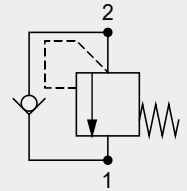


Pressure relief valve

EDB



Directly operated
With check/anti-cavitation function
Max. operating pressure 420 bar
Max. flow rate up to 60 l/min
Cavity EDB, T-10A or T-13A



090120_EDB
12.2025

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Characteristics

- Pressure relief valve with check function/anti-cavitation function
- Slip-in valve for cavity EDB or
- Screw-in valve T-10A or T-13A
- Available in piping casing or double piping casing
- Compact design
- Low leakage
- Maintenance-free

Technical data

Hydraulic characteristics

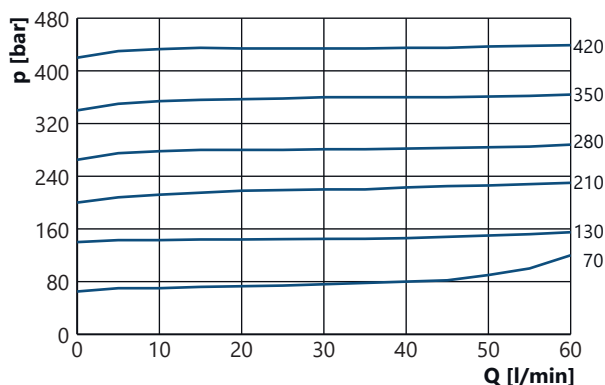
Max operating pressure:	EDB: 420 bar EDB38, DEDB, EDB10, EDB13: 350 bar
Max. flow rate:	EDB: max. 60 l/min EDB38, DEDB, EDB10, EDB13: max. 50 l/min
Pressure setting range:	See type code
Check/anti-cavitation valve opening pressure:	< 0.5 bar
Operating fluids:	Mineral oils according to DIN 51524, others on request
Viscosity range:	7.4 - 420 cSt
Filtration:	Oil purity according to ISO 4406 (1999) 18/16/13, filter with $\beta_{5(c)} > 200$
Hysteresis	10 %

Mechanical characteristics

Design:	EDB: Slip-in valve, EDB38: Slip-in valve in the piping casing, DEDB: Double valve in the piping casing, EDB10/EDB13: Screw-in valve T-10A/T-13A
Fluid temperature:	-30 °C to +80 °C
Ambient temperature:	-30 °C to +80 °C
Storage temperature:	-30 °C to +60 °C (non-condensing)
Installation position:	Any
Weight:	EDB: 0.015 kg, EDB38: 0.3 kg, DEDB: 1.15 kg, EDB10/13: 0.06 kg
Materials:	Valve parts: Steel Seals: NBR, optional Viton
Surface protection:	Galvanized steel

Characteristic curves

Pressure loss characteristic curve (p/Q) EDB from 2 to 1



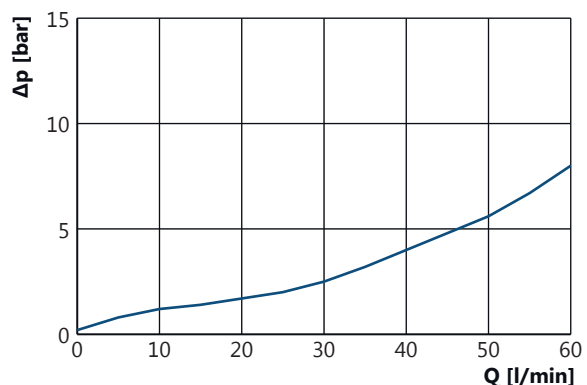
Measurement conditions

Oil: HLP 32, temperature: 40 °C (~46 cSt)
Setting occurs at Q = 10 l/min.

NOTE

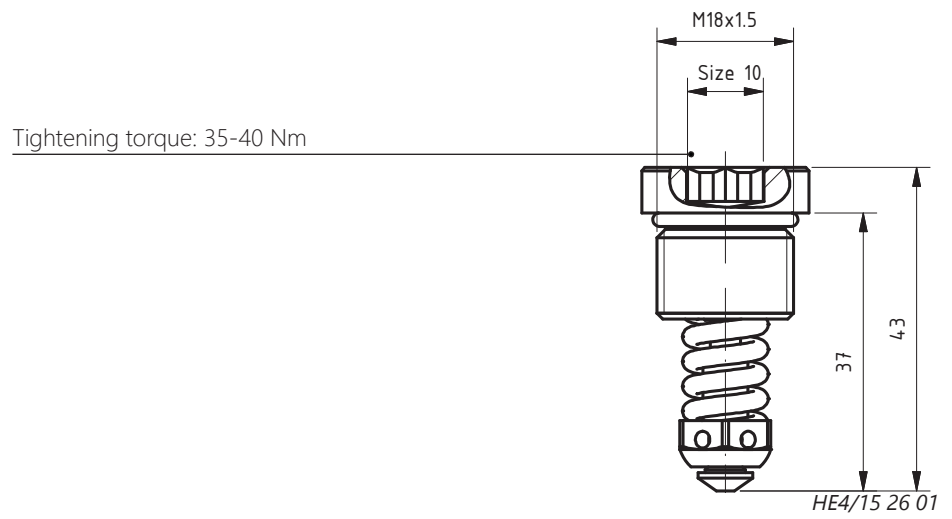
Different characteristic curves are possible in the event of block or cartridge installation.

