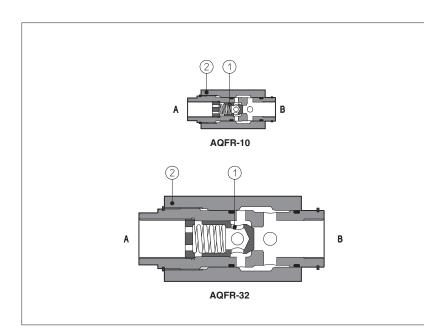
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Flow restrictor valves type AQFR

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



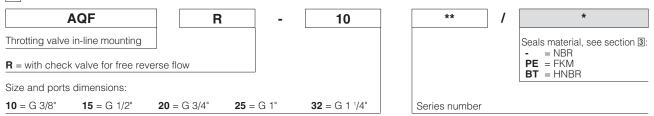
AQFR are not compensated flow throttling valves with a built-in check valve ① to allow the free flow in the opposite direction.

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 $1"/_4"$ GAS with flow up 30, 50, 80, 160, 250 l/min respectively and pressure up to 400/350 bar (depending on size).

Max flow: 250 l/min Max pressure: 400 bar

1 MODEL CODE

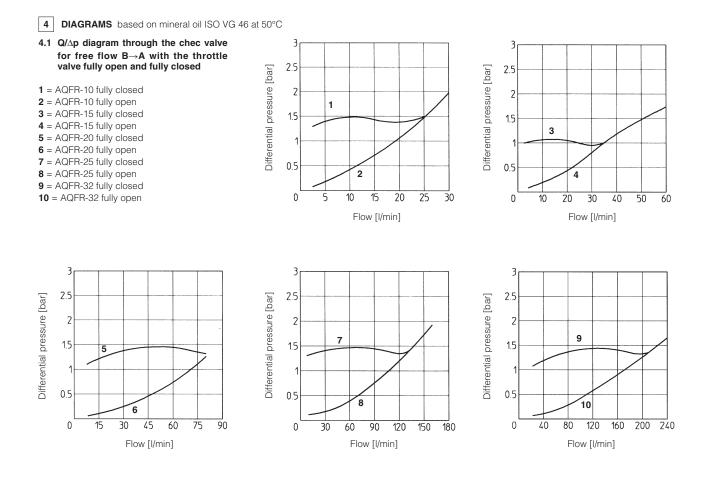


2 HYDRAULIC CHARACTERISTICS

| Hydraulic symbol | | | | | | | |
|----------------------|---------|---------|---------|---------|---------|---------|--|
| Valve model | | AQFR-10 | AQFR-15 | AQFR-20 | AQFR-25 | AQFR-32 | |
| Max recommended flow | [l/min] | 30 | 50 | 80 | 160 | 250 | |
| Max pressure | [bar] | 400 | 350 | | | | |

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

| Assembly position | Any position | | | | | |
|--------------------------------------|--|----------------------------|---------------|--|--|--|
| Compliance | RoHS Directive 2011/65/EU as last update by 2015/65/EU REACH Regulation (EC) n°1907/2006 | | | | | |
| Ambient temperature | Standard execution = $-30^{\circ}C \div +70^{\circ}C$; /PE option = $-20^{\circ}C \div +70^{\circ}C$; /BT option = $-40^{\circ}C \div +70^{\circ}C$ | | | | | |
| Seals, recommended fluid temperature | NBR seals (standard) = $-20^{\circ}C \div +80^{\circ}C$, with HFC hydraulic fluids = $-20^{\circ}C \div +50^{\circ}C$ FKM seals (/PE option) = $-20^{\circ}C \div +80^{\circ}C$ HNBR seals (/BT option) = $-40^{\circ}C \div +60^{\circ}C$, with HFC hydraulic fluids = $-40^{\circ}C \div +50^{\circ}C$ | | | | | |
| Recommended viscosity | 15÷100 mm²/s - max allowed range 2,8 ÷ 500 mm²/s | | | | | |
| Max fluid contamination level | ISO4406 class 20/18/15 NAS1638 class 9, see also filter section at www.atos.com or KTF catalog | | | | | |
| 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 | | | | |



5 DIMENSIONS [mm]

