

TWIN VISES

Range of products



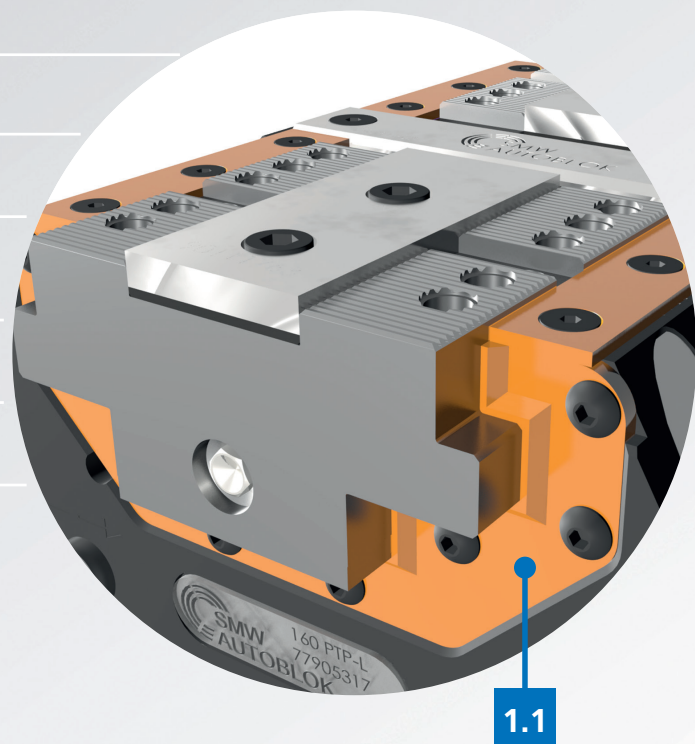
Industry 4.0
Product



1 PT - PROTECTED TWIN VISES

SIZES AVAILABLE 100-125-160-200-250

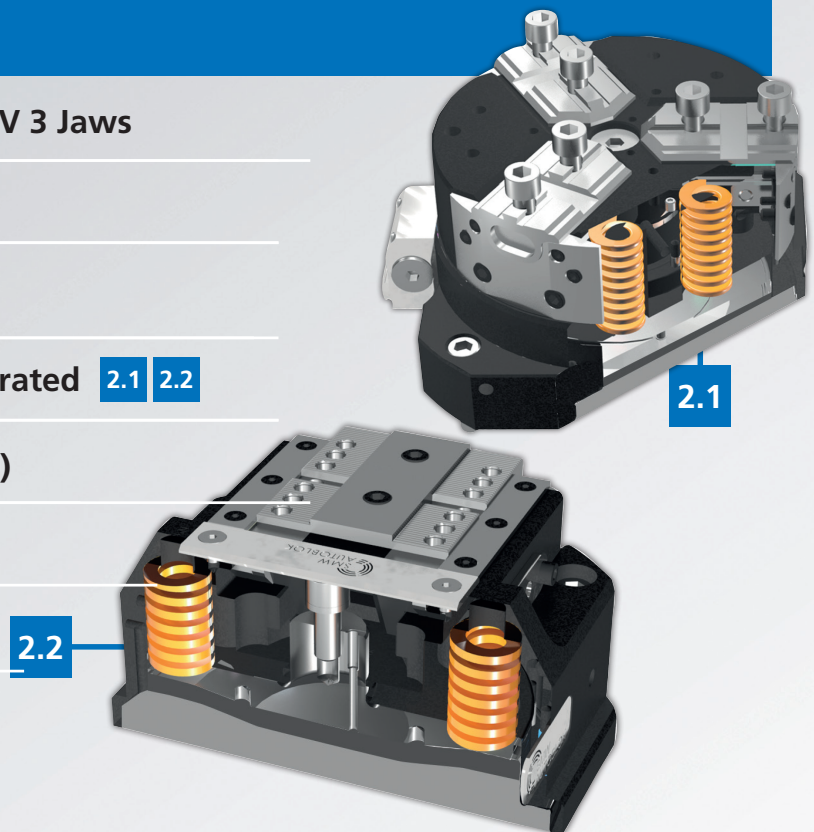
- ▶ Pneumatic and Hydraulic Version
- ▶ Pneumatic Valve (optional)
- ▶ Air Sensing
- ▶ Master jaws guide protected against swarf and chips **1.1**
- ▶ Normal Stroke
- ▶ Long Stroke
- ▶ Fixed Jaw



