Operator	Flowable	Observable	Maybe	Single	Completable
all	②	②	O ₍₁₎	O ₍₁₎	O ₍₂₎
amb	\bigcirc	\bigcirc			
ambArray	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
ambWith	\bigcirc	\bigcirc	\bigcirc	⊘	\bigcirc
andThen	$O_{(3)}$	$O_{(3)}$	$O_{(3)}$	$O_{(3)}$	\bigcirc
any	②	⊘	$O_{(1)}$	$O_{(1)}$	$O_{(2)}$
blockingAwait	$O_{(4)}$	$O_{(4)}$	$O_{(5)}$	$O_{(5)}$	⊘
blockingFirst	⊘	⊘	$O_{(6)}$	$O_{(6)}$	$O_{(7)}$
blockingForEach	⊘	②	$O_{(8)}$	$O_{(8)}$	$O_{(8)}$
blockingGet	$O_{(4)}$	$O_{(4)}$	⊘	⊘	$O_{(7)}$
blockingIterable	••	⊘	$O_{(6)}$	$O_{(6)}$	$O_{(7)}$
blockingLast	\bigcirc	O	$O_{(6)}$	$O_{(6)}$	$O_{(7)}$
blockingLatest	\bigcirc	O	$O_{(6)}$	$O_{(6)}$	$O_{(7)}$
blockingMostRece		O	$O_{(6)}$	$O_{(6)}$	$O_{(7)}$
blockingNext	\bigcirc	O	$O_{(6)}$	$O_{(6)}$	$O_{(7)}$
blockingSingle	\bigcirc	©	$O_{(6)}$	$O_{(6)}$	$O_{(7)}$
blockingStream	\bigcirc	\bigcirc	$O_{(6)}$	$O_{(6)}$	$O_{(7)}$
blockingSubscrib	. <u>S</u>	Ø	\bigcirc	\bigcirc	\bigcirc
buffer	\bigcirc	0	$O_{(9)}$	$O_{(10)}$	$O_{(11)}$
cache	\bigcirc	O	\bigcirc	\bigcirc	\bigcirc
cacheWithInitia	l Ç acity	\bigcirc	$O_{(12)}$	$O_{(12)}$	$O_{(12)}$

Operator	Flowable	Observable	Maybe	Single	Completable
cast)	②	②	②	O ₍₂₎
collect	>	\bigcirc	$O_{(13)}$	$O_{(14)}$	$O_{(1)}$
collectInto	>	\bigcirc	$O_{(13)}$	O ₍₁₄₎	O (1
combineLatest	>	\bigcirc	$O_{(16)}$	$O_{(16)}$	O _{(1'}
combineLatestArra	>	\bigcirc	$O_{(18)}$	$O_{(18)}$	$O_{(1)}$
combineLatestArra	$\mathbf{j}_{ exttt{elayErr}}$		$O_{(18)}$	$O_{(18)}$	$O_{(2)}$
combineLatestDel		\bigcirc	$O_{(16)}$	$O_{(16)}$	$O_{(2)}$
complete	$O_{(22)}$	$O_{(22)}$	$O_{(22)}$	$O_{(23)}$	⊘
compose		⊘	⊘	⊘	Ø
concat	2	⊘	⊘	⊘	Ø
concatArray		⊘	⊘	⊘	⊘
concatArrayDelay	or	⊘	⊘	⊘	⊘
concatArrayEager		⊘	⊘	⊘	$O_{(2)}$
concatArrayEager	ayError	\bigcirc	\bigcirc	⊘	$O_{(2)}$
concatDelayError	2	\bigcirc	\bigcirc	⊘	\bigcirc
concatEager	2	\bigcirc	\bigcirc	\bigcirc	$O_{(2)}$
concatEagerDelay	or	\bigcirc	\bigcirc	\bigcirc	$O_{(2)}$
concatMap	2	\bigcirc	\bigcirc	\bigcirc	$O_{(2)}$
concatMapCompleta		\bigcirc	©	\bigcirc	$O_{(2)}$
concatMapCompleta	Z eDelayE	r y r	$O_{(29)}$	$O_{(29)}$	$O_{(2)}$
concatMapDelayEr	A	\bigcirc	$O_{(30)}$	$O_{(30)}$	$O_{(2)}$

