

Technical Features

- › Hardened precision parts
- › High flow capacity and leak-free closing
- › Wide range of manual operations
- › Standard version zinc-coated with surface protection acc. to ISO 9227 (240 h salt spray)

Functional Description

A manually operated, 2-way, blocking, push-to-open valve in the form of a screw-in cartridge. The preferential flow is from 2 to 1. The valve provides the possibility to throttle the flow. Position 0 middle hand lever position - the valve is closed. Position I opens the valve against the return spring.

Model Code	2S5	
Symbol		

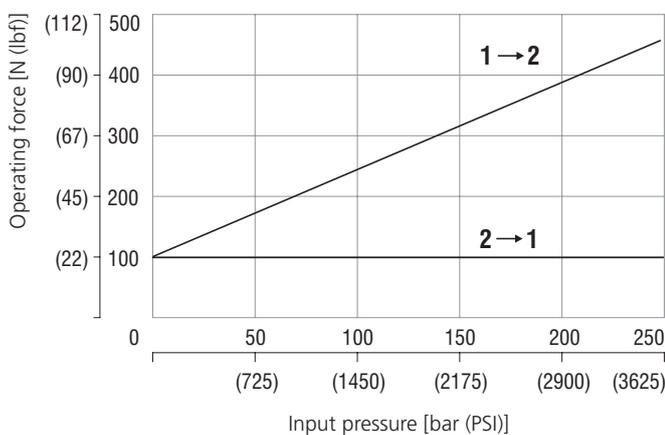
Technical Data

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)	250 (3600)	
Max. operating force	N (lbf)	see characteristics	
Max. internal leakage in the direction 2→1 ($v=32 \text{ mm}^2/\text{s}$)	cm^3/min	≤ 0.25 at 250 bar	
Fluid temperature range (NBR)	$^{\circ}\text{C}$ ($^{\circ}\text{F}$)	-30 ... 100 (-22 ... +212)	
Fluid temperature range (FPM)	$^{\circ}\text{C}$ ($^{\circ}\text{F}$)	-20 ... 120 (-4 ... +248)	
Fluid viscosity range	mm^2s^{-1}	10 ... 500	
Service life	cycles	10^6	
Weight	model	1	2
	kg (lbs)	0.27 (0.60)	0.38 (0.84)

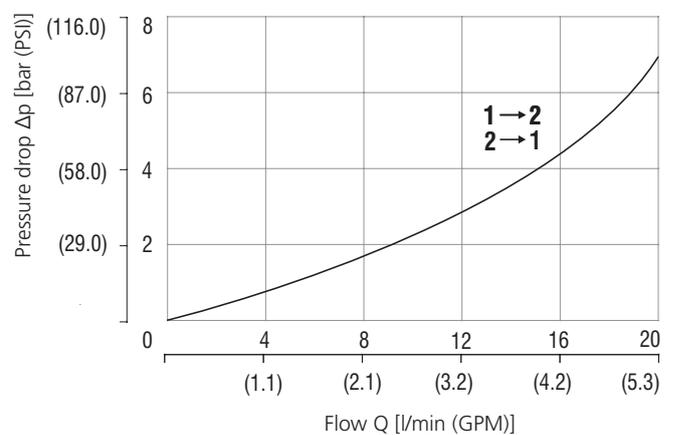
		Datasheet	Type
General information		HA 0060	Products and operating conditions
Valve bodies	In line mounted	HA 0018	SB-A2*
	Sandwich mounted	HA 0028	SB-*A2*
Cavity details / Form tools		HA 0019	SMT-A2*
Spare parts		HA 8010	

