

# Intermediate plate type NZP

hole pattern conforming NG 6 (DIN 24 340-A6)

## 1. General information

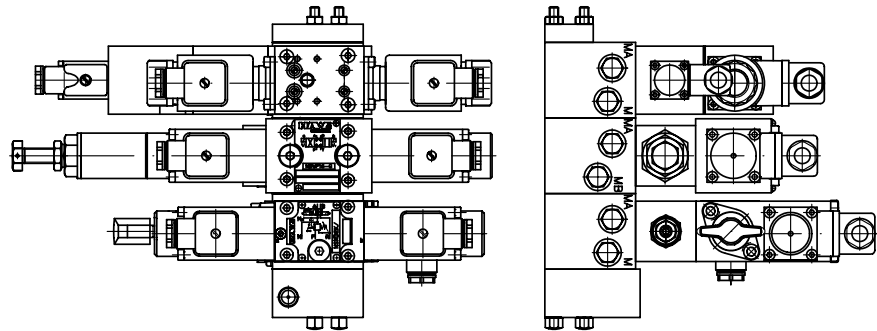
These intermediate plates widen the functionality of directional valves featuring a connection hole pattern conforming DIN 24 340-A6.

Order example and corresponding hydraulic circuit:

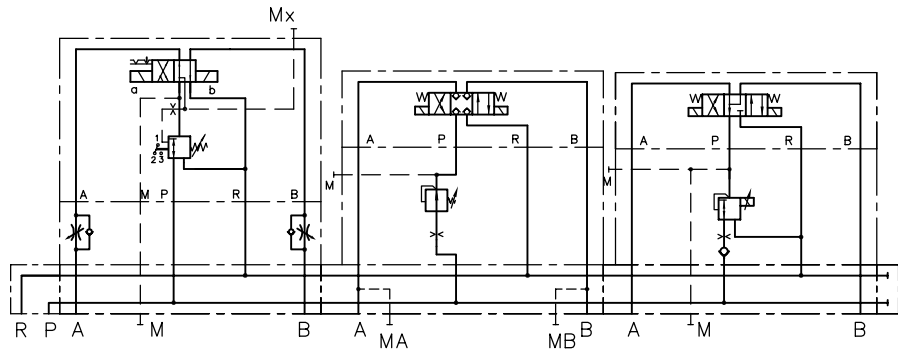
- BA 2 A 5 - NSMD 2K/M / GRK / NZP 16 Q 33 / 0
- NBVP 16 G / NZP 16 CZ5 / 80 / B 0,8 / 3
- NSWP 2 D / NZP 16 PDM 2-41 / G 24 / 0
- 1 - G 24

See also

- Directional seated valves type NG etc. D 7300 N
- Directional seated valves type NBVP D 7765 N
- Directional spool valves type NSWP D 7451 N
- Directional valve banks type BA D 7788



Symbols



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## 2. Intermediate plates

### 2.1 Intermediate plates with throttle and restrictor check valve

$Q_{max} = 50 \text{ lpm}$ ,  $p_{max} = 500 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!  
High-tensile screws (min. rating 10.9) must be used at pressure higher than 400 bar.

Order example:

**NZP 16 Q 2 2**

Basic type

Throttle and restrictor check valve at B  
Throttle and restrictor check valve at A

**NZP 16 Q** Throttle and/or restrictor check valve in A and/or B

- Throttles and restrictor check valves may be combined
- Valves type CQ, CQR, and CQV acc. to D 7713 are utilized.
- Adjustability during operation (zero leakage due to double spindle sealing).

Coding	Note
0	Without, free flow (throttle may be retrofitted)
1	Throttle (type CQ2)
2	Restrictor check valve (P → A(B) free) - return flow throttle (type CQV2)
3	Restrictor check valve (A(B) → T free) - inflow throttle (type CQR2)
4	Throttle with fine control range (type CQ22)
5	Restrictor check valve (P → A(B)) - Out-flow throttle with fine control range (type CQV22)
6	Restrictor check valve (A(B) → T free) - In-flow throttle with fine control range (type CQR22)

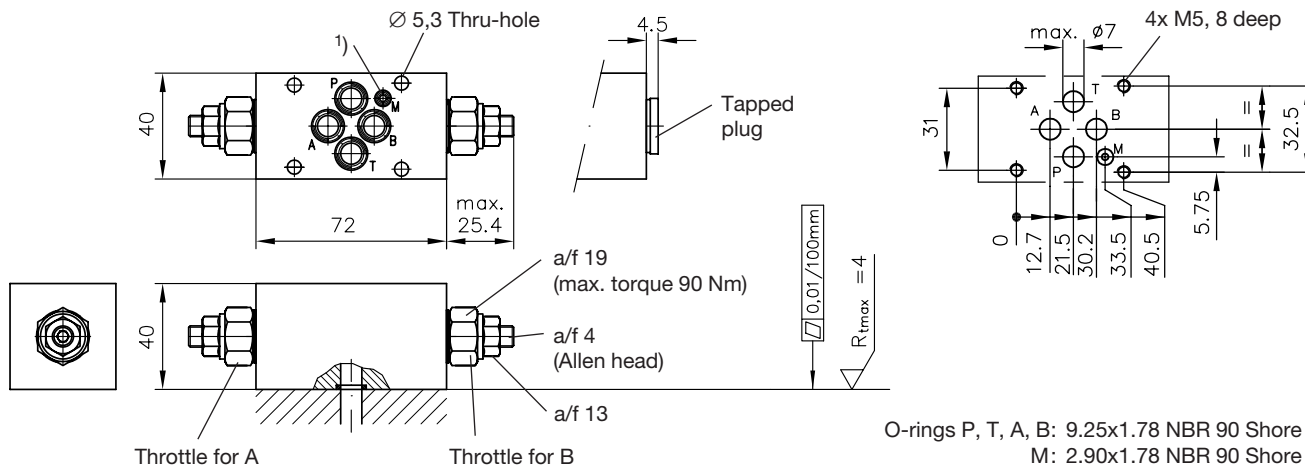
#### Unit dimensions

All dimensions in mm, subject to change without notice!

#### Coding 1, 2, 3

#### Coding 0

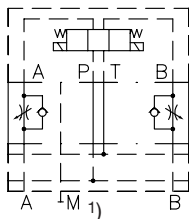
#### Hole pattern of the manifold (top view)



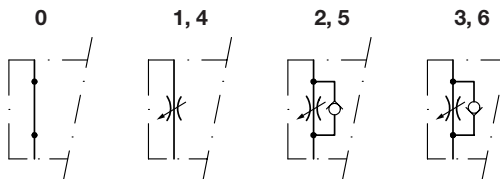
#### Symbols

Example: NZP 16 Q22

- 1) Port M required only when a clamping module type NSMD acc. to D 7787 is mounted on top.

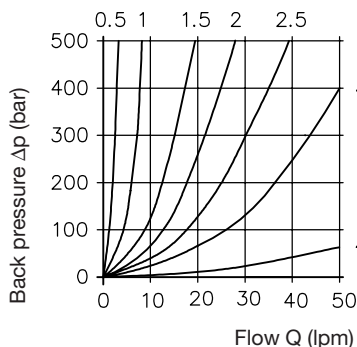


#### Coding

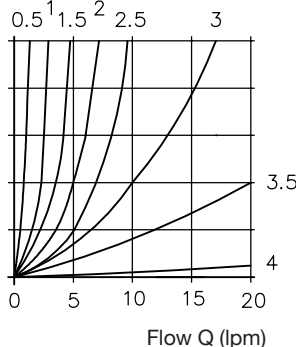


Throttled flow direction:  
Guideline for change per rev.,  
counted from blocked state

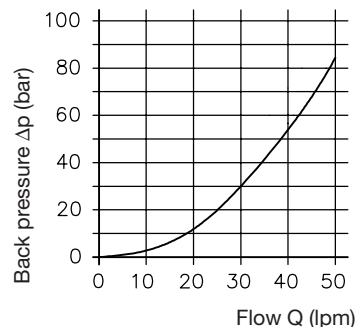
#### Coding 1, 2, 3



#### Coding 4, 5, 6



#### Direction of free flow, coding 2 and 3



Oil viscosity during the measurement approx. 60 mm<sup>2</sup>/s

## 2.2 Intermediate plates with pressure reducing valve

### 2.2.1 Intermediate plates with pressure reducing valve type CDK

$Q_{max} = 22 \text{ lpm}$ ,  $p_{max} = 500 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 CZ 08 R / 400 / B 0,8 R**  
**NZP 16 CZS 1 / 220 / F 80 R**

Basic type

<b>NZP 16 CZ</b> <b>NZP 26 CZ</b>	Pressure reducing valve in P (orientation of the pressure reducing valve is different, see also dimensional drawings)
<b>NZP 16 CZS</b>	Pressure reducing valve in P, additional pressure limiting valve for the consumer side
<b>NZP 16 ACZ</b> <b>NZP 16 BCZ</b>	Pressure reducing valve at port A or B

- Valve type CDK acc. to D 7745 is utilized

Coding of pressure reducing valve with adjustment

No coding = Tool adjustable,

**R** = Manually adjustable, **H** = With lock

(for additional versions, see D 7745)

Coding	Pressure range (bar)	Coding	Pressure range (bar)	$Q_{max}$ (lpm)
<b>08</b>	50 ... 450 <sup>1)</sup>	<b>081</b>	50 ... 500 <sup>1)</sup>	12
<b>1</b>	30 ... 300	<b>11</b>	30 ... 380	
<b>2</b>	20 ... 200	<b>21</b>	20 ... 250	
<b>5</b>	15 ... 130	<b>51</b>	15 ... 165	
<b>22</b>	12 ... 200	<b>221</b>	12 ... 250	6
<b>25</b>	8 ... 130	<b>251</b>	8 ... 165	
<b>52</b>	50 ... 200	<b>521</b>	50 ... 250	22
<b>55</b>	30 ... 130	<b>551</b>	30 ... 165	
<b>X</b>	Without pressure reducing valve (may be retrofitted)			

<sup>1)</sup> High-tensile screws (min. rating 10.9) must be used at pressure higher than 400 bar.

Pressure setting in bar

Additional elements in P

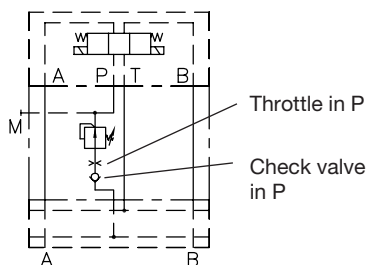
Coding	Note
-	Without
<b>R</b>	Check valve (type ER13 acc. to D 7325)
<b>B 0,4</b> <b>B 0,5</b> <b>B 0,6</b> <b>B 0,7</b> <b>B 0,8</b> <b>B 0,9</b> <b>B 1,0</b> <b>B 1,1</b> <b>B 1,2</b> <b>B 1,4</b> <b>B 1,5</b> <b>B 1,8</b> <b>B 2,0</b> <b>B 2,4</b> <b>B 2,5</b> <b>B 3,0</b> <b>B 3,5</b> <b>B 4,0</b>	Orifice, hole diameter in mm (orifice ISO 4026 M8x8-DU-...)

