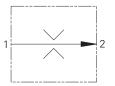
FR1-20 - Flow Regulator

Fixed, pressure compensated 227 L/min (60 USgpm) • 210 bar (3000 psi)



Operation

This valve maintains a constant flow from port 1 to port 2 based on 5.5 bar(80 psid) regardless of pressure changes downstream on port 2. Reverse flow from port 2 to port 1 is at the value of the fixed orifice and is nonpressure compensated.

Features

Hardened and ground and honed working components. Cartridge construction for maximum mounting flexibility.

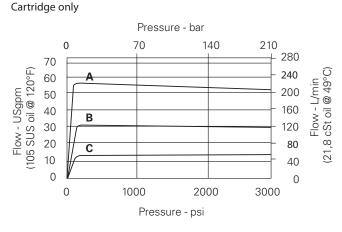
Sectional View

Performance Data

Ratings and Specifications				
Performance data is typical with fluid at 21,8 cSt (105 SUS) and	49°C (120°F)			
Typical application pressure (all ports)	210 bar (3000 psi)			
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)			
Rated flow	227 L/min (60 USgpm)			
Temperature range	-40° to 120°C (-40° to 248°F)			
Flow regulation accuracy	3,8–18,5 L/min (1–4.9 USgpm) ±15% 19–227 L/min (5–60 USgpm) ±10%			
Factory set maximum flow rate accuracy under standard test condi	tions and within the above ranges			
Cavity	C-20-2			
Fluids	All general purpose hydraulic fluids such as MIL-H-5606, SAE 10, SAE 20 etc.			
Filtration	Cleanliness code 18/16/13			
Standard housing material	Aluminum			
Weight cartridge only	0,82 kg (1.8 lbs)			
Seal kit	889615 (Buna-N), 889619 (Viton [*])			

Viton is a registered trademark of E.I. DuPont

Typical Flow Regulation



A - 227 L/min (60.0 USgpm) B - 114 L/min (30.0 USgpm)

C - 38 L/min (10.0 USgpm)

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



Description

valve.

This is a fixed orifice, pressure

compensated, restrictive flow

regulator screw-in cartridge

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FR1-20 - Flow Regulator

Fixed, pressure compensated

227 L/min (60 USgpm) • 210 bar (3000 psi)

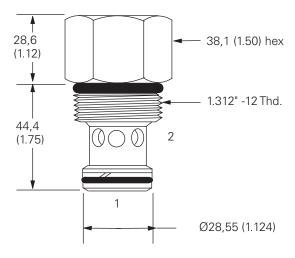
Model Code	FR 1 –	20 (V) - 2 3	- F - *** 4 5	- *.* - 6	00 7	
1 Function FR1 - Flow regulator	5 Port	: Size Port Size	Housing Number		6 Factory Set Flow Rate, Nominal (Specify in USgpm)	
2 Size			Aluminium Light duty	Aluminium Fatigue rated	Range 3.8-277 L/min (1-60 USgpm)	
20 - 20 Size	0	Cartridge only				
3 Seal Material Blank - Buna-N V - Viton°	6B	3/4" BSPP	02–175464	-	7 Special Features 00 – None (Only required if valve has	
	12T	SAE 12	566409	_		
	4G	1/2" BSPP	_	876732		
	6G	3/4" BSPP	_	876734		
	10H	SAE 10	_	876733	special features, omitted if "00")	
4 Adjustment	12H	SAE 12	-	876735		
F - Fixed orifice	Conception I for housing details					

Dimensions

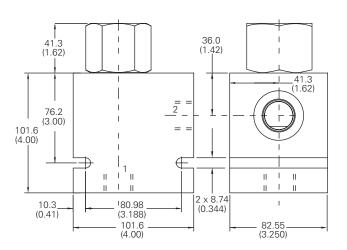
mm (inch)

Torque cartridge in aluminum housing to 128-155 Nm (95-115 ft lbs)

Cartridge Basic Code FR1-20



Installation Drawing







Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

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