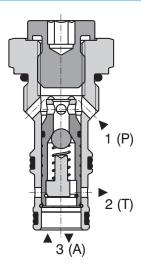
# A RGO HYTOS

# Load Shuttle Valve, Kick Down

# SH1F-A3

#### 3/4-16 UNF • Q<sub>max</sub> 20 l/min (5 GPM) • p<sub>max</sub> 250 bar (3600 PSI)

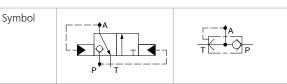


## **Technical Features**

- > Rapid response to changes in load direction
- > Hardened precision parts
- > Sharp-edged steel seats for dirt-tolerant performance
- > Leak-free closing, suitable for durable fast-cycling
- > High flow capacity
- ightarrow In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

#### **Functional Description**

A poppet type hydraulic directional shuttle valve in the form of a screw-in cartridge for use in single acting cylinder applications. Pressure at port 1(P) opens the ball check valve, allowing fluid to pass to port 3(A). The poppet tightly closes the connection between ports 3(A) and 2(T). If there is no pressure at port 1(P), pressure at port 3(A) –via the cylinder return spring – causes the poppet to shift so that fluid can pass from 3(A) to 2(T) but not from 3(A) and 1(P).



### **Technical Data**

Cartridge cavity / Form tools

Spare parts

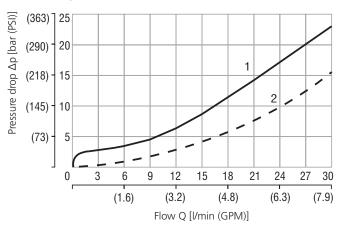
Valve size / Cartridge cavity		3/4-16 UNF-2A / A3
Max. flow	l/min (GPM)	20 (5.3)
Max. operating pressure	bar (PSI)	250 (3630)
Cracking pressure	bar (PSI)	2 ± 0.5 (29 ± 7 PSI)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)
Weight	kg (lbs)	0.08 (0.18)
	Datasheet	Туре
General information	GI_0060	Products and operating conditions

SMT\_0019

SP\_8010

**Characteristics** measured at  $v = 32 \text{ mm}^2/\text{s}$  (156 SUS)

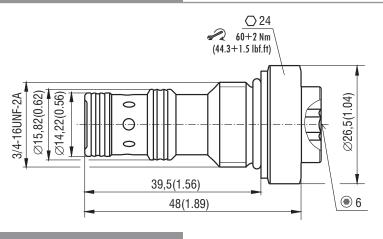
#### Pressure drop related to flow rate



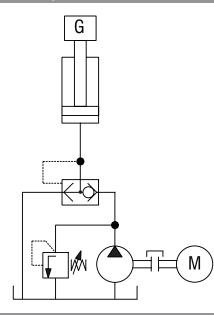
	Flow direction
1	$P(1) \rightarrow A(3)$
2	$A(3) \rightarrow T(2)$

SMT-A3





# Application example



## Ordering Code

