

Venting Valve

VVF 15 NO - Flange Type

VVL 10 NO - Female Thread Type



Application:

For Rotary Compressors and air system

- as a component of the idling bypass system
- to vent the oil separator automatically on shut-down
- To vent pneumatic control systems to free air.

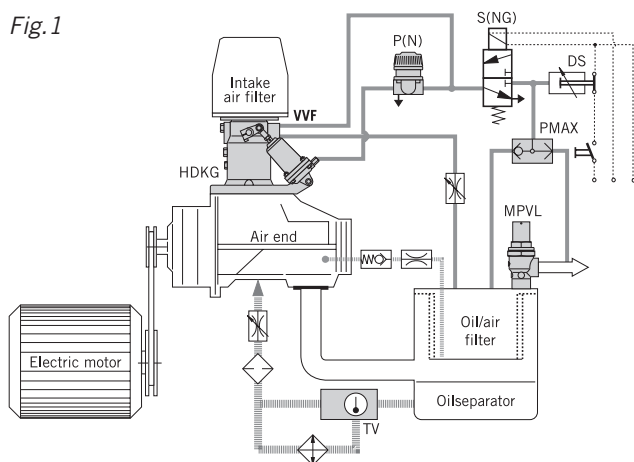
Operation:

Venting Valves VV...NO are normally open two way valves without return spring. Open or closed valve position is determined by the previous valve action. Open Venting Valves are closing by signal pressure (< 0.5 bar (g)) applied to inlet E. Pressure at inlet P should not be higher than pressure at inlet E to close the valve. Application: compressor start-up with depressurized user outlet.

Attention! Never attempt to disassemble a cylinder whilst under pressure!

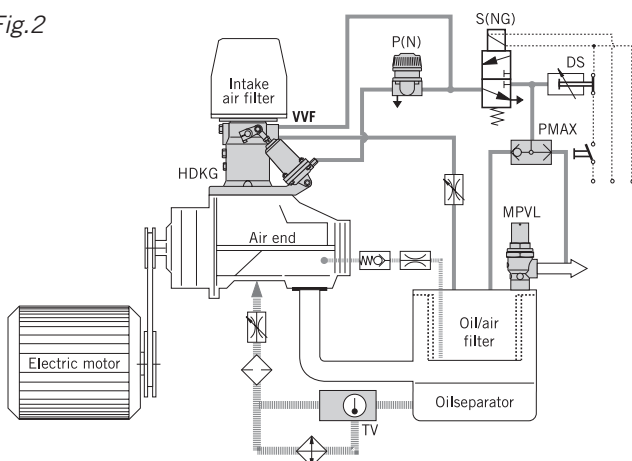
Installation example for VVF 15 NO

Fig. 1



Installation example for VVL 10 NO

Fig. 2



Installation, control system:

The Venting Valve VV...NO is usually controlled by the signal pressure for the capacity control downstream from the solenoid valve S (NC).

Installation:

Flange version VVF 15 NO:

For installation on Suction Control Valves:

- HDKG 50...160 (Fig. 1)
- HAKG 50...65 - (not pictured)

Female thread type VVL 10 NO:

For installation into the venting line (Fig. 2)

Inlet air throttle

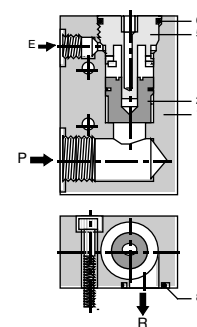
Despite their compact design Venting Valves VV... NO have a considerably high KV-value. It is recommended to either reduce or throttle the air line diameter upstream of the valve inlet P to avoid excess oil foam and to adjust the pressure in the oil separator during idling.

Ordering details:

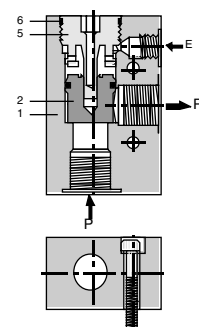
Type, execution, or article No.

