

Cartridge
couplings

Series 57
Series 85



WALTHER cartridge coupling elements for tool machines

Series 57 and 85

Description:

Compact cartridge couplings for customer's cavities.

These elements are especially used for the tool change in machining centers to supply the tools with:

- hydraulic oil for clamping (up to 200 bar working pressure, type 85 as special version up to 350 bar max.)
- oil water mixture for cooling
- air for blowing off

Connection and disconnection should be carried out without pressure.

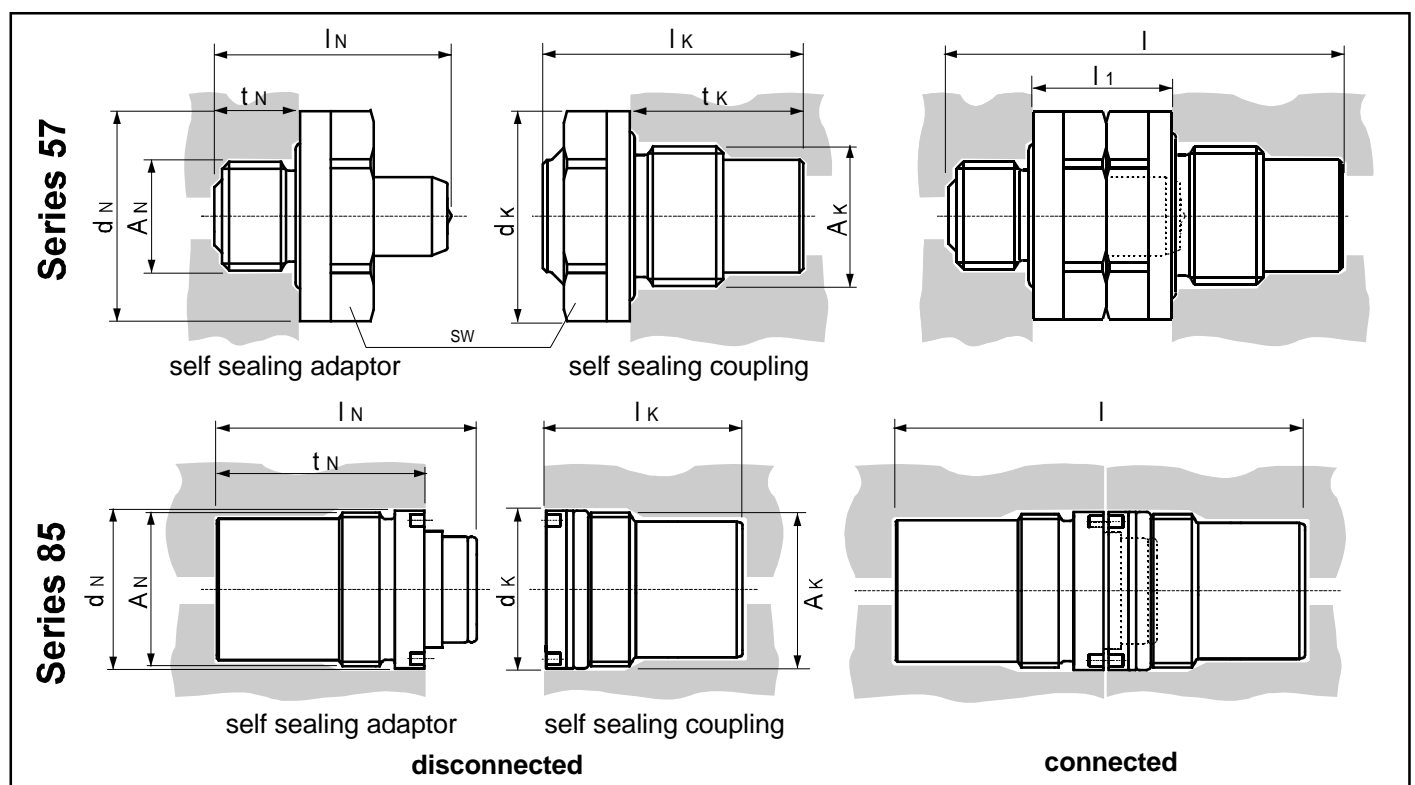
For the clamping of work pieces at pallet changers also other special coupling types besides the series 85 are suitable, too.

Features Series 57 (for the tool change):

- clean break valves (extremely leakage minimized and squirt free)
- very small mounting dimensions in relation to nominal bore and pressure resistance
- protected seal between coupling and adaptor element by radial mounting
- material stainless steel 1.4104 V with FPM (Viton)seals
- max. permissible side to side misalignment $\pm 0,5$ mm
- max. permissible angular misalignment $\pm 0^\circ$

Features Series 85 (for the clamping of work pieces and devices):

- clean break valves (extremely leakage minimized and squirt free)
- high couple frequency, heavy duty use
- flush mounting of machine side coupling half
- the plate side half protrudes only 8,2 (type 85-006) resp. 9,2 mm (type 85-010) in the disconnected condition
- protected seal between coupling and adaptor element by radial mounting
- can be connected against differential pressures of up to max. 40 resp. 60 bar
- material: steel oil burnished
- max. permissible side to side misalignment $\pm 0,3$ mm
- max. permissible angular misalignment $\pm 0,15^\circ$