Pressure range and set pressure of the pressure limiting valve  
 No coding = Tool adjustable,  
**R** = Manually adjustable

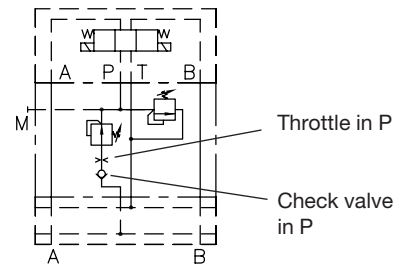
Coding	Pressure range (bar)
<b>B</b>	10 ... 500
<b>C</b>	10 ... 315
<b>E</b>	10 ... 160
<b>F</b>	5 ... 80

Symbols

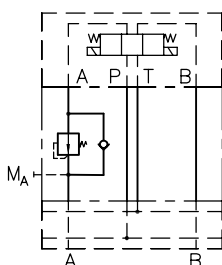
Type **NZP 16 CZ**  
**NZP 26 CZ**



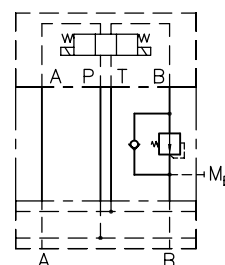
Type **NZP 16 CZS**



Type **NZP 16 ACZ**

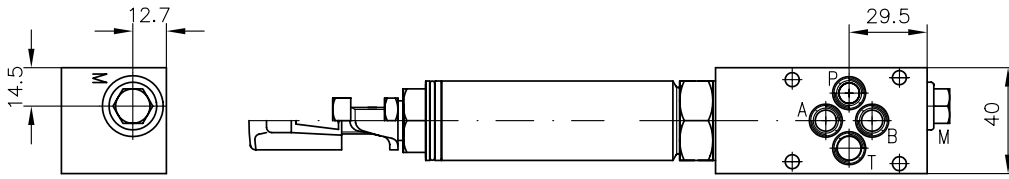


Type **NZP 16 BCZ**

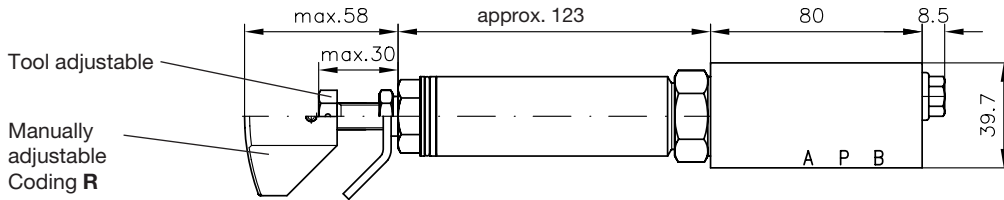


**Unit dimensions** All dimensions in mm, subject to change without notice!

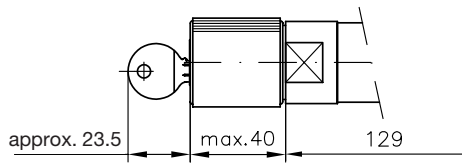
**Type NZP 16 CZ**



For missing dimensions and hole pattern, see sect. 2.1

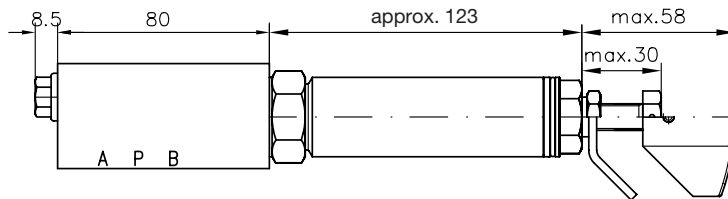


With lock  
Coding H

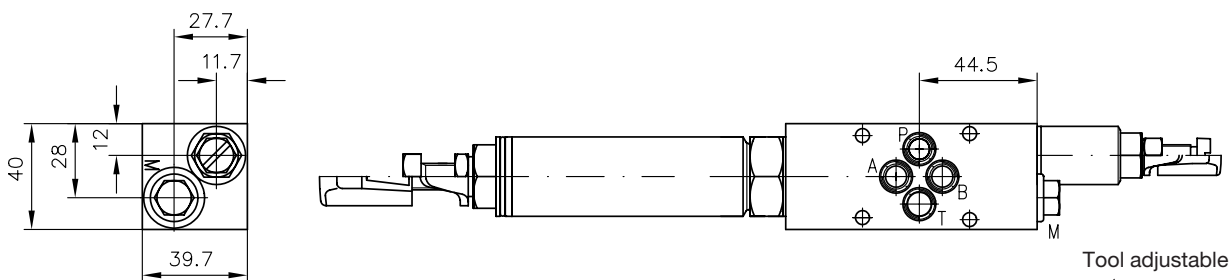


M = G 1/4 (BSPP)  
O-ring: 9.25x1.78 NBR 90 Shore

**Type NZP 26 CZ**

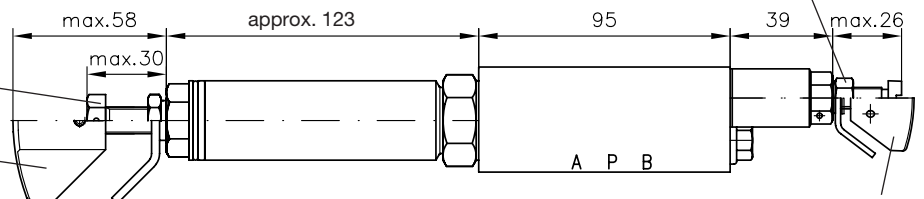


**Type NZP 16 CZS**

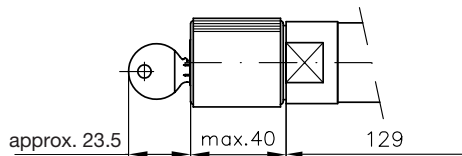


Tool adjustable

Manually adjustable  
Coding R

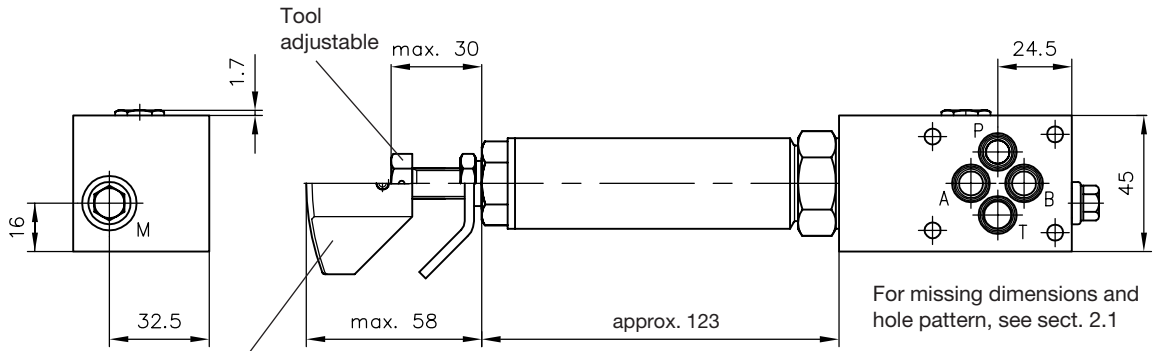


With lock  
Coding H

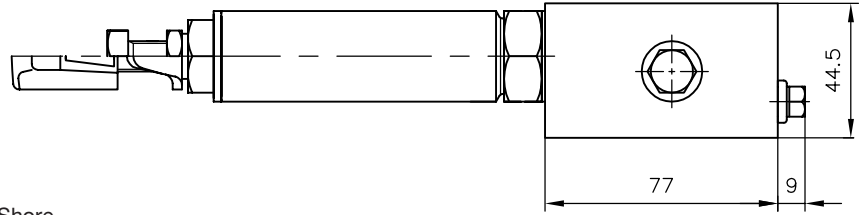


For missing dimensions and hole pattern, see sect. 2.1

**Type NZP 16 ACZ**

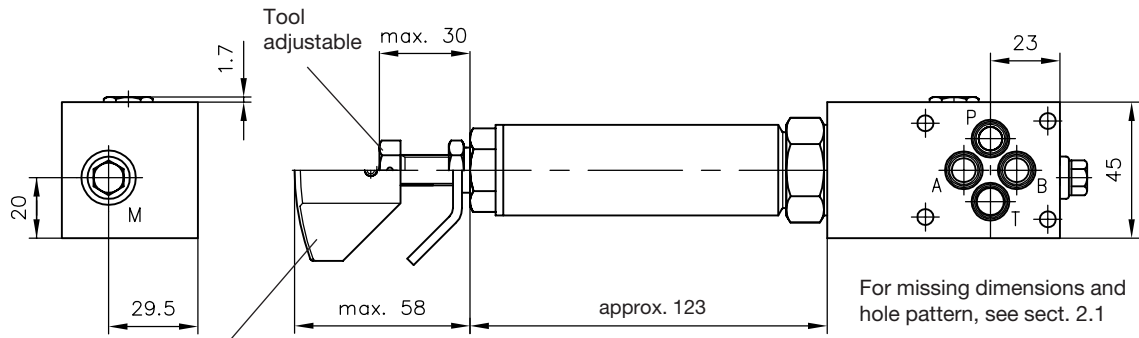


Manually adjustable  
Coding **R**  
(coding **H** see page 4)

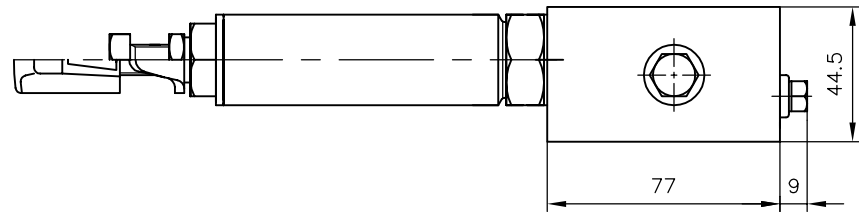


M = G 1/8 (BSPP)  
O-ring: 9.25x1.78 NBR 90 Shore

**Type NZP 16 BCZ**



Manually adjustable  
Coding **R**  
(coding **H** see page 4)



**2.2.2 Intermediate plates with pressure reducing valve type DK with a tracked pressure switch**

$Q_{max} = 22 \text{ lpm}$ ,  $p_{max} = 500 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 ADK 08 R / 400 / B 0,8 R - M**

Basic type

<b>NZP 16 ADK</b>	Pressure reducing valve at port A
-------------------	-----------------------------------

- Valve type DK acc. to D 7941 is utilized

Pressure setting in bar

Version with plug

<b>G</b>	With plug	Plug conf. EN 175 301-803 A
<b>X</b>	Without plug	
<b>L</b>	With plug incl. LED	With plug incl. LED and cable length 5 or 10 m
<b>L 5 K</b> <b>L 10 K</b>		
<b>M</b>	With plug M12x1 (conf. DESINA) incl. LED	

Coding of pressure reducing valve with adjustment

No coding = Tool adjustable,

**R** = Manually adjustable, **H** = With lock

(for additional versions, see D 7941)

Additional elements in P

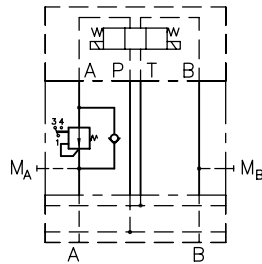
Coding	Pressure range (bar)	Coding	Pressure range (bar)	$Q_{max}$ (l/min)
<b>08</b>	50 ... 450 <sup>1)</sup>	<b>081</b>	50 ... 500 <sup>1)</sup>	12
<b>1</b>	30 ... 300	<b>11</b>	30 ... 380	
<b>2</b>	20 ... 200	<b>21</b>	20 ... 250	
<b>5</b>	15 ... 130	<b>51</b>	15 ... 165	6
<b>22</b>	12 ... 130	<b>221</b>	12 ... 250	
<b>25</b>	8 ... 200	<b>251</b>	8 ... 165	
<b>52</b>	50 ... 200	<b>521</b>	50 ... 250	22
<b>55</b>	30 ... 130	<b>551</b>	30 ... 165	
<b>X</b>	Without pressure reducing valve (may be retrofitted)			

Coding	Note
-	Without
<b>R</b>	Check valve (type ER13 acc. to D 7325)
<b>B ...</b>	Orifice, hole diameter in mm (orifice ISO 4026 M8x8-DU-...) For available diameter, see sect. 2.2.1

<sup>1)</sup> High-tensile screws (min. rating 10.9) must be used at pressure higher than 400 bar.

