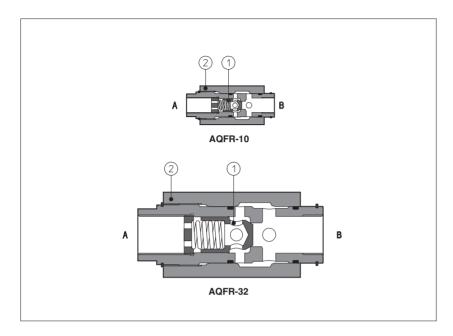


Flow restrictor valves type AQFR

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



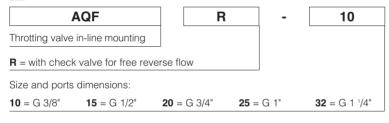
AQFR are not compensated flow throttling valves with a built-in check valve ① to allow the free flow in the opposite direction.

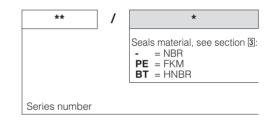
The flow adjustement is done by turning the external exagon ②. Clockwise rotation increases the throtting (reduced passage). The regulated flow is a function of the pressure drop existing between the inlet and outlet ports.

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

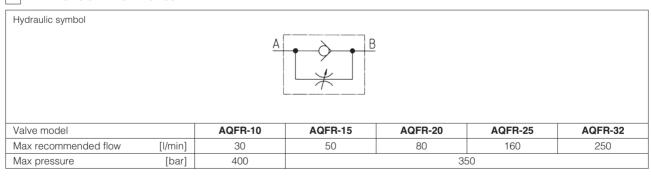
Max pressure: 350 bar

1 MODEL CODE





2 HYDRAULIC CHARACTERISTICS



3 MAIN CHARACTERISTICS, SEALS AND FLUIDS - for other fluids not included in below table, consult our technical office

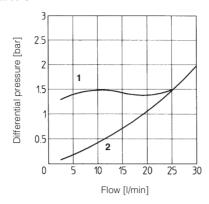
Assembly position	Any position							
Ambient temperature	Standard execution = -30°C ÷ +70°C; /PE option = -20°C ÷ +70°C; /BT option = -40°C ÷ +70°C							
Seals, recommended fluid temperature	NBR seals (standard) = -20° C ÷ $+60^{\circ}$ C, with HFC hydraulic fluids = -20° C ÷ $+50^{\circ}$ C FKM seals (/PE option) = -20° C ÷ $+80^{\circ}$ C HNBR seals (/BT option) = -40° C ÷ $+60^{\circ}$ C, with HFC hydraulic fluids = -40° C ÷ $+50^{\circ}$ C							
Recommended viscosity	15÷100 mm²/s - max allowed range 2,8 ÷ 500 mm²/s							
Fluid contamination class	ISO 4406 class 21/19/16 NAS 1638 class 10, in line filters of 25 μm (β25 ≥75 recommended)							
Hydraulic fluid	Suitable seals type	Classification	Ref. Standard					
Mineral oils	NBR, FKM, HNBR	HL, HLP, HLPD, HVLP, HVLPD	DIN 51524					
Flame resistant without water	FKM	HFDU, HFDR	- ISO 12922					
Flame resistant with water	NBR, HNBR	HFC						

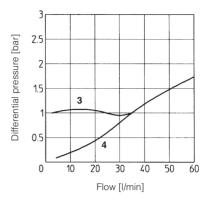
4 DIAGRAMS based on mineral oil ISO VG 46 at 50°C

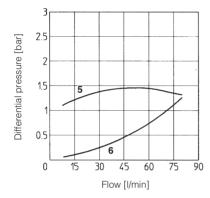
4.1 Q/∆p diagram through the chec valve for free flow B→A with the throttle valve fully open and fully closed

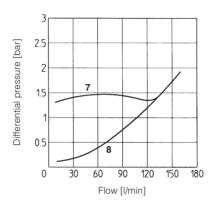
- 1 = AQFR-10 fully closed 2 = AQFR-10 fully open 3 = AQFR-15 fully closed

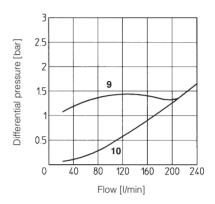
- 4 = AQFR-15 fully open
- 5 = AQFR-20 fully closed
- 6 = AQFR-20 fully open
- 7 = AQFR-25 fully closed
- 8 = AQFR-25 fully open
- 9 = AQFR-32 fully closed
- 10 = AQFR-32 fully open



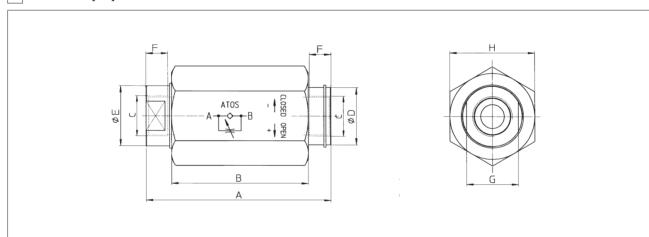








5 DIMENSIONS [mm]



Valve model	Α	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	