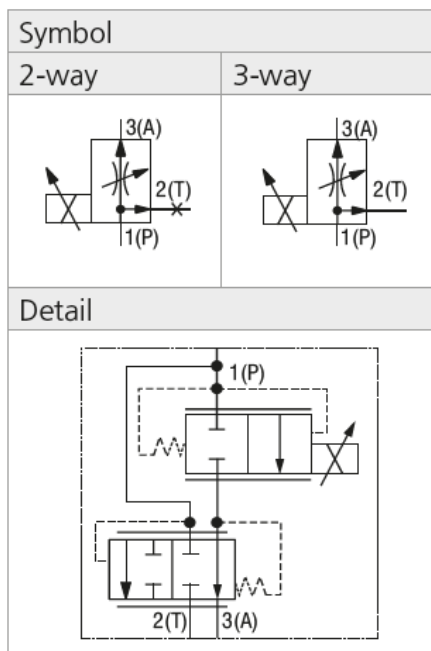


Screw In Cartridges – Proportional

Proportional Flow regulator 2 Way and 3 Way **SF32P-C3**



Cavity
C-12-3

100 l/min (26 GPM)

Technical Data

Size 12, 1-1/16-12 UN, C-12-3

Pressure 350 bar (5080 PSI)

Max. inlet flow (port 1) 100 (26.42) l/min (GPM)

Regulated Flow 0 – 60 (0 – 15.85) l/min (GPM)

Oil Temp. Range – 30 ... + 80 °C

Ambient Temp. Range – 30 ... + 80 °C

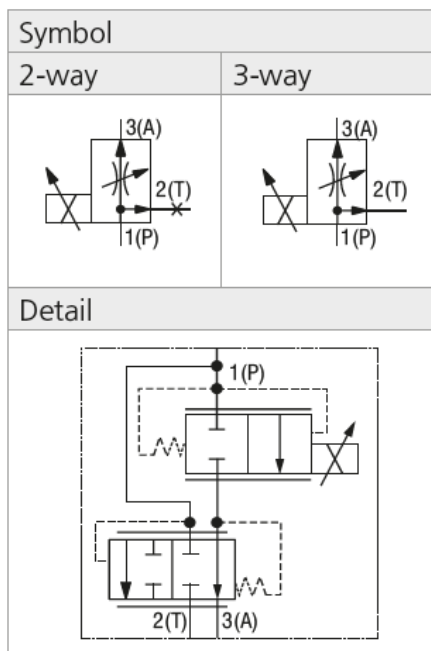
Plating Surface ZnNi, 520 DIN 9227

Electrical terminal options DIN, AMP, DT04-2P

PWM/Diether 120 Hz recommended

Screw In Cartridges – Proportional

Proportional Flow regulator 2 Way and 3 Way **SF32P-C3**



Cavity
C-12-3

100 l/min (26 GPM)

Advantages

- Extremely low pressure drops in Neutral position
12 bar @ 80 lpm, other producers 18-20 bar
- Hardened metal parts with high precision manufacturing
- Life time 10 Mio @ 350 bar, 1 Mio @ 420 bar - w/o performance Change
- Allowed under voltage supply $0,8 \cdot U_n$ but still keeping performance
- Constant flow in complete induced load pressure in 3 Way and 2 Way function

Benefits (Value proposition)

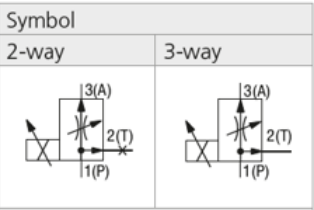
- Energy saving, in neutral position – TOP in available sizes
- Design ready for mobile applications, Vibration proven

Interchangeability

- SF32P-C3 interchangeable with HVC12-3 cavity
- Interchangeable cavity (Industrial standard C-12-2, C-12-3)
- Interchangeable solenoids with other valves (PRM2-06)
- HYDRAFORCE valve does not match to SF32P-C3 cavity

