

Type UK

Cross-over valve combination with 3- or 4-way valves

- cost-effective combination of different valve types and sizes

DN 25 - 600 / PN 10 - 160
NPS 1 - 24 / Class 150 - 900

Range of application:
-60 < T < 230/280°C
vacuum-capable

Design characteristics

- 90°-Valve / Quarter-Turn synchronous combination
- 2-way or multiway valves for filter cycles, pump cycles, reactor cycles or cooling cycles
- 90° and 120° valves
- cost-effective and reliable
- Multiway combination for parallel operation
- available with hand lever, gearbox and actuator

Options

- special materials
- continuous 90° / 120° shift by additional ratchet coupling, type SSK

Type UK-V

3-way combination, screwed design



Type UK-L

4-way combination, loose design



All types of AZ-valves combinable with different valve types and sizes

Applications for

- exchange
 - maintenance
 - regeneration
- of individual components without process interruption

- To avoid misalignment of the plug-axis, in case of wrong assembling, we recommend the screwed design TYPE "UK-V" of our crossover-valve-combinations

- Individual selection of the piping centreline dimension (RMA) minimum size = RMA_{min}

For selection of multi-way valves and plug types see page 36

RMA

Durable

- Sealing surfaces remain clean and do not come in contact with medium
- plug protection
- adjustable
- constant torque (Δp independent !)

Plug valves benefits

- free of cavities
- large sealing surface
- double sealing (shutoff)
- protection of the plug sealing



Operating principle with 3-way and 4-way plugs

Service switchover	Parallel operation switchover
Examples of pump service	Examples of air drying
<p>Cross-over valve combination with two 3-way valves for simple exchange or repairing of a pump without stopping the process</p> <p>Description</p> <ul style="list-style-type: none"> break-down of pump 1 switching to pump 2 without interruption of the continuous flow replacement of pump 1 <p>Same procedure with other plant components, e.g. filters etc.</p>	<p>Cross-over valve combination with two 4-way valves (with LL4 plug type) for purging or regeneration of components without stopping the process</p> <p>Description</p> <ul style="list-style-type: none"> Drying plant 1 for providing dry process air is saturated with water switching to plant 2 without interruption of the continuous flow Regeneration of the drying plant 1 and draining of condensates

Type UK Technical information

Type UK with plug stem extension (T-wrench)		Type UK with gearbox		Type UK with pneumatic actuator									
DN	PN	L [mm]	L2 [mm]	NPS	L [mm]	L2 [mm]	Valve 1	Valve 2	R [mm]	RMA _{min} [mm]	T-wrench	gearbox	
für Typ ISO-STANDARD, PN 10 - 40 gemäß DIN EN 1092-1 / 558	15	10 - 40	130	65	1/2"	150	108	54	15	20	250	200	270
	20	10 - 40	150	75	3/4"	150	140	70				200	270
	25	10 - 40	160	80	1"	150	118	59	20	25	250	210	280
	32	10 - 40	180	90		300	152	76				200	270
	40	10 - 40	200	100	1 1/2"	150	127	64	25	40	250	210	280
	50	10 - 40	230	115		300	165	83				240	310
	65	10 - 40	290	245	2"	150	165	82,5	40	50	400	220	280
	80	10 - 40	310	155		300	191	95				240	320
	100	10 - 40	350	175	3"	150	178	89	50	65	500	270	330
	125	10 - 40	325	162		300	216	108				260	340
	150	10 - 40	350	200	4"	150	203	102	80	80	500	290	350
	200	10 - 40	400	220		300	283	142				310	360
250	10 - 40	450	275	5"	150	228	152	100	100	500	310	370	
					300	305	172				340	380	
				6"	150	254	178	150S	150	500	340	380	
					300	325	163				340	380	
				8"	150	267	191	200	200	500	340	400	
					300	403	216				340	400	
				10"	150	292	228	150	150	500	340	450	
					300	418	254				340	450	
				12"	150	330	331	200	200	500	340	510	
					300	457	331				340	510	
					150	356	349	250	250	500	340	590	
				300	502	356	340				590		
								250	250	500	340	690	
											340	690	
								250	250	500	340	720	
											340	720	
								250	250	500	340	750	
											340	750	

*) UK design with gearbox
 other nominal sizes on request
 Specify desired dimension (RMA), minimum size = RMA_{min}

Order Example: UK-V-240-1.4408-KSV, H1-F-3-W-DN50-PN40, H2-F-3-S-DN25-PN40

UK = type, V = screwed, 240 = RMA, 1.4408 = body material, KSV = plug stem extension, H1 = valve 1, F = flange, 3 = three-way, W = horizontal third entry, DN50 = size, PN40 = rating, H2 = valve 2, F = flange, 3 = three-way, S = vertical third entry, DN25 = size, PN40 = rating