Sparekit (Service-Kit): piston (2), seal rings

VVF 15 NO



VVL 10 NO



HOERBIGER Kompressortechnik GmbH

D-86956 Schongau, Im Forchet 5

Phone +49 (0) 88 61 210-0, Fax +49 (0) 88 61 210-3273

Mail: info-rcc@hoerbiger.com

www.hoerbiger.com

Details

Type		VVF 15 NO	VVL 10 NO
Execution		Flange connection	Female thread connections
Nominal Diameter DN	mm	15	10
Max. working pressure PS	bar (g)	16	
Valve design		2-way valve, normally open	
Medium		oily pressurized air, filtered • recommended compressed air quality according to DIN ISO 8573-1, class 5 • Reference oil: see www.hoerbiger.com	
Dimensions	mm	Fig. 4	Fig. 5
Pressure range (compressor discharge pressure)	bar (g)	2 to 16	
Working pressure at inlet P	bar (g)	0 to 16	
Signal pressure at inlet E	bar (g)	0 to 16	
Valve outlet R		vented to compressor suction line or to free air	
Temperature range	° F	-20 to +110 (emergency stop: up to 130)	
KV-Value ¹⁾	m ³ /h	2.45	2.1
Venting rate	s/dm ³	Diagram 1	Diagram 2
Installation attitude		optional	
Installation components for Venting Valves		cylindric bolts M5x35 and seal rings - both included	cylindric bolts M5x35 and silencer (G ¹ / ₂) Art. No. KY2013 - on request
Materials		Aluminium, Viton, multicomponent bushing, plated steel	
Weight	kg	0.55	

¹⁾ measured to standard DIN IEC 534, values refer to specific weight 1000 kg/m³ (water) and pressure drop 1 bar

Maintenance:

The service manual W258RCC contains information regarding the maintenance intervals. While disassembling the valve for inspection, cleaning or retrofitting purposes, also refer to the respective information contained in the service manual W258RCC. For the actual service manuals visit our homepage www.hoerbiger.com

Dimensions (mm) Flange Type VVF 15 NO

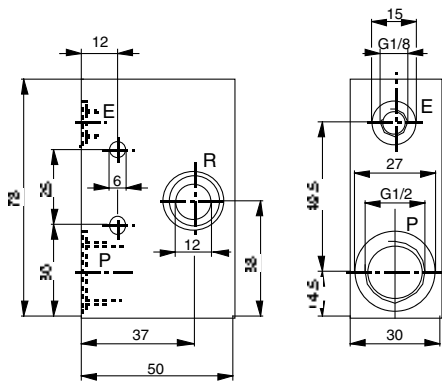


Fig.4

Dimensions (mm) Female thread type VVL 10 NO

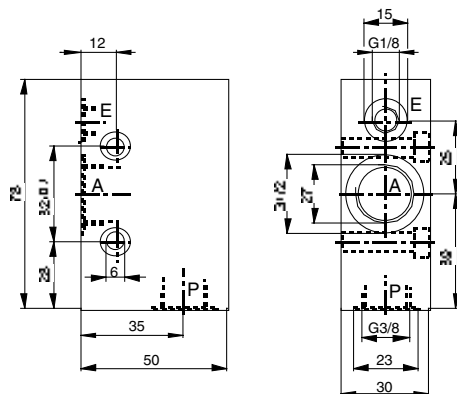


Fig.5

Venting rate VVF 15 NO

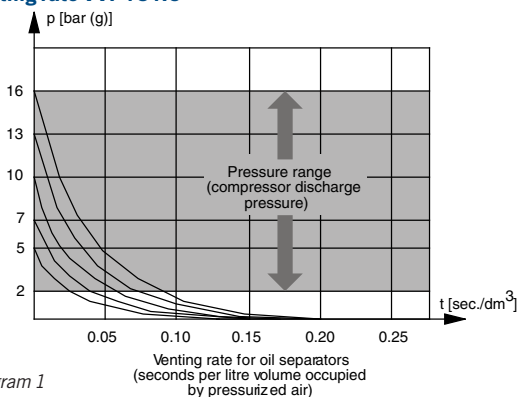


Diagram 1

Venting rate for oil separators
(seconds per litre volume occupied
by pressurized air)

Venting rate VVL 10 NO

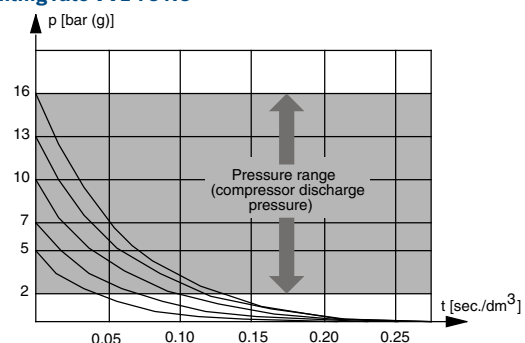


Diagram 2

Venting rate for oil separators
(seconds per litre volume occupied
by pressurized air)

HOERBIGER can not grant any warranty for the correctness of technical or other data in catalogues, brochures and other printed material. HOERBIGER reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed.