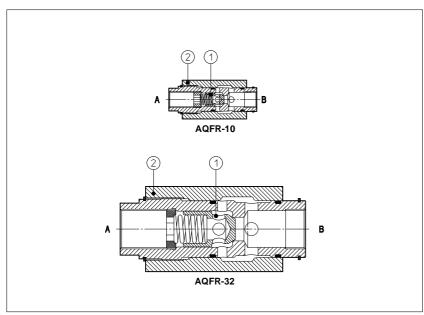




Flow restrictor valves type AQFR

in-line mounting - from 3/8" BSP to 11/4" BSP threaded ports

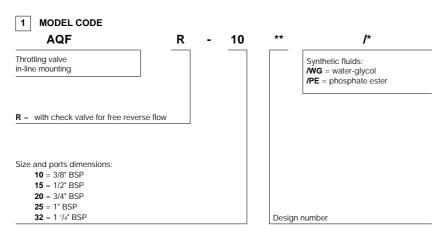


AQFR are flow throtting valves not compensated with a built-in check valve ① to allow the free flow in the opposite direction.

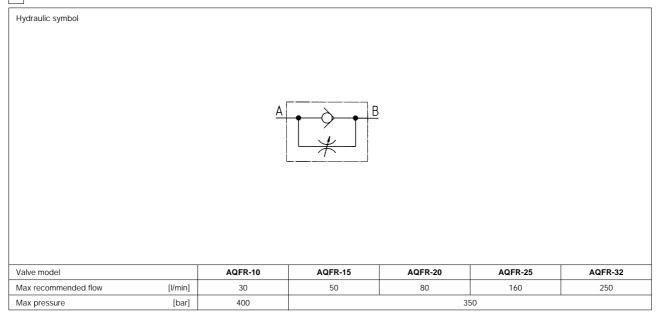
The flow adjustement is done by turning the external exagon ②. Clockwise rotation increases the throtting (passage reduced). The regulated flow is a function of the pressure drop existing between the inlet and outlet ports.

They are available in five sizes: form 3/8" to 1 1/4" BSP with flow up 30, 50, 80, 160, 250 I/min respectively and pressure up to 400/350 bar (depending on size).

Valves designed to operate in hydraulic systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics.



2 HYDRAULIC CHARACTERISTICS



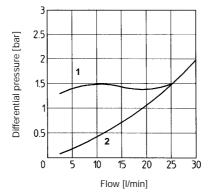
3 MAIN CHARACTERISTICS OF FLOW RESTRICTOR VALVES TYPE AQFR

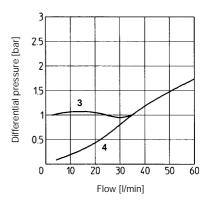
Assembly position / location	Any position
Ambient temperature	-20°C to +70°C
Fluid	Hydraulic oil as per DIN 51525535; for other fluids see section
Recommended viscosity	15 ÷100 mm²/sec at 40°C (ISO VG 15 ÷100)
Fluid contamination class	ISO 19/16, achieved with in line filters at 25 μm value and $\beta_{25} \ge 75$ (recommended)
Fluid temperature	T ≤ 80°C, if T ≥ 60°C select /PE seals

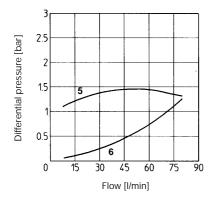
DIAGRAMS 4

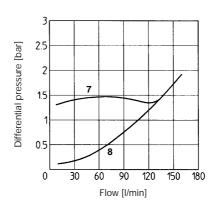
4.1 Q/∆p diagram through the chec valve for free flow $B \rightarrow A$ with the throttle valve fully open and fully closed

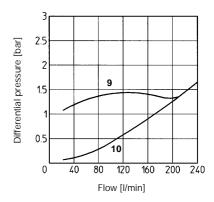
- 1 = AQFR-10 fully closed
- 2 = AQFR-10 fully opern
- 3 = AQFR-15 fully closed
- 4 = AQFR-15 fully opern
- 5 = AQFR-20 fully closed
- 6 = AQFR-20 fully opern 7 = AQFR-25 fully closed
- 8 = AQFR-25 fully opern 9 = AQFR-32 fully closed
- 10 = AQFR-32 fully opern



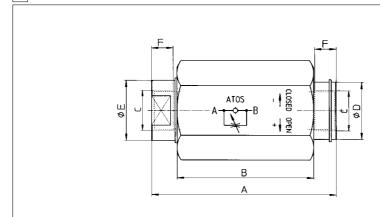


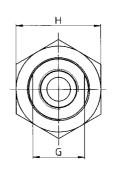






5 DIMENSIONS [mm]





Valve model	A	В	С	ØD	ØE	F	G	н	Mass [Kg]
AQFR-10	93	68	3/8" BSP	28	25	13	24	41	0,7
AQFR-15	105	78	1/2" BSP	32	30	15	27	46	1
AQFR-20	127	95,5	3/4" BSP	36	34	17	32	55	1,6
AQFR-25	153	112	1" BSP	48	45	19	42	75	3,5
AQFR-32	196	145	1 1/4" BSP	63	60	21	55	90	6,5