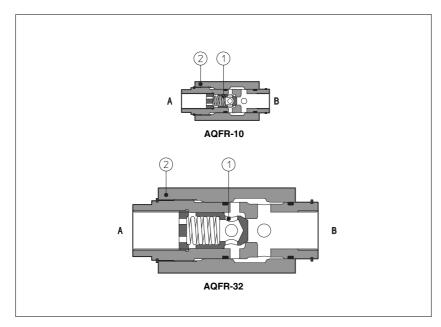


Flow restrictor valves type AQFR

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

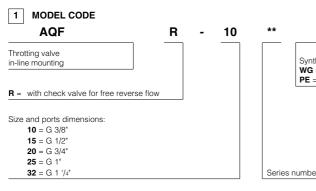


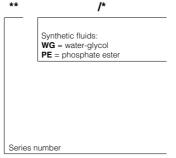
AQFR are not compensated flow throttling valves with a built-in check valve ① to allow the free flow in the opposite direction.

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

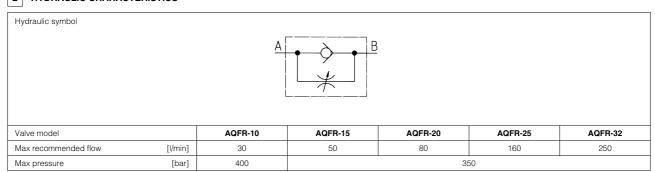
They are available in five sizes: from 3/8" to 1 1/4" GAS with flow up 30, 50, 80, 160, 250 I/min respectively and pressure up to 400/350 bar (depending on size).

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





2 HYDRAULIC CHARACTERISTICS



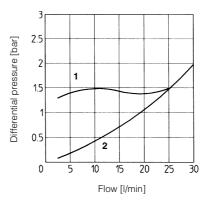
3 MAIN CHARACTERISTICS OF FLOW RESTRICTOR VALVES TYPE AQFR

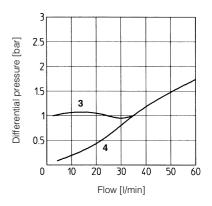
Assembly position / location	Any position			
Ambient temperature	-20°C to +70°C			
Fluid	Hydraulic oil as per DIN 51525535; for other fluids see section ☐			
Recommended viscosity	15 ÷100 mm²/sec at 40°C (ISO VG 15 ÷100)			
Fluid contamination class	ISO 19/16, achieved with in line filters at 25 μm value and β₂₅ ≥ 75 (recommended)			
Fluid temperature	-20°C +60°C (standard and /WG seals) -20°C +80°C (/PE seals)			

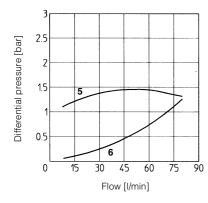
4 DIAGRAMS based on mineral oil ISO VG 46 at 50°C

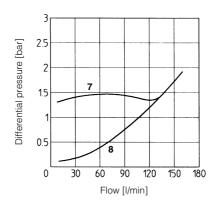
4.1 Q/Δp diagram through the chec valve for free flow B→A with the throttle valve fully open and fully closed

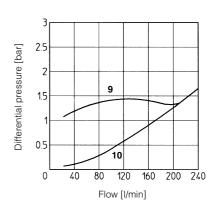
- 1 = AQFR-10 fully closed
- 2 = AQFR-10 fully open
- 3 = AQFR-15 fully closed
- 4 = AQFR-15 fully open
- 5 = AQFR-20 fully closed
- 6 = AQFR-20 fully open
- 7 = AQFR-25 fully closed
- 8 = AQFR-25 fully open
- 9 = AQFR-32 fully closed
- 10 = AQFR-32 fully open



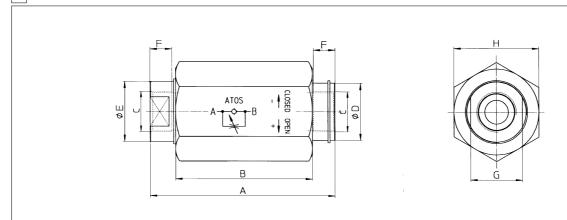








5 DIMENSIONS [mm]



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