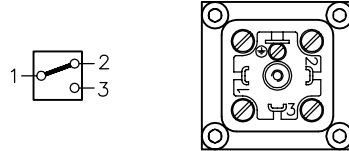
**Symbol**

**Type NZP 16 ADK**

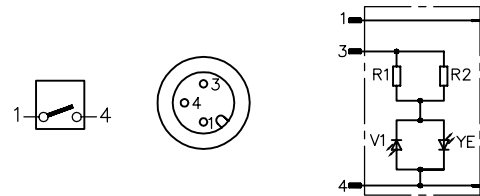


Electrical data  
pressure switch

Type XCG3 Co. SAIA-Burgess  
 Mech. service life 10 x 10<sup>6</sup>  
 Electr. service life 12V 4 A = 0.35 x 10<sup>6</sup>  
 (approx. cycles)  
 Voltage 12V DC, 5 A  
 24V DC, 2 A  
 To ensure save function the min. current specifications must be maintained;  
 Protection class IP 65 (IEC 60 529)  
 (properly installed plug)  
 Plug EN 175 301-803 A  
 Idle position 1-2  
 Working position 1-3

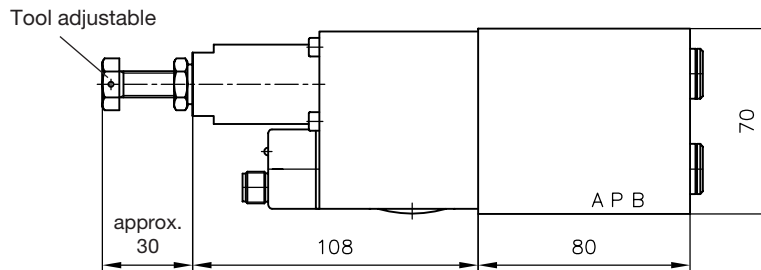
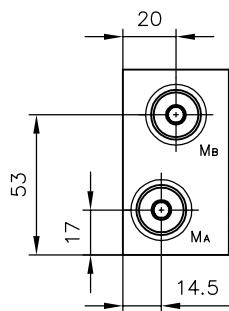
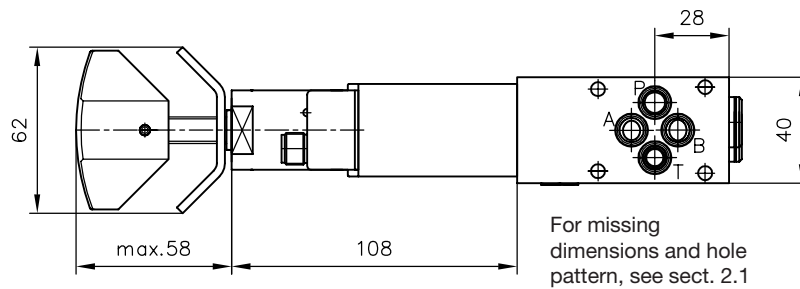


Plug M12x1

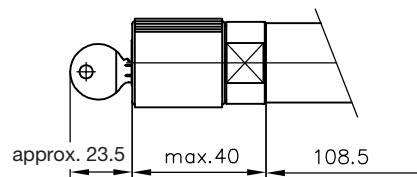


**Type NZP 16 ADK**

Manually adjustable  
Coding **R**



With lock  
Coding **H**



M<sub>A</sub>, M<sub>B</sub> = G 1/4 (BSPP)  
 O-ring: 9.25x1.78 NBR 90 Shore

**2.2.3 Intermediate plates with pressure reducing valve type CLK**

$Q_{max} = 22 \text{ lpm}$ ,  $p_{max} = 400 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 LZ 1 R / 300 / B 0,8 R**

Basic type

<b>NZP 16 LZ</b>	Pressure reducing valve in P with safety valve function
------------------	---

- Valve type CLK acc. to D 7745 L is utilized

Pressure setting in bar

Additional elements in P

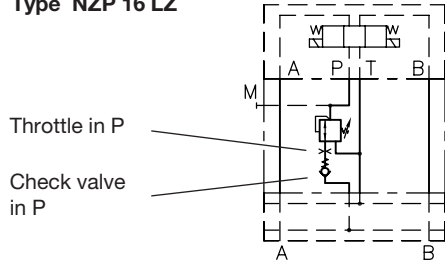
Coding	Note
-	Without
<b>R</b>	Check valve (type ER13 acc. to D 7325)
<b>B ...</b>	Orifice, hole diameter in mm (orifice ISO 4026 M8x8-DU-...) For available diameter, see sect. 2.2.1

Coding of pressure reducing valve with adjustment  
 No coding = Tool adjustable, **R** = Manually adjustable  
 (for additional versions, see D 7745 L)

Coding	Pressure range (bar)	Coding	Pressure range (bar)	$Q_{max}$ (lpm)
<b>1</b>	30 ... 300	<b>11</b>	30 ... 380	12
<b>2</b>	20 ... 200	<b>21</b>	20 ... 250	
<b>5</b>	15 ... 130	<b>51</b>	15 ... 165	
<b>22</b>	12 ... 200	<b>221</b>	12 ... 250	6
<b>25</b>	8 ... 130	<b>251</b>	8 ... 165	
<b>52</b>	50 ... 200	<b>521</b>	50 ... 250	22
<b>55</b>	30 ... 130	<b>551</b>	30 ... 165	
<b>X</b>	Without pressure reducing valve (may be retrofitted)			

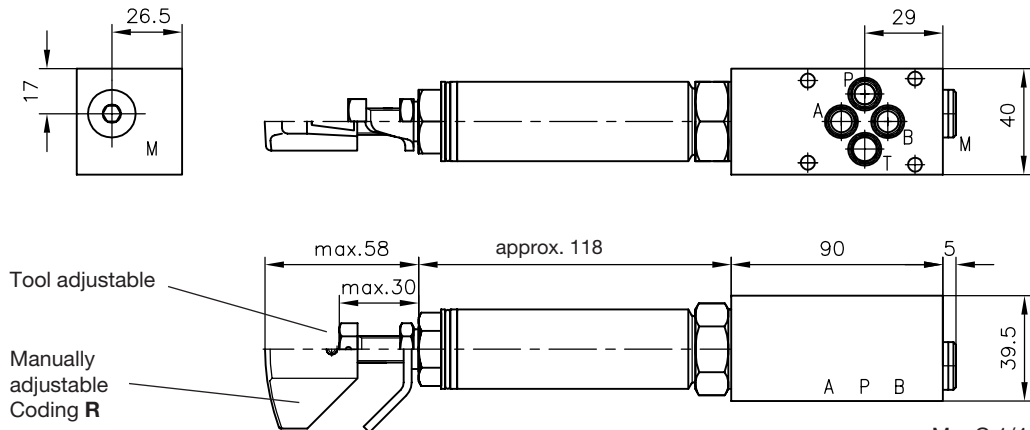
**Symbol**

**Type NZP 16 LZ**



**Unit dimensions** All dimensions in mm, subject to change without notice!

**Type NZP 16 LZ**



For missing dimensions and hole pattern, see sect. 2.1

M = G 1/4 (BSPP)  
 O-ring: 9.25x1.78 NBR 90 Shore



**2.2.4 Intermediate plates with pressing reducing valve type CLK and by-pass valve**

$Q_{max} = 22 \text{ lpm}$ ,  $p_{max} = 400 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 LZY 1 R / 280 / B 0,8 R - G 24**

Basic type

**NZP 16 LZY** Pressure reducing valve in P

- Pressure reducing valve type CLK acc. to D 7745 L and directional seated valve like type BVP 1 Z acc. to D 7765 are utilized

Coding of pressure reducing valve with adjustment  
No coding = Tool adjustable, **R** = Manually adjustable (for additional versions, see D 7745 L)

Coding	Pressure range (bar)	Coding	Pressure range (bar)	$Q_{max}$ (lpm)
<b>1</b>	30 ... 300	<b>11</b>	30 ... 380	12
<b>2</b>	20 ... 200	<b>21</b>	20 ... 250	
<b>5</b>	15 ... 130	<b>51</b>	15 ... 165	6
<b>22</b>	12 ... 130	<b>221</b>	12 ... 250	
<b>25</b>	8 ... 200	<b>251</b>	8 ... 165	
<b>52</b>	50 ... 200	<b>521</b>	50 ... 250	22
<b>55</b>	30 ... 130	<b>551</b>	30 ... 165	
<b>X</b>	Without pressure reducing valve (may be retrofitted)			

Pressure setting in bar

Additional elements in P

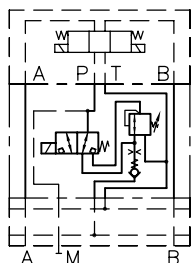
Coding	Note
-	Without
<b>R</b>	Check valve (type ER13 acc. to D 7325)
<b>B ...</b>	Orifice, hole diameter in mm (orifice ISO 4026 M8x8-DU-...) For available diameter, see sect. 2.2.1

Solenoid voltage (nominal power G, WG, L, X = 30 W; GM, WGM, LM, XM = 27 W)

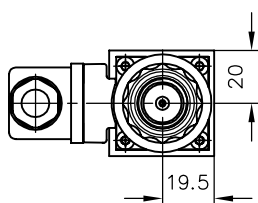
Pressure $p_{max}$ (bar)	Coding			Nom. voltage
	With plug	With plug incl. LED	Without plug	
400	<b>G 12</b>	<b>L 12</b>	<b>X 12</b>	$U_N = 12V \text{ DC}$
	<b>G 24</b>	<b>L 24</b>	<b>X 24</b>	$U_N = 24V \text{ DC}$
	<b>WG 110</b> <sup>1)</sup>	---	<b>X 98</b>	$U_N = 110V \text{ AC}, 50/60\text{Hz} (98V \text{ DC})$
	<b>WG 230</b> <sup>1)</sup>	---	<b>X 205</b>	$U_N = 230V \text{ AC}, 50/60\text{Hz} (205V \text{ DC})$
250	<b>GM 12</b>	<b>LM 24</b>	<b>XM 12</b>	$U_N = 12V \text{ DC}$
	<b>GM 24</b>	<b>LM 24</b>	<b>XM 24</b>	$U_N = 24V \text{ DC}$
	<b>WGM 110</b> <sup>1)</sup>	---	<b>XM 98</b>	$U_N = 110V \text{ AC}, 50/60\text{Hz} (98V \text{ DC})$
	<b>WGM 230</b> <sup>1)</sup>	---	<b>XM 205</b>	$U_N = 230V \text{ AC}, 50/60\text{Hz} (205V \text{ DC})$
250	<b>M 24/8W</b>	---	---	$U_N = 24V \text{ DC}, 8 \text{ Watt}$

Symbol

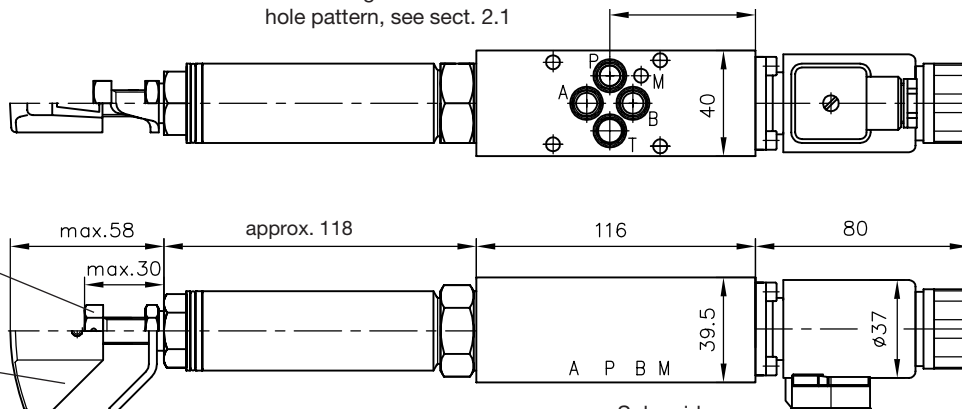
Type NZP 16 LZY



<sup>1)</sup> DC-solenoid (98V DC, 205V DC) with bridge rectifier in the plug



For missing dimensions and hole pattern, see sect. 2.1



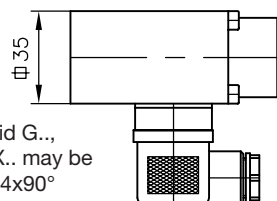
Tool adjustable

Manually adjustable  
Coding **R**

Solenoid GM..., WGM..., XM... may can be rotated as desired

O-rings P, T, A, B: 9.25x1.78 NBR 90 Shore  
M: 2.90x1.78 NBR 90 Shore

Solenoid G..., WG..., X... may be off-set 4x90°



**2.2.5 Intermediate plates with pressure reducing valve type ADM**

$Q_{max} = 25 \text{ lpm}$ ,  $p_{max P} = 315 \text{ bar}$ ,  $p_{max A, B} = 250 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 ADM 2 AR / ... / B 0,8 R S**

Basic type

<b>NZP 16 ADM 2</b>	Pressure reducing valve in P (internal components are from type ADM 2.. acc. to D 7120)
---------------------	---

Pressure range

No coding = Tool adjustable, **R** = Manually adjustable, **H** = With lock, **V** = Turn knob

Coding	Pressure range (bar)
<b>A</b>	160 ... 250
<b>C</b>	45 ... 160
<b>D</b>	30 ... 120
<b>F</b>	6 <sup>1)</sup> ... 55

Pressure setting in bar

Additional element in T

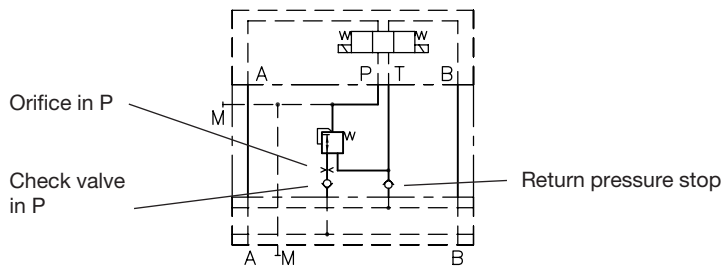
Coding	Note
-	Without
<b>S</b>	Return pressure stop
<b>S1</b>	Return pressure stop, open-up pressure approx. 1 bar

Additional elements in P

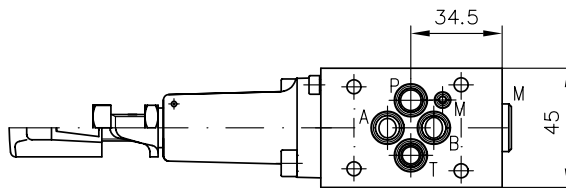
Coding	Note
-	Without
<b>R</b>	Check valve (type ER13 acc. to D 7325)
<b>B...</b>	Orifice, hole diameter in mm (orifice ISO 4026 M8x8-DU-...). For available diameter, see sect. 2.2.1

1) Pressure is only adjustable up to a flow of 10 lpm

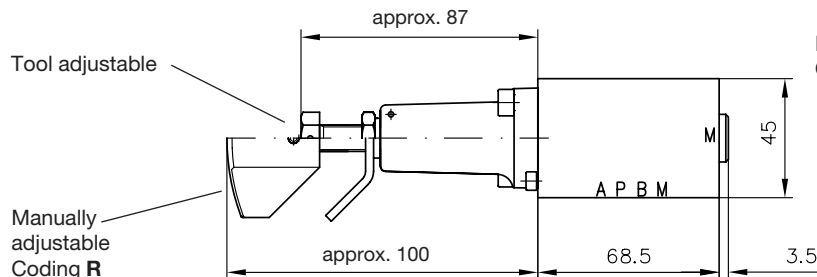
**Symbol**



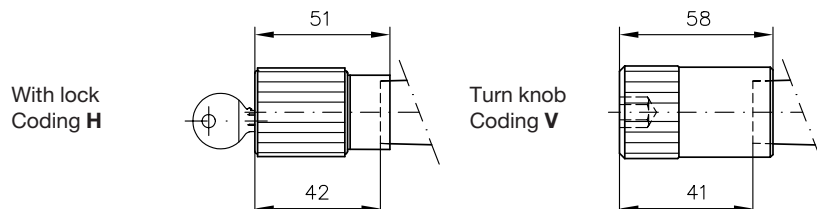
**Unit dimensions** All dimensions in mm, subject to change without notice!



For missing dimensions and hole pattern, see sect. 2.1



M = G 1/4 (BSPP)  
 O-rings P, T, A, B: 9.25x1.78 NBR 90 Shore  
 M: 2.90x1.78 NBR 90 Shore



**2.2.6 Intermediate plate with prop. pressure reducing valve type PDM**

$Q_{max} = 25 \text{ lpm}$ ,  $p_{max} = 450 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 PDM 2 - 41 / G 12 / B 0,8 R S**

Basic type

<b>NZP 16 PDM 2</b>	Prop. pressure reducing valve in P (internal components are from type PDM 2.. acc. to D 7584/1)
---------------------	---

Additional element in T

Coding	Note
-	Without
<b>S</b>	Return pressure stop

Pressure range

Coding	Pressure range (bar)	Coding	Pressure range (bar)
<b>-41</b>	5 ... 45	<b>-31</b>	5 ... 110
<b>-42</b>	5 ... 70	<b>-32</b>	5 ... 180
<b>-43</b>	5 ... 110	<b>-33</b>	6 ... 280
<b>-44</b>	5 ... 180	<b>-34</b>	7 ... 350
		<b>-35</b>	10 ... 450 <sup>1)</sup>

Additional elements in P

Coding	Note
-	Without
<b>R</b>	Check valve (type ER13 acc. to D 7325)
<b>B...</b>	Orifice, hole diameter in mm (orifice ISO 4026 M8x8-DU-...). For available diameter, see sect. 2.2.1

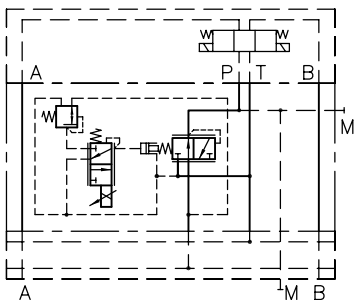
1) High-tensile screws (min. rating 10.9) must be used at pressure higher than 400 bar.

Solenoid voltage of the prop. solenoid (nominal power  $P_N = 24 \text{ W}$ )

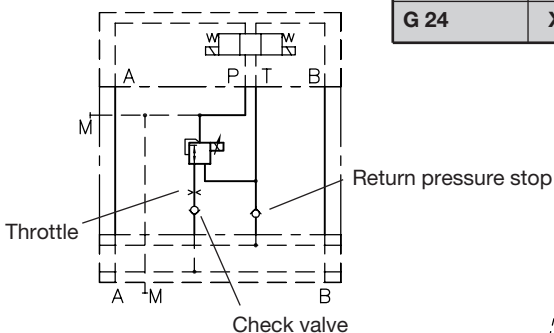
With plug	Without plug	Nom. voltage
<b>G 12</b>	<b>X 12</b>	12V DC
<b>G 24</b>	<b>X 24</b>	24V DC

**Symbols**

Detailed

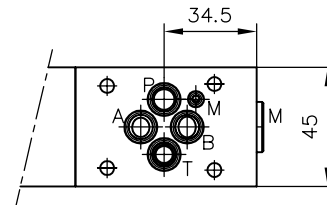


Simplified



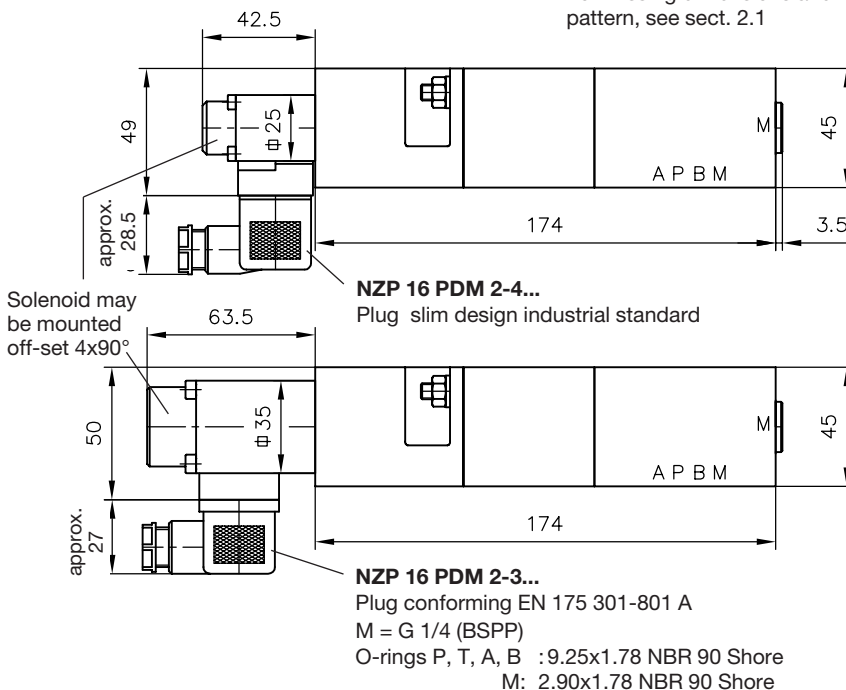
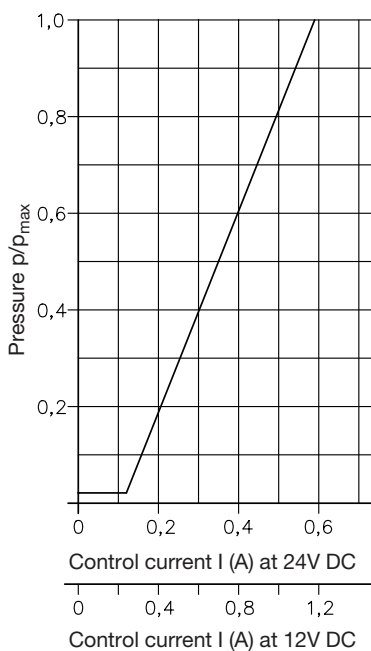
**Unit dimensions**

All dimensions in mm, subject to change without notice!



For missing dimensions and hole pattern, see sect. 2.1

**Curves**



**2.2.7 Intermediate plate with prop. pressure reducing valve type SDM** (self-retaining version)

The control circuit features a directional seated valves additional to the prop. pressure reducing valve, which can maintain the set pressure level on the consumer side for a sufficient period after a black-out until the machine is stopped. Additional effect is that pilot section of the pressure reducing valve can be set out of function in normal operation. The set pressure can be monitored by a pressure sensor mounted at port M. The emitted signal can be processed by an electronic valve control e.g. type PLVC 2 acc. to D 7845-2.

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

$Q_{max} = 25 \text{ lpm}$ ,  $p_{max P} = 400 \text{ bar}$ ,  $p_{max A, B} = 125 \text{ bar}$

Order example:

**NZP 16 SDM 2 B / G 24 / B 0,8 R S**

Basic type

<b>NZP 16 SDM 2</b>	Prop. pressure reducing valve in P (internal components are from type PDM 2.. acc. to D 7584/1)
---------------------	---

Pressure range

Coding	Pressure range (bar)
<b>A</b>	6 ... 60
<b>B</b>	9 ... 92
<b>G</b>	8 ... 80
<b>E</b>	12 ... 125

Additional element in T

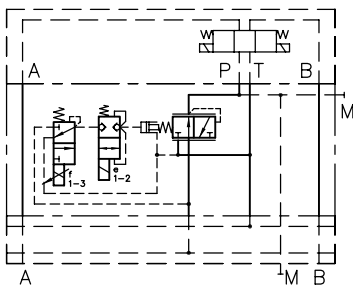
Coding	Note
-	Without
<b>S</b>	Return pressure stop

Additional elements in P

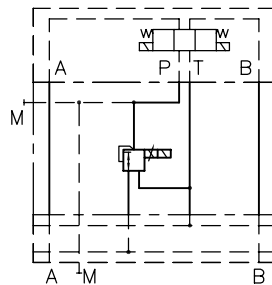
Coding	Note
-	Without
<b>R</b>	Check valve (type ER13 acc. to D 7325)
<b>B...</b>	Orifice, hole diameter in mm (orifice ISO 4026 M8x8-DU-...). For available diameter, see sect. 2.2.1