2 STV - SPRING AND AIR OPERATED TWIN VISES

SIZES AVAILABLE 180-225

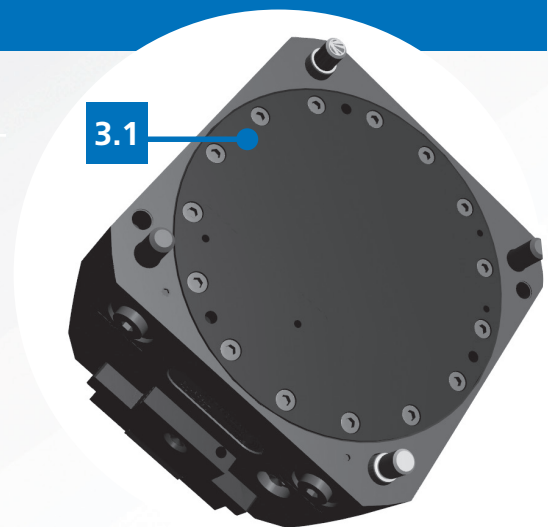
- ▶ STV 2 Jaws (also 125) and STV 3 Jaws
- ▶ Air Sensing
- ▶ Master jaws guide protected against swarf and chips
- ▶ Spring Clamped and Air Operated **2.1** **2.2**
- ▶ Safety Valve SAB-1 (optional)
- ▶ Pneumatic Valve (optional)
- ▶ Normal stroke **2.2**
- ▶ Long stroke



3 TV - STANDARD TWIN VISES

SIZES AVAILABLE 100-160-200-250-315

- ▶ Pneumatic and Hydraulic Version
- ▶ Air Sensing **3.1**
- ▶ Stroke control Proximity (optional)
- ▶ Normal Stroke
- ▶ Long Stroke
- ▶ Fixed Jaw



4 RR - QUICK JAWS CHANGE

PROTECTED TWIN VISE with QUICK CHANGE

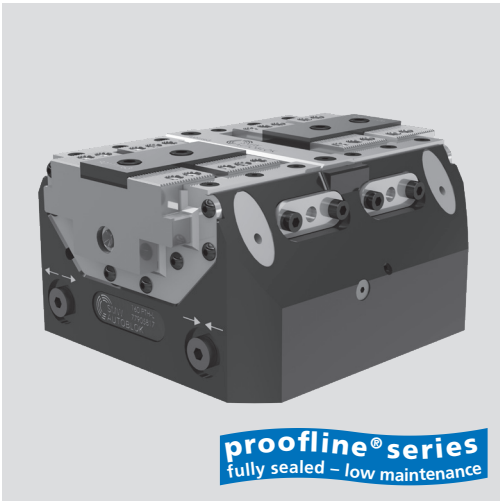
- ▶ Pneumatic and Hydraulic Version
- ▶ Long stroke
- ▶ OD and ID Clamping

PTH-N/PTH-L/PTH-F

PROTECTED HYDRAULIC TWIN VISE

- Hydraulic version
- Pneumatic open / close control (stroke control) master jaws valve

- PTH-N: Normal stroke
- PTH-L: Long stroke
- PTH-F: One fixed Jaw



proofline® series
fully sealed – low maintenance

Application/customer benefits

- Compact design
- Master jaws guide protected against swarf and chips
- Highest repeatability
- Highest rigidity
- Linear pressure adjustment

