



APPLICATION

Hydraulic actuation of power chucks (full or partial hollow clamping).

TYPE

Clamping cylinders without through-hole for actuation pressures from 8-80 bar.

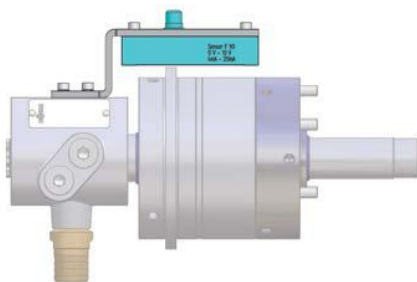
CUSTOMER BENEFITS

- ⊕ Compact design and low mass moment of inertia for low machine spindle load
- ⊕ Operational safety thanks to safety mechanism, guaranteed even if there is a pressure drop during spindle rotation
- ⊕ Flexible use thanks to possible horizontal or vertical installation position

TECHNICAL FEATURES

- Stroke control by means of inductive proximity system or linear path measuring system F90 (stroke control system not included in the scope of delivery)
- Through-hole for media feed-through
- For its actuation, we recommend hydraulic oil H-LP 32, DIN 51525 (32 centistokes at 40° Celsius)
- Insert a filter unit (10 µm) between the pump and control valve

Oil-operated actuating cylinders without through-hole



Stroke control with monitoring system F 90:

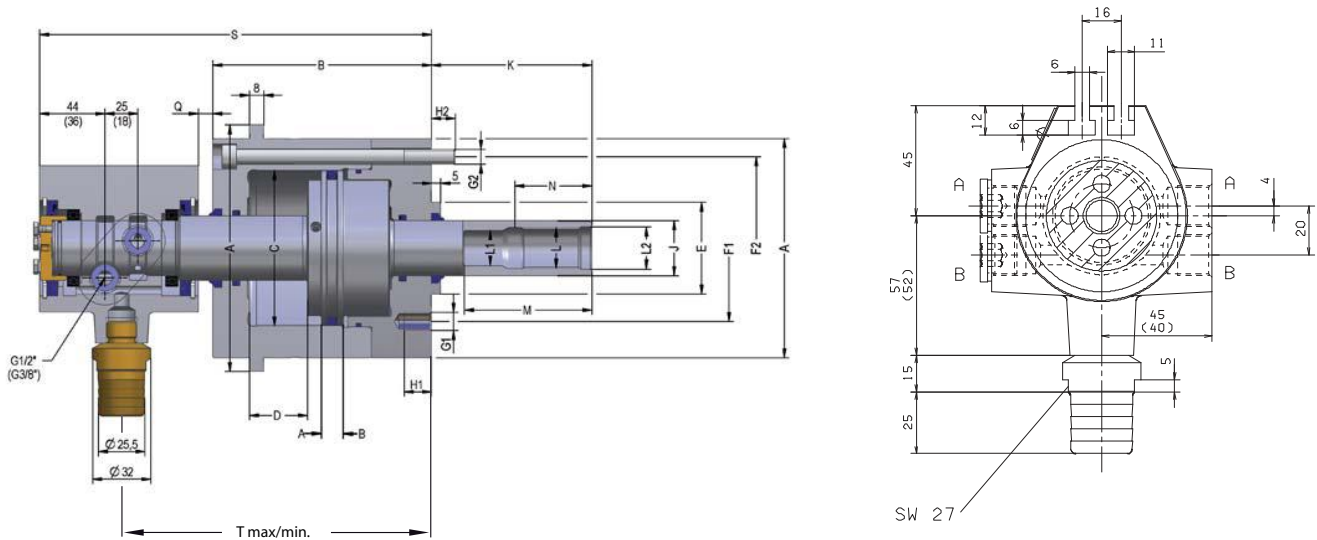
- High resolution and accuracy
- Minimal temperature drift
- Contactless
- Teaching mode
- Inductive principle of operation

With high and low pressure chucking the change-over of the safety valve is guaranteed when:

chucking pressure : releasing pressure =< 5,5 : 1 (Size 85 - 130)

chucking pressure : releasing pressure =< 3,8 : 1 (Size 150 - 200)

