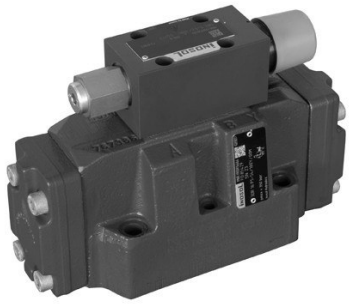
Pressure reducing valve, pilot operated

Type 3DR



H5844

Size 16
Component series 5X
Maximum operating pressure 250 bar
Maximum flow 220 l/min

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Features

- Valve for reducing (P to A) and limiting (A to T) a system pressure
- For subplate mounting
- Porting pattern to ISO 4401-07-07-0-05
- Subplates to data sheet RE 45056 (separate order)
- 4 pressure ratings
- 4 adjustment elements, optional:
  - Rotary knob
  - Sleeve with hexagon and protective cap
  - Lockable rotary knob with scale
  - Rotary knob with scale

Ordering code

3DR	16	P	–5X/	Y/00		*

3-way pressure reducing valve

Size 16 = 16

Subplate mounting = P

Adjustment elements

Rotary knob = 4
Sleeve with hexagon and protective cap = 5
Lockable rotary knob with scale = 6 [1)]
Rotary knob with scale = 7

Component series 50 to 59 = 5X
(50 to 59: unchanged installation and connection dimensions)

Pressure setting up to 50 bar = 50
Pressure setting up to 100 bar = 100
Pressure setting up to 200 bar = 200
Pressure setting up to 250 bar = 250

Further details in clear text

Seal material

M = NBR seals
V = FKM seals
(other seals on request)

⚠ **Attention!**
Observe compatibility of seals with hydraulic fluid used!

00 = Without stroke limiter

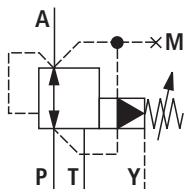
Pilot oil supply

Y = Internal pilot oil supply, external pilot oil drain

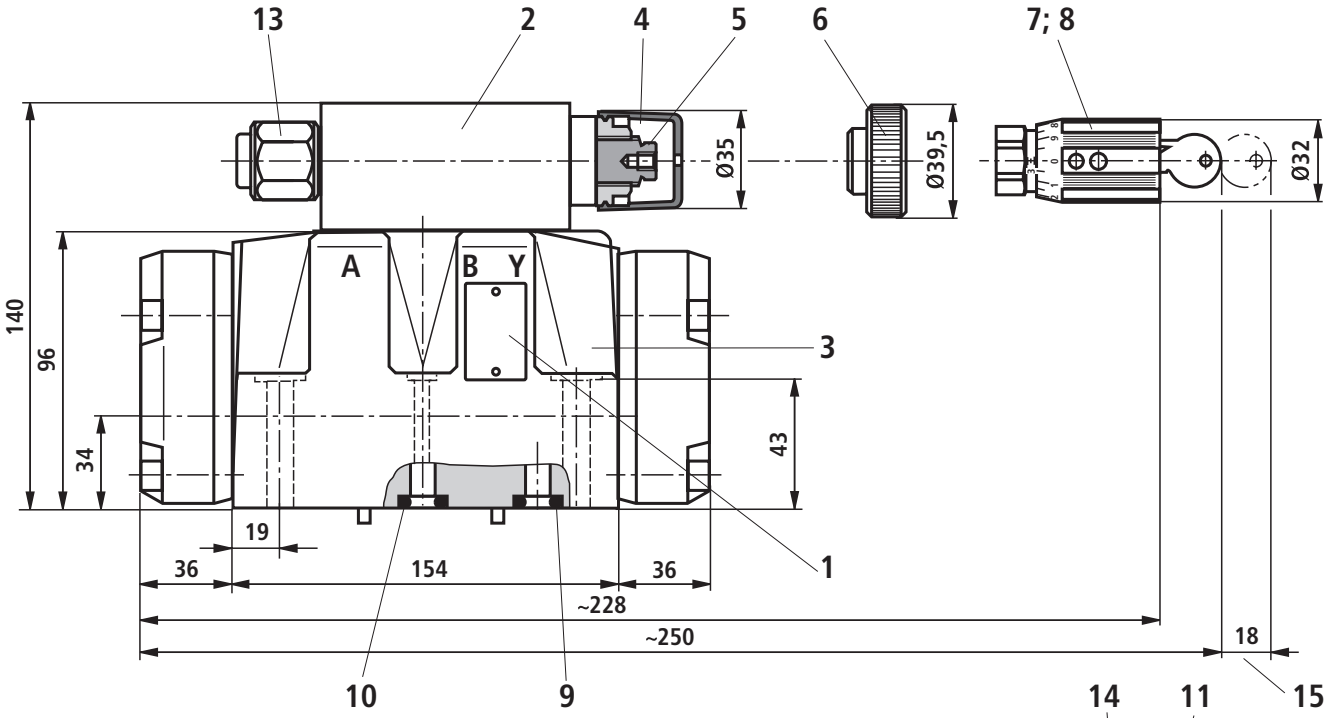
[1)] H-key, Material no. **R900008158,** is included in the scope of supply

