{^{1)}}$ The exact differential pressure $\Delta p_{\text{min}} \, \text{depends}$ on the preset value, see following table:

Тур				
	1.0	2.0	3.0	4.0
	∆p _{min} [kPa]	∆p _{min} [kPa]	∆p _{min} [kPa]	maximal ∆p _{min} [kPa]
VPI45.15F0.5	14.5	15.1	15.7	16
VPI45.15F1.5	14	15.8	17.0	18
VPI45.20F0.9	14	15.1	15.7	16
VPI45.20F2	14	18	20.2	22
VPI45.25F1.5	14	14.8	15.5	16
VPI45.25F2	14	18.3	20.2	22
VPI45.32F3	14.5	16	17	18
VPI45.40F7	16.5	20	25	26
VPI45.50F8.5	22	28	30	32

Ordering When ordering, please give quantity, description and type of valve and actuator.

Example: 10 Combi valves VPI45.25F1.5

10 actuators SSD61

Delivery Valves and actuators are supplied packed as individual items.

Rev. no. See overview, page 11.

Overview of actuators

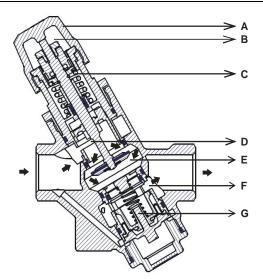
Actuators	Operating	Pos	sitioning		Stroke	Connecting cable	Data-
	voltage	signal	time	force			sheet
SSD31	AC 230 V	2 position	150 s				
SSD81		3-position	150 8			1.5 m	
SSD61	AC 24 V	DC 010 V	75 s			1.5 M	
SSD61EP		DC 010 V	138				
SSD31/00	AC 230 V	2 position	150 s	> 250 N	5.5 mm	order separately, type	N4861
SSD81/00		3-position	150 8				114001
SSD61/00	AC 24 V					datasheet	
SSD61 EP/00		DC 010 V	010 V 75 s			44.45551	
SSD61.5	AC / DC 24V	DC 010 V	138			Must be supplied by	
SSD81.5	AC 24 V					the installer	

SQD35.00	AC 230 V	3-position	150			Must be supplied by		
SQD85.03	AC 24 V	3-position	43	> 400 N	6.5 mm	Must be supplied by the installer	N4540	
SQD65	AC 24 V	DC 010 V	43			the motaner		

Technical / mechanical design

Construction

Combi valve VPI45..



- A Manual control knob
- B Ring with dial for presetting
- C Closing spring
- D Throttling point linked to B
- E Seat of flow control valve
- F Controller's throttling point
- G Differential pressure controller
- → Flow path

Combi valve VPI45.. is additionally equipped with pressure test points

Functions

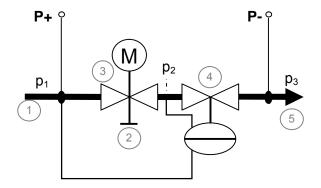
The medium entering the valve passes through a variable rectangular opening (D) which is connected to the ring with the dial (B) for presetting the maximum volumetric flow. Then, the medium flows through the flow control valve (E) with a linear characteristic and a stroke of 5 mm. A powerful spring (C) ensures safe closing.



Ring with dial for presetting (B)

The electromotoric actuator opens and accurately positions the valve (not shown here). Before leaving the valve, the medium passes through a second throttling point (F) which is controlled by the built-in mechanical differential pressure controller (G). This controller is the heart of the valve and ensures that the selected volumetric flow is maintained across the whole working range.

The valve VPI45..Q is additionally equipped with 2 pressure test points (P+, P-), which allow measurement of the total differential pressure across the valve. For that purpose, the electronic manometer, e.g. ALE10 can be used.



