Oleodinamica Marchesini VN590 npt in-line check valve

Manufacturer: Oleodinamica Marchesini

Manufacturer part number / published order designation: VN590

Published model: VN590

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

Generic VU size performance table + explicit NPT option support size flow/bodypressure. Original BSP dimension/mass rows not copied. Cracking0.4/0.7 or0.7/1 textreference only.

Source-page index

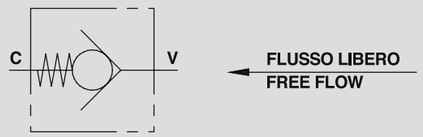
Source page numbers below are physical pages of each complete original PDF. The original printed page labels and technical content remain unchanged. Compiled page numbers count this cover/index.

Source A: Oleodinamica Marchesini VU exact execution reference

Original pages	Compiled pages	Relevant content
1	2	Original applicable size/kit row, actual NPT/range option legend, circuit and installation drawing; reference-only BSP data qualified on index

VALVOLE UNIDIREZIONALI
CHECK VALVES

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



CODICE CODE	SIGLA TYPE	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar	PRESSIONE APERTURA STANDARD STANDARD CRACKING PRESSURE Bar
V0592	VU 1/8"	3	350	0,4/0,7
V0590	VU 1/4"	20	350	0,4/0,7
V0600	VU 3/8"	45	350	0,4/0,7
V0610	VU 1/2"	70	350	0,4/0,7
V0620	VU 3/4"	110	350	0,4/0,7
V0630	VU 1"	160	350	0,4/0,7
V0631	VU 1 1/4"	250	300	0,7/1
V0632	VU 1 1/2"	350	300	0,7/1
V0633	VU 2"	650	300	0,4/0,7

IMPIEGO:
Valvole che consentono il flusso libero in un senso e lo bloccano nel senso opposto, utilizzata per mantenere in pressione
un impianto idraulico.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Tenuta: a cono guidato. Non ammette trafilamenti.

MONTAGGIO:
Collegare V all'alimentazione e C all'utilizzo.
Il flusso passa libero da V a C ed è bloccato nel senso opposto.

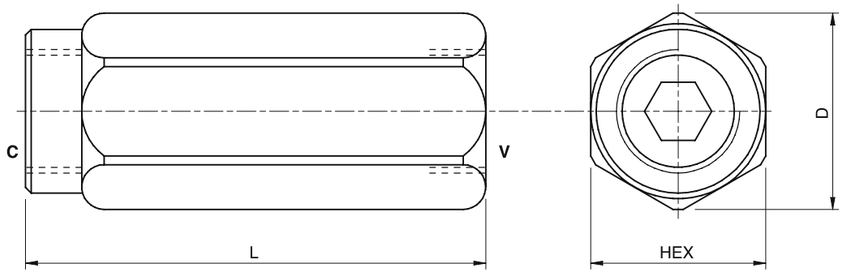
A RICHIESTA
• Pressione d'apertura diversa da quella standard: 1-3-5-8 Bar (specificare nella descrizione il valore della pressione d'apertura desiderato).
• Filetto NPT (codice di ordinazione VN... anziché V0... es: codice VU 1/4" NPT = VN590)
• Corpo in acciaio inox (VX...anzichè V0 es: codice VU 1/4" INOX = VX590)

USE AND OPERATION:
Check valves allow free flow in one direction and is blocks the flow in the reverse direction, used to keep a hydraulic system pressurised.

MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Leakage: guided poppet - no leakage.

CONNECTIONS:
Connect V to the supply and C to the function.
Flow is free from V to C and blocked in the reverse direction.

ON REQUEST
• Different cracking pressures: 1-3-5-8 bar (please specify the desired cracking pressure in the product description).
• NPT thread (code VN... instead of V0... example: VU 1/4" NPT code = VN590)
• Stainless steel body (VX instead of VO example: VU 1/4" INOX code = VX590)

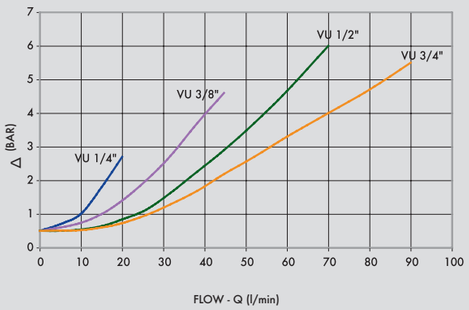


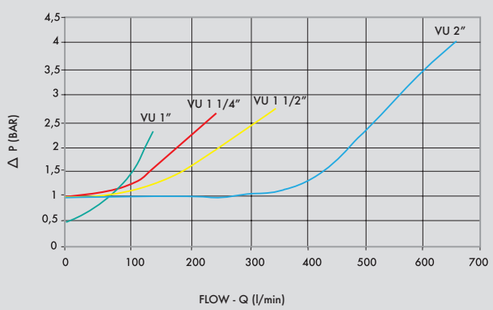
MOLLE - SPRINGS

codice code	0,4/0,7 Bar	1 Bar	3 Bar	5 Bar	8 Bar
VU 1/4"	V0590	V0590/1	V0590/3	V0590/5	V0590/8
VU 3/8"	V0600	V0600/1	V0600/3	V0600/5	V0600/8
VU 1/2"	V0610	V0610/1	V0610/3	V0610/5	V0610/8
VU 3/4"	V0620	V0620/1	V0620/3	V0620/5	V0620/8
VU 1"	V0630	V0630/1	V0630/3	V0630/5	V0630/8
VU 1" 1/4"	/	V0631	V0631/3	V0631/5	V0631/8
VU 1" 1/2"	/	V0632	V0632/3	V0632/5	V0632/8
VU 2"	V0633	/	/	/	/

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	V - C GAS	L mm	HEX mm	D mm	PESO WEIGHT kg
V0592	VU 1/8"	G 1/8"	44	14	16	0,038
V0590	VU 1/4"	G 1/4"	62	19	21	0,104
V0600	VU 3/8"	G 3/8"	68	24	26,5	0,184
V0610	VU 1/2"	G 1/2"	77	30	34	0,322
V0620	VU 3/4"	G 3/4"	88	36	40	0,492
V0630	VU 1"	G 1"	105	41	46	0,676
V0631	VU 1"1/4	G 1" 1/4	135	55	63	1,646
V0632	VU 1"1/2	G 1" 1/2	145	60	69	1,950
V0633	VU 2"	G 2"	150	70	80	2,726