Pressure loss characteristic curve ($\Delta p/Q$) check/anti-cavitation function from 1 to 2

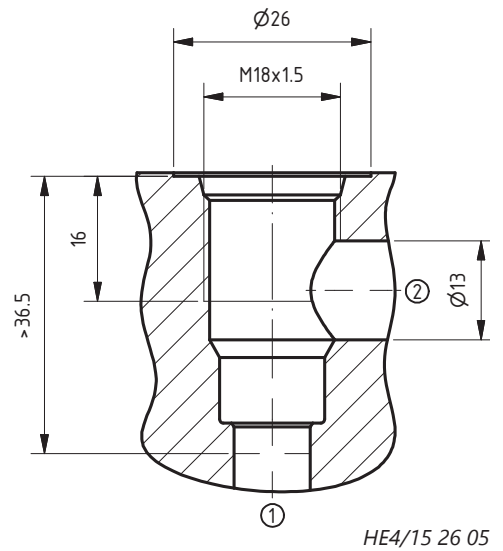


Dimensions

Slip-in valve, EDB



Cavity EDB

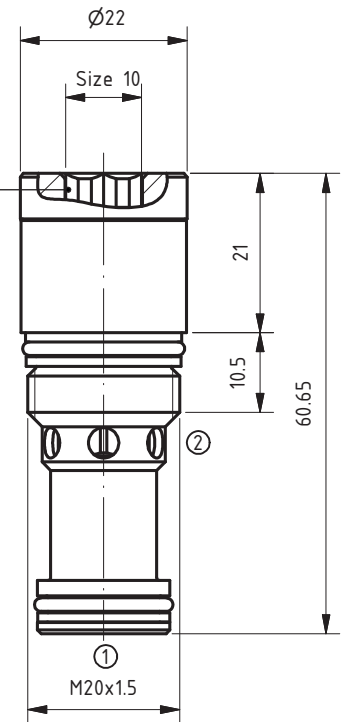


NOTE A detailed drawing of the cavity is provided in section 11, "**General information**" at www.weber-hydraulik.com.

Dimensions

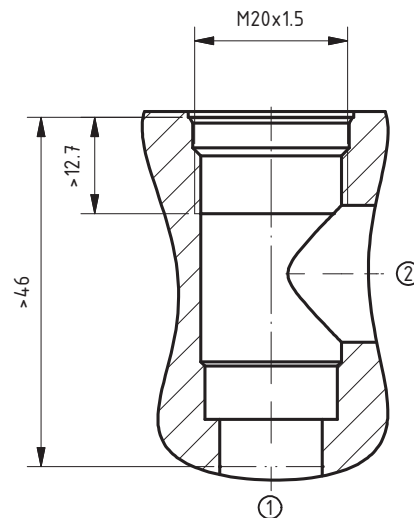
Screw-in valve
EDB10

Tightening torque: 35-40 Nm



HE4/15 27 10

Cavity T-10A



HE4/14 09 14

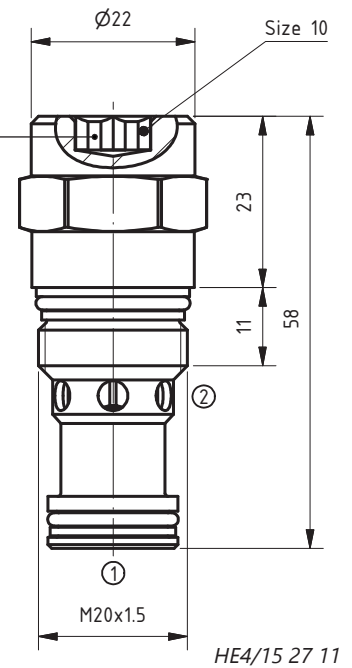
NOTE A detailed drawing of the cavity is provided in section 11, "General information" at www.weber-hydraulik.com.

NOTE Suitable casings and connection plates are available in section 10, "Connecting Plates and Manifolds" at www.weber-hydraulik.com.

