

Oleodinamica Marchesini V0313 VBCD 1/2 DE FL PB double counterbalance valve

Manufacturer: Oleodinamica Marchesini
Manufacturer part number / published order designation: V0313
Published model: V0313

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

OEMvisiblemass2.249kg vs supplier2.269; currentfactorypreferred.

Exact observed article; no generated order-code configurations.

Manufacturer original drawing governs the selected execution.

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 DE FL PB technical datasheet

Original pages	Compiled pages	Relevant content
1	2	Exact original article row, hydraulic symbol, ratings, dimensions and installation notes

VALVOLE DI BLOCCO E CONTROLLO DISCESA A DOPPIO
EFFETTO A FLANGIA, PARZIALMENTE BILANCIATA
DOUBLE OVERCENTRE VALVES FLANGEABLE,
PARTIALLY BALANCED

NEW



IMPIEGO:

Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in entrambe le direzioni 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. Gli attacchi a flangia consentono il montaggio diretto della valvola sull'attuatore.

MATERIALI E CARATTERISTICHE:

Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilemento 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:

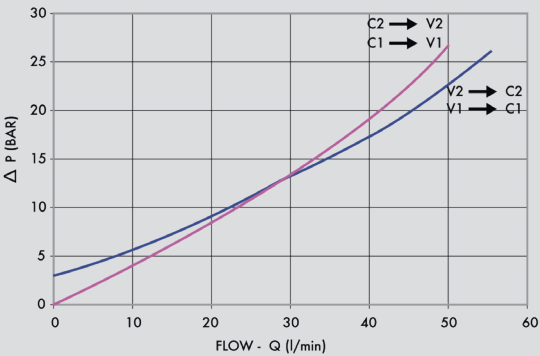
Collegare V1 e V2 all'alimentazione e flangiare C1 e C2 direttamente sull'attuatore.

A RICHIESTA

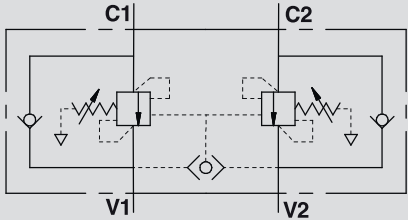
- pressione di taratura diversa da quella standard.
- piombatura (CODICE/P000) e predisposizione alla piombatura (CODICE/PP).

PERDITE DI CARICO

PRESSURE DROP CURVE



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



USE AND OPERATION:

These valves are used to control the actuator movements and block it in both directions. 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. Flange ports enable direct mounting of the valve onto the actuator.

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 and flange C1 and C2 directly to the actuator.

ON REQUEST

- other pressure settings are available
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP).

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

CODICE
CODE

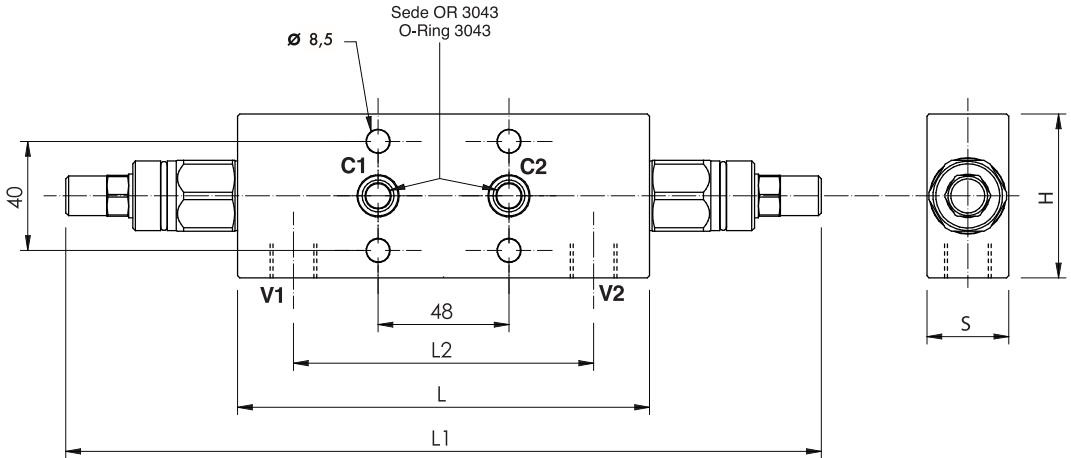
SIGLA
TYPE

RAPP. PILOT
PILOT RATIO

PORTATA MAX
MAX FLOW
Lt. / min

PRESSIONE MAX
MAX PRESSURE
Bar

V0312	VBCD 3/8" DE FL PB	1: 4,5	40	350
V0313	VBCD 1/2" DE FL PB	1: 4,5	60	350



CODICE CODE	SIGLA TYPE	V1 - V2 GAS	C2 - C1 mm	L mm	L1 mm	L2 mm	H mm	S mm	PESO WEIGHT kg
V0312	VBCD 3/8" DE FL PB	G 3/8"	Ø9	151	277	110	60	30	2,269
V0313	VBCD 1/2" DE FL PB	G 1/2"	Ø9	151	277	110	60	30	2,249