

QUICK-RELEASE COUPLINGS FOR THE CONDITIONING OF MOULDS FOR PLASTICS

SERIES 5000L AND 5000LT

Nominal diameters: 5, 7 mm

Couplings threads: G1/8, G1/4, G3/8



- Series 5000L couplings: without through-hole
- Series 5000LT couplings: with through-hole

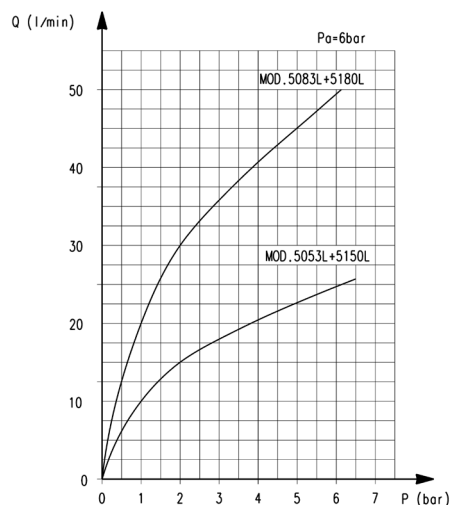
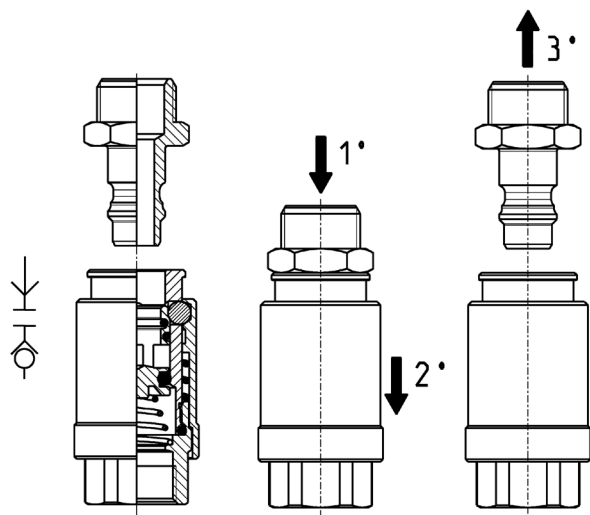
The Series 5000L and 5000LT couplings have been designed to connect tubes for water, air or oil, used within plastic injection and die casting moulds.

The Series 5000L and 5000LT couplings provide a quick connection and disconnection method for the replacement of heating and conditioning tubes directed towards the mould, as well as tubes coming from water collectors or sources.

General Data

Valve group	quick-release valve
Construction	poppet
Mounting	by means of threading
Threadings	GAS cylindrical ISO 228 (BSP)
Threads	G1/8 - G1/4 - G3/8
Materials	Internal/external parts in brass Springs and balls in stainless steel Seals in FKM
Operating temperature	-15°C ÷ 140°C (200°C with oil)
Operating pressure	-0.99 ÷ 12 bar
Nominal pressure	6 bar
Nominal flow	see flow diagrams on the following page
Nominal diameter Ø [mm]	Ø5 - Ø7
Fluid	water, air and oil

Couplings type "L" - operating principle and flow diagram

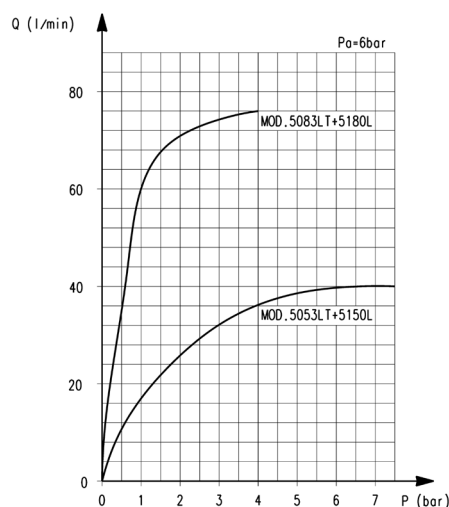
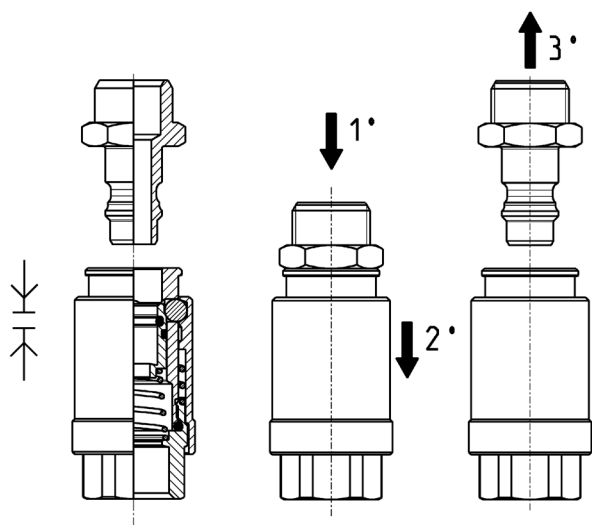


The female release couplings are designed to avoid accidental uncoupling. In fact uncoupling can only occur by pressing the male coupling inwards (1°), then the nut of the female coupling (2°) and finally pull the male coupling outwards (3°). The female couplings are realized to prevent any fluid leakage during connection and disconnection.

