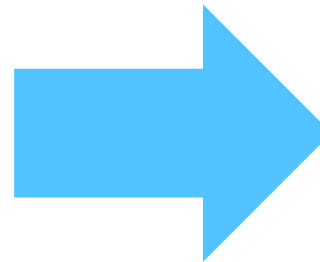
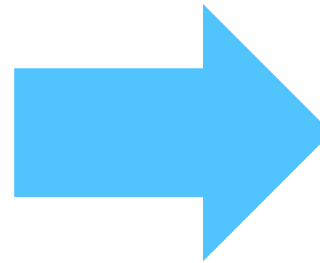


Switch Over Fact Sheet:

ADVC → ADN-S

AEVC → AEN-S



Comparison of ADVC/AEVC vs. new ADN-S /AEN-S

	ADVC/AEVC	ADN-S / AEN-S
Number of sizes	13 (4, 6, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 100)	10 (6,10,12, 16, 20, 25, 32, 40, 50, 63)
Standard-Stroke [mm] (depending on size and function)	2,5 ... 25	5 ... 50
Function	Single- and Double-acting	Single- and Double-acting
Sensor slots	C-Slots and T-Slots (dep. on size)	C-Slots and T-Slots (dep. on size)
Type of cushioning	P	P
Interfaces	Interfaces, position of the port and weight are different, due to new compact design of ADN-S and AEN-S	
Position of air ports		
Weight		