OVS

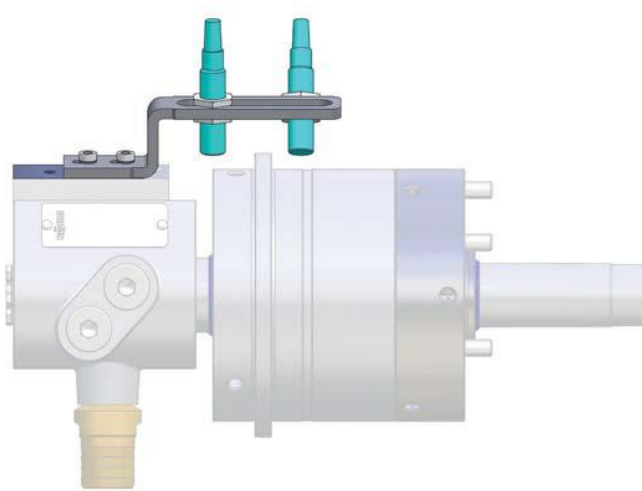


C 15
Oil-operated actuating cylinders without through-hole OVS, basic model, with safety device, up to 80 bar -
 Steel design for high speed, fastening from the rear, central through-hole

Item no.	438261	438262	438263	438264	438265
Size	85	105	130	150	200
Design	steel	steel	steel	steel	steel
A mm	120	140	165	193	245
A1 mm	135	155	180	208	260
B mm	120	120	120	147	164
C mm	85	105	130	150	200
Stroke D mm	32	32	32	45	50
Eh6 mm	50	50	80	95	125
F1 mm	80	80	105	145	170
F2 mm	100	120	145	170	220
G1	M10 (3x120°)	M10 (4x90°)	M12 (4x90°)	M16 (4x90°)	M16 (6x60°)
G2	M8 (6x60°)	M8 (6x60°)	M8 (8x45°)	M10 (8x45°)	M12 (8x45°)
H1 mm	15	15	18	24	29
H2 mm	13	13	13	14	19
J mm	30	32	42	50	70
K max.	88	88	82	98	108
K min.	56	56	50	53	58
L mm	M 22 x 1,5	M 22 x 1,5	M 30 x 2	M 36 x 2	M 48 x 2
L1 mm	19	19	26	30	42
L2 mm	23	23	32	38	50
M mm	70	70	88	105	125
Min. reach of draw bar N mm	43	43	65	78	90
Q max.	40	40	40	53	58
Q min.	8	8	8	8	8
S max.	252	247	247	307	329
S min.	220	215	215	262	279
T max.	202	202	202	250	272
T min.	170	170	170	205	222
Piston area A cm ²	47,1	77	116,8	160,8	298,2
Piston area B cm ²	49,7	78,6	118,9	157,1	275,7
Eff. draw bar pull (F=60 bar) kN	29,50	47	71,3	94	165,4
Max. admissible speed min ⁻¹	8000	8000	5000	5500	4500
Volume for full double stroke l	0,31	0,5	0,775	1,43	2,87
Moment of inertia J kgm ²	0,018	0,03	0,066	0,142	0,36
Weight approx. kg	10	12,7	17,7	31,4	49
Suitable connecting flange for Duoflow Rotating Unions	1022186	1022186	1022187	1022187	1022187

Oil-operated cylinders without through-hole

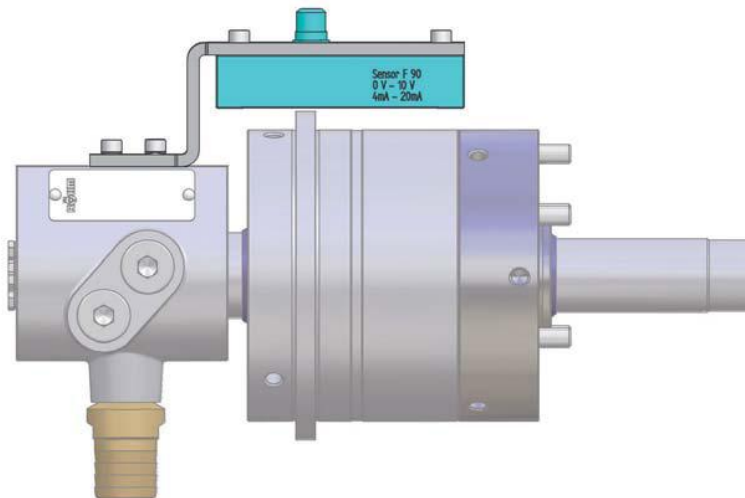
Stroke Monitors OVS



C 15
OVS-stroke monitoring by inductive proximity switches (Limit switch not included in the scope of delivery)

Item no.	Size
1159712	OVS 85
1159713	OVS 105
1159714	OVS 130
1159715	OVS 150
1159716	OVS 200

Order cylinder separately
 External rotary feed-throughs fitting Deublin/Rotoflux



Oil-operated cylinders
 without through-hole

C 15
OVS-stroke monitoring linear, inductive F90 (F90 system included)

Item no.	Size
1159707	OVS 85
1159708	OVS 105
1159709	OVS 130
1159710	OVS 150
1159711	OVS 200

Order cylinder separately
 External rotary feed-throughs fitting Deublin/Rotoflux