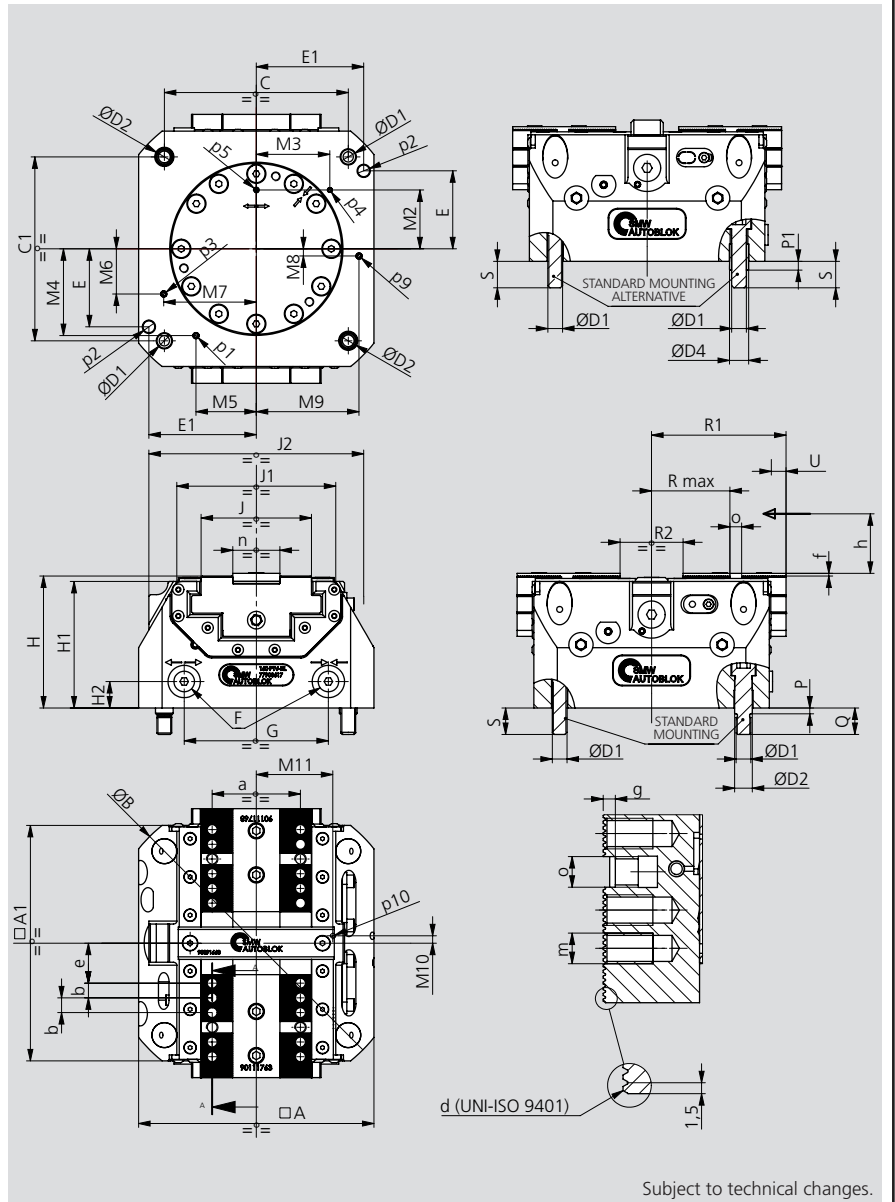
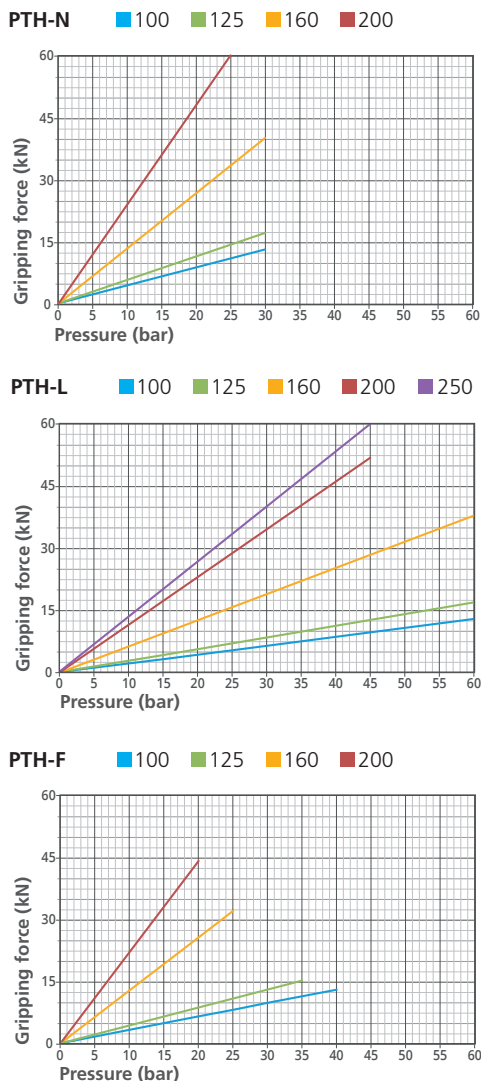
Technical features

