

HYDRO CHECK CYLINDER

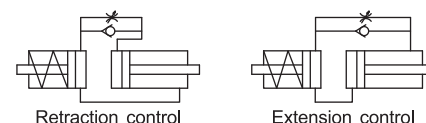
Series AH01

Cat No AH01 - 01 - 01 - C

HYDRO CHECK CYLINDER - Ø40 mm

Features

- ❑ Ideal for achieving accurate, constant speed & uniform feed
- ❑ Available with two types of control - Regulated forward Movement and fast retracted movement, Regulated retracted Movement and fast forward movement
- ❑ Compatible with pneumatic cylinders from Ø40 to Ø160mm bore cylinders
- ❑ Speed variation obtained by means of flow control valve
- ❑ Viton seals to ensure long life when heat build-up occurs



Function

In combination with pneumatic cylinders, Hydro check cylinders ensure a regular advance feed and also control the feed rate. An axial external force is transmitted to the piston rod, and as a result oil flows through a flow control valve from one chamber to another. Due to the almost constant flow rate of the oil, the speed fluctuations of the pneumatic cylinder under changing load conditions are compensated and neutralized.

Application

Hydro check cylinders are widely used for Feed control in machining operations like in Turning, Drilling and Milling etc.

Technical Specifications

Cylinder bore Ø	mm	40
Standard strokes *	mm	50, 100, 150, 200, 250
Medium		Hydraulicoil - VG68
Maximum connecting load	kgf	600
Ambient temperature	C	-10° to +60°
Medium temperature	C	+5° to +50°
Speed	mm/sec	165 Max.
Materials of construction		Carbon steel, Stainless steel, Aluminium, PU, Viton, Brass, Nitrile, etc.

* For Non standard or longer stroke cylinders, contact your regional dealer or **JANATICS**

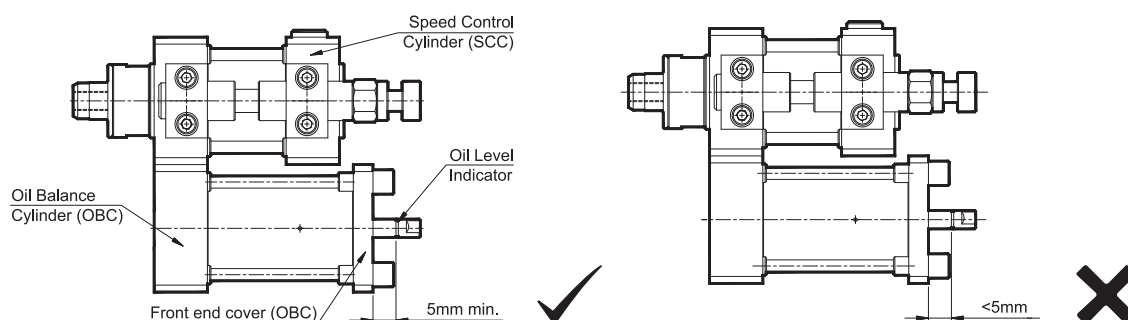
Output force (force in N : 1N = 0.1 kgf)

Cylinder bore Ø (in mm)	Rod Ø (in mm)	Operating direction	Working pressure in bar								
			2	3	4	5	6	7	8	9	10
40	16	Extend	226	339	452	565	678	792	905	1018	1130
		Retract	190	285	380	475	570	665	760	855	950

Precaution

Volume of oil stored Inside the OBC is very critical for proper functioning of the Hydro check cylinder.

During extended position of the SCC, ensure that oil level indication mark is at least 5mm away from front end cover face of OBC

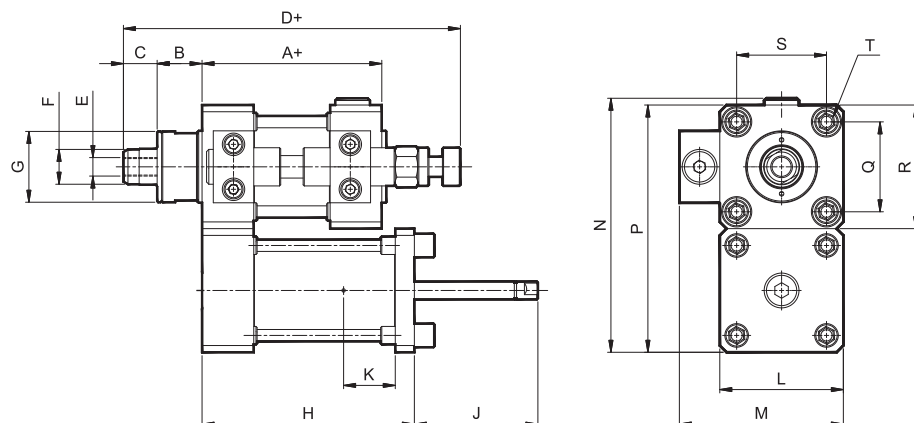


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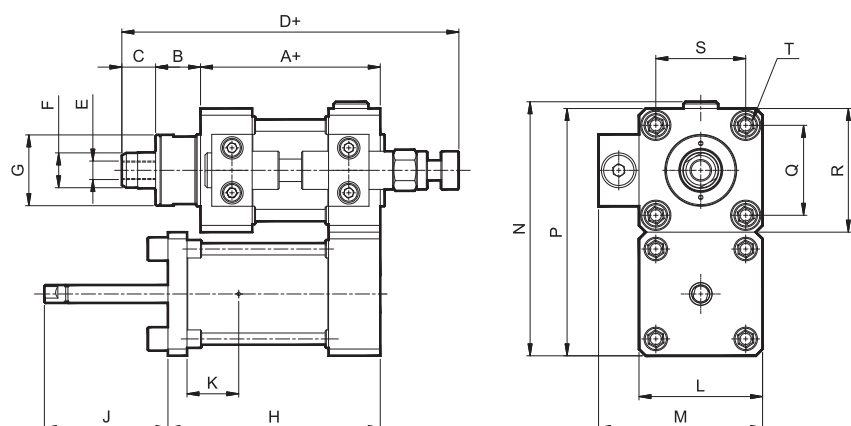
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Retraction (or) Compression control (Ø40 mm) cylinder



Extension (or) Forward Control (Ø40 mm) cylinder



Stroke in mm	H	J@
50	94.5	30mm min
100	119.5	45mm min
150	119.5	35mm min
200	144.5	40 ⁺² mm
250	144.5	35mm min

@ Speed control cylinder (SCC) piston rod extended condition

Cylinder bore Ø	A	ToI	B	C	ToI	D	ToI	E	F	G	K	L	M	ToI	N	ToI	P	ToI	Q	R	S	T
40	80	±0.5	20	13.5	±2	163	±5	M10	Ø16	Ø31.5	23	55	73	±0.5	113	±0.5	110	±0.5	40	55	40	M6x1

How to order

AH01	P	E	040	100
Oil balance cylinder position	Speed regulation	Bore Ø	Stroke	
P Parallel	E Extension R Retraction	040 - 40	050 100 150 200 250	

Ordering Example:

Hydro check cylinder, extension (or) forward regulation with parallel tank, bore Ø40, stroke 100mm :

Ordering no: **AH01PE040100**

Hydro check cylinder, Retraction regulation with parallel tank bore Ø40, stroke 100mm :

Ordering no: **AH01PR040100**