Operator	Flowable	Observable	Maybe	Single	Completable
concatMapEager	②	②	O ₍₃₁₎	O ₍₃₁₎	O ₍₂₈₎
concatMapEagerDe	Error	\bigcirc	$O_{(31)}$	$O_{(31)}$	$O_{(28)}$
concatMapIterabl		\bigcirc	$O_{(32)}$	$O_{(32)}$	$O_{(28)}$
concatMapMaybe	\bigcirc	⊘	$O_{(33)}$	\bigcirc	$O_{(28)}$
concatMapMaybeDe	Error	②	$O_{(34)}$	$O_{(34)}$	$O_{(28)}$
concatMapSingle	⊘	⊘	⊘	$O_{(35)}$	$O_{(28)}$
concatMapSingleD) SayError	②	$O_{(36)}$	$O_{(36)}$	$O_{(28)}$
${\tt concatMapStream}$	\bigcirc	⊘	$O_{(37)}$	$O_{(37)}$	$O_{(28)}$
concatWith	\bigcirc	⊘	\bigcirc	⊘	\bigcirc
contains	\bigcirc	O	\bigcirc	Ø	$O_{(2)}$
count	\bigcirc	O	V	$O_{(38)}$	$O_{(39)}$
create	\bigcirc	0	⊘	\bigcirc	\bigcirc
debounce	\bigcirc	⊘	$O_{(40)}$	$O_{(40)}$	$O_{(41)}$
defaultIfEmpty	⊘	⊘	$\overline{\mathbf{v}}$	$O_{(23)}$	$\bigcirc^{(42)}$
defer	$\overline{\mathbf{v}}$	V	<u> </u>		
delay	\bigcirc	\bigcirc	$\overline{\mathbf{v}}$	<u> </u>	$\overline{\mathbf{v}}$
delaySubscriptio	. <u></u>	O	Ø	$\overline{\mathbf{v}}$	②
dematerialize	$\overline{\mathbf{v}}$	⊘	$\overline{\mathbf{v}}$	V	$O_{(41)}$
distinct	\bigcirc	O	$O_{(43)}$	$O_{(43)}$	$O_{(41)}$
distinctUntilCha	aked	O	$O_{(43)}$	$O_{(43)}$	$O_{(41)}$
doAfterNext	\checkmark	\bigcirc	$O_{(44)}$	$O_{(44)}$	$O_{(2)}$

Operator	Flowable	Observable	Maybe	Single	Completable
doAfterSuccess	O ₍₄₅₎	O ₍₄₅₎	②	②	O ₍₄₁₎
doAfterTerminat	e ②	\bigcirc	\bigcirc	\bigcirc	\bigcirc
doFinally	⊘	⊘	⊘	⊘	⊘
doOnCancel	⊘	$O_{(46)}$	$O_{(46)}$	$O_{(46)}$	$O_{(46)}$
doOnComplete	②	\bigcirc	⊘	$O_{(47)}$	⊘
doOnDispose	$O_{(48)}$	⊘	⊘	⊘	⊘
doOnEach	\bigcirc	Ø	$O_{(49)}$	$O_{(49)}$	$O_{(41)}$
doOnError	©	©	Ø	⊘	Ø
doOnEvent	$O_{(50)}$	$O_{(50)}$	\bigcirc	\bigcirc	V
doOnLifecycle	\bigcirc	$\overline{\mathbf{v}}$	V	V	\bigcirc
doOnNext	\bigcirc	\bigcirc	$O_{(51)}$	$O_{(51)}$	$O_{(41)}$
doOnRequest	\bigcirc	$\bigcirc_{(52)}$	$\bigcirc_{(52)}$	$O_{(52)}$	$O_{(52)}$
doOnSubscribe	\bigcirc	V	<u> </u>	<u> </u>	\bigcirc
doOnSuccess	$\bigcirc_{(53)}$	$\bigcirc (53)$	<u> </u>	<u> </u>	$\bigcirc^{(41)}$
doOnTerminate	\bigcirc	$\overline{\mathbf{v}}$	\circ	$\overline{\mathbf{v}}$	$\overline{\mathbf{v}}$
elementAt	$\overline{\mathbf{v}}$	\bigcirc	$O_{(54)}$	$O_{(55)}$	$O_{(41)}$
elementAtOrErro	r V	Q	$O_{(56)}$	$O_{(55)}$	$O_{(41)}$
empty		②	O	$O_{(23)}$	(57)
error	O	\sim	O		©
filter	O	O	②	\sim	$O_{(41)}$
first	igstar	igstar	$O_{(58)}$	$O_{(59)}$	$O_{(42)}$