- Housing and functional parts hardened for high precision and long life
- Ready for air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
- OD and ID clamping
- Pneumatic open / close control (stroke control) master jaws valve (optional)
- Air sensing
- Lubrication with SMW-AUTOBLOK K67 grease
- Stroke control via proximity switches (optional) on all types and sizes except 100 PTH-F
- 100 PTH-F: Only one stroke control via proximity switch for full closed vise

Standard equipment

Self-centering vise without top jaws
All bolts and centering bushings included

Gripping force diagrams



Subject to technical changes.

PTH-N/PTH-L/PTH-F

- Hydraulic version
- Pneumatic open / close control (stroke control) master jaws valve

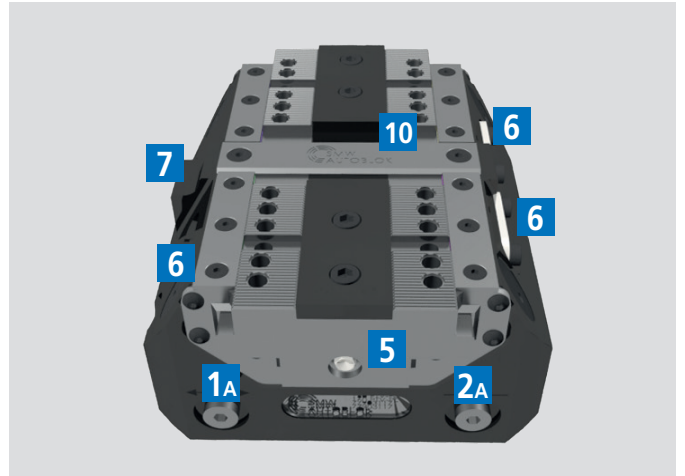
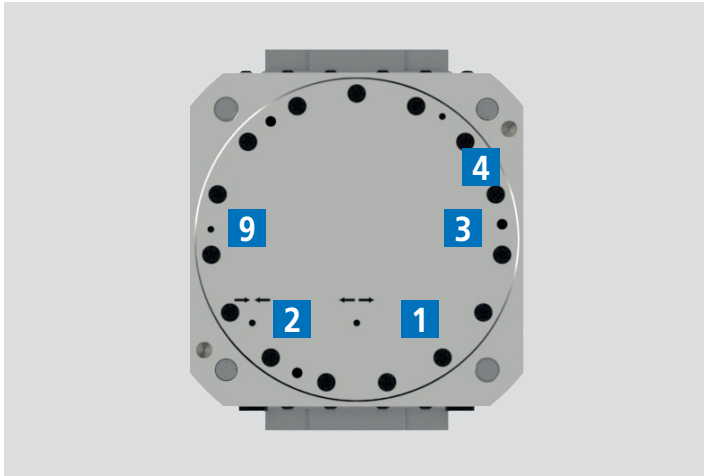
- PTH-N: Normal stroke
- PTH-L: Long stroke
- PTH-F: One fixed Jaw

PROTECTED HYDRAULIC TWIN VISE

Type	Id.No.	Stroke type	Stroke / jaw [mm]	Max. Clamping force [kN]	Piston area [cm ²]	Max. Operating pressure [bar]	Repeatability [mm]	Weight [kg]
100 PTH-N	77905711	NORMAL	2.6	13	15	30	0.01	6
100 PTH-L	77905811	LONG	6			60	0.01	
100 PTH-F	77905911	FIXED JAW	6			40	0.01	
125 PTH-N	77905712	NORMAL	2.6	17	20	30	0.01	8
125 PTH-L	77905812	LONG	6			60	0.01	
125 PTH-F	77905912	FIXED JAW	6			35	0.01	
160 PTH-N	77905717	NORMAL	3	40	45	30	0.01	15
160 PTH-L	77905817	LONG	8.4	38		60	0.01	
160 PTH-F	77905917	FIXED JAW	8.4	32		25	0.01	
200 PTH-N	77905721	NORMAL	4.2	60	68	25	0.02	25
200 PTH-L	77905821	LONG	10.2	52		45	0.02	
200 PTH-F	77905921	FIXED JAW	10.2	44		20	0.02	
250 PTH-L	77905826	LONG	15	60	113	45	0.02	35

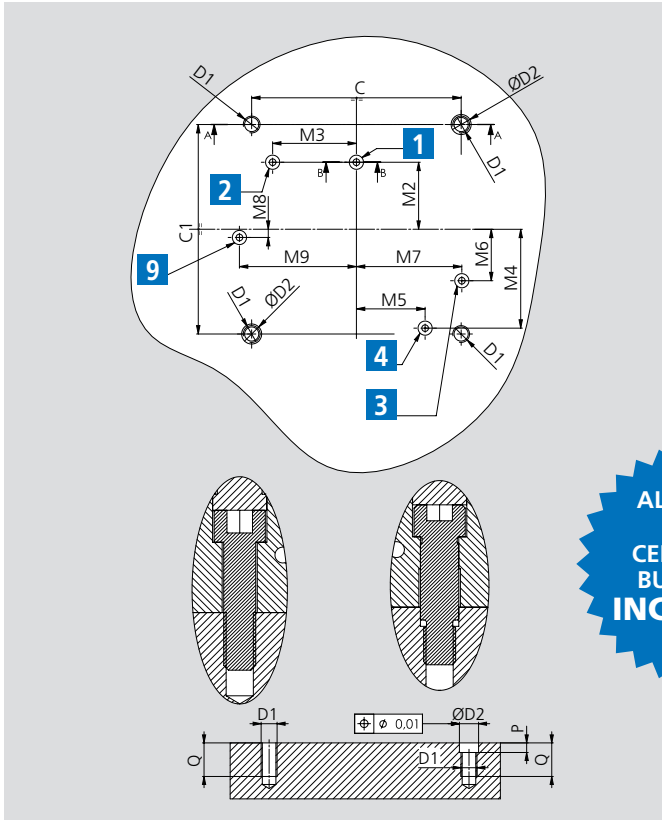
PTH		100	125	160	200	250	
	A	mm	100	125	160	200	210
	A1	mm	110	125	160	200	238
	B(Ø)	mm	136	162	205	255	300
	C	mm	80	100	125	160	180
	C1	mm	80	100	125	160	200
	D1(Ø)	mm	M8	M8	M10	M12	M12
	D2 (Øf7)	mm	10	10	12	14	14
	D4 (Øjs7)	mm	11	11	13	16	16
	E	mm	32	/	53	73	80
	E1	mm	45	/	73	92	90
	F	mm	G1/8"	G1/8"	G1/8"	G1/8"	G1/8"
	G	mm	56	57	98	128	90
	H	mm	75,5	80,5	89,7	97	105
	H1	mm	72	77	86	93	100
	H2	mm	15	17	18	18	20
	J	mm	47	47	75	94	125
	J1	mm	82	100	108	144	180
	J2	mm	100	121	146	166	-
	M2	mm	32	32	40	50	80
	M3	mm	29.5	29.5	50	65	45
	M4	mm	34,2	40,5	59	72,8	89,8
	M5	mm	27,7	38,5	41	52,9	65,2
	M6	mm	14,2	10,6	30,7	39,5	0
	M7	mm	41,1	54,5	62,9	80,9	92
	M8	mm	8,3	4,8	4,9	9,4	6,7
	M9	mm	42,7	55,3	69,8	89,5	76,7
	M10	mm	5	5	5	8	9
	M11	mm	34	34	52	60	78
	P	mm	4	4	4	5	5
	P1	mm	4	4	6	6	6
