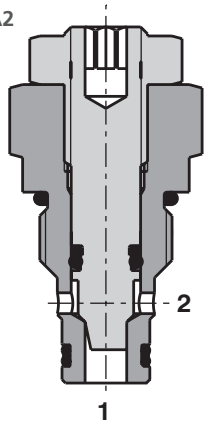
ST2(C)1A-A2

3/4-16 UNF • Q_{max} 20 l/min (5 GPM) • p_{max} 320 bar (4600 PSI)

ST21A-A2



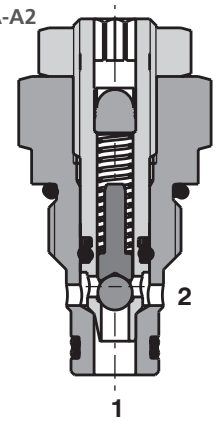
Technical Features

- Reverse flow check option
- Hardened precision parts
- Fine low-torque adjustment
- Linear adjustment and positive seat overlap
- Optionally adjustable by allen key or hand screw
- Desired settings may be locked down
- In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

Functional Description

A hydraulic flow restrictor valve in the form of a screw-in cartridge with an optional by-pass check valve.
After loosening the lock nut the valve may be unscrewed up to the red marked safety notch.
NOTICE:
Beyond the marking, the valve may get completely unscrewed, leading to leakage.

ST2C1A-A2



Model Code	ST21A-A2	ST2C1A-A2
Symbol		

Technical Data

Valve size / Cartridge cavity		3/4-16 UNF-2A / A2 (C-8-2)
Max. flow	l/min (GPM)	20 (5.3)
Max. operating pressure	bar (PSI)	320 (4600)
Fluid temperature range (NBR)	°C (°F)	-30 ...+100 (-22 ...+212)
Mass	kg (lbs)	0.2 (0.44)

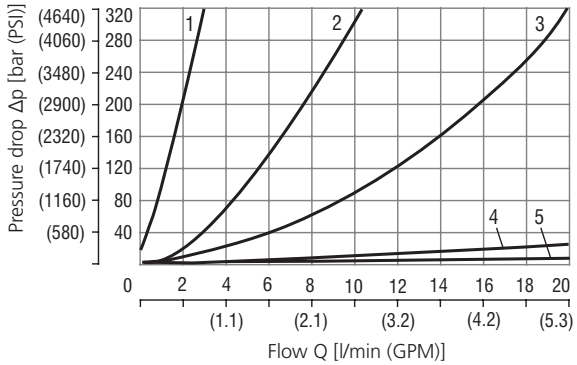
		Datasheet	Type
General information		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-A2*
	Sandwich mounted	SB-04(06)_0028	SB-*A2*
Cavity details / Form tools		SMT_0019	SMT-A2*
Spare parts		SP_8010	

Characteristics measured at ν = 32 mm²/s (156 SUS)

Pressure drop related to flow rate

Flow direction 2→1

ST21A-A2/L20*, ST2C1A-A2/L20*

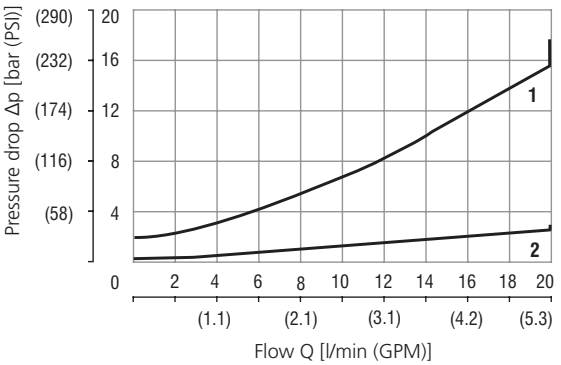


Number of turns of the adjustment screw				
1	2	3	4	5

Check valve pressure drop related to flow rate

Flow direction 1→2

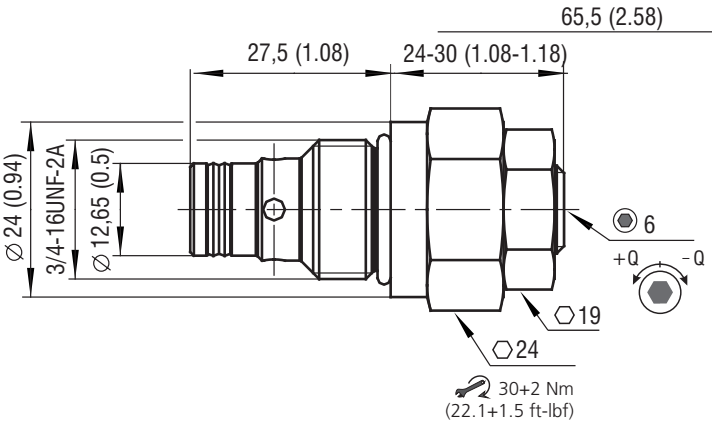
ST2C1A-A2/L20*



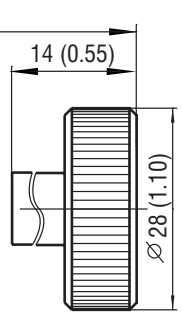
Trottle valve closed	Trottle valve opened
1	2

Dimensions in millimeters (inches)

Model S



Model RS



Ordering Code

ST2 [ ] - A2 / L 20 [ ] [ ] - [ ]

Needle - restrictor valve

without reverse flow check **1A**
with reverse flow check (by-pass check valve) **C1A**

Valve cavity
3/4-16 UNF-2A (C-8-2)

Version
Lightline

Flow rate
20 lpm (5 GPM)

Adjustment option
S allen key (hex. 6), without protective cap
RS hand screw, metal

Seals
No designation NBR
V FPM (Viton)

Surface treatment
A zinc-coated (ZnCr-3), ISO 9227 (240h)
B zinc-coated (ZnNi), ISO 9227 (520h)