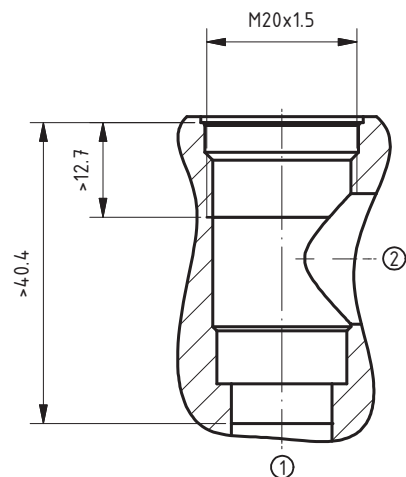
Dimensions

Screw-in valve
EDB13

Tightening torque: 35-40 Nm



Cavity T-13A

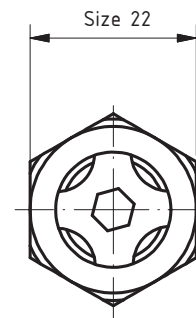
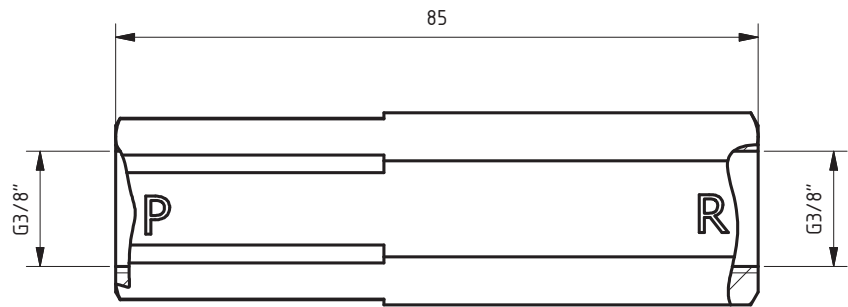
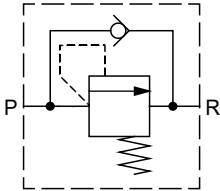


NOTE A detailed drawing of the cavity is provided in section 11, "General information" at www.weber-hydraulik.com.

NOTE Suitable casings and connection plates are available in section 10, "Connecting Plates and Manifolds" at www.weber-hydraulik.com.

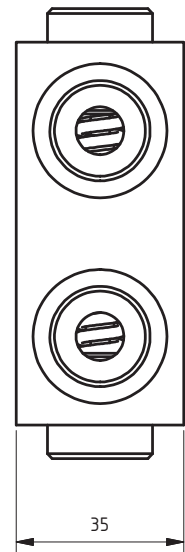
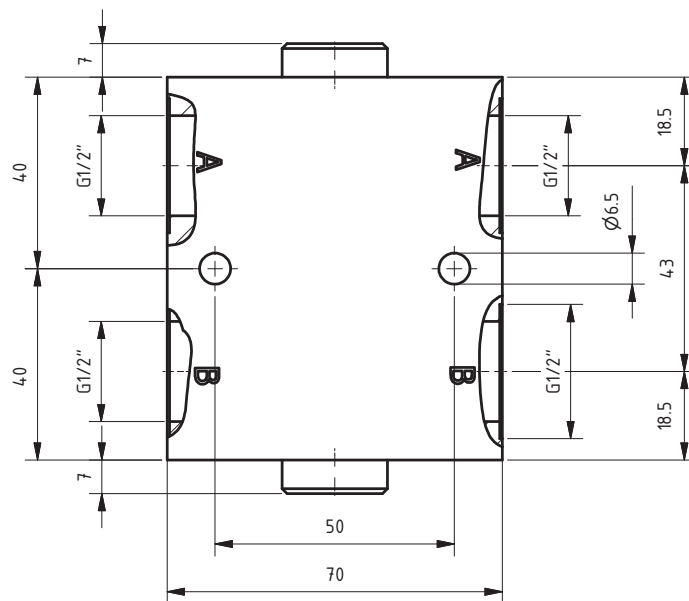
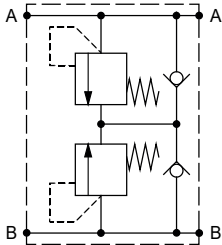
Dimensions

Slip-in valve in the piping casing EDB38



HM4/08 04 14

Double slip-in valve in the piping casing DEDB



HM3/15 37 06

Type code

	-		-	
Design		Pressure setting range*		Locking screw
EDB	Slip-in valve	20-70 bar	20-70	with locking screw, with RV*** spring
	Double slip-in valve in the piping casing (G 1/2")	71-130 bar	71-130	without locking screw, with RV spring F
		131-210 bar	131-210	without locking screw, without RV spring O
EDB10	Screw-in valve T-10A	211-280 bar	211-280	
		281-350 bar	281-350	
EDB13	Screw-in valve T-13A	351-420 bar**	351-420	

* also possible with fixed presetting. Please contact us for your required non-adjustable pressure setting range

** only possible for EDB

*** RV = check valve

NOTE The pressure setting range is set at Q = 10 l/min.

Accessories and further information

Accessories/ spare parts	Article:	Article number:
	Seal kit T-10A/T-13A (NBR)	405.0036
	Seal kit T-10A/T-13A (Viton)	405.0037

NOTE Suitable casings and connection plates are available in section 10, "Connecting Plates and Manifolds" at www.weber-hydraulik.com.

Operating manual Information regarding assembly, commissioning and maintenance is available in section 11, "General information" in the "General Operating Manual" category or on request.

Standard program