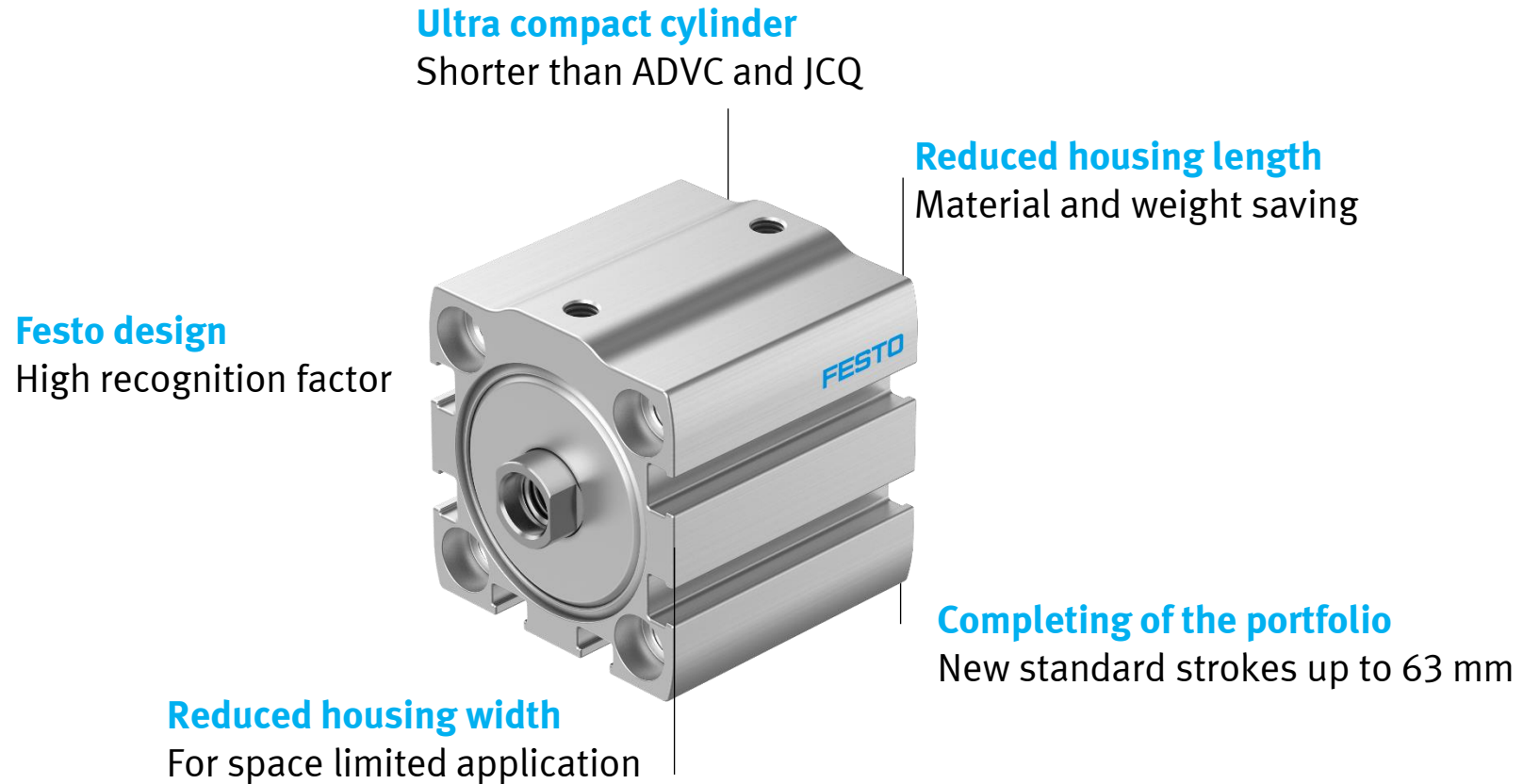
Main differences colored in blue

Comparison of ADVC/AEVC vs. new ADN-S /AEN-S

	ADVC/AEVC	ADN-S / AEN-S
Forces	Different, comparison see following pages	
Ambient temperature	- 20° ... +80° C	Size 6/10: -10° 60° C Size 12-63: 0°...+60° C
Corrosion resistance classification FN 940 070	CRC 1	CRC 1
Target-cycles for approval	10 Mio. cycles	10 Mio. cycles
Impact energy in the end-positions	small deviations exist, for details see data sheet	
Pressure range	equal	

Main differences colored in blue

ADN-S 12 ... 63 / Technical highlights



ADN-S 6/10 / Technical highlights

Better running performance
Precise machining in one body

Reduced housing length
Material and weight saving



New with female piston rod thread
Better connectivity

Reduced housing width
For space limited application

Multiple mounting options
Interfaces from two sides

Product description of the new ADN-S and AEN-S series

Drive types

- Double acting ADN-S
- Single acting AEN-S

Sizes

Size ø	Stroke mm	Cushioning
6, 10	5,10	P
12, 16	5...35	P
20, 25, 32, 40, 50, 63	5...50	P

Functions

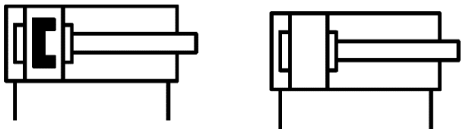
- Female piston rod thread



- Male piston rod thread



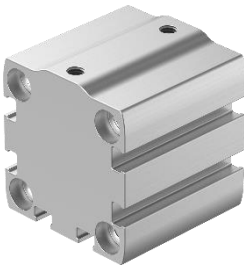
- With or without* magnet



Front



Back



size 40, 50, 63 always with magnet

* for size ø 6...32

ADN-S: Sizes, strokes and cushioning

size	stroke	cushioning	size	stroke	cushioning	size	stroke	cushioning	size	stroke	cushioning	size	stroke	cushioning
6/10	5	P	12	5	P	16	5	P	20	5	P	25	5	P
	10	P		10	P		10	P		10	P			
				15	P		15	P		15	P			
				20	P		20	P		20	P			
				25	P		25	P		25	P			
				30	P		30	P		30	P			
				35	P		35	P		35	P			
size	stroke	cushioning	size	stroke	cushioning	size	stroke	cushioning	size	stroke	cushioning	Portfolio change - ADVC size 4, 80 and 100 will be phased out with replacement - ADN-S with new strokes		
32	5	P	40	5	P	50	5	P	63	5	P			
	10	P		10	P		10	P		10	P			
	15	P		15	P		15	P		15	P			
	20	P		20	P		20	P		20	P			
	25	P		25	P		25	P		25	P			
	30	P		30	P		30	P		30	P			
	35	P		35	P		35	P		35	P			
	40	P		40	P		40	P		40	P			
	50	P		50	P		50	P		50	P			

Portfolio change

- ADVC size 4, 80 and 100 will be phased out without replacement
- **ADN-S with new standard strokes**

AEN-S: Sizes, strokes and cushioning

size	stroke	cushioning	size	stroke	cushioning	size	stroke	cushioning	size	stroke	cushioning	size	stroke	cushioning
6/10	5	P	12	5	P	16	5	P	20	5	P	25	5	P
	10	P		10	P		10	P		10	P			
	-	-		-	-		25	P		25	P			
size	stroke	cushioning	size	stroke	cushioning	size	stroke	cushioning	size	stroke	cushioning			
32	5	P	40	5	P	50	-	-	63	-	-			
	10	P		10	P		10	P		10	P			
	25	P		25	P		25	P		25	P			