- ① Inlet medium
- Ring with dial for presetting (B), respectively throttling point
- ③ Flow control valve (E) with mounted actuator
- ⑤ Differential pressure controller (G), maintains pressure p₁ – p₂ across the flow control valve and the throttling point for presetting at a constant level
- © Outlet medium
- P+ = P/T plug, pressure test point with red ribbon
- P- = P/T plug, pressure test point with blue ribbon
- o₁ = pressure at inlet of Combi valve
- p₂ = pressure at outlet of flow control valve (E)
- p₃ = pressure at outlet of Combi valve

Manual control

The black control knob is ready fitted and facilitates manual control of the Combi valve during commissioning without mounted actuator. Factory setting: the valve is fully open, thus making it possible to purge the system.



Accessories

Accessory	Brief description	
ALE10	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Electronic manometer excluding measuring lines and measuring tips. Measuring range 0-700 kPa. A differential pressure of more than 1000 kPa will destroy the pressure sensor. For measuring the differential pressure between P+ and P- of VPI45Q Combi valves (refer to diagram under "Function"). Functions of the manometer: Start/stop Automatic zero position Backlit display Display: Out → outside the measuring range Holding function Order measuring lines and measuring tips ALE11 separately. Delivery without batteries.
ALE11	Q	Measuring lines and measuring tips for use with VPI45Q Combi valves.
ALP45		Spare nipples (set of 2 pieces) Set contains 1 piece each with a red and blue ribbon. Port: External threads G ½ " to ISO 228 Connection to valve body: G ¼" to ISO 228, inclusive O-ring
ALP46	-	Blanking plugs for P/T ports Connection to valve body: G 1/4" to ISO 228, inclusive O-ring
ALP47		Drain ball valve inclusive O-ring Port: External threads G ½" to ISO 228 Connection to valve body: G ¼" to ISO 228, inclusive O-ring
ALP48		Combined P/T port and drain ball valve with red ribbon Port: External threads G 1/4" to ISO 228 Connection to valve body: G 1/4" to ISO 228, inclusive O-ring

ALP49	11	Long P/T ports (set of 2 pieces) Set contains 1 piece each with a red and blue ribbon. Port: External threads G 1/2" to ISO 228 Connection to valve body: G 1/2" to ISO 228, inclusive O-ring
ALP50		Spare black valve protection cap
ALP52	7	Pre-setting key for VPI45 (set of 10 pieces)

Sizing

Engineering example

Basis of design

- 1. Determine energy demand Q [kW]
- 2. Determine temperature differential ΔT [K]
- $\label{eq:calculate} \textbf{3. Calculate volumetric flow } \dot{V} = \frac{Q[kW] \cdot 1000}{1.163 \cdot \Delta T[K]} \left[\frac{I}{h} \right]$
- 4. Select suitable Combi valve VPI45..
- 5. Determine dial setting using Volumetric flow/dial presetting table, page 6

Example

1. Heat demand heat exchanger Q = 8.4 kW2. Temperature differential (flow - return) $\Delta T = 6 \text{ K}$

3. Volumetric flow $\dot{V} = \frac{8.4 \text{kW} \cdot 1000}{1.163 \cdot 6 \text{ K}} = 1,203 \text{ l/h}$

Hint: You can also determine the volumetric flow \dot{V} using the valve slide rule.

4. Select Combi valve VPI45..

Selection: VPI45.15F1.5 respectively VPI45.15F1.5Q (with pressure test points)

5. Determine dial setting using Volumetric flow/dial presetting table, page 6

Volumetric flow 1,200 l/h

Dial setting 2.4 dial graduations

Volumetric flow / dial presetting

VPI45.15F0.5, VPI45.15F0.5Q

Tables to determine the dial setting for a desired volumetric flow.