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

Operating limits

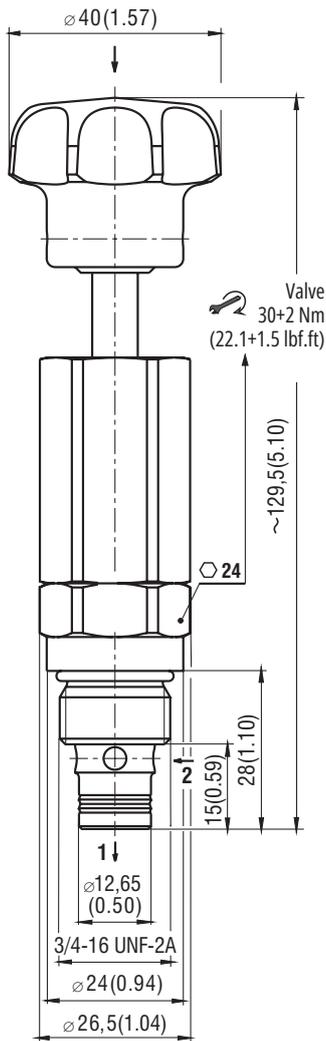


Pressure drop related to flow rate

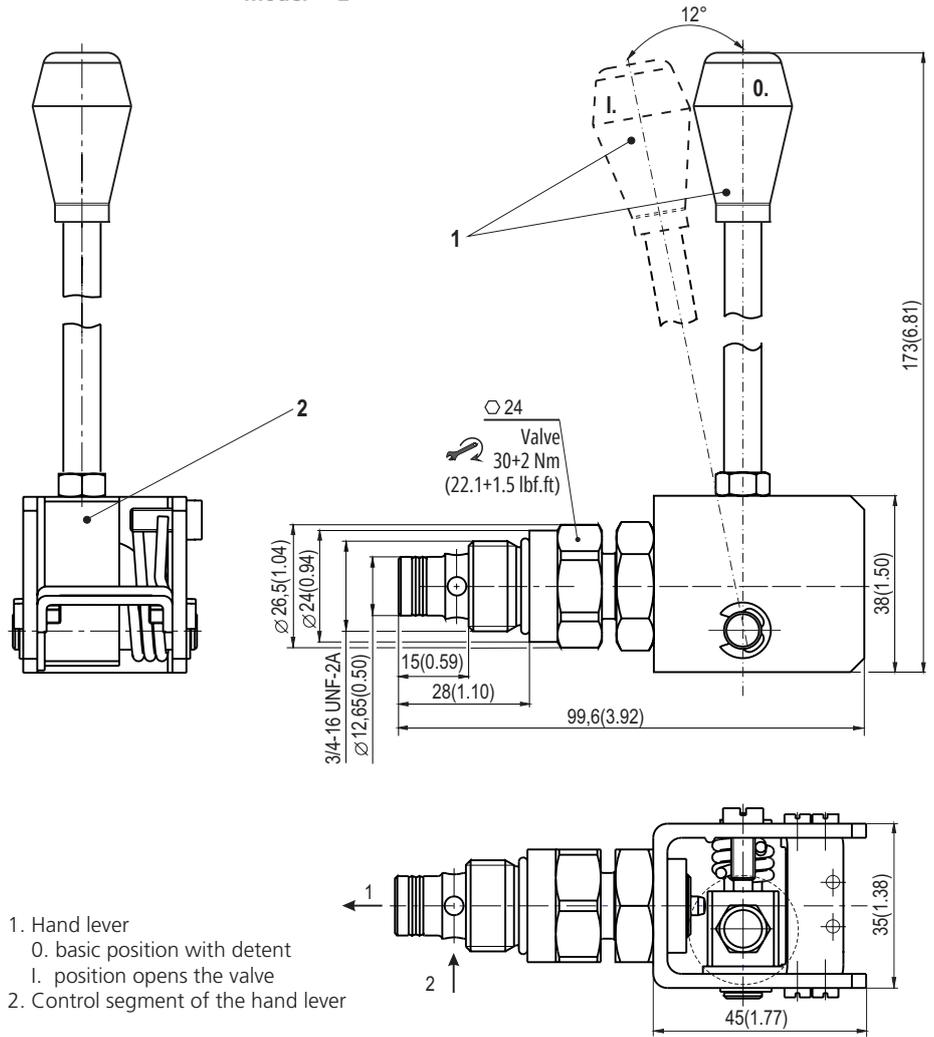


Dimensions in millimeters (inches)

Model 1



Model 2



- 1. Hand lever
- 0. basic position with detent
- 1. position opens the valve
- 2. Control segment of the hand lever

Ordering Code

SD1M - A2 / L 2S5 - -

2/2 directional valve, manually operated poppet type, blocking, direct acting

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

Model
Lightline

Model

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

No designation
V

Seals
NBR
FPM (Viton)

Actuation
1 hand push knob
2 hand lever