Portfolio change

- AEVC size 4, 80 and 100 will be phased out without replacement
- AEN-S same standard strokes available then AEVC

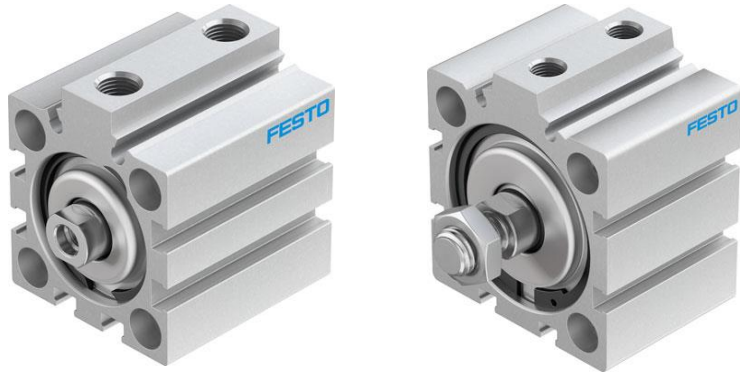
Design comparisons



ADVC/AEVC size 4 ... 25



ADN-S / AEN-S size 6 and 10



ADVC/AEVC size 32 ... 100



ADN-S / AEN-S size 25 ... 63

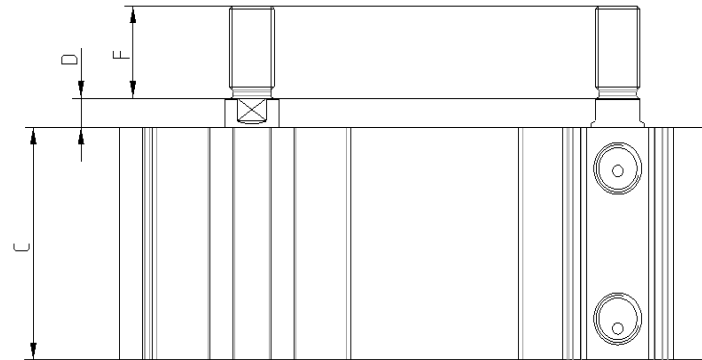
Dimensions comparison ADVC vs. ADN-S Ø 12-63

	ADVC*							
	ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63
A	20	25	32	38	45	53,5	63,5	75
B	22	27	34	37	52	60,5	70,5	82,8
C	18	18	22	22,5	29	29,5	28	35
D	4	4	5	5	6	6	8	8
E	13	15	20	26	32,5	38	46,5	56,5
F	8	12	12	12	14	14	16	16

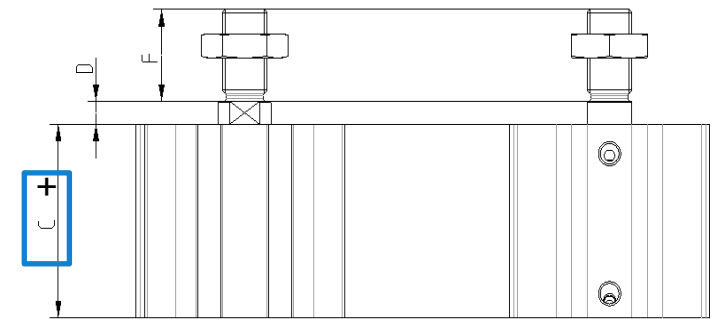
	ADN-S*							
	ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63
A	27	29	34,5	38,5	45	53	63	75
B	27,5	30	35,5	39,5	47	55	66	78,5
C	15,5	16	17,5	19	21,5	26	29	32
D	2,5	3	3	3,5	4	5	7	7
E	16	18	22	26	32,5	38	46,5	56,5
F	10	12	16	16	19	19	22	22

→ Shorter length with the same stroke

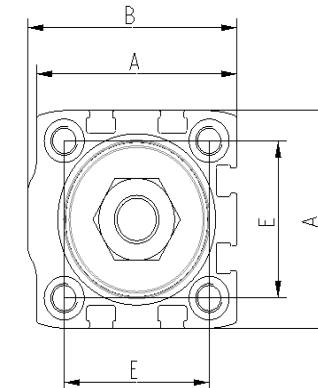
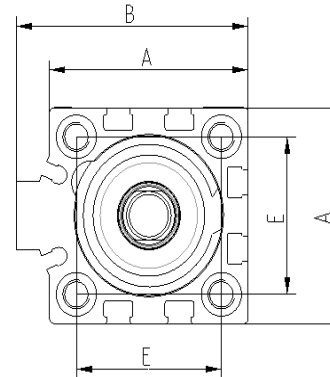
ADVC