[l/h]				90	130	160	190	220	250	280	310	340	380	410	440	470	500	530	560	590	620
Dial	Min.	0.2	0.4	0.6	8.0	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	Max.
VPI45.1	VPI45.15F1.5, VPI45.15F1.5Q 1500 I/h nominal																				
[l/h]				290	400	500	600	710	810	910	1010	1100	1200	1280	1370	1440	1520	1580	1640	1680	1730
Dial	Min.	0.2	0.4	0.6	8.0	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	Max.
VPI45.2	20F0.9,	VPI45	5.20F0	.9Q													900 l/	h nom	inal		
[l/h]				160	210	260	320	370	420	470	530	580	630	680	740	790	840	890	950	1000	1050
Dial	Min.	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	Max.
VPI45.2	20F2, V	PI45.2	20F2Q															I/h noı			
[l/h]				350	460	580	690	810	920	1040	1150	1270	1380	1490	1600	1700	1790	1880		2000	2040
Dial	Min.	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	Max.
VPI45.2	25F1.5,	VPI45	5.25F1															I/h noı			
[l/h]				280	380	490	590	700	800	900	1010	1100	1200	1290	1370	1450	1520	1590	1640	1690	1720
Dial	Min.	0.2	0.4	0.6	8.0	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	Max.
VPI45.2	25F2, V	PI45.2	25F2Q			T							1			T		l/h noı			
[l/h]				350	460	580	690	810	920	1040	1150	1270	1380	1490	1600	1700	1790	1880	1950	2000	2040
	2 5F2, V Min.	PI45.2	2 5F2Q 0.4		460	580	690	810	920 1.6	1040 1.8	1150 2	1270 2.2	1380	1490 2.6	1600 2.8	1700 3				2000	2040 Max.
[l/h] Dial	Min.	0.2	0.4	350 0.6	_	580		_	_								1790 3.2	1880 3.4	1950 3.6		
[l/h] Dial VPI45.3	Min.	0.2	0.4	350 0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	1790 3.2 3000	1880 3.4 I/h no	1950 3.6 minal	3.8	Max.
[l/h] Dial VPI45.3 [l/h]	Min. 32F3, V	0.2 'PI45.3	0.4 32F3Q	350 0.6 560	740	920	1.2	1.4	1.6	1.8	1820	2.2 1980	2.4	2.6	2.8	3 2570	1790 3.2 3000 2700	1880 3.4 I/h noi 2810	1950 3.6 minal 2910	3.8 2990	Max. 3050
[l/h] Dial VPI45.3	Min.	0.2	0.4	350 0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	1790 3.2 3000	1880 3.4 I/h no	1950 3.6 minal	3.8	Max.
[l/h] Dial VPI45.3 [l/h] Dial	Min. 32F3, W Min.	0.2 /PI45.3	0.4 32F3Q 0.4	350 0.6 560 0.6	740	920	1.2	1.4	1.6	1.8	1820	2.2 1980	2.4	2.6	2.8	3 2570	3.2 3000 2700 3.2	1880 3.4 I/h noi 2810 3.4	1950 3.6 minal 2910 3.6	3.8 2990	Max. 3050
[l/h] Dial VPI45.3 [l/h] Dial VPI45.4	Min. 32F3, W Min.	0.2 /PI45.3	0.4 32F3Q 0.4	350 0.6 560 0.6	740 0.8	920	1.2 1100 1.2	1.4 1290 1.4	1.6 1470 1.6	1.8 1640 1.8	2 1820 2	1980 2.2	2.4 2140 2.4	2.6 2300 2.6	2.8 2440 2.8	3 2570 3	1790 3.2 3000 2700 3.2 7000	1880 3.4 I/h noi 2810 3.4 I/h noi	1950 3.6 minal 2910 3.6 minal	2990 3.8	3050 Max.