Screw In Cartridges – Proportional

Proportional Flow regulator 2 Way and 3 Way – **Priority Flow**

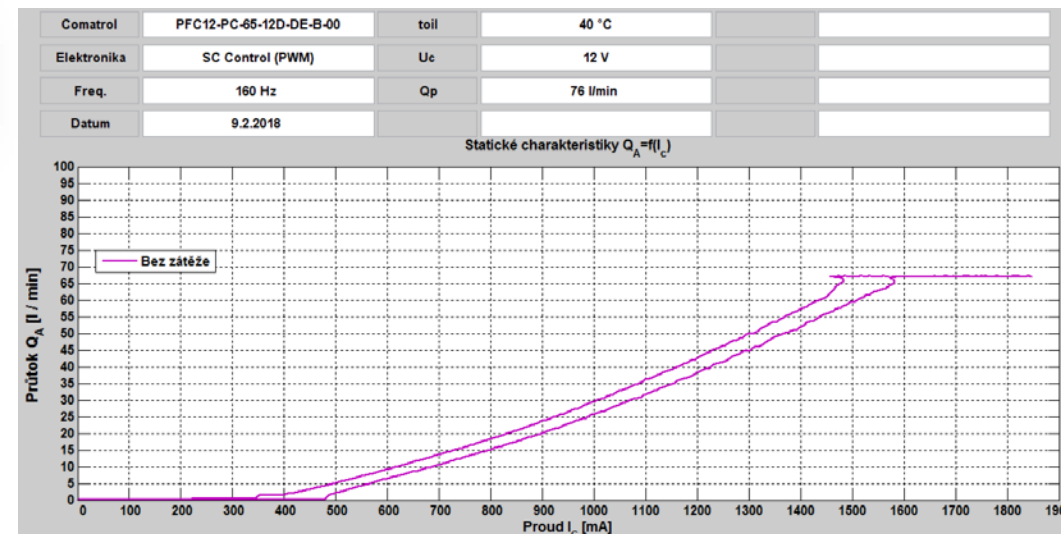
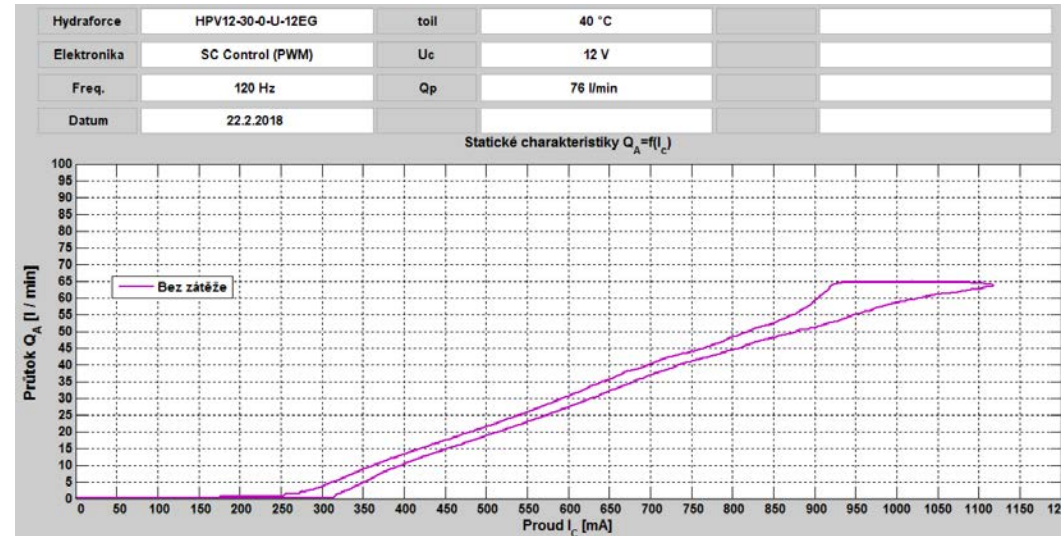
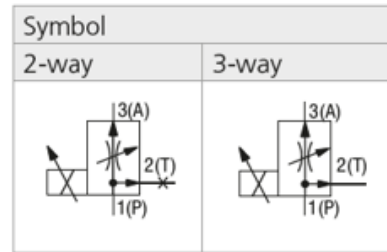


Ventil	SF34P-C3	Qp	80 L/min		
Verze	ah_v9_final	toil	60°C		
Úhel váhy	70°				
Zatěžování	A				