	Q	mm	15	15	18	20	20
Min. / max. (long stroke)	R max	mm	25.6/31.6	25.6/31.6	44.8/53.2	54.5/64.7	51,5/66,5
Min. / max. (normal stroke)	R max	mm	25,4/28	25,4/28	45/48	54,5/58,7	-
Min. / max. (fixed jaw)	R max	mm	25.6/31.6	25.6/31.6	44.8/53.2	54.5/64.7	-
Min. / max. (long stroke)	R1	mm	57.5/63.5	64,5/70,5	82,5/90,9	102,5/112,7	119,5/134,5
Min. / max. (normal stroke)	R1	mm	57.4/60	64,4/67	82.5/85.5	102.8/107	-
Min. / max. (fixed jaw)	R1	mm	57.5/63.5	64,5/70,5	82.5/90.9	102.5/112.7	-
Min. / max. (long stroke)	R2	mm	20/32	20/32	26/42.8	30/50.4	39/69
Min. / max. (normal stroke)	R2	mm	19.8/25	19.8/25	26/32	30.6/39	-
Min. / max. (fixed jaw)	R2	mm	20/26	20/26	26/34.4	30/40.2	-
	S	mm	15	15	18	20	20
Long stroke	U	mm	6	6	8.4	10.2	15
Normal stroke	U	mm	2.6	2.6	3	4.2	-
Fixed jaw	U	mm	6	6	8.4	10.2	-
	a	mm	35	35	60	80	90
	b	mm	7	7	10	10	12
Serration	d	mm	1,5x60°	1,5x60°	1,5x60°	1,5x60°	1,5x60°
Min. / max. (long stroke)	e	mm	14.6/20.6	14.6/20.6	18.8/27.2	28.5/38.7	32,5/47,5
Min. / max. (normal stroke)	e	mm	14.4/17	14.4/17	19/22	28.5/32.7	-
Min. / max. (fixed jaw)	e	mm	14.6/20.6	14.6/20.6	18.8/27.2	28.5/38.7	-
	f	mm	1.8	1.8	1.8	2	2,5
	g	mm	2.7	2.7	3.2	4	4
	h	mm	16	16	25	35	40
	m	mm	M6x10	M6x10	M8x12	M8x12	M10x15
	n (g6)	mm	20	20	32	40	50
	o (H7)	mm	6	6	8	8	10
Lubrication fitting	p1	mm	M4	M4	M5	M5	M5
	p2 (øH7)	mm	/	/	8x14	8x14	10x20
Pneumatic open / close - stroke control master jaws or air purge	p3	mm	M4	M4	M5	M5	M5
Vise closed	p4	mm	M4	M4	M4	M4	M5
Vise open	p5	mm	M4	M4	M4	M4	M5
Air sensing connection	p9	mm	M4	M4	M5	M5	M5
Air sensing outlet (under front plate)	p10	mm	M4	M4	M4	M4	M5