Operator	Flowable	Observable	Maybe	Single	Completable
firstElement	⊘	②	$O_{(60)}$	$O_{(61)}$	$O_{(2)}$
firstOrError	⊘	O	$O_{(60)}$	$O_{(61)}$	$O_{(62)}$
firstOrErrorStag	, ©	②	$O_{(63)}$	$O_{(63)}$	$O_{(64)}$
firstStage	\bigcirc	②	$O_{(63)}$	$O_{(63)}$	$O_{(63)}$
flatMap	\bigcirc	②	Ø	⊘	$O_{(28)}$
${\tt flatMapCompletab}$. <u>©</u>	O	Ø	⊘	$O_{(28)}$
${\tt flatMapIterable}$	\bigcirc	Q	$O_{(32)}$	$O_{(32)}$	$O_{(28)}$
${\tt flatMapMaybe}$	\bigcirc	Q	$O_{(65)}$	V	$O_{(28)}$
flatMapObservabl	$\mathcal{Q}_{(66)}$	$O_{(67)}$	\bigcirc	\bigcirc	$O_{(28)}$
flatMapPublisher	$O_{(67)}$	$O_{(68)}$	\bigcirc	\bigcirc	$O_{(28)}$
${\tt flatMapSingle}$	\bigcirc	\bigcirc	\bigcirc	$O_{(65)}$	$O_{(28)}$
${\tt flatMapStream}$	\bigcirc	\bigcirc	$O_{(37)}$	$O_{(37)}$	$O_{(28)}$
flattenAsFlowabl	$\mathcal{Q}_{(69)}$	$O_{(69)}$	\bigcirc	V	$O_{(28)}$
flattenAsObserva	(69)	$O_{(69)}$	\bigcirc	V	$O_{(28)}$
flattenStreamAsF	(b7De)	$O_{(70)}$	\bigcirc	V	$O_{(28)}$
flattenStreamAsC	_	$O_{(70)}$	⊘	⊘	$O_{(28)}$
forEach	⊘	⊘	$O_{(71)}$	$O_{(71)}$	$O_{(71)}$
forEachWhile	⊘ ⊘ ⊘	⊘ ⊘	$O_{(71)}$	$O_{(71)}$	$O_{(71)}$
fromAction	⊘	\bigcirc	⊘	$O_{(23)}$	⊘
fromArray			$O_{(72)}$	$O_{(73)}$	$O_{(74)}$
fromCallable	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

Operator	Flowable	Observable	Maybe	Single	Completable
fromCompletable	②	②	②	O ₍₇₅₎	O ₍₇₆₎
fromCompletionS	t Q	\bigcirc	\bigcirc	\bigcirc	\bigcirc
fromFuture	\bigcirc	\bigcirc	⊘	⊘	\bigcirc
fromIterable	⊘	②	$O_{(72)}$	$O_{(73)}$	$O_{(74)}$
FromMaybe	⊘	②	$O_{(76)}$	Ø	⊘
romObservable	⊘	O ₍₇₆₎	⊘	⊘	②
fromOptional	⊘	\bigcirc	⊘	$O_{(73)}$	$O_{(74)}$
FromPublisher	⊘	⊘	⊘	⊘	\bigcirc
fromRunnable	⊘	②	⊘	$O_{(23)}$	O
fromSingle	©	O	⊘	$O_{(76)}$	②
fromStream	O	O	$O_{(72)}$	$O_{(73)}$	$O_{(74)}$
fromSupplier	O	O	⊘	⊘	\bigcirc
generate	\bigcirc	O	$O_{(77)}$	$O_{(77)}$	$O_{(77)}$
groupBy	\bigcirc	O	$O_{(78)}$	$O_{(78)}$	$O_{(79)}$
groupJoin	\bigcirc	⊘	$O_{(78)}$	$O_{(78)}$	$\bigcirc_{(80)}$
nide	\bigcirc	\bigcirc	\bigcirc	\bigcirc	©
gnoreElement	$O_{(81)}$	$O_{(81)}$	\bigcirc	\bigcirc	$O_{(2)}$
gnoreElements	Q	Ø	$O_{(82)}$	$O_{(82)}$	$O_{(2)}$
nterval	O	0	$O_{(83)}$	$O_{(83)}$	$O_{(83)}$
ntervalRange	Q	O	$O_{(83)}$	$O_{(83)}$	$O_{(83)}$
sEmpty	igstar	\bigcirc	igstyle igytyle igstyle igytyle	$O_{(59)}$	$O_{(2)}$

