# TRUTORQ





Namur:

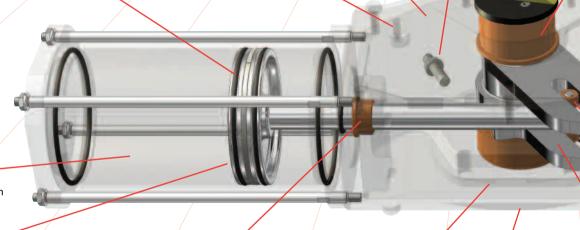
Namur topworks for industry standard mounting of switches, sensors, positioners and other monitoring devices.

Lifting:

Three Lifting Eyes for safe actuator handling during shipping, installation and handling.

#### Sealing & Movement:

Twin opposing piston seals dramatically decreasing the possibility of leakage with a central bearing allowing for smooth and secure operation. Stop Adjustments:
Bi-directional dual stop end
adjustments allowing for adjustment
from 80 to 100 degrees. Integral to
the Yoke Module and not subject
to pressurized areas allowing for
safe operation.



Cylinders:

Cylinders constructed from seamless drawn steel pipe.

Pistons:

Machined from solid steel.

Yoke Module Bearings:
Replaceable self-lubricating bronze
bearings to absorb any adverse load
to ensure smooth operation, extended
operating life and improved
piston rod alignment.

Actuator Valve Mounting Interface: Female drive with keyed connection allowing multiple connection and orientation styles when requested.

## **■ HD-TYPE** units available

Double acting	Spring return	
HD60DA	HD60SR	
HD120DA	HD120SR	
HD140DA	HD140SR	
HD190DA	HD190SR	
HD280DA	HD280SR	
HD300DA	HD300SR	
HD600DA	HD600SR	

#### Yoke Module:

Modular design allowing for variable actuator executions (twin piston DA, hydraulic, spring return etc.) and increasing inventory flexibility by stocking fewer necessary parts. Yoke module incorporates a breather preventing pressure build-up.

### Yoke Bearings:

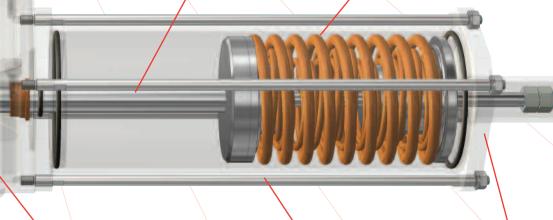
Top and bottom replaceable self-lubricating bronze bearings to absorb any adverse load to ensure smooth operation, extended operating life and improved yoke alignment.

#### Piston Rod:

Single piece piston rod machined from solid steel for added strength and durability.

## Spring Packs:

Encapsulated spring packs allowing for safe and easy handling located and recessed into actuator piston producing linear and even force throughout the complete movement.



## Yoke Mechanism:

Enclosed yoke mechanism allowing for secure fault-free operation in-corporating a hardened steel pin with active steel roller bearings.

#### Yoke:

Single piece precision die-cast yoke design, ensuring accurate and smooth operation allowing for increased durability and long life operation.

# Tie Bars:

Four external tie bars made from stainless steel allowing for secure connection of end-cap and piston assemblies.

## Spring Modules:

Pre-loaded spring modules incorporating the Spring Packs allowing safe handling, assembly and maintenance.

# ■ HD-TYPE Torque Range @ 6 BARg

DOUBLE ACTING = 601 - 6066 Nm (max torque) DOUBLE ACTING = 361 - 3669 Nm (min torque)

SPRING RETURN = 385 - 1941 Nm (Start of Spring) SPRING RETURN = 182 - 1834 Nm (min torque)

SPRING RETURN = 217 - 2184 Nm (End of Spring)

### ■ HD-TYPE Torque Range @ 80 PSIg

DOUBLE ACTING = 4876 - 49216 in.lbs (max torque) DOUBLE ACTING = 2929 - 29768 in.lbs (min torque)

SPRING RETURN = 3124 - 15748 in.lbs (Start of Spring)

SPRING RETURN = 1477 - 14880 in.lbs (min torque)

SPRING RETURN = 1761 - 17720 in.lbs (End of Spring)





### **■ Parts List**

Description	Otv	Comments	Notes
BODY	ı	Cast Steel	Epoxy Painted
LID	i	Cast Steel	Epoxy Painted
YOKE	i	Cast Steel	Zinc Plate
PISTON FLANGE	1	Steel	Epoxy Painted
END COVER	1	Steel	Epoxy Painted
PISTON HOUSING	1	Drawn Seamless Steel	Zinc Plated, Epoxy Painted
PISTON	-1	Steel	Zinc Plated
PISTON ROD	-1	Steel	Zinc Plated
FIXING BAR	4	Stainless Steel	
INDICATOR	-1	Nylon	Yellow Strip
YOKE BEARING, UPPER	-1	Bronze	
YOKE BEARING, LOWER	-1	Bronze	
STOP BOLT	2	Steel	
YOKE PIN	-1	Hardened Steel	
YOKE PIN BEARING	2	Steel	
PISTON BEARING	- 1	POM	Delrin
RETAINING PLATE	- 1	Steel	
END FLANGE, SPRING	-1	Steel	Epoxy Painted
SPRING END COVER	I	Steel	Epoxy Painted
SPRING HOUSING	ı	Steel	Zinc Plated, Epoxy Painted
SPRING PLUNGER	I	Steel	Zinc Plated
fixing bar, spring	4	Stainless Steel	
BASE, SPRING PACK	- 1	Steel	
SHAFT, SPRING PACK	ı	Steel	
TOP HAT, SPRING PACK	I	Steel	
YOKE MODULE BEARING	2	Bronze	
O Seal, Piston, Piston Flange, End Cover	6	Buna Nitrile	Viton Optional
O Seal, Piston Inner	-1	Buna Nitrile	Viton Optional
O Seal Piston Flange Inner	2	Buna Nitrile	Viton Optional
COMPRESSION SPRING OUTER	- 1	SiCr	
COMPRESSION SPRING MIDDLE	I	SiCr	
COMPRESSION SPRING INNER	I	SiCr	