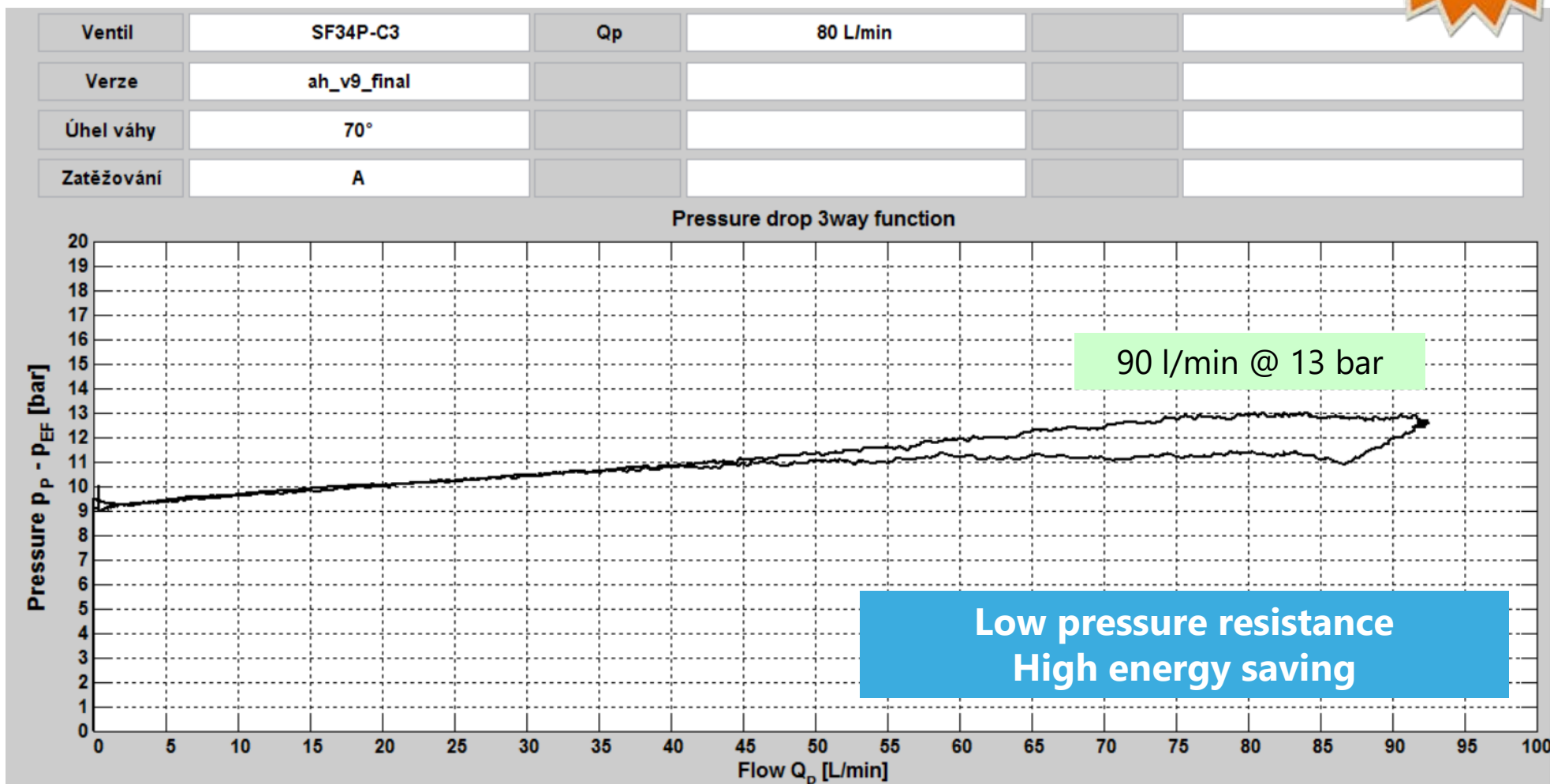
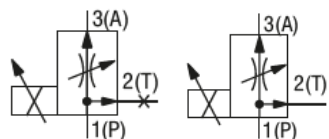
Screw In Cartridges – Proportional

