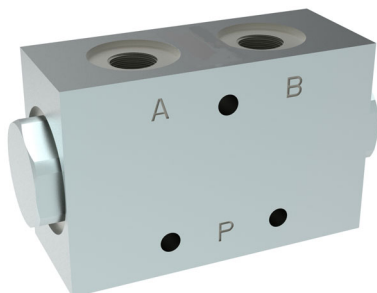


Flow divider with very high division accuracy

Series MTDA08HG1



- division accuracy up to 1,5% based on operating flow range
- standard-supply zinc-nickel coating
- robust, simple and reliable
- easy to service
- flows can be split or merged with accuracy (divide/combine functions).

1 Description

1.1 General

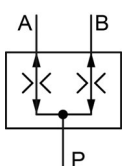
MTDA08HG1 is a flow divider with very high division accuracy and a large operating flow range. With this new valve, division accuracy is specified in relation to the supply flow rate and not, as is usual in the market, to the nominal flow rate.

They divide a flow into two usually equal parts (1:1). When flow passes through valve in the opposite direction, the two part-flows are combined into one single flow (added). The dividing and combining functions are largely independent of the pressures of the two divided flows and of the fluid viscosity.

1.2 Application examples

- Work access platforms
- Lifting platform
- Car transporter
- Hydraulic platform
- Hydraulic ramp
- Hydraulic door drive

2 Symbols



3 Technical data

General characteristics	Unit	Description, value
Maximum pressure	bar	315
Flow control range	l/min	16, 25, 32, 50
Division accuracy	%	1,5% at max. load difference $P_A:P_B = 100$ bar (but max. of 5% at 50% of the nominal flow rate and load difference $P_A:P_B = 200$ bar).
Mounting attitude		horizontal
Oil temperature range	°C	-20 ... +80
Viscosity range	mm ² /s	10 ... 250

Reference: 100-P-000125-EN-05

General characteristics	Unit	Description, value
Hydraulic fluid		Mineral oil to DIN 51524 ¹⁾
Max. admissible level of contamination of the hydraulic fluid		ISO 4406 code 20/18/15
Seals		(NBR) Nitrile Butadiene Rubber
Weight	kg	ca. 2,2
Port threads	A, B, P	G 3/8", DIN EN ISO 9974-1
Salt spray test to DIN EN ISO 9227		Corrosion resistance > 720 hours

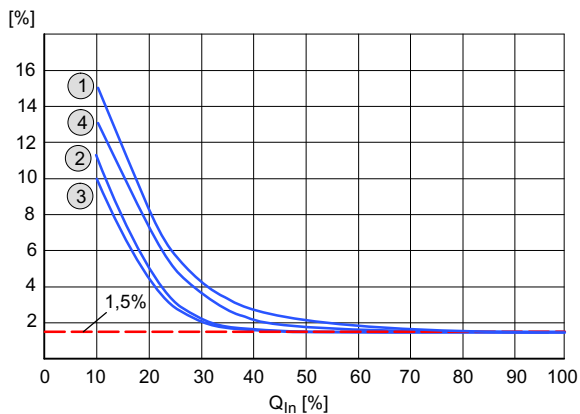
1) Other fluids on request.

4 Characteristic curves

Values refer to an viscosity of 35 mm²/s.

4.1 Division accuracy [%]

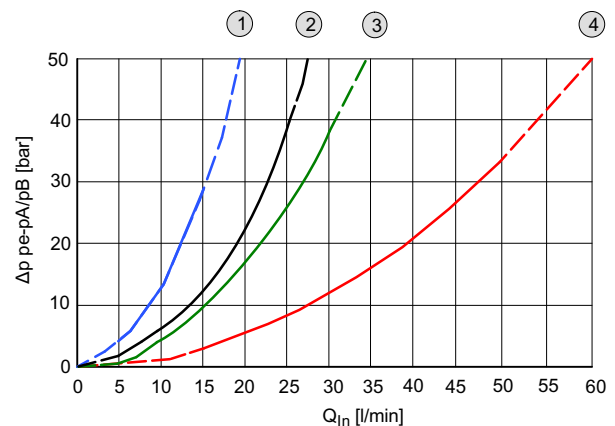
Division accuracy +/- 1,5% of the maximum flow rate, referred to the flow control range.



