

# AXIS COMPENSATION MODULES

## SERIES XYR

### ▶ PRODUCT ADVANTAGES



#### ▶ Adjustable balancing force and stroke

Using adjusting screws, you can adjust the properties of the equalizer optimally to your application in the shortest amount of time

#### ▶ Flat design

This structure reduces the moment load for your robot to a minimum and makes it possible to use smaller and more affordable sizes

#### ▶ Can be fixed in place centrally or de-centrally

Depending on the requirement, you can clamp or centrally lock the equalizer position. An aid for optimal processes

### ▶ THE BEST PRODUCT FOR YOUR APPLICATION



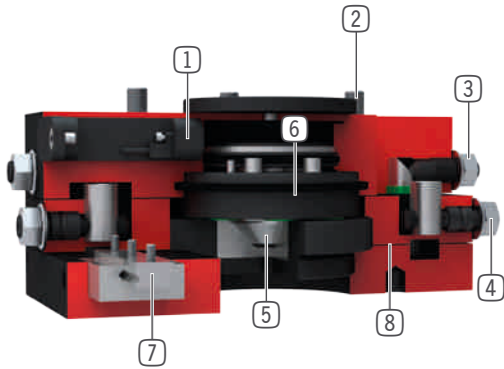
#### ▶ Our products welcome the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you endless possibilities.

Find the best product for your specific use:

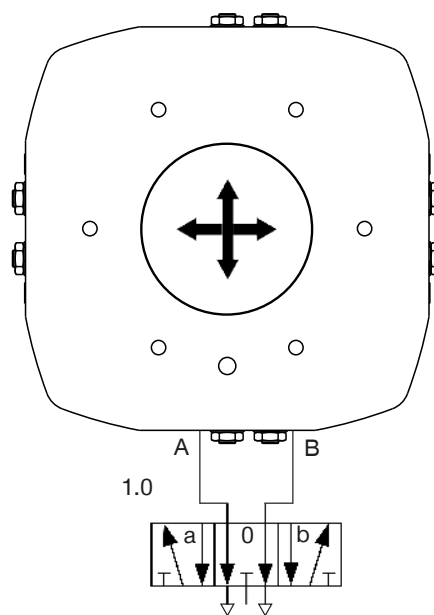
[www.zimmer-group.com](http://www.zimmer-group.com)

## ► BENEFITS IN DETAIL



- ① **Piston position sensing**
  - via magnetic field sensors
  - included in scope of delivery
- ② **Robust, lightweight housing**
  - Hard-coated aluminum alloy
  - partial mounting circle in accordance with EN ISO 9409-1
  - lowest overall height
- ③ **Compensation force**
  - adjustable via adjustment screw
- ④ **Compensation stroke**
  - infinitely variable
- ⑤ **Locking piston**
  - central via cone
- ⑥ **Eccentric locking**
  - via pneumatic piston with frictional contact
- ⑦ **Linear guide**
  - for highest force and moments capacity
- ⑧ **Compensation plate**
  - to balance position errors in XY- direction

## ► PNEUMATIC PLANS



Valve	Status	Locking piston locked	Locking piston unlocked	Eccentric clamping activated	Eccentric clamping deactivated
1.0	a	█	█	█	█
	0	█	█	█	█
	b	█	█	█	█

# AXIS COMPENSATION MODULES

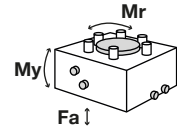
## INSTALLATION SIZE XYR1160

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Forces and moments

Shows static forces and moments



Mr [Nm]	250
My [Nm]	250
Fa [N]	3600

### ▶ INCLUDED IN DELIVERY



Mounting block

**KB8K**



Cylinder Screw

**C7984100209**

### ▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

**KHA1000-8**



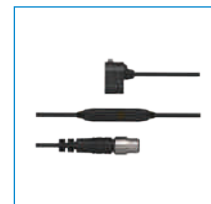
Inductive proximity switch - Connector M8

