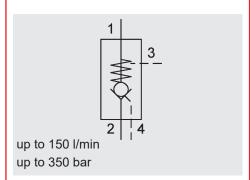
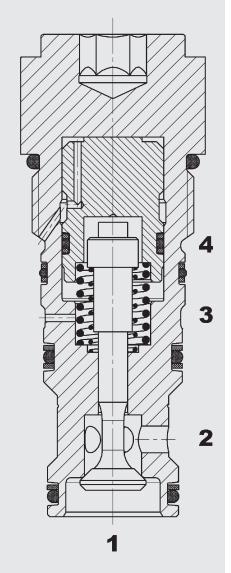


DAG INTERNATIONAL



FUNCTION



Check Valve RPL16322-01

Pilot-to-open Poppet type, direct acting Cartridge Valve UNF - 350 bar

PRODUCT ADVANTAGES

- very low leakage
- very low influence on the control pressure if there is pressure at port 2
- exposed surfaces zinc-nickel plated for increased corrosion protection (1,000 h salt spray test)

DESCRIPTION OF FUNCTION

The hydraulic pilot operated check valve is a direct-acting, spring-loaded poppet valve with drain at port 3 and pilot line at port 4.

When there is no flow through the valve, the compression spring holds the cone poppet in the closed position.

Free flow is possible in the flow direction from port 2 to 1.

The valve opens when the pressure at port 2 is higher than the pressure at port 1, including the pressure created by the spring force.

In the opposite direction, the poppet is therefore pressed onto the seat and blocks flow. If sufficient control pressure is applied at port 4, the poppet is lifted from the valve seat and oil flows from port 1 to 2. In this case, port 3 must be depressurised.

A pressure build-up in the leakage line at port 3 acts against the pilot pressure at port 4 and can therefore control the valve.

p,	= pressure at port 1
p,	= pressure at port 2
p₄	= pilot pressure at port 4
p	= opening pressure at port 2

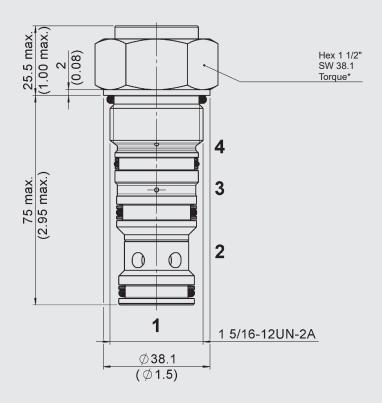
Cavity

Weight

16322

0.55 kg

DIMENSIONS

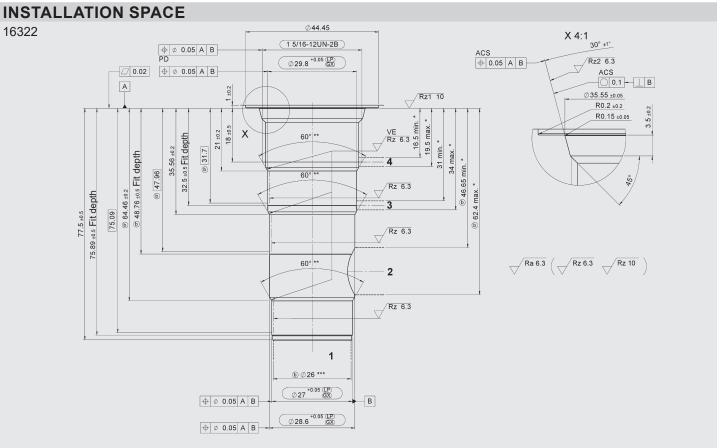


Steel housing (burst strength > 360 N/mm²): 200 Nm
Aluminium housing (burst strength > 330 N/mm²): 150 Nm
(With torque tool in acc. with DIN EN ISO 6789, tool type II, class A or B)
For more information see "Operating conditions and instructions for valves" in brochure 53.000

millimeter (inch) subject to technical modifications

^{*} See "Conditions and Instructions for Valves" in brochure 53.000





VE = visual examination

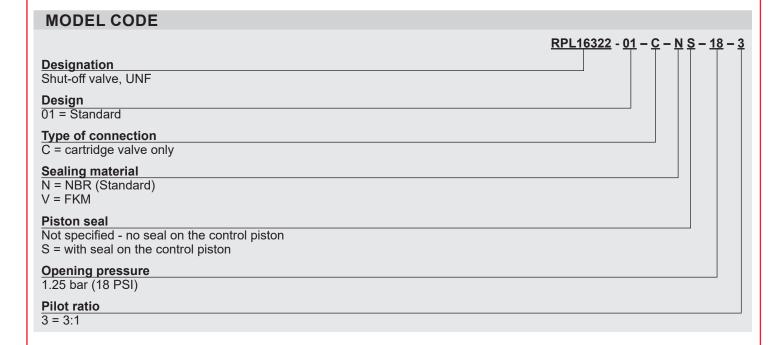
ACS = user definable cross-sectional area

PD = pitch diameter

Permitted boring zone (for block design)

Sharp edges should be avoided using a radius of 0.1 mm to 0.2 mm Largest pre-drilling diameter (nominal tool diameter)

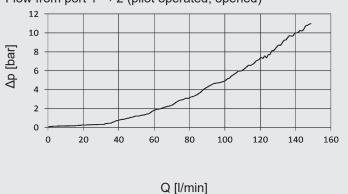
millimeter (inch) subject to technical modifications

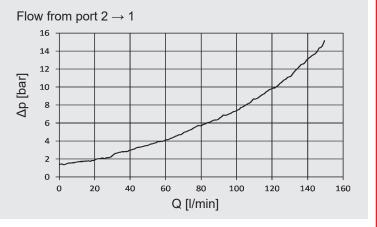


EXAMPLE CHARACTERISTICS

measured at $v = 34 \text{ mm}^2/\text{s}$, $T_{Oil} = 46 \, ^{\circ}\text{C}$

Flow from port $1 \rightarrow 2$ (pilot operated, opened)





MATERIAL OVERVIEW

Standard models

Description Part no. RPL16322-01-C-NS-18-3 4304473 Other versions on request

Spare parts, seal kits

Description	Material	Part no.
FS UNF 08/V	FKM	4380670

Accessories, inline connection housing

Description	Material	Ports	Pressure	Part no.
On request				

Accessories, cavity tools

Description	Part no.
In preparation	

NOTE

The information in this brochure relates to the operating conditions and applications described.

For fields of applications not described, please contact the relevant technical department. Subject to technical modifications.

Tel: 0 68 97 /509-01 Fax: 0 68 97 /509-598 Email: valves@hydac.com