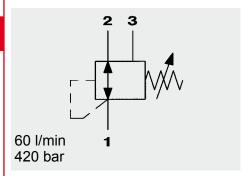
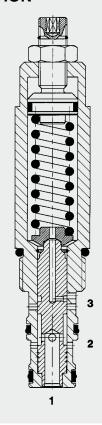
AC) INTERNATIONAL



Pressure Reducing Valve Spool Type, Direct-Acting SAE-10 Cartridge – 420 bar DR10-01

FUNCTION



The DR10 is a direct-acting, springloaded, spool type pressure reducing valve. Its function is to maintain a constant pressure at the consumer. In the normal position, the pressure port 2 is connected to the consumer port 1. The pressure building at the consumer acts on the face of the control spool and moves it upwards against the set spring force. Therefore the flow at port 2 is restricted enough to satisfy the consumer's demand without increasing the pressure.

In addition the valve has a pressure relieving function: If the pressure across consumer port 1 rises above the control pressure due to external force, the control spool is pushed further against the spring and vents the consumer to tank port 3.

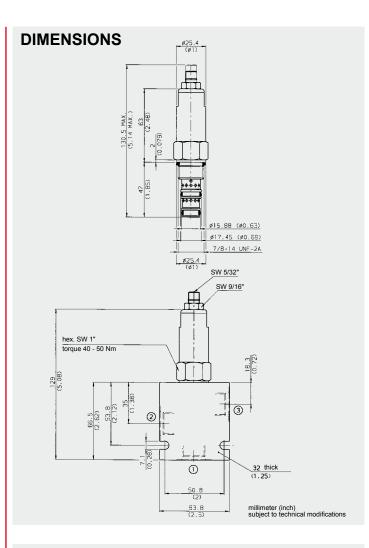
Any pressure at port 3 is additive to the spring setting.

FEATURES

- External surfaces zinc-plated and corrosion-proof
- Excellent stability throughout the entire flow range
- Hardened and ground valve components to ensure minimal wear and extended service life
- Low pressure drop due to CFD optimized flow path
- Max. stroke limiter
- Hydrodynamic damping
- Quick response
- Optional spring ranges up to 131 bar

