Oleodinamica Marchesini V0317 VBCD 1/4 SE PB single counterbalance valve

Manufacturer: Oleodinamica Marchesini

Manufacturer part number / published order designation: V0317

Published model: V0317

About this compilation

Prepared by Hydmaster from selected manufacturer documentation. Original technical pages follow without cropped drawings, rewritten data or altered units. This cover and index are Hydmaster editorial material, not a manufacturer-issued exact-execution datasheet.

Coverage: selected pages relevant to the identified size and configuration. Other options or neighbouring models retained on an original page apply only where explicitly identified.

Execution notes and conditions

Current manufacturer standard-setting reference is not a confirmed delivered calibration.

Exact article, no generated configuration.

Original factory drawing retained.

Source-page index

Source page numbers below are physical pages of each complete original PDF. The original printed page labels and technical content remain unchanged. Compiled page numbers count this cover/index.

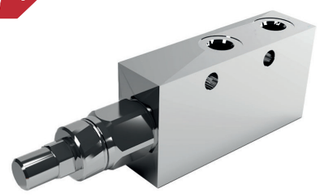
Source A: Oleodinamica Marchesini VBCD SE PB technical datasheet

Original pages	Compiled pages	Relevant content
1	2	Exact factory article, circuit, pilot ratio, pressure/flow rating, mounting and source-specific limitations

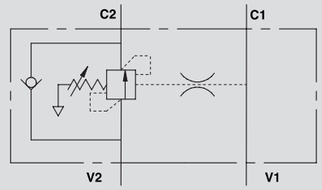
VALVOLE DI BLOCCO E CONTROLLO DISCESA A SEMPLICE EFFETTO PARZIALMENTE BILANCIATA

SINGLE OVERCENTRE VALVES, PARTIALLY BALANCED

NEW



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in una direzione realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore. La taratura e la pressione di pilotaggio è insensibile alle contropressioni. La valvola viene usata in circuiti con distributori a centro chiuso.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione, C1 al lato dell'attuatore di flusso libero e C2 al lato dell'attuatore dove si desidera la tenuta. Il montaggio è in linea.

A RICHIESTA:
- Pressione di taratura diversa da quella standard.
- Piombatura (CODICE/P000) e predisposizione alla piombatura (CODICE/PP).

USE AND OPERATION:
These valves are used to control the actuator movements and block it in one direction. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator.
The valve setting and pilot pressure is insensitive to back pressure.
The valve is used in combination with a closed centre control valve.

MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

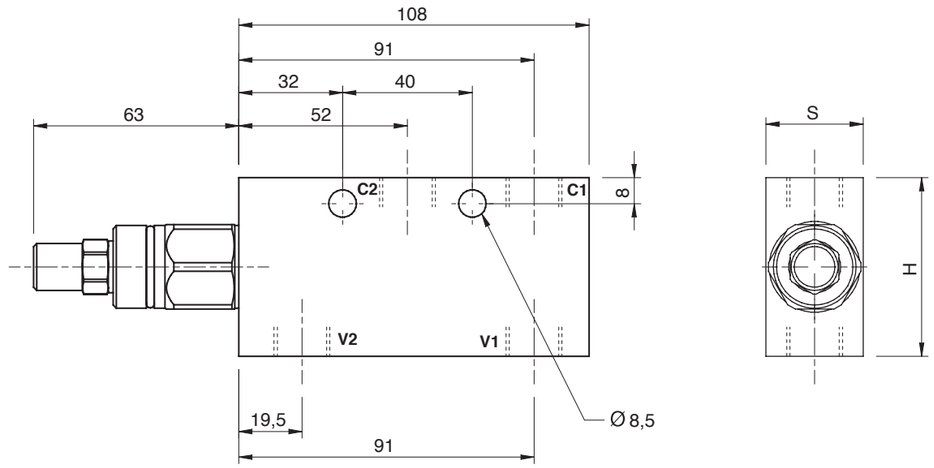
CONNECTIONS:
Connect V1 and V2 to the supply, C1 to the free flow side of the actuator and C2 to the actuator's side you want the flow to be blocked.
In-line mounting.

ON REQUEST:
- Other pressure settings are available
- Sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP).

PERDITE DI CARICO
PRESSURE DROP CURVE

Temperatura olio: 50°C – Viscosità olio: 30 cSt
Oil temperature: 50°C – Oil viscosity: 30 cSt

CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0317	VBCD 1/4" SE PB	1:4,25	25	350
V0318	VBCD 3/8" SE PB	1:4,25	40	350
V0319	VBCD 1/2" SE PB	1:4,25	60	350



CODICE CODE	SIGLA TYPE	V1 - C1 V2 - C2 GAS	S mm	H mm
V0317	VBCD 1/4" SE PB	1/4"	30	55
V0318	VBCD 3/8" SE PB	3/8"	30	55
V0319	VBCD 1/2" SE PB	1/2"	35	65