**Symbols**

Detailed



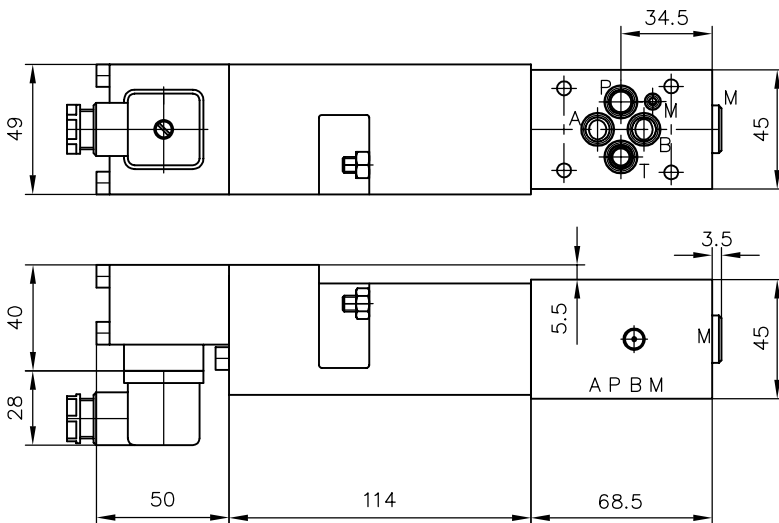
Simplified



Solenoid voltage prop. solenoid (nominal power  $P_N = 22 \text{ W}$ , per coil)

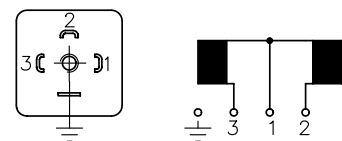
With plug	Without plug	Nom. voltage
<b>G 12</b>	<b>X 12</b>	12V DC
<b>G 24</b>	<b>X 24</b>	24V DC

**Unit dimensions** All dimensions in mm, subject to change without notice!



For missing dimensions and hole pattern, see sect. 2.1

M = G 1/4 (BSPP)  
 O-rings P, T, A, B: 9.25x1.78 NBR 90 Shore  
 M: 2.90x1.78 NBR 90 Shore



1 - 3 Prop. pressure reducing valve  
 1 - 2 Directional seated valve (on/off)

### 2.3 Intermediate plate enabling a second speed rate which can be activated arbitrarily

$Q_{max} = 40 \text{ lpm}$

$P_{max} = 400 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 V / P B 1.0 - G 24**  
**NZP 16T VP / T Q 20 - WG 230**

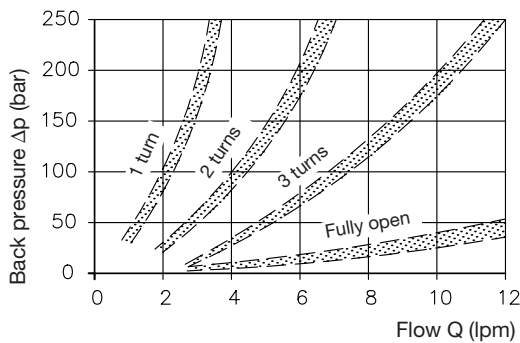
Basic type

<b>NZP 16 .. / P ..</b>	Valves at P
<b>NZP 16T .. / T ..</b>	Valves at T 1)

Additional 2/2-way directional valve acc. to D 7490/1

Coding	Type
<b>V</b>	EM 21 V NC-valve - on/off
<b>S</b>	EM 21 S NO-valve - on/off
<b>VP</b>	EMP 21 V NC-valve - prop. throttle
<b>SP</b>	EMP 21 S NO-valve - prop. throttle
<b>VPG</b>	EMP 21 VG NC-contact - dampened
<b>SPG</b>	EMP 21 SG NO-contact - dampened
<b>X</b>	without valve, plugged (hole)

Throttle characteristic type Q 20



Solenoid voltage

(nominal power V, S  $P_N = 21 \text{ W}$ ; VP, SP  $P_N = 30 \text{ W}$ )

with plug	without plug	with plug incl. LED	Nom. voltage
<b>G 12</b>	<b>X 12</b>	<b>L 12</b>	12V DC
<b>G 24</b>	<b>X 24</b>	<b>L 24</b>	24V DC
<b>WG 110</b>	<b>X 98</b>	-	110V AC (98V DC)
<b>WG 230</b>	<b>X 205</b>	-	230V AC (205V DC)

Orifices and throttles

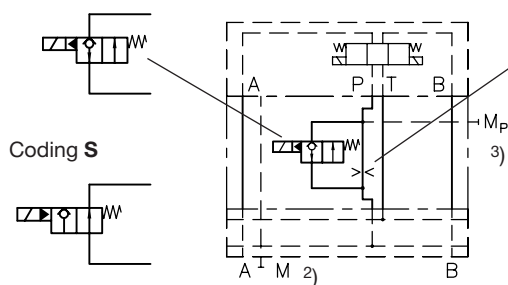
Coding	Note
<b>B 0,3</b> <b>B 0,4</b> <b>B 0,5</b> <b>B 0,8</b> <b>B 1,0</b> <b>B 1,5</b> <b>B 1,8</b> <b>B 2,0</b> <b>B 2,5</b>	Orifice, hole diameter in mm (mounted in P or T)
<b>Q 20</b>	Throttle, adjustable (type Q 20 acc. to D 7730)
<b>without</b>	With prop. throttles coding VP and SP

- Attention:** The return pressure rating of the utilized valve must not be exceeded!
- Port M required only when a clamping module type NSMD acc. to D 7787 is mounted on top, omitted with version PQ
- Not apparent at versions with throttle Q 20

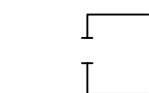
#### Symbols

**NZP 16 V(S) / P ..**

Coding **V**

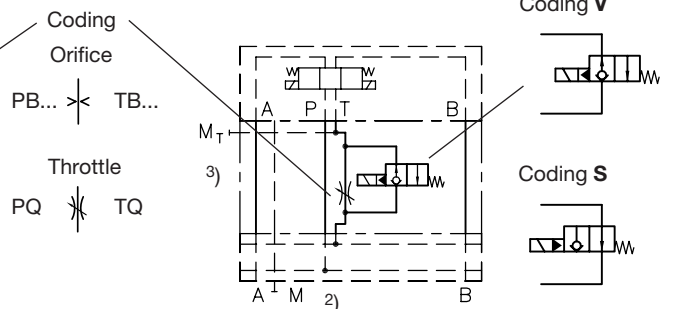


Coding **X**

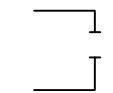


**NZP 16T V(S) / T ..**

Coding **V**



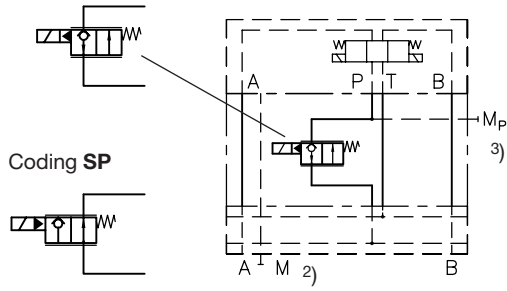
Coding **X**



**NZP 16 VP(SP) / P..**

Coding **VP**

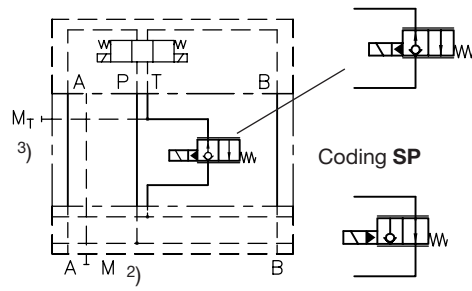
Coding **SP**



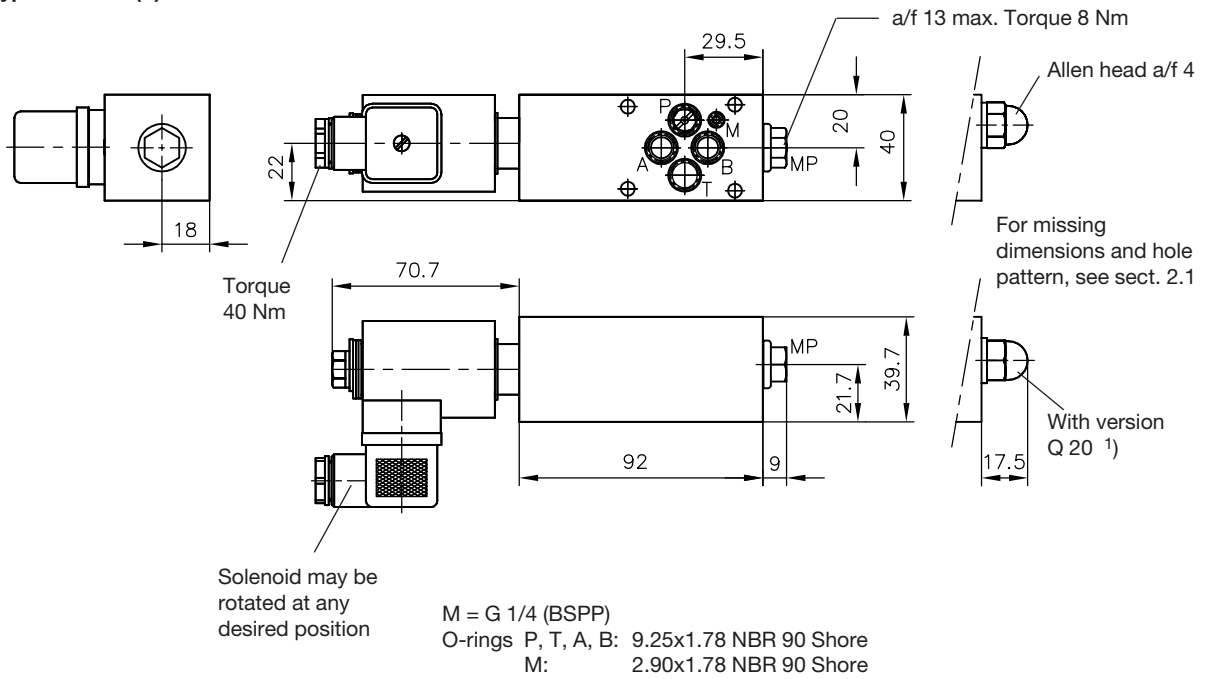
**NZP 16T VP(SP) / T..**

Coding **VP**

Coding **SP**

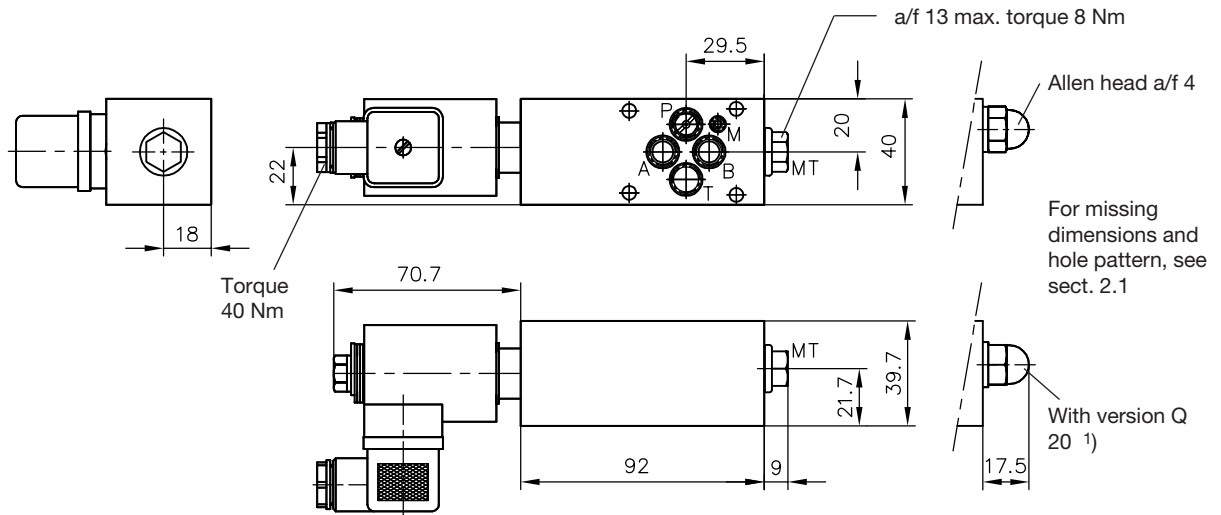


**Type NZP 16 V(S)...**

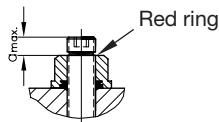


- 1) Max. travel for adjustment
- 2) Port M required only when a clamping module type NSMD acc. to D 7787 is mounted on top, omitted with version PQ
- 3) Not apparent at versions with throttle Q 20

Type NZP 16 T V(S)...