ADN-S



+ additional stroke length



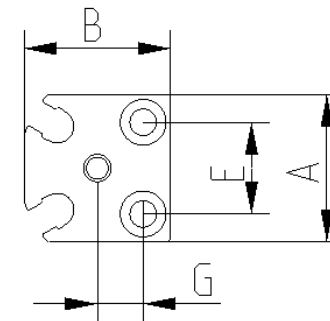
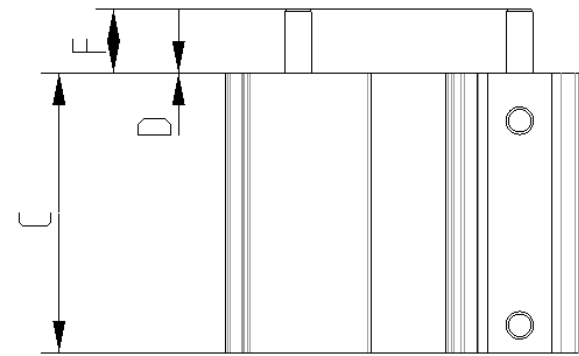
* w/o magnet for position detection

Dimensions comparison ADVC vs. ADN-S Ø 6/10

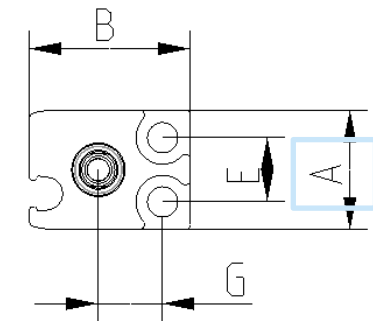
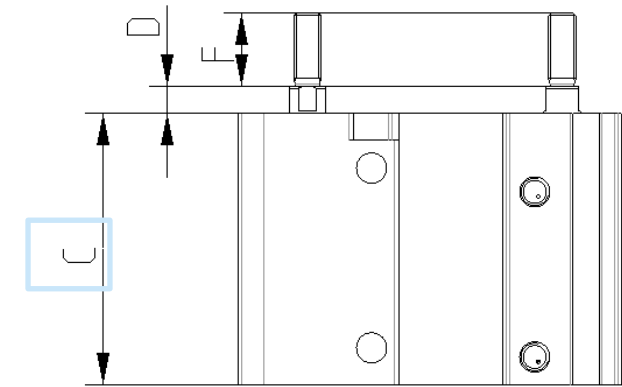
	ADVC*	
	ø6	ø10
A	13	18
B	14	19
C	11	21
D	1	1,5
E	7	11
F	6	8
G	6	8

	ADN-S*	
	ø6	ø10
A	13	13,5
B	17,5	20,5
C	15,5	15,5
D	3	3
E	7	7
F	7	7
G	7	8

ADVC



ADN-S



Shorter length with the same stroke → different position of air ports

* w/o magnet for position detection

Dimensions comparison with Festo PARTdataManager

Anzahl FEHA							
692							
neue Baureihe						ADVC - bestehend	
TN	Typ	Segmentierung	Baugrößen	Projektnummer	TN	Typ	
8092103	ADN-S-25-5-A-P	Complete range	C	25	218062	188187	ADVC-25-5-A-P
8092102	ADN-S-25-10-A-P	Complete range	C	25	218062	188188	ADVC-25-10-A-P
8092107	ADN-S-25-15-A-P	Complete range	C	25	218062	188189	ADVC-25-15-A-P
8092091	ADN-S-25-20-A-P	Complete range	C	25	218062	188190	ADVC-25-20-A-P