Q (l/min) = flow - P (bar) = load loss
 P_a (bar) = inlet pressure

The diagram helps users choose the most suitable model in relation to the operating pressure and the required flow rate. The measurements were taken using the models indicated and represent the ideal max flow rate conditions. In case tubes of inferior quality are used, this might result in poorer performance.

Couplings type "LT" - operating principle and flow diagram

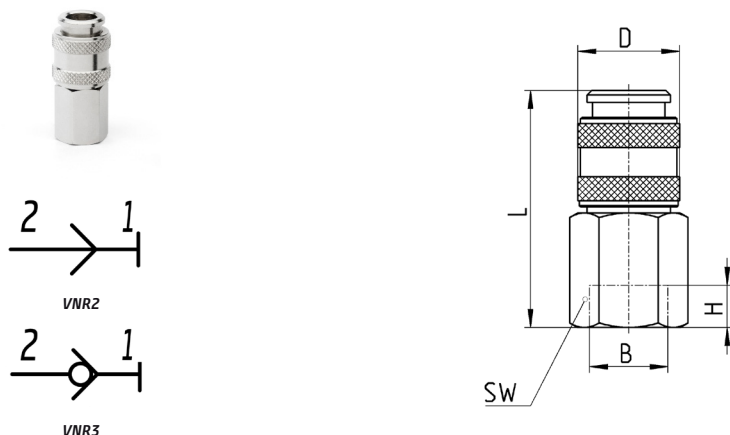


The female release couplings are designed to avoid accidental uncoupling. In fact uncoupling can only occur by pressing the male coupling inwards (1°), then the nut of the female coupling (2°) and finally pull the male coupling outwards (3°). For applications requiring a higher flow rate, the female coupling version with through hole is available. This solution allows a higher fluid flow but doesn't prevent fluid leakage during disconnection.

Q (l/min) = flow - P (bar) = load loss
 P_a (bar) = inlet pressure

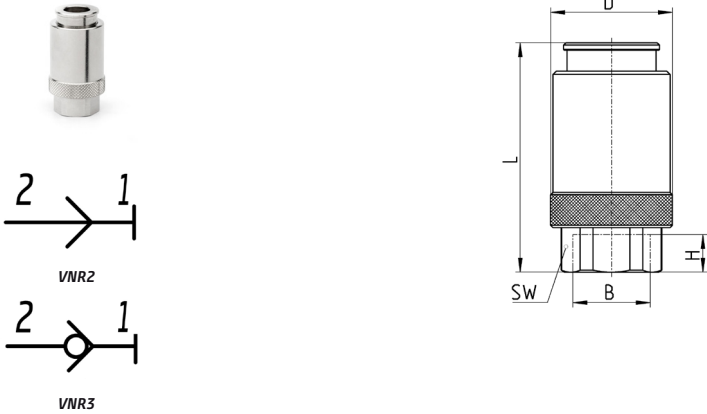
The diagram helps users choose the most suitable model in relation to the operating pressure and the required flow rate. The measurements were taken using the models indicated and represent the ideal max flow rate conditions. In case tubes of inferior quality are used, this might result in poorer performance.

Female quick coupling Mod. 5053L and 5053LT



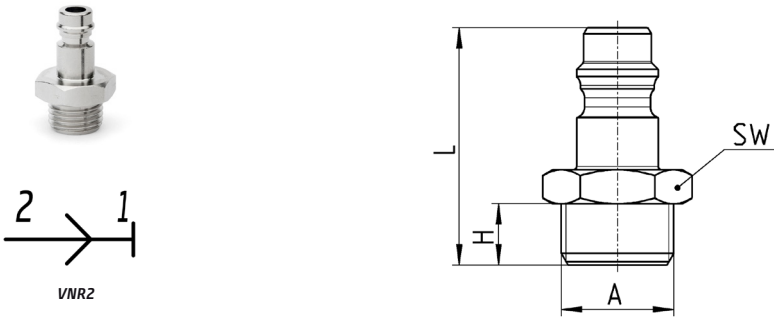
Mod.	B	D	H min	L	SW	Weight [g]	Symbol
5053L 1/8	G1/8	17	6	37	14	34	VNR3
5053L 1/4	G1/4	17	7	39	17	44	VNR3
5053LT 1/8	G1/8	17	6	37	14	34	VNR2
5053LT 1/4	G1/4	17	7	39	17	44	VNR2

Female quick coupling Mod. 5083L and 5083LT



Mod.	B	D	H min	L	SW	Weight [g]	Symbol
5083L 1/4	G1/4	26	10	47,5	17	104	VNR3
5083L 3/8	G3/8	26	8	49	20	110	VNR3
5083LT 1/4	G1/4	26	10	47,5	17	104	VNR2
5083LT 3/8	G3/8	26	8	49	20	110	VNR2

Male plug Mod. 5150L and 5180L



Mod.	A	H	L	SW	Weight [g]	Symbol
5150L 1/8	G1/8	6	26,5	13	11	VNR2
5150L 1/4	G1/4	8	29	17	17	VNR2
5180L 1/4	G1/4	8	34	17	21	VNR2
5180L 3/8	G3/8	9	35	19	25	VNR2