[l/h] Dial VPI45.3 [l/h] Dial VPI45.4 [l/h]	Min. 32F3, V Min.	0.2 (PI45.3 0.2 (PI45.4	0.4 32F3Q 0.4 0.7Q	350 0.6 560 0.6	740 0.8	920 1 3538	1.2 1100 1.2 4056	1.4 1290 1.4 4534	1.6 1470 1.6	1.8 1640 1.8 5376	2 1820 2 5741	1980 2.2 6065	2.4 2140 2.4 6346	2.6 2300 2.6 6582	2.8 2440 2.8 6772	3 2570 3 6916	3000 2700 3.2 7000 7015	1880 3.4 I/h noi 2810 3.4 I/h noi 7073	1950 3.6 minal 2910 3.6 minal 7100	2990 3.8 7105	3050 Max.
[l/h] Dial VPI45.3 [l/h] Dial VPI45.4	Min. 32F3, W Min.	0.2 /PI45.3	0.4 32F3Q 0.4	350 0.6 560 0.6	740 0.8	920	1.2 1100 1.2	1.4 1290 1.4	1.6 1470 1.6	1.8 1640 1.8	2 1820 2	1980 2.2	2.4 2140 2.4	2.6 2300 2.6	2.8 2440 2.8	3 2570 3	1790 3.2 3000 2700 3.2 7000	1880 3.4 I/h noi 2810 3.4 I/h noi	1950 3.6 minal 2910 3.6 minal	2990 3.8	3050 Max.
[l/h] Dial VPI45.3 [l/h] Dial VPI45.4 [l/h] Skala	Min. 32F3, V Min. Min. 40F7, V	0.2 /PI45.3 0.2 /PI45.4	0.4 32F3Q 0.4 0.4 0.4	350 0.6 560 0.6 2355 0.6	740 0.8	920 1 3538	1.2 1100 1.2 4056	1.4 1290 1.4 4534	1.6 1470 1.6	1.8 1640 1.8 5376	2 1820 2 5741	1980 2.2 6065	2.4 2140 2.4 6346	2.6 2300 2.6 6582	2.8 2440 2.8 6772	3 2570 3 6916	1790 3.2 3000 2700 3.2 7000 7015 3.2	1880 3.4 I/h noi 2810 3.4 I/h noi 7073 3.4	1950 3.6 minal 2910 3.6 minal 7100 3.6	2990 3.8 7105	3050 Max.
[l/h] Dial VPI45.3 [l/h] Dial VPI45.4 [l/h] Skala	Min. 32F3, V Min. Min. 40F7, V	0.2 /PI45.3 0.2 /PI45.4	0.4 32F3Q 0.4 0.4 0.4	350 0.6 560 0.6 2355 0.6	740 0.8 2974 0.8	920 1 3538 1	1.2 1100 1.2 4056 1.2	1.4 1290 1.4 4534 1.4	1.6 1470 1.6 4974 1.6	1.8 1640 1.8 5376 1.8	2 1820 2 5741 2	1980 2.2 6065 2.2	2.4 2140 2.4 6346 2.4	2.6 2300 2.6 6582 2.6	2.8 2440 2.8 6772 2.8	2570 3 6916 3	1790 3.2 3000 2700 3.2 7000 7015 3.2 8500	1880 3.4 I/h noi 2810 3.4 I/h noi 7073 3.4	1950 3.6 minal 2910 3.6 minal 7100 3.6 minal	2990 3.8 7105 3.8	3050 Max. 7105 Max.
[l/h] Dial VPI45.3 [l/h] Dial VPI45.4 [l/h] Skala	Min. 32F3, V Min. Min. 40F7, V	0.2 /PI45.3 0.2 /PI45.4	0.4 32F3Q 0.4 0.4 0.4	350 0.6 560 0.6 2355 0.6	740 0.8	920 1 3538	1.2 1100 1.2 4056	1.4 1290 1.4 4534	1.6 1470 1.6	1.8 1640 1.8 5376	2 1820 2 5741	1980 2.2 6065	2.4 2140 2.4 6346	2.6 2300 2.6 6582	2.8 2440 2.8 6772	3 2570 3 6916	1790 3.2 3000 2700 3.2 7000 7015 3.2 8500	1880 3.4 I/h noi 2810 3.4 I/h noi 7073 3.4	1950 3.6 minal 2910 3.6 minal 7100 3.6	2990 3.8 7105	3050 Max.