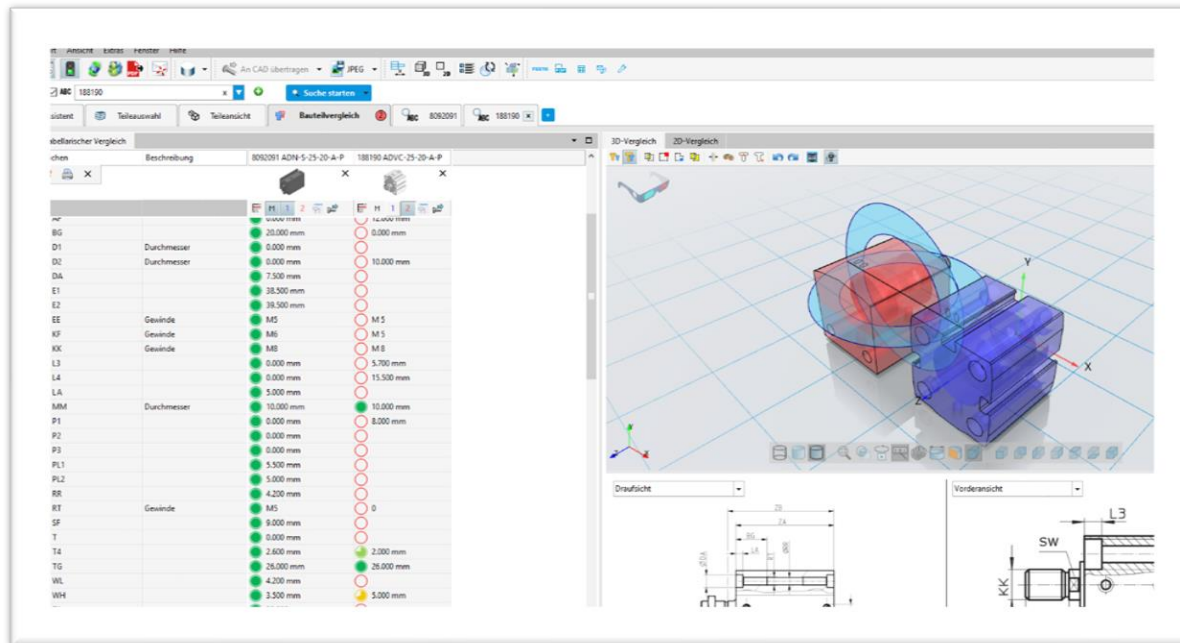
Due to new compact design of ADN-S and AEN-S, the dimensions are different to ADVC and AEVC.

For a detailed dimensions comparison of the products the Festo PARTdataManager is recommended.

Find the overview of old and new part numbers in the following Excel file:

[Link!](#)

Load the old and new products in the PARTdataManager and have a detailed product comparison.



Product labelling

ADVC / AEVC



Festo logo and product information
via label

ADN-S/AEN-S



Festo logo via label

data matrix code with link to
the Festo Support Portal

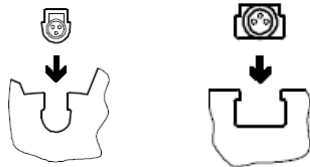
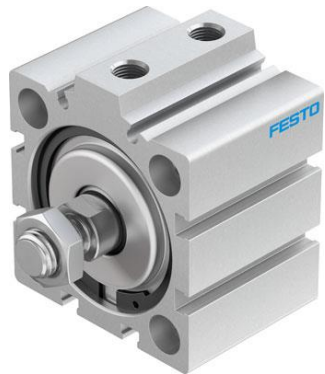
Product information, cylinder switch marking and product key with data matrix code **via laser printing**. For easy identification of components when it comes to replacement, even after years in a harsh environment.