Operator	Flowable	Observable	Maybe	Single	Completable
join	②	②	O ₍₈₄₎	O ₍₈₄₎	O ₍₈₀₎
ust	\bigcirc	\bigcirc	⊘	\bigcirc	$O_{(2)}$
ast	⊘	⊘	$O_{(58)}$	$O_{(59)}$	$O_{(42)}$
lastElement	②	O	$O_{(60)}$	$O_{(61)}$	$O_{(2)}$
lastOrError	⊘	\bigcirc	$O_{(60)}$	$O_{(61)}$	$O_{(62)}$
lastOrErrorSta	$_{ m ge}$	O	$O_{(63)}$	$O_{(63)}$	$O_{(64)}$
lastStage	igstar	0	$O_{(63)}$	$O_{(63)}$	$O_{(63)}$
lift	⊘	\bigcirc	⊘	Ø	⊘
map	Ø	②	⊘	②	$O_{(28)}$
mapOptional	②	O	⊘	②	$O_{(28)}$
materialize	②	⊘	②	②	⊘
merge	⊘	②	⊘	②	⊘
mergeArray	Ø	⊘	②	②	②
mergeArrayDela	yE Q r	\bigcirc	⊘	②	\bigcirc
mergeDelayErro	r 💟	\bigcirc	⊘	②	\bigcirc
mergeWith	⊘	\bigcirc	⊘	\bigcirc	\bigcirc
never	⊘	\bigcirc	⊘	\bigcirc	\bigcirc
observeOn	O	O	⊘	②	\bigcirc
ofType	\bigcirc	②	②	②	$O_{(85)}$
onBackpressure	Buer	$O_{(52)}$	$O_{(52)}$	$O_{(52)}$	$O_{(52)}$
onBackpressure	Dr💙	$O_{(52)}$	$O_{(52)}$	$O_{(52)}$	$O_{(52)}$

Plowable Operator	Observable	Maybe	Single	Completable
onBackpressureLa st	O ₍₅₂₎	O ₍₅₂₎	O ₍₅₂₎	0
onErrorComplete				\bigcirc
onErrorResumeNex	\bigcirc	\bigcirc	\bigcirc	②
onErrorResumeWit	\bigcirc	\bigcirc	\bigcirc	igoredown
onErrorReturn 📀	\bigcirc	\bigcirc	\bigcirc	②
onErrorReturnIte	\bigcirc	\bigcirc	\bigcirc	0
onTerminateDetac	\bigcirc	\bigcirc	\bigcirc	O
parallel	$O_{(86)}$	$O_{(86)}$	$O_{(86)}$	0
publish	⊘	$O_{(87)}$	$O_{(88)}$	0
range	⊘	$O_{(90)}$	$O_{(90)}$	0
rangeLong	⊘	$O_{(90)}$	$O_{(90)}$	0
rebatchRequests 🕗	$O_{(52)}$	$O_{(52)}$	$O_{(52)}$	0
reduce	⊘	$O_{(91)}$	$O_{(91)}$	0
reduceWith	Ø	$O_{(91)}$	$O_{(91)}$	O
repeat	Ø	Ø	⊘	O
repeatUntil	Ø	Ø	⊘	O
repeatWhen	⊘	⊘	⊘	O
replay	Ø	$O_{(87)}$	$O_{(88)}$	O
replay retry retryUntil		○ (87)○○○	○ (88)	0000
retryUntil	⊘	⊘	⊘	O
retryWhen	\bigcirc	\bigcirc		0

