FLOW RECTIFIER PLATE

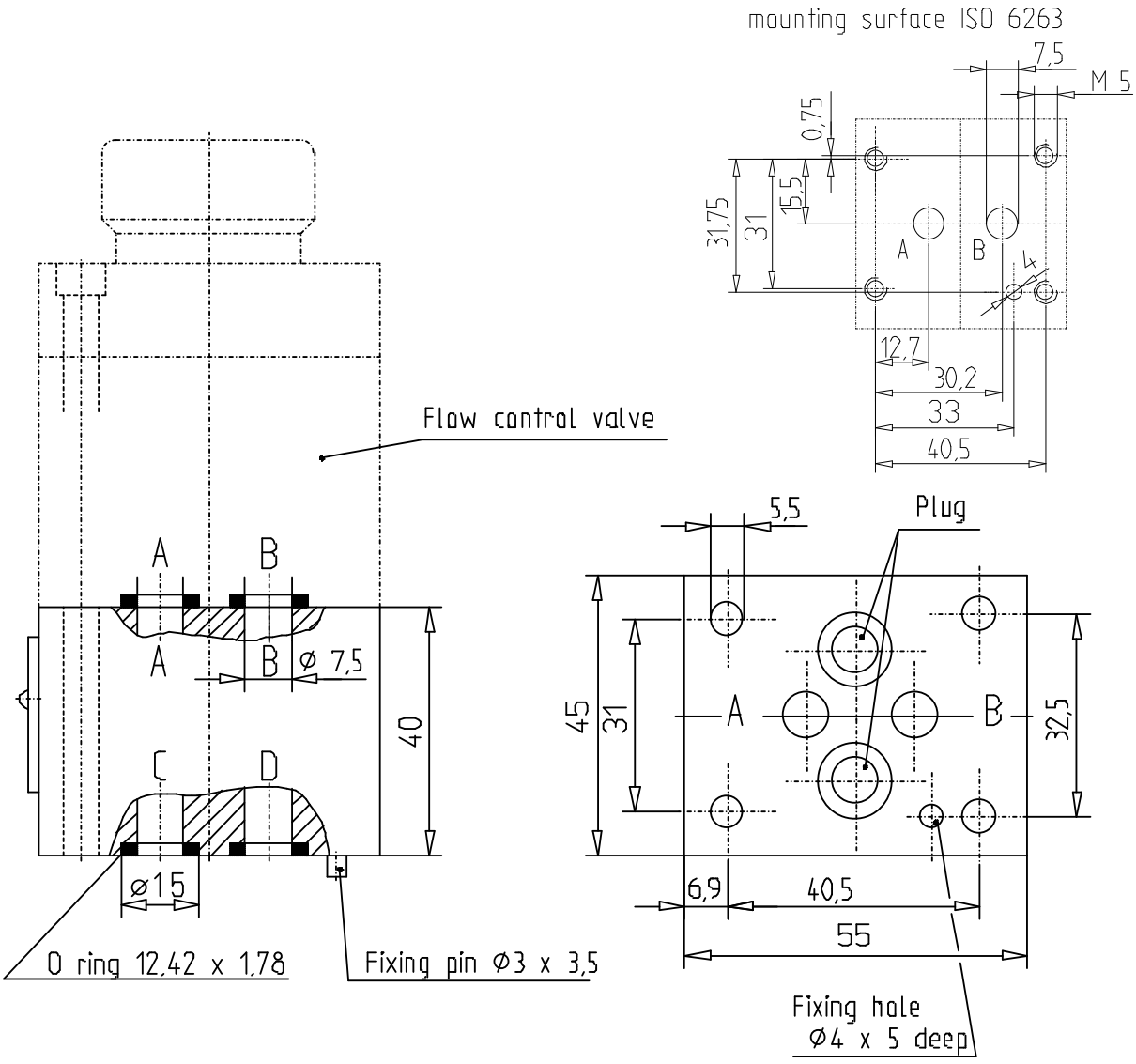
for 2-way flow control valve
Modular stack valve – mounting surface according to ISO 6263
315 bar – 25 l/min

Type
71 C CZ

Flow rectifier valves cause a diversion of the oil flow. Therefore, the control direction of a liquid flowing through the 2-way flow control valve is always the same when controlling the speed. It does not matter whether the pressure liquid flows towards the consumer or returns.

FEATURES

- Tapered check valve with flexible seal
- Seals Buna N (NBR)
- Modular stack valve
- Mounting surface according to ISO 6263



ORDER DATA

The O rings for sealing the connection holes are part of the scope of supply.

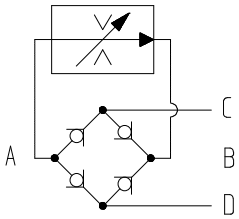
Description	Flow rectifier plate	71	C	C	Z	M15

- 71 – Type series
- C – Series code letter
  Mounting surface: According to CETOP R 69 H (ISO 6263)
- C – Modular stack valve
- Z – Additional data for special design
- M15 – seals made of Viton (FKM)) = M 15

CHARACTERISTICS

1. General

Symbol

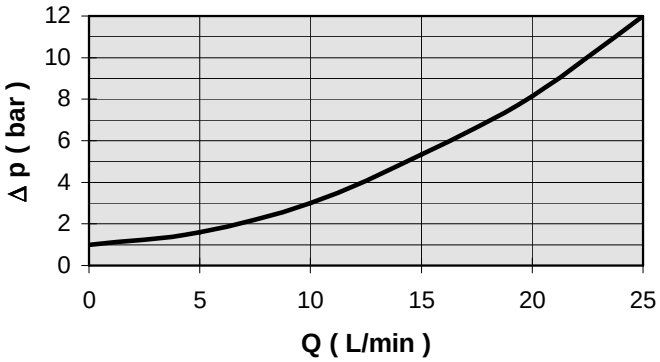


Design	Spring-loaded tapered check valve
Weight	0,6 kg
Mounting position	Arbitrary
Direction of volume flow	C to A, B to D or D to A, B to C
Ambient temperature	-25 ℃ to +80 ℃

2. Hydraulic characteristics

Rated pressure = max. pressure	315 bar for all connections
Opening pressure	Approx. 1 bar
Hydraulic fluid	Hydraulic oil according to DIN 51 524 (1.2)
Temperature range of hydraulic fluid	+10 ℃ to + 80 ℃
Viscosity range	5 - 350 mm2/sec
Max. allowable volume flow	25 L/min
Contamination level/filtering	General permissible class 19116 according to IS0 4406 or 10 NAS 1638 (recommended filter: min. retaining rate $\beta_{20} \geq 75$)

Δp-Q characteristic; Δp=f (Q)
This figure shows the total pressure loss as a function of the volume flow.



DESCRIPTION OF THE

1. Ventil

The flow rectifier valve is used when controlling the speed of the consumers in both directions by means of a 2-way flow control valve. With the same flow valve setting, the same speed is obtained for both directions. Here, one direction is primary-controlled and the other one secondary-controlled.

The construction of the rectifier plate consists of a combination of four check valves, which are arranged to form the so-called ,,Graetz circuit“. The check valves are equipped with a flexible seal in the closing direction and with a valve lift stop in the opening direction so that on one hand a perfect tightness and on the other hand free outlet port is always guaranteed. Thus, the control of even the smallest volume flows will not be tampered.

2. Material

The valve parts are mainly made of engineering steel. The external valve parts are burnished, the interior parts are partly burnished, phosphatized or galvanized.

For applications not covered by the specified characteristics, please contact us.
All specified characteristics are partly based on long years of experience and partly on measurements made in laboratories. The data are typical of the valve and can differ in series. All measurements were carried out on a test stand with an oil viscosity of 36 m²/sec and a filter mesh of < 10 µm. The specified data solely serve the purpose of a product description and are not to be understood as guaranteed properties (zugesicherte Eigenschaft) in a legal sense.