1	16 l/min
2	25 l/min
3	32 l/min
4	50 l/min

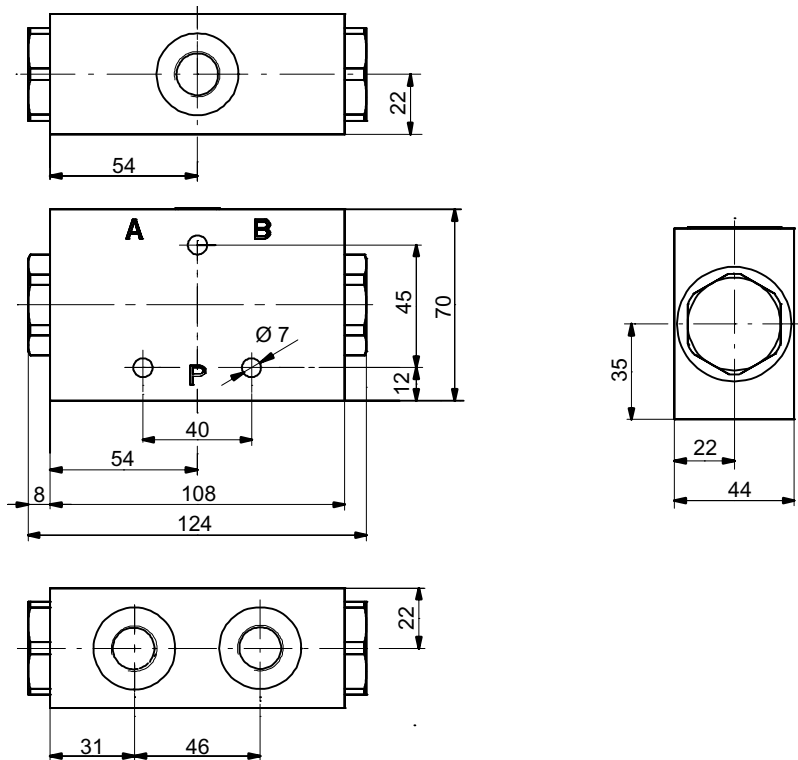
4.2 Pressure drop - flow rate characteristics

Pressure drop v. flow rate



1	Flow control range 5 - 16 l/min
2	Flow control range 7,5 - 25 l/min
3	Flow control range 10 - 32 l/min
4	Flow control range 16 - 50 l/min

5 Dimensions



6 Ordering code

M T D A 0 8 H G 1 - [] [] [] R

Flow divider

Bi-directional

Threaded ports

Nominal size

High precision

Revision

Flow control range

016 = 5-16 l/min

025 = 7,5-25 l/min

032 = 10-32 l/min

050 = 15-50 l/min

Port threads

A, B and P = G3/8"

7 Installation and mounting

To prevent the weight of the spool causing division inaccuracies, the valve must be installed so that the spool axis is horizontal. Do not use tapered-thread pipe fittings.

To prevent distortion of the body and the spool-binding that this might cause, it is advisable to place flat washers under the body when mounting it, or under the first body and between the individual bodies when gang-mounting several valves.

8 Mounting instructions

Expert and product knowledge is required for the layout of this valve type. Use exclusively for the intended purpose within the indicated values. The valve manufacturer must be consulted for use of the appliance outside the specifications. All applications must be verified by sufficient tests to ensure safety in the application. The ultimate responsibility for safety during installation and use resides with the end appliance manufacturer.

CAUTION:

Maintenance work may only be performed by expert personnel with mechanical knowledge. In principle, only the sealing parts may be replaced or checked. When replacing seals, ensure that they are well oiled or greased before mounting.