	Flowable	Observable	laybe	ingle	Completable
Operator	ш	10	Ä	S	ŭ
safeSubscribe	②	⊘	⊘	②	②
sample	⊘	⊘	$O_{(60)}$	$O_{(60)}$	$O_{(41)}$
scan	⊘	⊘	$O_{(91)}$	$O_{(91)}$	$O_{(92)}$
scanWith	⊘	⊘	$O_{(91)}$	$O_{(91)}$	$O_{(92)}$
sequenceEqual	O	⊘	⊘	Ø	\bigcirc
serialize	O	②	$O_{(93)}$	$O_{(93)}$	$O_{(93)}$
share	⊘	⊘	$O_{(87)}$	$O_{(88)}$	$O_{(89)}$
single	⊘	⊘	$O_{(58)}$	$O_{(59)}$	$O_{(42)}$
singleElement	O	O	$O_{(60)}$	$O_{(61)}$	$O_{(2)}$
singleOrError	O	⊘	$O_{(60)}$	$O_{(61)}$	$O_{(62)}$
singleOrErrorSt	aS	0	$O_{(63)}$	$O_{(63)}$	$O_{(64)}$
singleStage	V	0	$O_{(63)}$	$O_{(63)}$	$O_{(63)}$
skip	$\overline{\mathbf{v}}$	0	$O_{(60)}$	$O_{(60)}$	$O_{(60)}$
skipLast	$\overline{\mathbf{v}}$	0	$O_{(60)}$	$O_{(60)}$	$O_{(60)}$
skipUntil	$\overline{\mathbf{v}}$	⊘	$O_{(94)}$	$O_{(94)}$	$O_{(94)}$
skipWhile	$\overline{\mathbf{v}}$	V	$O_{(95)}$	$O_{(95)}$	$O_{(2)}$
sorted	$\overline{\mathbf{Q}}$	O	$\bigcirc^{(78)}$	$\bigcirc_{(78)}$	$\bigcirc (78)$
startWith	$\overline{\mathbf{v}}$	⊘	$\overline{\mathbf{v}}$	\bigcirc	$\overline{\mathbf{v}}$
startWithArray	O	0	$O_{(96)}$	$O_{(96)}$	$O_{(96)}$
startWithItem	$\overline{\mathbf{v}}$	⊘	$O_{(97)}$	$O_{(97)}$	$O_{(97)}$
startWithIterab	$_{1}$	igstar	$O_{(98)}$	$O_{(98)}$	$O_{(98)}$

	Flowable)bservable	ybe	ngle	completable
Operator	Œ	9	Ma	Si	8
subscribe	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
subscribeOn	\bigcirc	②	⊘	⊘	\bigcirc
subscribeWith	O	0	⊘	O	⊘
switchIfEmpty	⊘	⊘	⊘	$O_{(23)}$	$O_{(99)}$
switchMap	⊘	⊘	$O_{(100)}$	$O_{(100)}$	$O_{(28)}$
switchMapComple		Ø	$O_{(100)}$	$O_{(100)}$	$O_{(28)}$
switchMapComple	t e Delay	Er	$O_{(100)}$	$O_{(100)}$	$O_{(28)}$
switchMapDelayE		\bigcirc	$O_{(100)}$	$O_{(100)}$	$O_{(28)}$
${\tt switchMapMaybe}$	\bigcirc	V	$O_{(100)}$	$O_{(100)}$	$O_{(28)}$
switchMapMaybeDe	Error	⊘	$O_{(100)}$	$O_{(100)}$	$O_{(28)}$
${\tt switchMapSingle}$	\bigcirc	O	$O_{(100)}$	$O_{(100)}$	$O_{(28)}$
switchMapSinglel	DeayError	O	$O_{(100)}$	$O_{(100)}$	$O_{(28)}$
switchOnNext	\bigcirc	\bigcirc	V	\bigcirc	\bigcirc
switchOnNextDela	agror	\bigcirc	©	\bigcirc	V
take	\bigcirc	\bigcirc	$O_{(60)}$	$O_{(60)}$	$O_{(60)}$
takeLast	\bigcirc	\bigcirc	$O_{(60)}$	$O_{(60)}$	$O_{(60)}$
takeUntil	O	Q	\bigcirc	\bigcirc	\bigcirc
takeWhile	⊘	⊘	$O_{(95)}$	$O_{(95)}$	$O_{(2)}$
test	O	igvee	⊘	Ø	\bigcirc
throttleFirst	O	Ø	$O_{(40)}$	$O_{(40)}$	$O_{(41)}$
throttleLast	\bigcirc	⊘	$O_{(40)}$	$O_{(40)}$	$O_{(41)}$