WALTHER cartridge coupling elements for tool machines Series 57 and 85

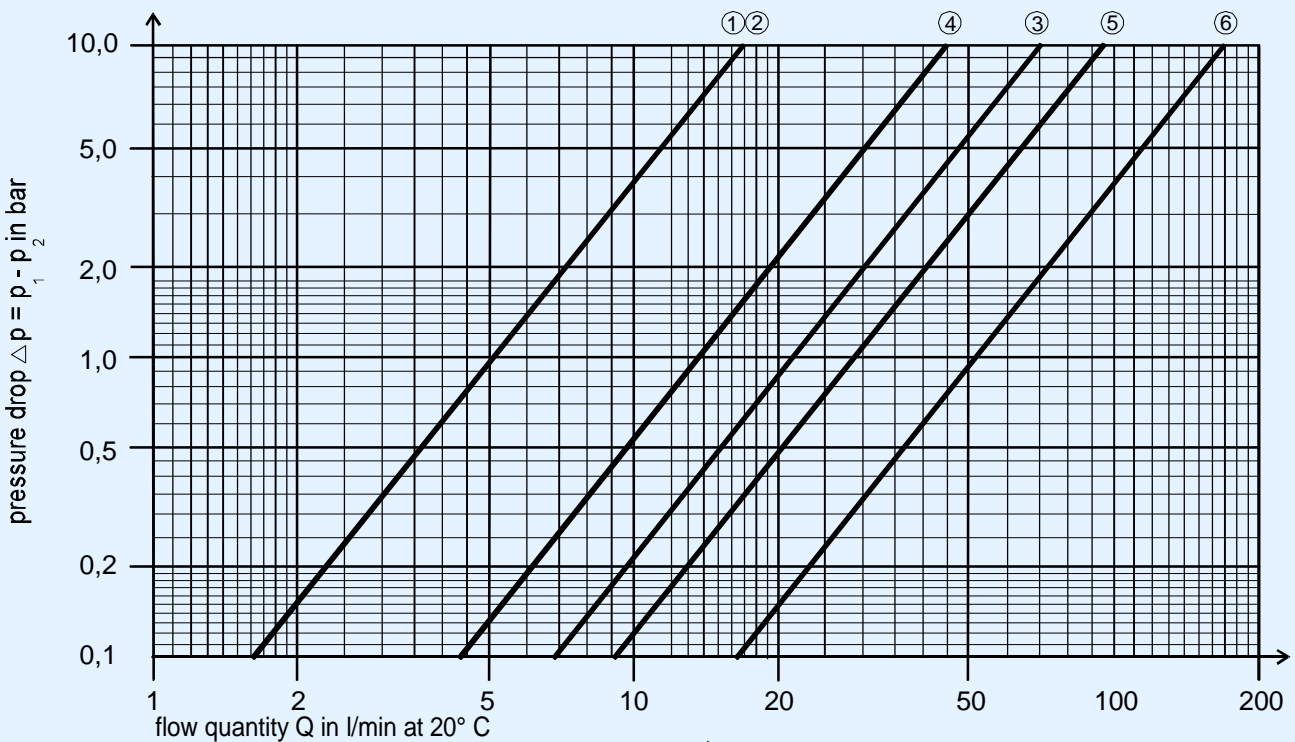
coupling type	main dimensions										
	l _N	l _K	l	l ₁	t _N	t _K	d _N /d _K	A _N	A _K	SW	p _{max.} *2
57-G06	29,7	31,6	50,0	17,9	10,7	20,7	∅ 21	M 12x1,5	M 14x1,5	19	70
57-G08	29,95	33,5	51,3	18	11	22,3	∅ 27	M 14x1,5	M 18x1,5	24	200
57-G12	41,2	40	64	18	17	29	∅ 30	M 20x1,5	M 22x1,5	27	80
57-G16	62,1	62,8	96,7	18	24	54,7	∅ 50	M 27x2	M 36x2	46	80
85-006	34,7	32	59,0	—	26,5	l _k 32	24	M 24 x1,5	M 24x1,5	—	240
85-010 *1	45,7	34,5	71,5	—	36,4	l _k 34,5	27,8	M 27x1,5	M 27x1,5	—	240

*1 (in planning stage)

*2 max. working overpressure in connected condition

performance diagram 57-G06, 57-G08, 57-G12, 57-G16, 85-006 und 85-010

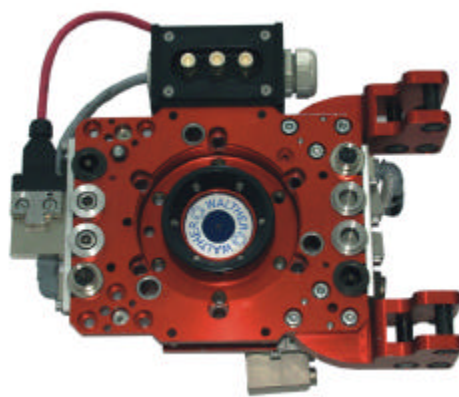
Flow values Cv: measured according to DIN IEC 534 with medium water, flow direction coupling → adaptor



- ① 57-G06 Cv=0,37 ② 57-G08 Cv =0,37 ③ 57-G12 Cv=1,55
 ④ 85-006 Cv=0,9 ⑤ 85-010 Cv=2,03 ⑥ 57-G16 Cv=3,58

For every application the correct coupling

cartridge elements in machining centers



tool changes to spot welding robot in automobile production

docking system to connect tools in large presses



docking systems for transfer lines and test devices



and more than 30.000 further variants for applications.



WALTHER PRÄZISION - Wka - state 01/2003 - subject to alterations

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Quick Coupling Systems