Oleodinamica Marchesini V0422/RP18 double Type A counterbalance valve

Manufacturer: Oleodinamica Marchesini

Manufacturer part number / published order designation: V0422/RP18

Published model: V0422/RP18

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

V0422/RP18 is a supplier order designation. The preserved manufacturer sheet confirms base V0422 and Type A family only; its 1:4.5 rows do not certify RP18 pilot ratio, pressure, flow, calibration, mass or geometry. Supplier-stated 1:8 is not factory verified.

Source-page index

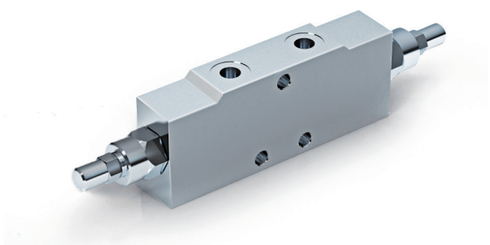
Source page numbers below are physical pages of each complete original PDF. The original printed page labels and technical content remain unchanged. Compiled page numbers count this cover/index.

Source A: Base-family reference only; visible full base row remains 1:4.5; no RP18 rating or drawing certification.

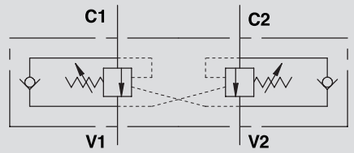
Original pages	Compiled pages	Relevant content
1	2	Base-family reference only; visible full base row remains 1:4.5; no RP18 rating or drawing certification.

VALVOLE DI BLOCCO E CONTROLLO DISCESA A DOPPIO EFFETTO - TIPO A

DOUBLE OVERCENTRE VALVES - TYPE A



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



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. Il tipo "A" si differenzia dal tipo " non A" per la posizione degli attacchi e per il rapporto di pilotaggio.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificati.
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 e C1 e C2 all'attuatore da controllare. Il montaggio è in linea.

A RICHIESTA
- pressione di taratura diversa da quella standard.
- piombatura (CODICE/P) o predisposizione alla piombatura (CODICE/PP).

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. Type "A" is different due to the connection positions and the pilot ratio.

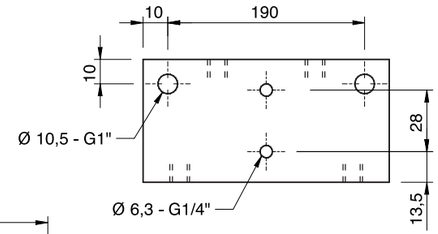
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1,3 times more than load pressure in order to enable the valve to close even when undergone to maximum load pressure

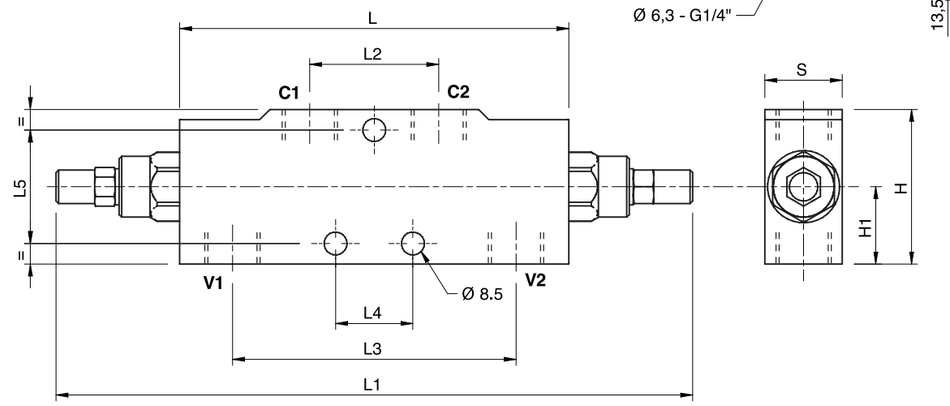
CONNECTIONS:
Connect V1 and V2 to the supply, C1 and C2 to the actuator to be controlled. In-line mounting.

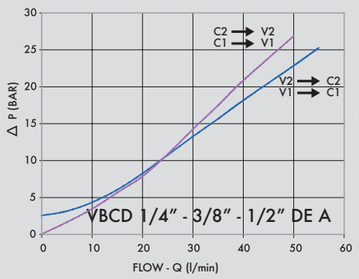
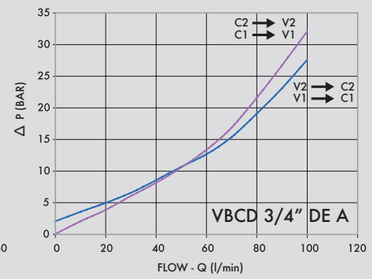
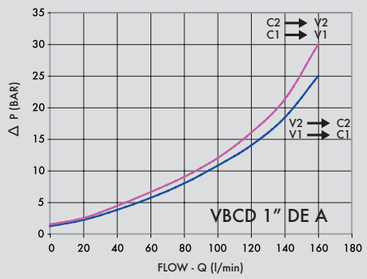
ON REQUEST
- non standard pressure settings
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

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
V0418	VBCD 1/4" DE A	1:4,5	25	350
V0422	VBCD 3/8" DE A	1:4,5	40	350
V0432	VBCD 1/2" DE A	1:4,5	60	350
V0435	VBCD 3/4" DE A	1:5,5	100	350
V0436	VBCD 1" DE A	1:5,5	150	350





CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	H mm	H1 mm	S mm	PESO WEIGHT kg
V0418	VBCD 1/4" DE A	G 1/4"	125	236	38	94	/	28,5	55	27,5	30	1,686
V0422	VBCD 3/8" DE A	G 3/8"	150	248	50	110	30	44	60	30	30	1,970
V0432	VBCD 1/2" DE A	G 1/2"	150	248	50	110	30	44	60	32	30	1,916
V0435	VBCD 3/4" DE A	G 3/4"	190	304	65	143	44	64	80	40	35	3,800
V0436	VBCD 1" DE A	G 1"	210	319	66	158	190	/	90	45	50	6,680

PERDITE DI CARICO
PRESSURE DROP CURVE