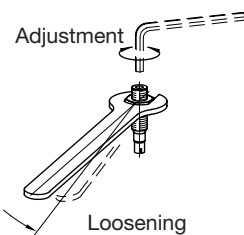
1) Max. travel for adjustment



At the maximum adjustment length ( $a_{max} = 5 \text{ mm}$ ), the ring marking will become visible. Further unscrewing will not achieve any further change (reduction) in the  $\Delta p$ -value. From a design point of view, an internal stop to prevent further or complete unscrewing cannot be provided. The red ring marking accordingly also represents the end of the permissible adjustment length. If it is exceeded, the number of load-bearing threads will be reduced, and if unscrewed too far there is the risk that the throttle screw might be torn out at high pressure. This point should, if necessary, be included in the operating manual or the operating instructions for the system.

**Caution:**

Do not unscrew throttle screw beyond red marking ring!



Only slight loosening of the Seal-Lock-nut is required for adjusting the throttle screw with an allen key. This way almost no fluid will escape out of the bore.

## 2.4 Intermediate plates with by-pass and check valve

### 2.4.1 Intermediate plates with check valve

$Q_{max} = 20 \text{ lpm}$ ,  $p_{max} = 400 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 BV 1Z / R S - G 24**

Basic type \_\_\_\_\_

<b>NZP 16 BV 1Z</b>	Relief P → T (deenergized)
<b>NZP 16 BV 1Y</b>	Relief P → T (energized)

Additional elements in P \_\_\_\_\_

Coding	Note
-	Without
<b>R</b>	Check valve (type ER13 acc. to D 7325)
<b>B...</b>	Orifice, hole diameter in mm (orifice ISO 4026 M8x8-DU-...) For available diameter, see sect. 2.2.1

Additional elements in T \_\_\_\_\_

Coding	Note
-	Without
<b>S</b>	Return pressure stop
<b>S1</b>	Return pressure stop, open-up pressure approx. 1 bar

Solenoid voltage

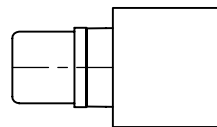
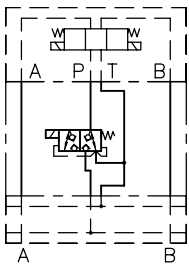
(nominal power G, WG, L, X = 30 W; GM, WGM, LM, XM = 27 W)

Pressure $p_{max}$ (bar)	Coding			Nom. voltage
	With plug	With plug incl. LED	Without plug	
400	<b>G 12</b>	<b>L 12</b>	<b>X 12</b>	$U_N = 12V \text{ DC}$
	<b>G 24</b>	<b>L 24</b>	<b>X 24</b>	$U_N = 24V \text{ DC}$
	<b>WG 110</b> <sup>1)</sup>	---	<b>X 98</b>	$U_N = 110V \text{ AC}, 50/60\text{Hz}$ (98V DC)
	<b>WG 230</b> <sup>1)</sup>	---	<b>X 205</b>	$U_N = 230V \text{ AC}, 50/60\text{Hz}$ (205V DC)
250	<b>GM 12</b>	<b>LM 24</b>	<b>XM 12</b>	$U_N = 12V \text{ DC}$
	<b>GM 24</b>	<b>LM 24</b>	<b>XM 24</b>	$U_N = 24V \text{ DC}$
	<b>WGM 110</b> <sup>1)</sup>	---	<b>XM 98</b>	$U_N = 110V \text{ AC}, 50/60\text{Hz}$ (98V DC)
	<b>WGM 230</b> <sup>1)</sup>	---	<b>XM 205</b>	$U_N = 230V \text{ AC}, 50/60\text{Hz}$ (205V DC)
250	<b>M 24/8W</b>	---	---	$U_N = 24V \text{ DC}, 8 \text{ Watt}$

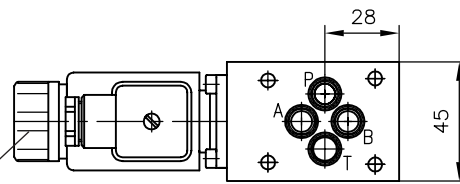
<sup>1)</sup> DC-solenoid (98V DC, 205V DC) with bridge rectifier in the plug

### Symbols

#### Type NZP 16 BV 1Z

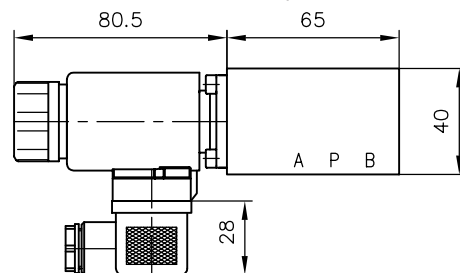
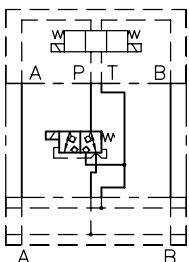


Solenoid GM..., WGM..., XM...;  
For solenoid G..., WG..., X...  
see sect. 2.2.4



For missing dimensions and  
hole pattern, see sect. 2.1

#### Type NZP 16 BV 1Y



O-rings P, T, A, B: 9.25x1.78 NBR 90 Shore



**2.4.2 Intermediate plates with by-pass valve between P and A**

$Q_{max} = 20 \text{ lpm}$ ,  $p_{max} = 400 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 PBV 1S - G 24**

Basic type

<b>NZP 16 PBV 1S</b>	By-pass valve between P and A (NO-valve)
<b>NZP 16 PBV 1R</b>	By-pass valve between P and A (NC-valve)

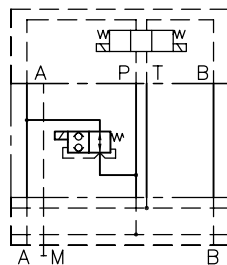
Solenoid voltage  
(nominal power G, WG, L, X = 30 W; GM, WGM, LM, XM = 27 W)

Pressure $p_{max}$ (bar)	Coding			Nom. voltage
	With plug	With plug incl. LED	Without plug	
400	<b>G 12</b>	<b>L 12</b>	<b>X 12</b>	$U_N = 12V \text{ DC}$
	<b>G 24</b>	<b>L 24</b>	<b>X 24</b>	$U_N = 24V \text{ DC}$
	<b>WG 110</b> <sup>1)</sup>	---	<b>X 98</b>	$U_N = 110V \text{ AC}, 50/60\text{Hz} (98VDC)$
	<b>WG 230</b> <sup>1)</sup>	---	<b>X 205</b>	$U_N = 230V \text{ AC}, 50/60\text{Hz} (205VDC)$
250	<b>GM 12</b>	<b>LM 24</b>	<b>XM 12</b>	$U_N = 12V \text{ DC}$
	<b>GM 24</b>	<b>LM 24</b>	<b>XM 24</b>	$U_N = 24V \text{ DC}$
	<b>WGM 110</b> <sup>1)</sup>	---	<b>XM 98</b>	$U_N = 110V \text{ AC}, 50/60\text{Hz} (98VDC)$
	<b>WGM 230</b> <sup>1)</sup>	---	<b>XM 205</b>	$U_N = 230V \text{ AC}, 50/60\text{Hz} (205VDC)$
250	<b>M 24/8W</b>	---	---	$U_N = 24V \text{ DC}, 8 \text{ Watt}$

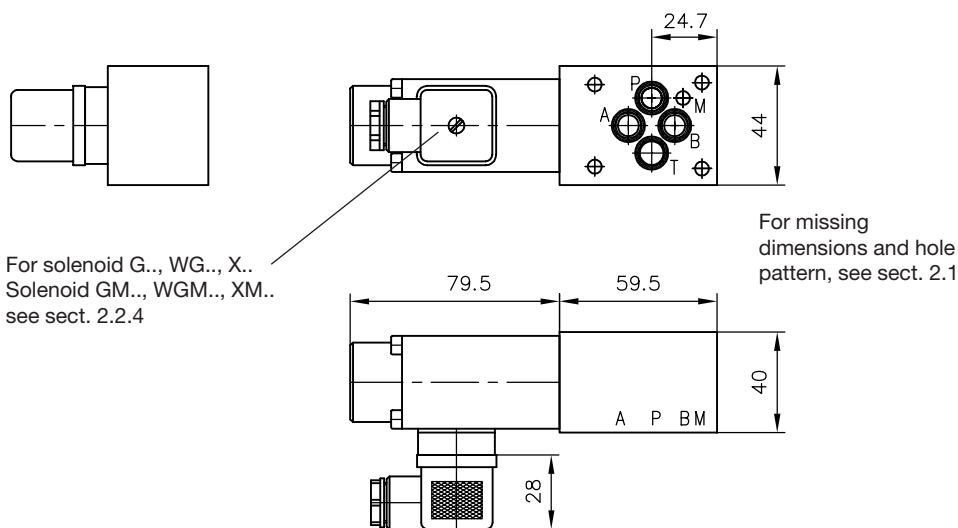
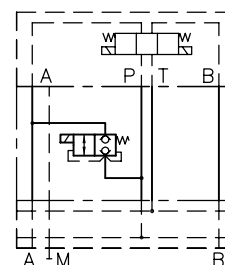
<sup>1)</sup> DC-solenoid (98V DC, 205V DC) with bridge rectifier in the plug

**Symbols**

**Type NZP 16 PBV 1S**



**Type NZP 16 PBV 1R**



For solenoid G.., WG.., X..  
Solenoid GM.., WGM.., XM..  
see sect. 2.2.4

For missing dimensions and hole pattern, see sect. 2.1

O-rings P, T, A, B: 9.25x1.78 NBR 90 Shore  
M : 2.90x1.78 NBR 90 Shore

**2.4.3 Intermediate plates with by-pass valve between A and B**

$Q_{max} = 20 \text{ lpm}$ ,  $p_{max} = 400 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 BV 1S - G 24**  
**NZP 26 BV 1R - WG 230**

Basic type

Solenoid voltage  
 (nominal power G, WG, L, X = 30 W; GM, WGM, LM, XM = 27 W)

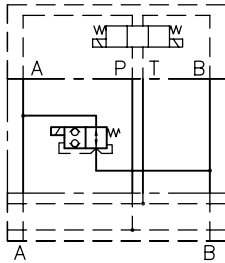
<b>NZP 16 BV 1S</b> <b>NZP 26 BV 1S</b>	By-pass valve between B and A (NO-valve). The position of the solenoid is different at 16 and 26.
<b>NZP 16 BV 1R</b> <b>NZP 26 BV 1R</b>	By-pass valve between B and A (NC-valve). The position of the solenoid is different at 16 and 26.