- Mounting instructions
- also for the RR version



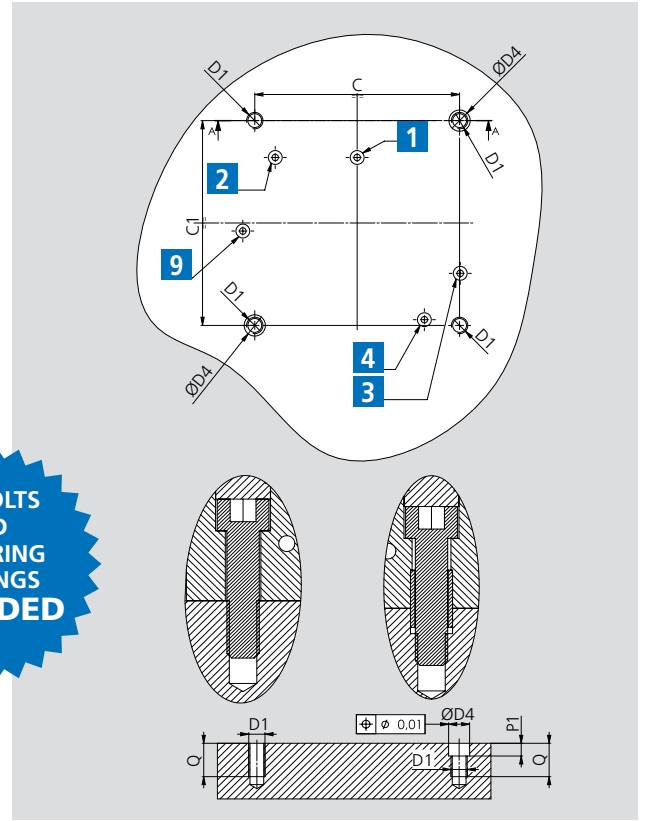
SOLUTION 1 STANDARD

± 0.03 mm to clamping center



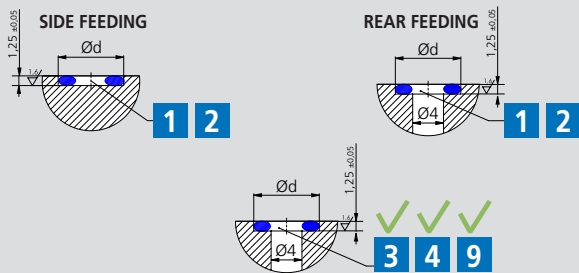
SOLUTION 2 STANDARD

± 0.025 mm to clamping center



ALL BOLTS AND CENTERING BUSHINGS INCLUDED

FEEDING SEATS: OBLIGATED EXECUTION



- 1** Open-Rear feeding
- 2** Closed-Rear feeding
- 3** Pneumatic open / close stroke control or air purge connection*
- 1A** Open-Side feeding
- 2A** Closed-Side feeding
- 4** Central lubrication
- 5** Lubrication fitting
- 6** Proximity switch seats
- 7** Pneumatic open/close -stroke control-m.j.valve (optional)
- 9** Air sensing connection (only bottom)
- 10** Air sensing outlet (under front plate)

*The air purge can be used only without the valve.

PT	C	C1	D1	D2H7	D4H7	M2	M3	M4	M5	M6	M7	M8	M9	P	P1	Q	Ød	OR
100	80	80	M8	10	11	32	29.5	34.2	27.7	14.2	41.1	7	43	6	6	18	8	OR2018
125	100	100	M8	10	11	32	29.5	40.5	38.5	10.6	54.5	4.8	55.3	6	6	18	8	OR2018
160	125	125	M10	12	13	40	50	59	41	30.7	62.9	4.9	69.8	6	7	21	8	OR2018
200	160	160	M12	14	16	50	65	72.8	52.9	39.5	80.9	9.4	89.5	7	7	24	8.8	OR2021
250	180	200	M12	14	16	80	45	89.8	65.2	0	92	6.7	76.7	7	7	24	8.8	OR2021