Sensor Slots



C slot

size 4 ... 25



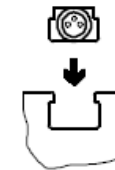
C and T sensor slot

size 32 ... 100



C sensor slot

size 6 and 10

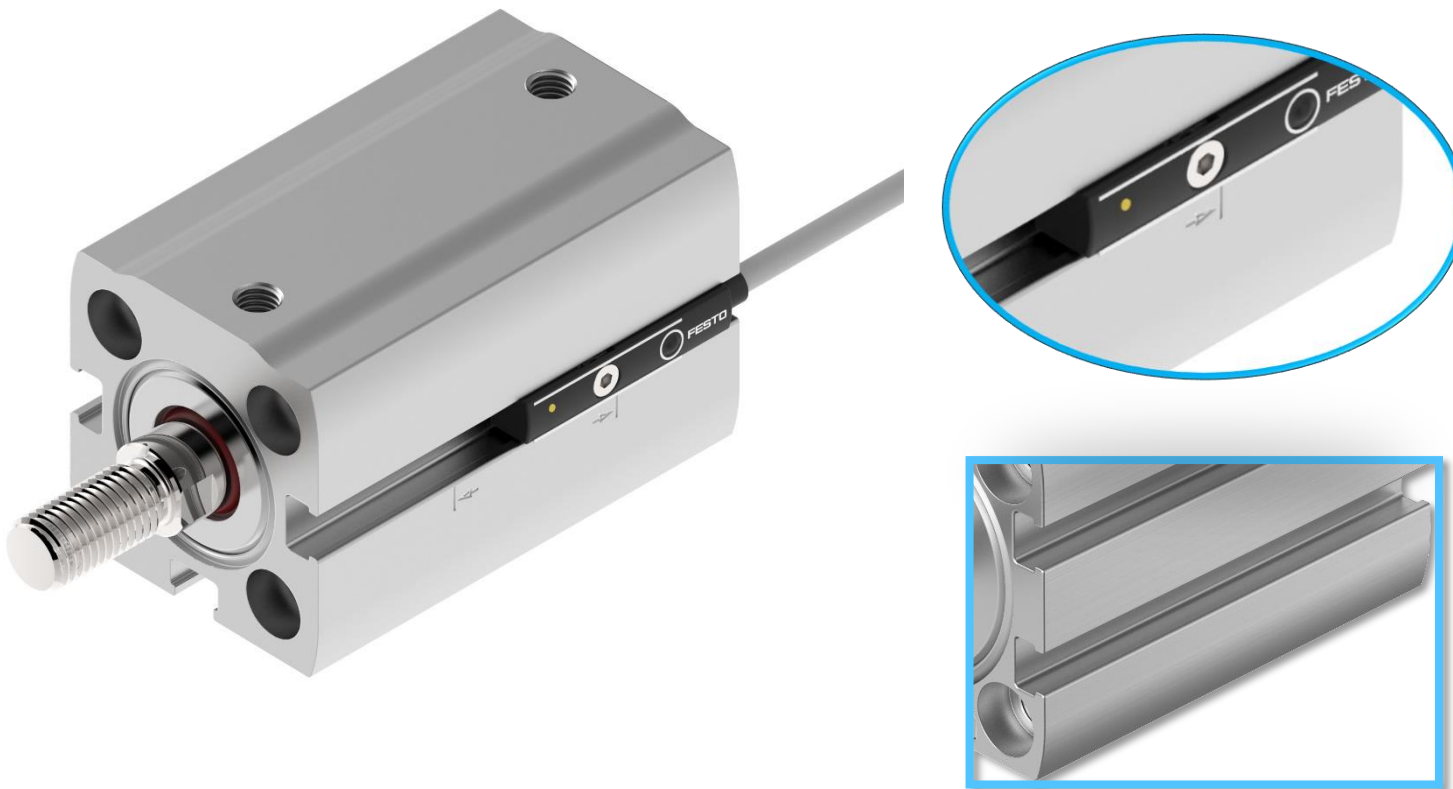


T sensor slot

size 25 ... 63

With the focus on **compactness** and the new generations of sensors and position transmitter, the design of the new ADN-S/AEN-S size 25 ... 63 is realized with T-sensor slots.

ADN-S and AEN-S: Cylinder installation and switch marking



The new ADN-S and AEN-S cylinders are coming as standard with a **cylinder switch marking** on the housing, which is very comfortable and saves a lot of time and money during installation process

Larger mounting range for cylinder switch, due to a continuous T-nut in the profile

Push-in fittings and one way flow control valves for ADN-S

QSM, GRLA/Z-D and the new VFOE

Dimension at the actuator regarding ISO 16030				
Size	Thread	Thread depth [mm]	Drilling depth [mm]	Recommended Fitting
ADN-S-6	M3			QSM
ADN-S-10	M3			QSM
ADN-S-12	M5	4,5	5,5	GRLA/GRLZ/VFOE
ADN-S-16	M5	4,5	5,5	GRLA/GRLZ/VFOE
ADN-S-20	M5	4,5	5,5	GRLA/GRLZ/VFOE
ADN-S-25	M5	4,5	5,5	GRLA/GRLZ/VFOE
ADN-S-32	M5	4,5	5,5	GRLA/GRLZ/VFOE
ADN-S-40	M5	4,5	5,5	GRLA/GRLZ/VFOE
ADN-S-50	G1/8	6	7	GRLA/GRLZ/VFOE
ADN-S-63	G1/8	6	7	GRLA/GRLZ/VFOE

Recommended fittings and control valves for the ADN-S / AEN-S are the QSM /..I, GRLA/GRLZ-D and the new VFOE



QSM



QSM-...-I



GRLA



VFOE

Where could be challenges in the switch over from ADVC to ADN-S and AEVC to AEN-S

- ADVC/AEVC size 4, 80 and 100 will be phased out without replacement.
- ADN-S / AEN-S cannot be opened without destruction → no repair of the cylinder possible
- ADN-S / AEN-S size 40, 50, 63 always **with magnet** → version without magnet is not available