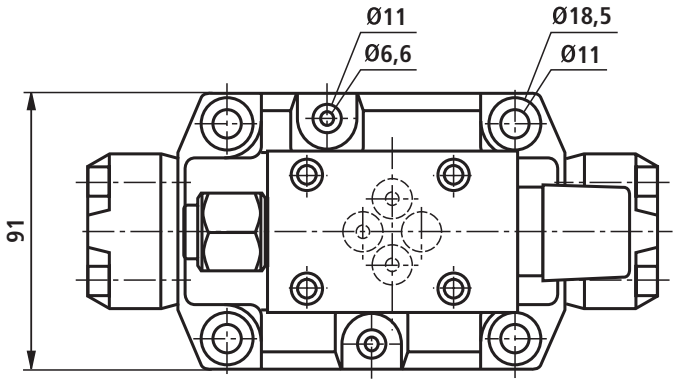
Standard types and components can be found in the EPS (standard price list).

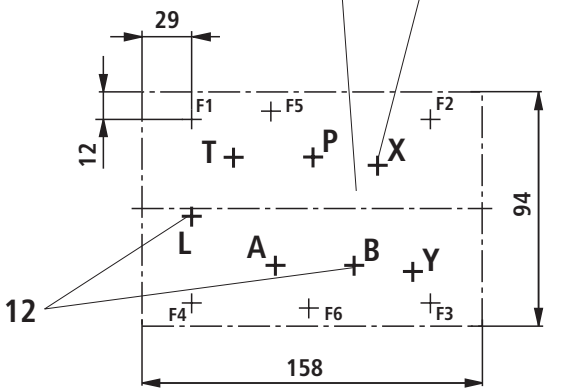
Symbol

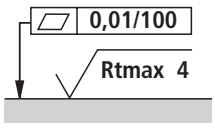


Unit dimensions (dimensions in mm)









Required surface quality
of valve mounting face

Unit dimensions

1 Nameplate
2 Pilot control valve
3 Main valve
4 Adjustment element “5”
5 Hexagon 10 A/F
6 Adjustment element “4”
7 Adjustment element “6”
8 Adjustment element “7”
9 Seal rings for ports X, Y and L
10 Seal rings for ports A, B, P and T
11 Port X must be plugged in the subplate
12 Ports B and L must be plugged in the subplate
13 Pressure gauge port
14 Valve mounting face – porting pattern to ISO 4401-07-07-0-05
15 Space required to remove key

Suplates to data sheet RE 45056
(separate order)
G172/01 (G3/4)
G174/01 (G1)

Valve mounting screws (separate order)

- **4 hexagon socket head cap screws ISO 4762 - M10 x 60 - 10.9-flZn-240h-L**
  Friction coefficient μ_{total} = 0.09 to 0.14,
  tightening torque $\boldsymbol{M}_T$ = 73 Nm ± 10%,
  Material no. **R913000116**
- **2 hexagon socket head cap screws ISO 4762 - M6 x 60 - 10.9-flZn-240h-L**
  Friction coefficient μ_{total} = 0.09 to 0.14,
  tightening torque $\boldsymbol{M}_T$ = 15.5 Nm ± 10%,
  Material no. **R913000115**

☞ **Note!**

The specified tightening torques are recommended values when screws of the given friction coefficients and a torque wrench are used (tolerance ±10%).