Presetting

Prior to mounting the actuator, the presetting is to be made according to the following example:

1. Remove control knob 2. Loosen knurled from valve

nut

3. Adjust the desired dial setting with the white knob

500 l/h nominal

4. retighten knurled nut by hand



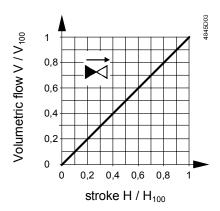




The valve's authority P_V need not be calculated. When sizing the circulating pump, it must be made certain that the most critical heat exchanger in the system – usually the remotest from the pump – gets enough pressure (pump head).

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Valve charactristic VPI45.., VPI45..Q



Engineering notes

Valve	Symbol		flow in control mode	valve stem	
	VPI45	VPI45Q		retracts	extends
Combi valve VPI45	Ä	} ≓	Variable	opens	closes

Caution \triangle

The direction of flow indicated (arrow on the valve body) is mandatory!

The valves should preferably be mounted in the return pipe where temperatures are lower and where the sealing gland is less affected by strain.

Symbols

Symbol used in catalogs and application descriptions	Direction of flow VPI45	VPI45Q	Symbol used in diagrams
	\ ™	Ä	There are no standard symbols for Combi valves in diagrams

Recommendation

A strainer should be fitted upstream of the valve to enhance reliability.

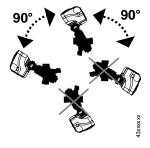
Mounting notes

Valve and actuator can be straightforwardly assembled on site. Special tools or adjustments are not required.

Prior to mounting the actuator, the required volumetric flow must be set.

The valve is supplied complete with Mounting Instructions (74 319 06490a).

Mounting positions



Commissioning notes



The valves must be commissioned with the manual control knob or actuator correctly fitted.



The Combi valves have to be open when flushing or pressure testing the system. Strong pressure impacts can damage closed Combi valves.



Differential pressure Δp_{max} across the valve's control path is not allowed to exceed 400 kPa.

Manual control

When turning the manual control knob in clockwise direction or operating the actuator, the valve opens. A reset spring closes the valve. The valves are supplied fully open.

Maintenance notes

Caution Λ

The VPI45.. valves are maintenance-free.

When performing service work on the valve and / or actuator:

- Switch off the pump and disconnect power supply
- · Close the shutoff valve in the piping network
- Fully reduce pressure in the piping network and allow the pipes to cool down completely

Remove the electrical connections only if necessary.

Sealing gland

The stem sealing gland cannot be exchanged. Should leakage occur, the whole valve must be replaced.

Disposal



The valve is considered electrical and electronic equipment for disposal in terms of the applicable European Directive and may not be disposed of as domestic garbage.

- Dispose of the valve through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Warranty

Application-related technical data are guaranteed only when the valves are used in connection with the Siemens actuators listed under "Equipment combinations", page 3. When used with actuators of other manufacture, any warranty by Siemens becomes void.

