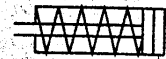
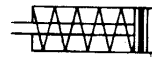
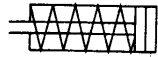


ISO standard
Festo quality

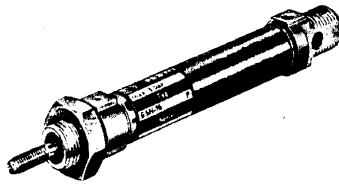
Standard cylinders



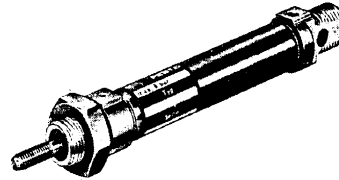
Single-acting cylinders



FESTO



Type ESN-...-P

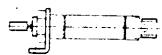


ESNU-...-P-A

Designed to meet the specifications of ISO 6432 with stainless steel barrel and roller burnished stainless rod as standard.

- Piston diameters from 8 to 25 mm
- Stroke lengths from 10 to 50 mm
- Extended spring guide
- Rolled piston rod threads for strength and precision
- Non-lubricated operation
- Magnetic sensing option with Type ESNU-...-P-A

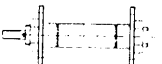
Accessories:



Foot mounting
Type HBN + piston dia. +1



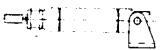
Foot mounting (pair)
Type HBN + piston dia. +2



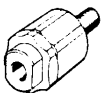
Flange mounting (front or rear)
Type FBN + piston dia.



Swivel mounting
Type WBN + piston dia.



Clevis foot mounting
Type LBN + piston dia.

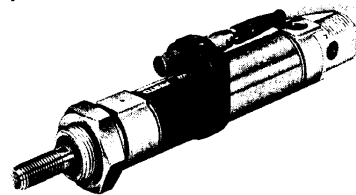


Rod-end couplings
Type FK, SG, SGS
(for details see page C.11/10)

Proximity switches

Type SME-8, SMT-8
SMEO, SMT0, SMPO
(for details see page F/1)

Position sensing with
proximity switches



Type	ESN-.../ESNU-...					
Piston dia. mm	8	10	12	16	20	25
Thrust N	20	35	50	90	148	250
Connection	M5	M5	M5	M5	G 1/8	G 1/8
Standard strokes mm	10	10	10	10	10	10
	25	25	25	25	25	25
	50	50	50	50	50	50

Max. permissible operating pressure 10 bar.
Force figures quoted for 6 bar (theoretical value).

Options:

S3

How to order: Standard: ESN + piston dia. + stroke length + end position cushioning
With sensing: ESNU + piston dia. + stroke length + end position cushioning + sensing

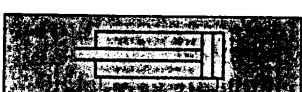
Example: Standard: Piston dia. 12 mm, stroke length 50 mm = ESN-12-50-P
With sensing = ESNU-12-50-P-A

For more information contact Festo

For dimensions see page D.1/21

Dimensions

Single and Double Acting Cylinders



Cylinder piston force and air consumption

FESTO

Cylinder Piston force and air consumption for double acting cylinders				Operating pressure p [bar]								
Piston diameter [mm]	Piston rod diameter [mm]	Stroke length [mm]	Force [N]* Air consumption [l/2 x stroke]	2	3	4	5	6	7	8	9	10
6	3	100	Thrust	5.7	8.5	11.3	14.1	17.0	19.8	22.6	25.5	28.3
			Return force	4.2	6.4	8.5	10.6	12.7	14.9	17.0	19.1	21.2
			Air consumption	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05
8	4	100	Thrust	10.1	15.1	20.1	25.1	30.2	35.2	40.2	45.3	50.3
			Return force	7.5	11.3	15.1	18.9	22.6	26.4	30.2	33.9	37.7
			Air consumption	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10