Pressure $p_{max}$ (bar)	Coding			Nom. voltage
	With plug	With plug incl. LED	Without plug	
400	<b>G 12</b>	<b>L 12</b>	<b>X 12</b>	$U_N = 12V \text{ DC}$ $U_N = 24V \text{ DC}$ $U_N = 110V \text{ AC}, 50/60\text{Hz} (98V \text{ DC})$ $U_N = 230V \text{ AC}, 50/60\text{Hz} (205V \text{ DC})$
	<b>G 24</b>	<b>L 24</b>	<b>X 24</b>	
	<b>WG 110</b> <sup>1)</sup>	---	<b>X 98</b>	
	<b>WG 230</b> <sup>1)</sup>	---	<b>X 205</b>	
250	<b>GM 12</b>	<b>LM 24</b>	<b>XM 12</b>	$U_N = 12V \text{ DC}$ $U_N = 24V \text{ DC}$ $U_N = 110V \text{ AC}, 50/60\text{Hz} (98V \text{ DC})$ $U_N = 230V \text{ AC}, 50/60\text{Hz} (205V \text{ DC})$
	<b>GM 24</b>	<b>LM 24</b>	<b>XM 24</b>	
	<b>WGM 110</b> <sup>1)</sup>	---	<b>XM 98</b>	
	<b>WGM 230</b> <sup>1)</sup>	---	<b>XM 205</b>	
250	<b>M 24/8W</b>	---	---	$U_N = 24V \text{ DC}, 8 \text{ Watt}$

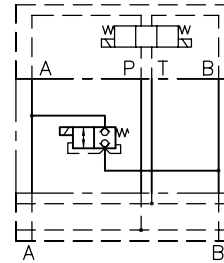
<sup>1)</sup> DC-solenoid (98V DC, 205V DC) with bridge rectifier in the plug

**Symbols**

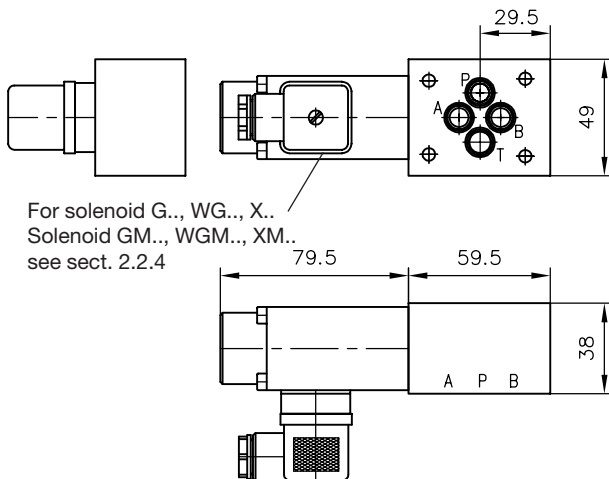
Type **NZP 16 BV 1S**  
**NZP 26 BV 1S**



Type **NZP 16 BV 1R**  
**NZP 26 BV 1R**



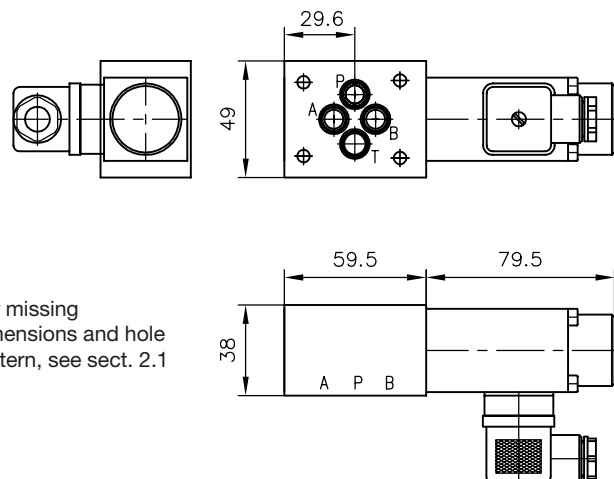
Type **NZP 16 BV 1S**  
**NZP 16 BV 1R**



For solenoid G..., WG..., X...  
 Solenoid GM..., WGM..., XM...  
 see sect. 2.2.4

For missing dimensions and hole pattern, see sect. 2.1

Type **NZP 26 BV 1S**  
**NZP 26 BV 1R**



O-rings P, T, A, B: 9.25x1.78 NBR 90 Shore

O-rings P, T, A, B: 9.25x1.78 NBR 90 Shore

**2.4.4 Intermediate plates with short circuit valves**

$Q_{max} = 20 \text{ lpm}$ ,  $p_{max} = 400 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 BV 1K - G 24**  
**NZP 16 BV 1Q - WGM 230**

Basic type

Solenoid voltage  
 (nominal power G, WG, L, X = 30 W; GM, WGM, LM, XM = 27 W)

<b>NZP 16 BV 1K</b>	Arbitrary relief A and B to the tank (NC-valve)
<b>NZP 16 BV 1Q</b>	Arbitrary relief A and B to the tank (NO-valve)

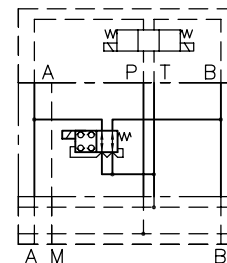
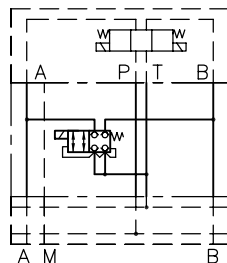
Pressure $p_{max}$ (bar)	Coding			Nom. voltage
	With plug	With plug incl. LED	Without plug	
400	<b>G 12</b>	<b>L 12</b>	<b>X 12</b>	$U_N = 12V \text{ DC}$ $U_N = 24V \text{ DC}$ $U_N = 110V \text{ AC}, 50/60\text{Hz} (98V \text{ DC})$ $U_N = 230V \text{ AC}, 50/60\text{Hz} (205V \text{ DC})$
	<b>G 24</b>	<b>L 24</b>	<b>X 24</b>	
	<b>WG 110</b> <sup>1)</sup>	---	<b>X 98</b>	
	<b>WG 230</b> <sup>1)</sup>	---	<b>X 205</b>	
250	<b>GM 12</b>	<b>LM 24</b>	<b>XM 12</b>	$U_N = 12V \text{ DC}$ $U_N = 24V \text{ DC}$ $U_N = 110V \text{ AC}, 50/60\text{Hz} (98V \text{ DC})$ $U_N = 230V \text{ AC}, 50/60\text{Hz} (205V \text{ DC})$
	<b>GM 24</b>	<b>LM 24</b>	<b>XM 24</b>	
	<b>WGM 110</b> <sup>1)</sup>	---	<b>XM 98</b>	
	<b>WGM 230</b> <sup>1)</sup>	---	<b>XM 205</b>	
250	<b>M 24/8W</b>	---	---	$U_N = 24V \text{ DC}, 8 \text{ Watt}$

<sup>1)</sup> DC-solenoid (98V DC, 205V DC) with bridge rectifier in the plug

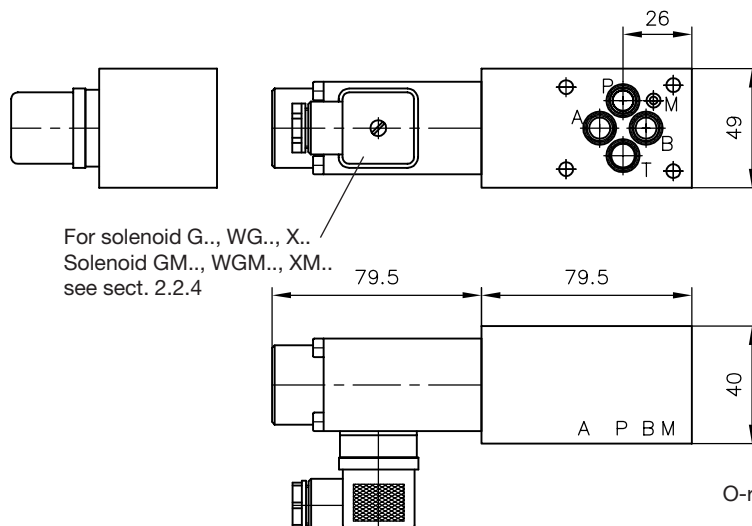
**Symbols**

**Type NZP 16 BV 1K**

**Type NZP 16 BV 1Q**



**Type NZP 16 BV 1K**  
**NZP 16 BV 1Q**



For missing dimensions and hole pattern, see sect. 2.1

For solenoid G.., WG.., X..  
 Solenoid GM.., WGM.., XM..  
 see sect. 2.2.4

O-rings P, T, A, B: 9.25x1.78 NBR 90 Shore  
 M: 2.90x1.78 NBR 90 Shore

**2.4.5 Intermediate plates with short circuit valves**

$Q_{max} = 20 \text{ lpm}$ ,  $p_{max} = 400 \text{ bar}$

**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 BV 1RS - G 24**  
**NZP 16 BV 1SR - WGM 230**

Basic type

Solenoid voltage  
 (nominal power G, WG, L, X = 30 W; GM, WGM, LM, XM = 27 W)

<b>NZP 16 BV 1RS</b>	Arbitrary relief (idle pos.: B → T)
<b>NZP 16 BV 1SR</b>	Arbitrary relief (idle pos.: A → T)

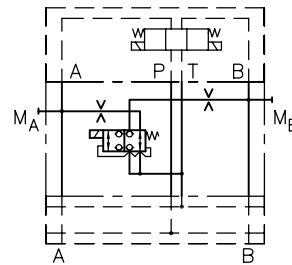
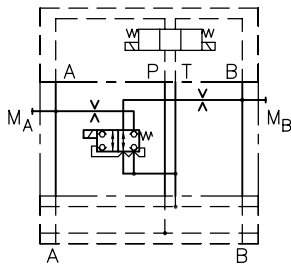
Pressure $p_{max}$ (bar)	Coding			Nom. voltage
	With plug	With plug incl. LED	Without plug	
400	<b>G 12</b>	<b>L 12</b>	<b>X 12</b>	$U_N = 12V \text{ DC}$
	<b>G 24</b>	<b>L 24</b>	<b>X 24</b>	$U_N = 24V \text{ DC}$
	<b>WG 110</b> <sup>1)</sup>	---	<b>X 98</b>	$U_N = 110V \text{ AC}, 50/60\text{Hz} (98V \text{ DC})$
	<b>WG 230</b> <sup>1)</sup>	---	<b>X 205</b>	$U_N = 230V \text{ AC}, 50/60\text{Hz} (205V \text{ DC})$
250	<b>GM 12</b>	<b>LM 24</b>	<b>XM 12</b>	$U_N = 12V \text{ DC}$
	<b>GM 24</b>	<b>LM 24</b>	<b>XM 24</b>	$U_N = 24V \text{ DC}$
	<b>WGM 110</b> <sup>1)</sup>	---	<b>XM 98</b>	$U_N = 110V \text{ AC}, 50/60\text{Hz} (98V \text{ DC})$
	<b>WGM 230</b> <sup>1)</sup>	---	<b>XM 205</b>	$U_N = 230V \text{ AC}, 50/60\text{Hz} (205V \text{ DC})$
250	<b>M 24/8W</b>	---	---	$U_N = 24V \text{ DC}, 8 \text{ Watt}$

1) DC-solenoid (98V DC, 205V DC) with bridge rectifier in the plug

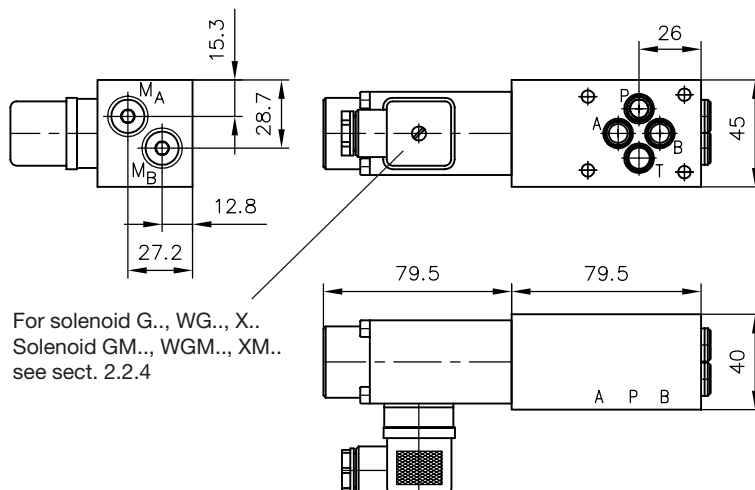
**Symbols**

**Type NZP 16 BV 1RS**

**Type NZP 16 BV 1SR**



**Type NZP 16 BV 1RS**  
**NZP 16 BV 1SR**



For missing dimensions and hole pattern, see sect. 2.1

O-rings P, T, A, B : 9.25x1.78 NBR 90 Shore

## 2.5 Intermediate plate with over-center valve

$Q_{max} = 20 \text{ lpm}$ ,  $p_{max} = 400 \text{ bar}$

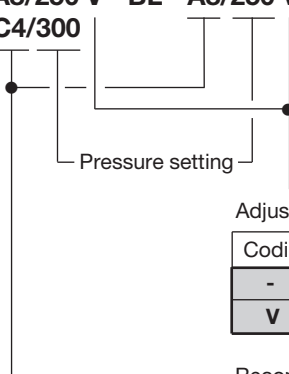
**Attention:** The pressure and flow rating of the utilized valves must not be exceeded!