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Functional data	PN class	PN 25 as per EN 1333				
	Perm. operating pressure	2,500 kPa (25 bar) as per ISO 7628 / EN 1333				
	Control range	Δp _{min} [kPa] Δp _{max} [kPa]				
	Differential pressure controller	VPI45.15F0.5 16 400				
		VPI45.15F1.5 18 400				
		VPI45.20F0.9 16 400				
		VPI45.20F2 22 400				
		VPI45.25F1.5 16 400				
		VPI45.25F2 22 400				
		VPI45.32F3 18 400				
		VPI45.40F7 26 400				
		VPI45.50F8.5 32 400				
	Valve characteristic	Linear				
	Leakage rate DN15	32 00,05 % of volumetric flow V ₁₀₀				
	DN40	At p _{max} = 230 kPa:				
		$00,\!05$ % of volumetric flow $\dot{V}_{\mbox{\tiny 100}}$				
		At Δp_{max} = 400 kPa:				
		> 0.05 % of volumetric flow V_{100}				
	Permissible media	Low temperature hot water, chilled water, water with antifreeze				
		Recommendation: Water treatment to VDI 2035				
	Medium temperature	1120 °C				
	Nominal stroke DN15[5 mm				
	DN40[N50 6.5 mm				
Standards	Pressure Equipment Directive	PED 97/23/EC				
	Pressure Accessories	as per article 1, section 2.1.4				
	Fluid group 2 DN15	40 • without CE-marking as per article 3, section 3 (sound engineering practice)				
		N50 • category I, with CE-marking				
Materials	Valve body, plug, seat, sealing of and test points	land Dezincification resistant hot-pressed brass (DZR), CW602N				
	Stem, spring	Stainless steel				
	Presetting	PTFE, PPO, POM C und ABS				
	Regulator	PPS				
	Seals	EPDM 281 (O-ring)				
Dimensions / weight	Dimensions	Refer to "Dimensions", page 10				
	Threaded connections	Rp to ISO 7-1 (internally threaded)				
	Actuator connection	M30 x 1.5 mm				
	Weight	Refer to "Dimensions", page 10				

VPI45..Q Combi valves with pressure test points VPI45 .. Combi valves ////// DN15...32 нз н H2 Н1 H2 нз н DN40/50 ////// ////// Rp Н2 Н3 Н H2 нз н H 1) Valves D L Н1 H2 Н4 Rp Н3 Weight SSD.. SQD.. [mm] [inch] [mm] [mm] [mm] [mm] [mm] [mm] [kg] VPI45.15F0.5 Rp 1/2 27 88 53 123 135 205 0.898 VPI45.15F1.5 Rp 1/2 27 88 53 123 135 205 0.898 VPI45.20F0.9 0.908 Rp 3/4 32 88 53 123 135 205 VPI45.20F2 123 135 205 0.908 Rp ¾ 32 88 53 VPI45.25F1.5 92 135 205 0.998 Rp 1 39 53 123 VPI45.25F2 39 92 135 205 0.998 Rp 1 53 123 VPI45.32F3 46 128 69 145 158 227 1.518 Rp 11/4 VPI45.40F7 Rp 11/2 52 144 193 206 356 2.519 368 VPI45.50F8.5 68 93 219 3.156 Rp 2 155 206 VPI45.15F0.5Q 27 88 53 123 135 11 205 0.898 Rp ½ VPI45.15F1.5Q 123 27 53 135 11 205 0.898 Rp ⅓ 88 VPI45.20F0.9Q Rp ¾ 32 88 53 123 135 13 205 0.908 VPI45.20F2Q 32 88 53 135 13 205 0.908 Rp 3/4 123 VPI45.25F1.5Q Rp 1 39 92 53 123 135 11 205 0.998 VPI45.25F2Q Rp 1 39 92 53 123 135 11 205 0.998

128

144

155

69

87

93

46

52

68

Rp 11/4

Rp 11/2

Rp 2

145

193

206

158

206

219

6

227

356

368

1.518

2.539

3.176

VPI45.32F3Q

VPI45.40F7Q

VPI45.50F8.5Q

¹⁾ Total height including actuator SSD.. or SQD..

Product number	Valid from rev. no.	Product number	Valid from rev. no.
VPI45.15F0.5	A	VPI45.15F0.5Q	A
VPI45.15F1.5	A	VPI45.15F1.5Q	A
VPI45.20F0.9	A	VPI45.20F0.9Q	A
VPI45.20F2	A	VPI45.20F2Q	A
VPI45.25F1.5	A	VPI45.25F1.5Q	A
VPI45.25F2	A	VPI45.25F2Q	A
VPI45.32F3	A	VPI45.32F3Q	A
VPI45.40F7	A	VPI45.40F7Q	A
VPI45.50F8.5	A	VPI45.50F8.5Q	A

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