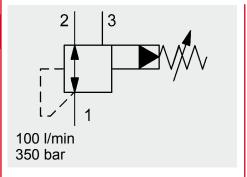
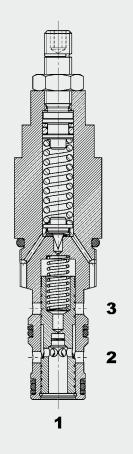
# E 5.982.1/01

# DAG INTERNATIONAL



## **Pressure Reducing Valve** Spool Type, Pilot-Operated SAE-10 Cartridge – 350 bar DR10P-01

### **FUNCTION**



The DR10P is a pilot-operated, springloaded, spool type pressure reducing

If the pressure across port 1 exceeds the pre-set spring tension, the pilotstage opens and oil flows from behind the main spool to the tank port 3. The resulting pressure differential causes the main spool to move against the resetspring and allows oil to flow from port 2 to port 1. This continues until the system pressure is equal to the spring tension and the valve closes again.

If the pressure at port 1 suddenly rises due to external force the valve is relieved to tank port 3 (maximum pressure relief).

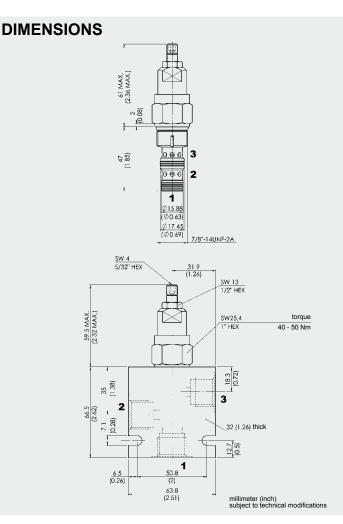
Any pressure at port 3 is additive to the valve pressure setting.

#### **FEATURES**

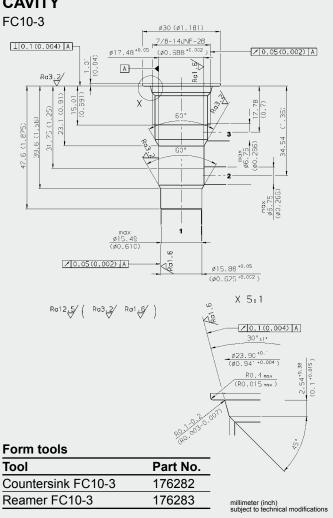
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Excellent stability across the whole flow range
- Screen-protected metering orifice enhances safety
- Optional pressure ranges up to 345 bar
- Quick response
- Compact design

#### **SPECIFICATIONS**

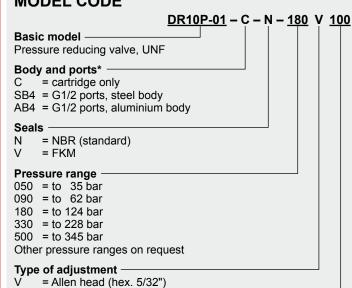
Operating pressure:	max. 350 bar		
Nominal flow:	max. 100 l/min		
Operating pressure ranges:	up to 35 bar		
	up to 62 bar		
	up to 124 bar		
	up to 228 bar		
	up to 345 bar		
Internal leakage:	< 0.5 l/min at 350 bar		
Media operating temperature range:	min30 °C to max. +120 °C		
Ambient temperature range:	min30 °C to max. +60 °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 <sub>d</sub> :	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 steel	
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)	
	Back-up rings:	PTFE	
Cavity:	FC10-3		
Weight:	0.2 kg		



## **CAVITY**



#### **MODEL CODE**



= Allen head (hex. 5/32") Н

= Knob adjustment

= Factory preset, non adjustable

= Allen head (hex. 5/32") with protective cap

#### Cracking pressure setting

No details = no setting

100 = 100 PSI customer-specific cracking pressure, on request

#### Standard models

Model code	Part No.
DR10P-01-C-N-050V	3024308
DR10P-01-C-N-090V	3024309
DR10P-01-C-N-180V	3024310
DR10P-01-C-N-330V	3024311
DR10P-01-C-N-500V	3024333

#### \*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

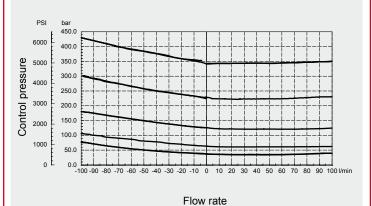
#### Seal kits

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

#### **PERFORMANCE**

Measured at

 $_{
m V}$  = 34 mm²/s,  $_{
m C_{
m Oil}}$  = 46 °C



NOTE
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

Subject to technical modifications.

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