Proportional Flow regulator 2 Way and 3 Way – **Priority Flow**



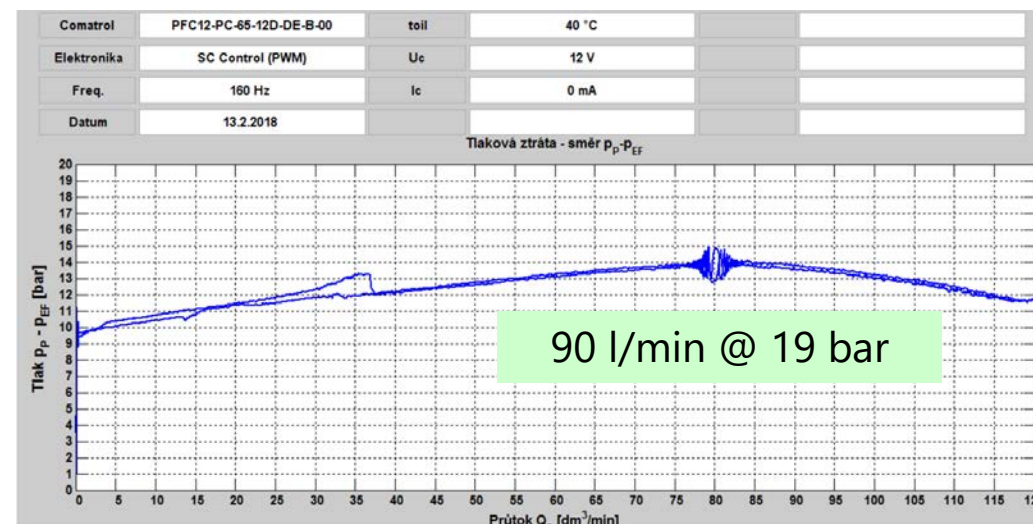
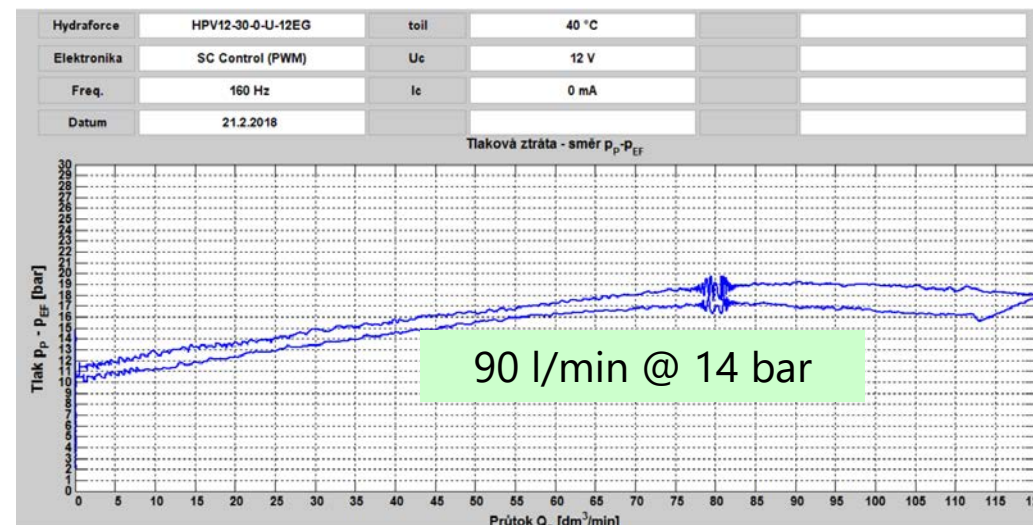
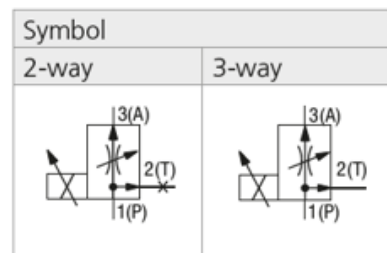
Screw In Cartridges – Proportional

Proportional Flow regulator 2 Way and 3 Way – **Neutral Flow**



Screw In Cartridges – Proportional

Proportional Flow regulator 2 Way and 3 Way – **Neutral Flow**



Screw In Cartridges – Proportional

Proportional Flow regulator 2 Way and 3 Way



Lifetime 10 Mio pulse cycles

10 Mio @ 350 bar, 1 Mio @ 420 bar

Heavy duty solenoids,

Superior design for
Mobile vehicles
high IP rating (IP69K)

Electrical Terminals

EN 175301-803-A (IP65)
AMP Junior Timer
Deutsch DT04-2P

Surface Plating

for
Mobile applications
520 hours salt spray
acc. ISO 9227 (ASTM Standard B117)

Excellent stability

throughout flow range

Fast response

to proportional current input

One4All Electronic control
EL7



Hand Knob

For manual flow adjustment



Interchangeability

Industrial standard cavity C-12-3
interchangeable with Other producers



Screw In Cartridges – Proportional

Proportional Control Valves, **EL7 – New controller Generation**



- › Single/**Double** solenoid versions
- › Programable via Bluetooth
- › Compatible with Android and iOS
- › Wide range of command signals
- › Max current up to 3 A
- › Supply Voltage 9 – 32 V DC

- › Wide range of command signals
 - 0 ... 20 mA
 - 4 ... 20 mA
 - 0 ... +5 V
 - ± 5 V
 - 0 ... 10 V
 - ± 10 V
 - $U_{cc}/2 \pm 5$ V
 - $U_{cc}/2 \pm 10$ V



- › Ramp functions 0 ... 45 s
- › Linearization
- › PWM 80 ... 1000 Hz
- › Dynamic lub. 10 KHz



Screw In Cartridges – Proportional

Solenoids

Rugged Casing

Coils are housed in a durable 30% glass-filled thermoplastic casing, providing a rigid base for coil terminations.

