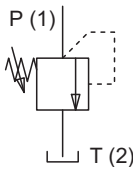
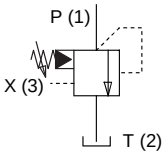
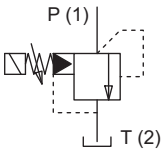
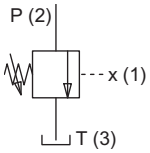
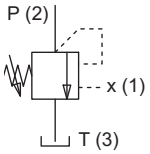
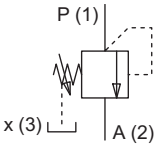
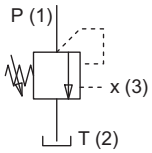
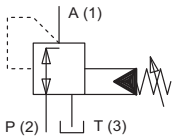
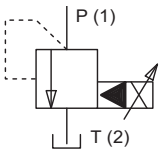
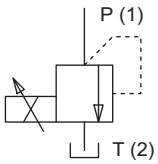
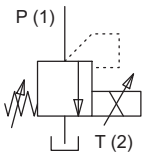
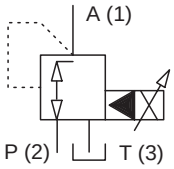
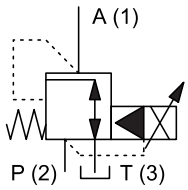
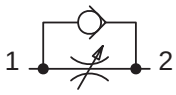
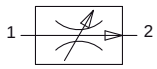
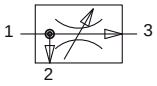
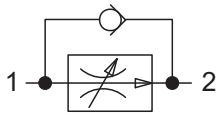
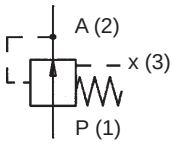
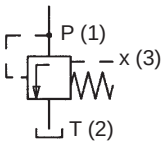
Pressure valves manual operation

Functions	Sizes		
	M18x1,5	M22x1,5	M33x2
Pressure relief valve: • pilot operated • direct operated 	BV.PM18 2.1-510 BS.PM18 2.1-520	BV.PM22 2.1-530 BA.PM22 2.1-540 BK.PM22 2.1-542	
Pressure relief valve vented 		BV.PM22-Z9 2.1-534	
Pressure relief valve electrically activated 		BVEPM22 2.1-536	
Unloading valve 		BX.PM22 2.1-544 (Wandfluh standard)	
Pressure relief valve remote operated 		BY.PM22 2.1-544 (Wandfluh standard)	
Pressure sequence valve 		FV.PM22 2.1-546	
Accumulator unloading valve 		US.PM22 2.1-548	
Pressure reducing valve 	MV.PM18 2.2-510 (Wandfluh standard)	MV.PM22 2.2-530	

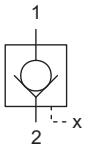
Pressure valves proportional

Functions	Sizes		
	M18x1,5	**M22x1,5**	**M33x2**
Proportional pressure relief valve:  • pilot operated	BVPPM18 2.3-510	BVPPM22 2.3.530 BVVPM22 2.3-531 (integrated electronics) BVCPM22 2.3-534 BVBPM22 2.3-535	BVPPM33 2.3.550 BVVPM33 2.3-552 (integrated electronics)
 • direct operated	BDPPM18 2.3-520	BDPPM22 2.3-540 BDVPM22 2.3-541 (integrated electronics) BDCPM22 2.3-544 BDBPM22 2.3-545	
Prop. inverse pressure relief valve:  • pilot operated • direct operated		BVIPM22 2.3.532 BDIPM22 2.3-542 BDWPM22 2.3-543 (integrated electronics)	
Proportional pressure reducing valve:  	MVPPM18 2.3-610 (Wandfluh standard)	MVPPM22 2.3-630 MVVPM22 2.3-631 (integrated electronics) MVCPM22 2.3-634	MVPPM33 2.3-650 MVVPM33 2.3-651 (integrated electronics)
 		MQPPM22 2.3-640 MQVPM22 2.3-642 (integrated electronics)	