Operator	Flowable	Observable	Maybe	Single	Completable
throttleLatest	②	⊘	$O_{(40)}$	$O_{(40)}$	$O_{(41)}$
throttleWithTime	_	⊘	$O_{(40)}$	$O_{(40)}$	$O_{(41)}$
timeInterval	⊘	⊘	⊘	\bigcirc	$O_{(41)}$
timeout	\bigcirc	⊘	⊘	\bigcirc	\bigcirc
timer	\bigcirc	⊘	⊘	\bigcirc	©
timestamp	\bigcirc	⊘	⊘	\bigcirc	$O_{(41)}$
to	\bigcirc	♥	⊘	\bigcirc	⊘
toCompletionStag	$\mathcal{Q}_{(101)}$	$O_{(101)}$	⊘	\bigcirc	O
toFlowable	$O_{(102)}$	Ø	\bigcirc	\bigcirc	\bigcirc
toFuture	\bigcirc	igoredown	\bigcirc	\bigcirc	②
toList	\bigcirc	\bigcirc	$O_{(13)}$	$O_{(14)}$	$O_{(15)}$
toMap	②	♥	$O_{(13)}$	$O_{(14)}$	$O_{(15)}$
toMaybe	$O_{(103)}$	$O_{(103)}$	$O_{(102)}$	\bigcirc	⊘
toMultimap	\bigcirc	♥	$O_{(13)}$	$O_{(14)}$	$O_{(15)}$
toObservable	\bigcirc	$O_{(102)}$	\bigcirc	\bigcirc	\bigcirc
toSingle	$O_{(104)}$	$O_{(104)}$	⊘	$O_{(102)}$	\bigcirc
toSingleDefault	$O_{(105)}$	$O_{(105)}$	$O_{(106)}$	$O_{(102)}$	⊘
${\tt toSortedList}$	\bigcirc	\bigcirc	$O_{(13)}$	$O_{(14)}$	(15)
${\tt unsafeCreate}$	O	⊘	⊘	\bigcirc	\bigcirc
unsubscribeOn	0	0	⊘	\bigcirc	\bigcirc
using	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

Operator	Flowable	Observable	Maybe	Single	Completable
window	②	②	O ₍₁₀₇₎	O ₍₁₀₈₎	O ₍₁₀₉₎
withLatestFrom	\bigcirc	\bigcirc	$O_{(16)}$	$O_{(16)}$	O ₍₁₇₎
wrap	$O_{(110)}$		⊘	\bigcirc	\bigcirc
zip	\bigcirc	\bigcirc	\bigcirc	\bigcirc	$O_{(111)}$
zipArray	\bigcirc	\bigcirc	\bigcirc	\bigcirc	$O_{(112)}$
zipWith	\bigcirc	\bigcirc	\bigcirc	\bigcirc	$O_{(113)}$
237 operators	216	210	118	108	84

Notes 1 Use contains(). 2 Always empty. 3 Use concatWith. Use blockingFirst(), blockingSingle() or blockingLast(). blockingGet(). 6 At most one element to get. Use blockingGet(). 7 No elements to get. Use blockingAwait(). 8 Use blockingSubscribe() 9 Use map() and switchIfEmpty() to transform into a list/collection. 10 Use map() to transform into a list/collection. 11 Always empty. Use andThen() to bring in a list/collection. 12 At most one element to store. Use cache(). 13 At most one element to collect. Use map() and switchIfEmpty() to transform into a list/collection. 14 One element to collect. Use map() to transform into a list/collection. 15 Always empty. Use and Then() to bring in a collection. 16 At most one element per source. Use zip(). 17 Always empty. Use merge(). 18 At most one element per source. Use zipArray(). 19 Always empty. Use mergeArray(). 20 Always empty. Use mergeArrayDelayError(). 21 Always empty. Use mergeDelayError(). 22 Use empty(). 23 Never empty. 24 No items to keep ordered. Use mergeArray(). 25 No items to keep ordered. Use mergeArrayDelayError(). 26 No items to keep ordered. Use merge(). 27 No items to keep ordered. Use mergeDelayError(). 28 Always empty thus no items to map. 29 Either the upstream fails (thus no inner) or the mapped-in source, but never both. Use concatMapCompletable. 30 Either the upstream fails (thus no inner) or the mapped-in source, but never both. Use concatMap. 31 At most one item to map. Use concatMap(). 32 At most one item. Use flattenAsFlowable or flattenAsObservable. 33 Use concatMap. 34 Either the upstream fails (thus no inner) or the mapped-in