Order example:

**NZP 16 AL - A8/250 V - BL - A8/250 V**  
**NZP 16 AL - C4/300**

Basic type

<b>NZP 16 AL - ...</b>	Over-center valve at A
<b>NZP 16 BL - ...</b>	Over-center valve at B
<b>NZP 16 AL - ... - BL - ...</b>	Over-center valve at A and B



Adjustment

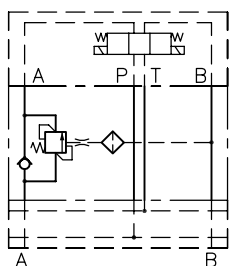
Coding	Note
-	Tool adjustable
<b>V</b>	Manually adjustable

Recommended flow (lpm) / Release ratio

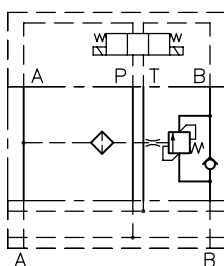
Coding	1:8	A8	B8	C8	D8	E8
		A4	B4	C4	D4	E4
lpm		28	14	10	6	3

### Symbols

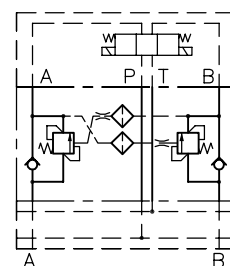
Type NZP 16 AL ...



Type NZP 16 BL ...



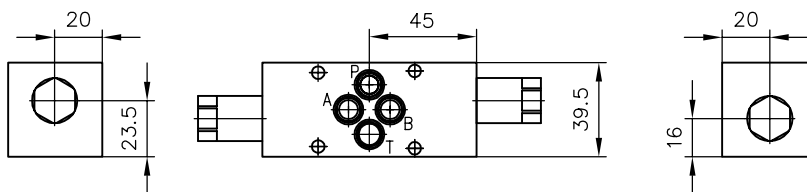
Type NZP 16 AL - ... - BL - ...



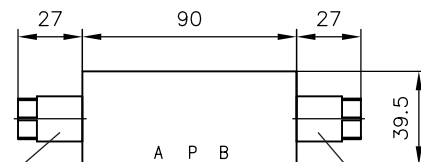
Type NZP 16 AL ...

NZP 16 BL ...

NZP 16 AL - ... - BL - ...



For missing dimensions and hole pattern, see sect. 2.1

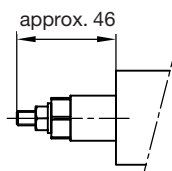


O-rings P, T, A, B : 9.25x1.78 NBR 90 Shore

omitted with type NZP 16 BL

omitted with type NZP 16 AL

Coding **V**



## 2.6 Spacer plates

Order example: **NZP 16 D**  
**NZP 16 Z10 / RS / ABV 2,0**

Additional elements in port P  
(only with type NZP16 Z10)

Additional elements in port T  
(only with type NZP16 Z10)

Basic type

<b>NZP 16 D</b>	Drain valves at A and B to the tank
<b>NZP 16 Z10</b>	Intermediate plate 10 mm, required when utilizing directional seated valves type NBVP 16 ... - M 24 / 8W (due to solenoid size)

Additional elements in port P  
(only with type NZP16 Z10)




Coding	Note
-	Without
<b>R</b>	Check valve (type ER13 acc. to D 7325)
<b>B...</b>	Orifice, hole diameter in mm (orifice ISO 4026 M8x8-DU-...) For available diameter, see sect. 2.2.1

Additional elements in port T  
(only with type NZP16 Z10)

Coding	Note
-	Without
<b>S</b>	Return pressure stop
<b>S1</b>	Return pressure stop, open-up pressure approx. 1 bar

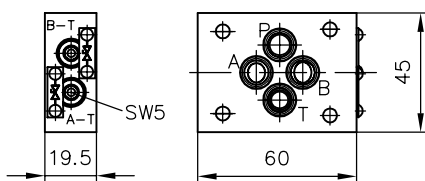
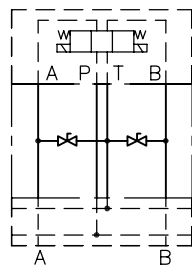
1) Versions A(B) BR.. and A(B) BV.. are identical, only install position differs.

Coding dep. on flow pattern symbols (only with type NZP16 Z10)

Additional element	Coding 1)		Ø (mm)
	all flow pattern symbols	only flow pattern symbols G, D	
Orifice in A and/or B 	<b>AB 0,3</b>	<b>BB 0,3</b>	0.3
	<b>AB 0,4</b>	<b>BB 0,4</b>	0.4
	<b>AB 0,5</b>	<b>BB 0,5</b>	0.5
	<b>AB 0,6</b>	<b>BB 0,6</b>	0.6
	<b>AB 0,7</b>	<b>BB 0,7</b>	0.7
	<b>AB 0,8</b>	<b>BB 0,8</b>	0.8
	<b>AB 0,9</b>	<b>BB 0,9</b>	0.9
	<b>AB 1,0</b>	<b>BB 1,0</b>	1.0
	<b>AB 1,2</b>	<b>BB 1,2</b>	1.2
	<b>AB 1,5</b>	<b>BB 1,5</b>	1.5
	<b>AB 2,0</b>	<b>BB 2,0</b>	2.0
<b>AB 2,5</b>	<b>BB 2,5</b>	2.5	
Restrictor check valve at A and/or B throttling the flow to the consumer 	<b>ABV 0,6</b>	<b>BBV 0,6</b>	0.6
	<b>ABV 0,7</b>	<b>BBV 0,7</b>	0.7
	<b>ABV 0,8</b>	<b>BBV 0,8</b>	0.8
	<b>ABV 0,9</b>	<b>BBV 0,9</b>	0.9
	<b>ABV 1,0</b>	<b>BBV 1,0</b>	1.0
	<b>ABV 1,2</b>	<b>BBV 1,2</b>	1.2
	<b>ABV 1,5</b>	<b>BBV 1,5</b>	1.5
<b>ABV 2,0</b>	<b>BBV 2,0</b>	2.0	
Restrictor check valve at A and/or B throttling the flow from the consumer 	<b>ABR 0,6</b>	<b>BBR 0,6</b>	0.6
	<b>ABR 0,7</b>	<b>BBR 0,7</b>	0.7
	<b>ABR 0,8</b>	<b>BBR 0,8</b>	0.8
	<b>ABR 0,9</b>	<b>BBR 0,9</b>	0.9
	<b>ABR 1,0</b>	<b>BBR 1,0</b>	1.0
	<b>ABR 1,2</b>	<b>BBR 1,2</b>	1.2
	<b>ABR 1,5</b>	<b>BBR 1,5</b>	1.5
<b>ABR 2,0</b>	<b>BBR 2,0</b>	2.0	

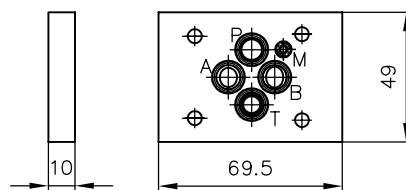
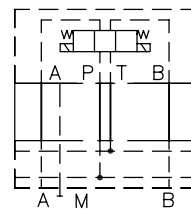
### Symbols

Type NZP 16 D



O-rings P, T, A, B: 9.25x1.78 NBR 90 Shore

Type NZP 16 Z10



O-rings P, T, A, B: 9.25x1.78 NBR 90 Shore  
M: 2.90x1.78 NBR 90 Shore

For missing dimensions and hole pattern, see sect. 2.1

### 3. Further parameters

#### 3.1 General data

Nomenclature, design	Intermediate plate for hole pattern NG 6 acc. to DIN 24 340-A6																																																
Fastening	Clamped between directional valve and manifold (thru-holes) High-tensile screws (min. rating 10.9) must be used at pressure higher than 400 bar.																																																
Surface treatment	Main valve gas nitrided Solenoid zinc galvanized and olive passivated																																																
Mass (weight)	<table border="0"> <tr> <td>Type</td> <td>NZP 16 Q</td> <td>0.8 kg</td> </tr> <tr> <td></td> <td>NZP 16 V(S, VP, SP)</td> <td>1.4 kg</td> </tr> <tr> <td></td> <td>NZP 16 TV(S, VP, SP)</td> <td>1.4 kg</td> </tr> <tr> <td></td> <td>NZP 16 CZ, NZP 26 CZ, NZP 16 LZ</td> <td>1.7 kg</td> </tr> <tr> <td></td> <td>NZP 16 LZ</td> <td>2.1 kg</td> </tr> <tr> <td></td> <td>NZP 16 ADK</td> <td>1.7 kg</td> </tr> <tr> <td></td> <td>NZP 16 ACZ(BCZ)</td> <td>1.7 kg</td> </tr> <tr> <td></td> <td>NZP 16 CZS</td> <td>1.8 kg</td> </tr> <tr> <td></td> <td>NZP 16 ADM2</td> <td>1.0 kg</td> </tr> <tr> <td></td> <td>NZP 16 PDM2</td> <td>2.4 kg</td> </tr> <tr> <td></td> <td>NZP 16 SDM2</td> <td>3.9 kg</td> </tr> <tr> <td></td> <td>NZP 16 BV..</td> <td>1.4 kg</td> </tr> <tr> <td></td> <td>NZP 26 BV..</td> <td>1.4 kg</td> </tr> <tr> <td></td> <td>NZP 16 PBV..</td> <td>1.4 kg</td> </tr> <tr> <td></td> <td>NZP 16 Z10</td> <td>0.2 kg</td> </tr> <tr> <td></td> <td>NZP 16 D</td> <td>0.4 kg</td> </tr> </table>	Type	NZP 16 Q	0.8 kg		NZP 16 V(S, VP, SP)	1.4 kg		NZP 16 TV(S, VP, SP)	1.4 kg		NZP 16 CZ, NZP 26 CZ, NZP 16 LZ	1.7 kg		NZP 16 LZ	2.1 kg		NZP 16 ADK	1.7 kg		NZP 16 ACZ(BCZ)	1.7 kg		NZP 16 CZS	1.8 kg		NZP 16 ADM2	1.0 kg		NZP 16 PDM2	2.4 kg		NZP 16 SDM2	3.9 kg		NZP 16 BV..	1.4 kg		NZP 26 BV..	1.4 kg		NZP 16 PBV..	1.4 kg		NZP 16 Z10	0.2 kg		NZP 16 D	0.4 kg
Type	NZP 16 Q	0.8 kg																																															
	NZP 16 V(S, VP, SP)	1.4 kg																																															
	NZP 16 TV(S, VP, SP)	1.4 kg																																															
	NZP 16 CZ, NZP 26 CZ, NZP 16 LZ	1.7 kg																																															
	NZP 16 LZ	2.1 kg																																															
	NZP 16 ADK	1.7 kg																																															
	NZP 16 ACZ(BCZ)	1.7 kg																																															
	NZP 16 CZS	1.8 kg																																															
	NZP 16 ADM2	1.0 kg																																															
	NZP 16 PDM2	2.4 kg																																															
	NZP 16 SDM2	3.9 kg																																															
	NZP 16 BV..	1.4 kg																																															
	NZP 26 BV..	1.4 kg																																															
	NZP 16 PBV..	1.4 kg																																															
	NZP 16 Z10	0.2 kg																																															
	NZP 16 D	0.4 kg																																															
Installed position	Any																																																
Pressure fluid	Hydraulic fluid acc. to DIN 51524 table 1 to 3; ISO VG 10 to 68 acc. to DIN 51519 Viscosity range: min. approx. 4; max. approx. 1500 mm <sup>2</sup> /sec (viscosity during start) Optimal operation range: approx. 10 ... 500 mm <sup>2</sup> /sec Also suitable are biologically degradable pressure fluids of the type HEPG (Polyalkylenglycol) and HEES (synth. Ester) at operation temperatures up to approx. +70°C.																																																
Temperature	Ambient: approx. -40 ... +80°C Oil: -25 ... +80°C, pay attention to the viscosity range! Start temperature down to -40°C are allowable (Pay attention to the viscosity range during start !), as long as the operation temperature during consequent running is at least 20K (Kelvin) higher. Biological degradable pressure fluids: Pay attention to manufacturer's information. With regard to the compatibility with sealing materials do not exceed +70°C.																																																