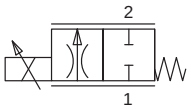
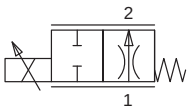
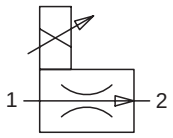
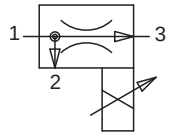
Flow control valves manual operation

Functions	Sizes		
	M18x1,5	M22x1,5	M33x2
Throttle valve 	DN.PM18 2.4-510		
Restrictor valve with reverse free flow check 	DR.PM18 2.4-610		
2-way flow control valve:  • 2-way function  • 3-way function	QA.PM18 2.5-510	QZ.PM22 2.5-535 QD.PM22 2.5-540	QZ.PM33 2.5-550 QD.PM33 2.5-555
2-way flow control valve 		QRSPM22 2.5-530	
Pressure compensator:  • 2-way function  • 3-way function		UZFPM22 2.5-630 UDFPM22 2.5-630	UZFPM33 2.5-650 UDFPM33 2.5-650

Check valves

Functions	Sizes		
	M18x1,5	M22x1,5	M33x2
Check valve pilot operated 		RNXPM22 2.7-61	RNXPM33 2.7-62

Flow control valves proportional

Functions	Sizes		
	M18x1,5	**M22x1,5**	**M33x2**
Proportional throttle valve:  • normally closed  • normally open	DNPPM18 2.6-510 DOPPM18 2.6-510	DNPPM22 2.6-530 DNVPM22 2.6-540 (integrated electronics) DOPPM22 2.6-530	DNPPM33 2.6-550 DNVPM33 2.6-560 (integrated electronics)
Proportional flow control valve:  • 2-way function  • 3-way function	QZPPM18 2.6-610	QNPPM22 2.6-630 QNVPM22 2.6-632 (integrated electronics) QDPPM22 2.6-645 QDVPM22 2.6-646 (integrated electronics)	QNPPM33 2.6-650 QNVPM33 2.6-660 (integrated electronics) QDPPM33 2.6-665 QDVPM33 2.6-667 (integrated electronics)

SETTING VERSIONS FOR SCREW-IN CARTRIDGES

- **Key** S
- **Control knob** D
- **Lock** K
- **Cover** A

S: The version with screw adjustment is the basic version. Irrespective of the hydraulic function, this design permits easy, convenient adjustment of the screw-in cartridge with a screw driver. It is possible to lock the unit in the position with a lock nut.

D: Irrespective of the hydraulic function, the design knob allows easy, convenient adjustment of the screw-in cartridge. The design knob version can be advantageously used wherever constantly changing conditions make it necessary to have conveniently easily, adjustable screw-in cartridge, and/or where the design is of great significance.

K: The lock knob adjuster version is a option with lockable knob. Irrespective of the hydraulic function, the locking knob allows convenient easy, adjustment of the screw-in cartridge. Removal of the key (locking knob does not engage) prevents unauthorised adjustment of the screw-in cartridge. For logistic reasons, the same key may be used throughout the machine park.

A: This is a simple key adjuster type **«S»** with cover. The screw adjuster with cover can be advantageously used, whenever unauthorised adjustment of a screw-in cartridge must be prevented once it has been set. The degree of protection can be increased by the customer by using sealing lacquer (M4 grub screw) or by using a lead wire seal. If frequent adjustment of the cartridge is necessary we recommend the lock knob adjuster version **«K»**.

Important: Neither the **«K»** lock adjuster version nor the **«A»** version cap conceal the hex, bolt of the screw-in cartridge. Consequently this does not prevent unscrewing ot the screw-in cartridge (theft, replacement).