source, but never both. Use concatMapMaybe. 35 Use concatMap(). 36 Either the upstream fails (thus no inner) or the mapped-in source, but never both. Use concatMapSingle. 37 At most one item. Use flattenStreamAsFlowable or flattenStreamAsObservable. 38 Never empty thus always 1. 39 Always empty thus always 0. 40 At most one item signaled so no subsequent items to work with. 41 Always empty thus no items to work with. 42 Always empty. Use andThen() to chose the follow-up sequence. 43 At most one item, always distinct. 44 Different terminology. Use doAfterSuccess(). 45 Different terminology. Use doAfterNext(). 46 Different terminology. Use doOnDispose(). 47 Always succeeds or fails, there is no onComplete signal. 48 Different terminology. Use doOnCancel(). 49 At most one item. Use doOnEvent(). 50 Use doOnEach(). 51 Different terminology. Use doOnSuccess(). 52 Backpressure related and not supported outside Flowable. 53 Different terminology. Use doOnNext(). 54 At most one item with index 0. Use defaultIfEmpty. 55 Always one item with index 0. 56 At most one item with index 0. Use toSingle. 57 Use complete(). 58 At most one item. Use defaultIfEmpty. 59 Always one item. 60 At most one item, would be no-op. 61 Always one item, would be no-op. 62 Always empty. Use and Then() and error(). 63 At most one item. Use toCompletionStage(). 64 Always empty. Use andThen(), error() and toCompletionStage(). 65 Use flatMap(). 66 Not supported. Use flatMap and toFlowable(). 67 Use flatMap. 68 Not supported. Use flatMap and toObservable(). 69 Use flatMapIterable(). 70 Use flatMapStream(). 71 Use subscribe(). 72 At most one item. Use just() or empty(). 73 Always one item. Use just(). 74 Always empty. Use complete(). 75 Always error. 76 Use wrap(). 77 Use from Supplier(). 78 At most one item. 79 Always empty thus no items to group. 80 Always empty thus no items to join. 81 Use ignoreElements(). 82 Use ignoreElement(). 83 At most one item. Use timer(). 84 At most one item. Use zip() 85 Always empty thus no items to filter. 86 Needs backpressure thus not supported outside Flowable. 87 Connectable sources not supported outside Flowable and Observable. Use a MaybeSubject. 88 Connectable sources not supported outside Flowable and Observable. Use a SingleSubject. 89 Connectable sources not supported outside Flowable and Observable. Use a ConnectableSubject. 90 At most one item. Use just(). 91 At most one item. Use map(). 92 Always empty thus no items to reduce. 93 At most one signal type. 94 At most one item. Use takeUntil(). 95 At most one item. Use filter(). 96 Use startWith() and fromArray() of Flowable or Observable. 97 Use startWith() and just() of another reactive type. 98 Use startWith() and fromIterable() of Flowable or Observable. 99 Always empty. Use defaultIfEmpty(). 100 At most one item. Use flatMap(). 101 Use firstStage, lastStage or singleStage. 102 Would be no-op. 103 Use firstElement, lastElement or singleElement. 104 Use firstOrError, lastOrError or singleOrError. 105 Use first, last or single. 106 Use defaultIfEmpty(). 107 Use map() and switchIfEmpty() to transform into a nested source. 108 Use map() to transform into a nested source. 109 Always empty. Use and Then() to bring in a nested source. 110 Use fromPublisher(). 111 Use merge(). 112 Use mergeArray(). 113 Use

mergeWith().

 ${\bf Under\ development}\quad {\it Currently,\ all\ intended\ operators\ are\ implemented}.$