SPECIFICATIONS

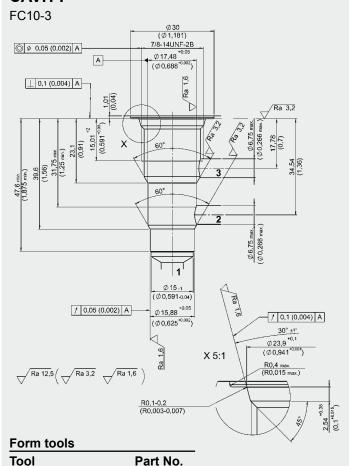
Nominal flow: Operating pressure ranges: Up to 20 bar Up to 48 bar Up to 96 bar Up to 131 bar Media operating temperature range: min30 °C to max. +100 °C Ambient temperature range: Operating fluid: Hydraulic oil to DIN 51524 Part 1 and 2 Viscosity range: Filtration: Class 21/19/16 to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Installation: No orientation restrictions Material Valve body: free-cutting steel Spool: hardened and ground	Operating pressure:	max. 420 bar		
Up to 48 bar Up to 96 bar Up to 131 bar Media operating temperature range: min30 °C to max. +100 °C Ambient temperature range: min30 °C to max. +100 °C Operating fluid: Hydraulic oil to DIN 51524 Part 1 and 2 Viscosity range: min. 7.4 mm²/s to max. 420 mm²/s Filtration: Class 21/19/16 to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Installation: No orientation restrictions Material Valve body: free-cutting steel Spool: hardened and ground	Nominal flow:	max. 60 l/min		
Media operating temperature range: Media operating temperature range: Min30 °C to max. +100 °C Min30 °C to max. +100 °C Min30 °C to max. +100 °C Mydraulic oil to DIN 51524 Part 1 and 2 Wiscosity range: Min. 7.4 mm²/s to max. 420 mm²/s Filtration: Class 21/19/16 to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Installation: No orientation restrictions Material Valve body: free-cutting steel Spool: hardened and ground	Operating pressure ranges:	Up to 20 bar		
Media operating temperature range: Media operating temperature range: Min30 °C to max. +100 °C Min30 °C to max. +100 °C Operating fluid: Wiscosity range: Min. 7.4 mm²/s to max. 420 mm²/s Filtration: Class 21/19/16 to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Installation: No orientation restrictions Material Valve body: Free-cutting steel Spool: hardened and ground		Up to 48 bar		
Media operating temperature range: Min30 °C to max. +100 °C Mydraulic oil to DIN 51524 Part 1 and 2 Min. 7.4 mm²/s to max. 420 mm²/s Filtration: Class 21/19/16 to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Installation: No orientation restrictions Material Valve body: free-cutting steel Spool: hardened and ground				
Ambient temperature range: Operating fluid: Viscosity range: Filtration: MTTF _d : Installation: Material Min30 °C to max. +100 °C Hydraulic oil to DIN 51524 Part 1 and 2 Min. 7.4 mm²/s to max. 420 mm²/s Class 21/19/16 to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Valve body: Spool: Min30 °C to max. +100 °C Hydraulic oil to DIN 51524 Part 1 and 2 The standard of the standard of the standard of the standard oil to DIN 51524 Part 1 and 2 Win30 °C to max. +100 °C Hydraulic oil to DIN 51524 Part 1 and 2 The standard oil to DIN 51524 Part 1 and 2 Valve body: The standard of the standard oil to DIN 51524 Part 1 and 2 Win30 °C to max. +100 °C The standard oil to DIN 51524 Part 1 and 2 Win30 °C to max. +100 °C The standard oil to DIN 51524 Part 1 and 2 Win30 °C to max. +100 °C Win30 °C to max. +100 °C The standard oil to DIN 51524 Part 1 and 2 Win30 °C to max. +100 °C Win30 °C				
Operating fluid: Viscosity range: min. 7.4 mm²/s to max. 420 mm²/s Filtration: Class 21/19/16 to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Installation: No orientation restrictions Material Valve body: free-cutting steel Spool: hardened and ground	Media operating temperature range:	min30 °C to n	nax. +100 °C	
Viscosity range: min. 7.4 mm²/s to max. 420 mm²/s Filtration: Class 21/19/16 to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Installation: No orientation restrictions Material Valve body: free-cutting steel Spool: hardened and ground	Ambient temperature range:	min30 °C to max. +100 °C		
Filtration: Class 21/19/16 to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Installation: No orientation restrictions Material Valve body: free-cutting steel Spool: hardened and ground	Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Installation: No orientation restrictions Material Valve body: free-cutting steel Spool: hardened and ground	Viscosity range:	min. 7.4 mm ² /s to max. 420 mm ² /s		
MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300 Installation: No orientation restrictions Waterial Valve body: free-cutting steel Spool: hardened and ground	Filtration:	Class 21/19/16 to ISO 4406		
instructions for valves" in brochure 5.300 Installation: No orientation restrictions Material Valve body: free-cutting steel Spool: hardened and ground		or cleaner		
Installation: Material No orientation restrictions Valve body: free-cutting steel Spool: hardened and ground	MTTF _d :			
Material Valve body: free-cutting steel Spool: hardened and ground		<u> </u>		
Spool: hardened and ground	Installation:	No orientation restrictions		
·	Material	Valve body:	free-cutting steel	
31561		Spool:	hardened and ground steel	
Seals: NBR (standard)		Seals:		
FKM (optional, media				
temperature range -20 °C to +120 °C)			-20 °C to +120 °C)	
Support rings PTFE		Support rings		
Cavity: FC10-3	Cavity:	FC10-3		
Weight: 0.26 kg	Weight:	0.26 kg		



CAVITY

Countersink FC10-3

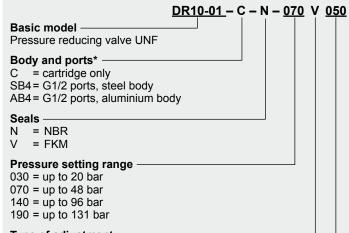
Finisher FC10-3



176282

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MODEL CODE



Type of adjustment

= Allen head (hex. 5/32")

= Handwheel Н

= Factory preset, non adjustable

Pressure setting

No details = no setting, spring relaxed Pressure value = setting specified by customer

Standard models

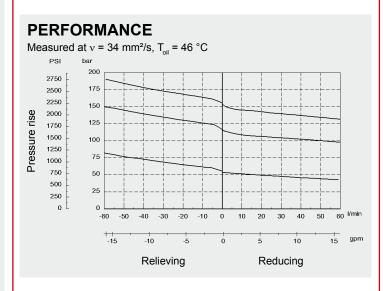
Model code	Part No.
DR10-01-C-N-030V	3140403
DR10-01-C-N-070V	3026815
DR10-01-C-N-140V	3026816
DR10-01-C-N-190V	3026817

*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH103-SB4	3037697	Steel, zinc-plated	G1/2	420 bar
FH103-AB4	3038092	Aluminium, anodized	G1/2	210 bar

Seal kits

Code	Material	Part No.	
FS103-N Seal Kit	NBR	3071274	
FS103-V SEAL KIT	FKM	3049443	



NOTE

millimeter (inch) subject to technical modifications

The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 /509-01 Fax: 0 68 97 /509-598 E-Mail: flutec@hydac.com