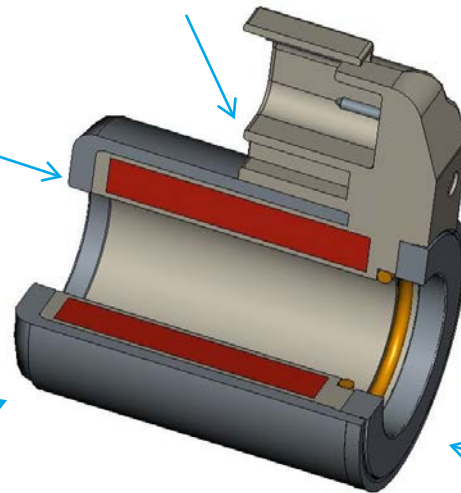
Superior metal shell

Thick deep drawn shell surrounds the copper winding, increasing the coil's flux density and therefore its power as a Solenoid.

High Variety of connectors

ARGO-HYTOS offers many standard types of electrical connections for each size of coils

- **EN 175301-803-A (IP65)**
- **AMP JUNIOR TIMER (IP67)**
- **DEUTSCH DT04-2P (IP67 / IP69K)**
- **2-pin connector EW designed to be slipped into the wirebox**
- **Loose conductors of standard length 300 mm (11.8 in)**
- **Loose conductors equipped with the connector at the end**



High Quality Materials

ARGO-HYTOS coils are made with high quality, Higher than Class H Magnet wire and insulation materials.

Heat Rise

ARGO-HYTOS is using larger solenoids for lower heat rise, stronger electromagnetic force and longer solenoid life. Our solenoids can be specially designed for very high ambient temperatures without challenging the solenoid's insulation system.

Custom Coils

ARGO-HYTOS can provide windings precisely-tailored for special OEM applications.



Screw In Cartridges – Proportional

Solenoids IP Class Tests

Continuous improvement

- High Variety of connectors
- Superior metal shell
- Strong electromagnetic force
- High coil and actuator service life
- High Quality Materials
- High water ingress Tightness (Higher than IP69K)
- Valve is electrically powered during test



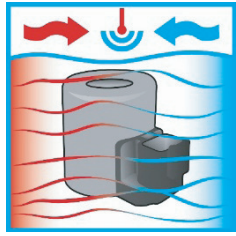
Screw In Cartridges – Proportional

Solenoids Qualified by Mobile World Wide OEM Machines producers

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SUPPORTING YOUR SUCCESS

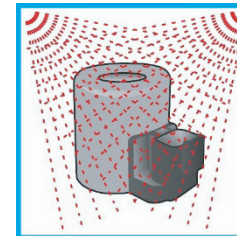
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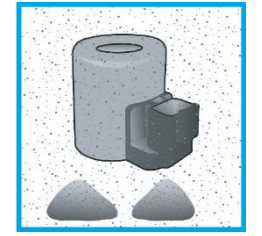


Extended Thermal Shock Immersion Test

Salt Spray Test
according to Standard ISO 9227

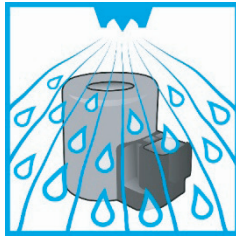


Inorganic Dust Test
IP6x according to IEC 60529



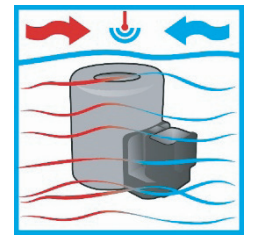
Bumb Test
according to EN 60068-2-29

Vibration Test
random vibrations according to EN 60068-2-6



High Pressure Cleaning Test – IPX9K
Ref. Standard DIN 40 050, part 9

Storage Temperature Test
according to EN 60068-2-14



Chemical Resistance Test



Combined Operating Voltage, Humidity and Temperature Test

Maximum Load Cycling Test