**NJ8-E2S**



Straight Fittings - Quick Connect Style

**GV1-8X8**



Piston position sensing

**ZUB088930**



Inductive proximity switch - Cable 5 m

**NJ8-E2**



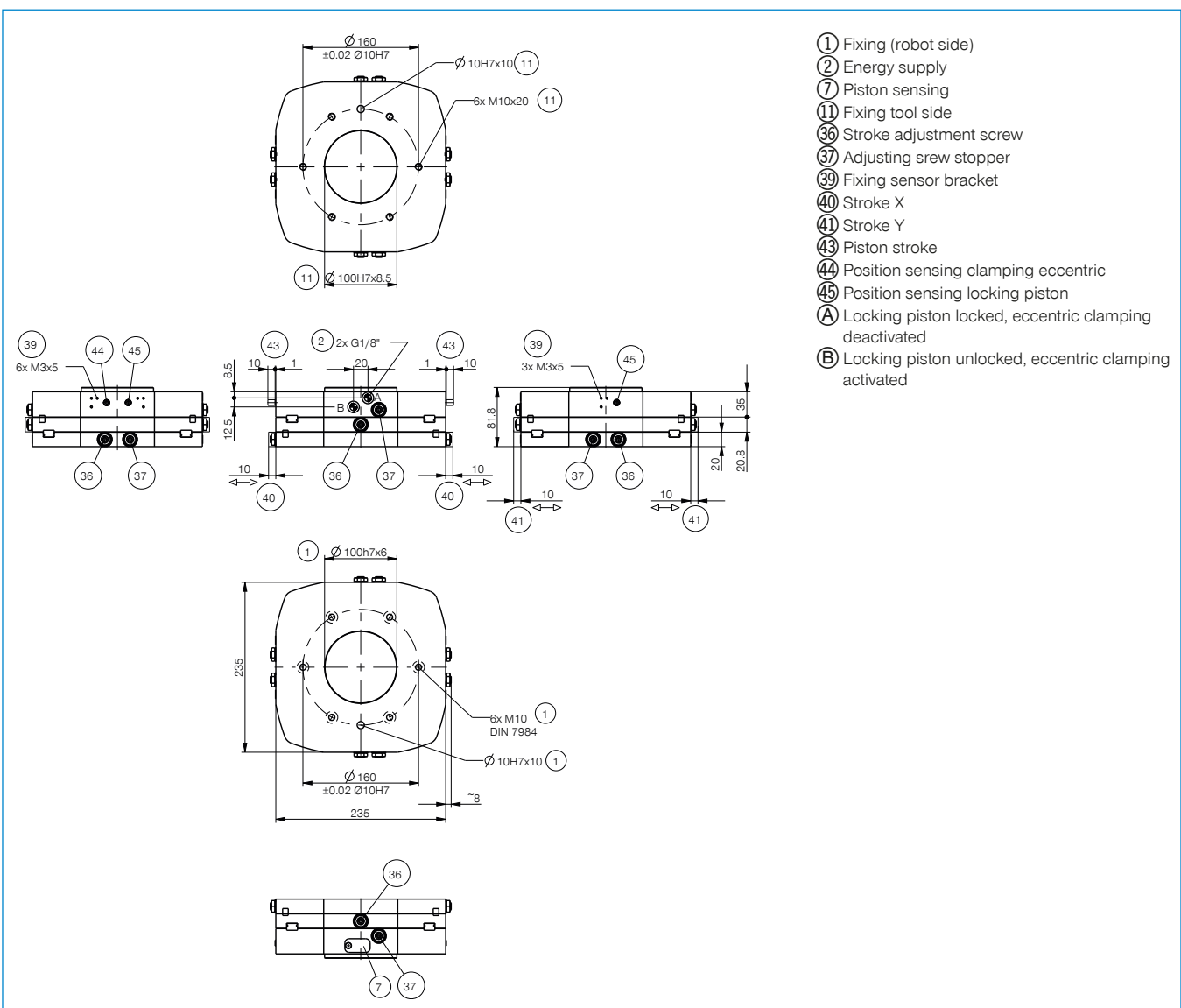
Angled Fittings - Quick Connect Style

**WV1-8X8**

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 160
Recommended handling weight [kg]**	75
Stroke X/Y level +/- [mm]	10
Retention force centred [N]	1200
Retention force decentred [N]	800
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm <sup>3</sup> ]	48
Moment of inertia [kg/cm <sup>2</sup> ]	1005
Weight [kg]	11.7

\*All data measured at 6 bar

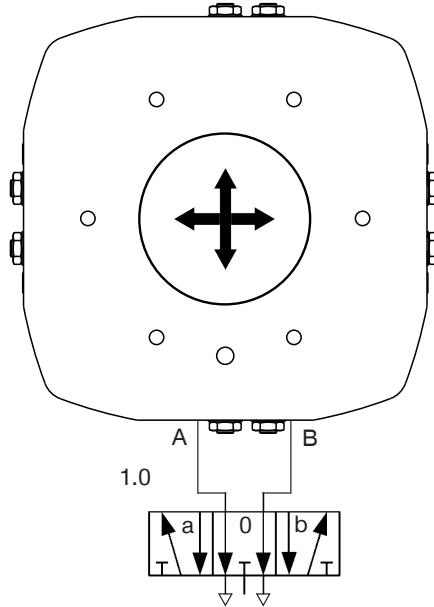
\*\*with central attachment



- ① Fixing (robot side)
- ② Energy supply
- ⑦ Piston sensing
- ⑪ Fixing tool side
- ③⑥ Stroke adjustment screw
- ③⑦ Adjusting screw stopper
- ③⑨ Fixing sensor bracket
- ④⑩ Stroke X
- ④⑪ Stroke Y
- ④③ Piston stroke
- ④④ Position sensing clamping eccentric
- ④⑤ Position sensing locking piston
- Ⓐ Locking piston locked, eccentric clamping deactivated
- Ⓑ Locking piston unlocked, eccentric clamping activated

# AXIS COMPENSATION MODULES SERIES XYR

## ► PNEUMATIC PLANS



Valve	Status	Locking piston locked	Locking piston unlocked	Eccentric clamping activated	Eccentric clamping deactivated
1.0	a	High	Low	Low	High
	0	Low	High	High	Low
	b	Low	Low	Low	High