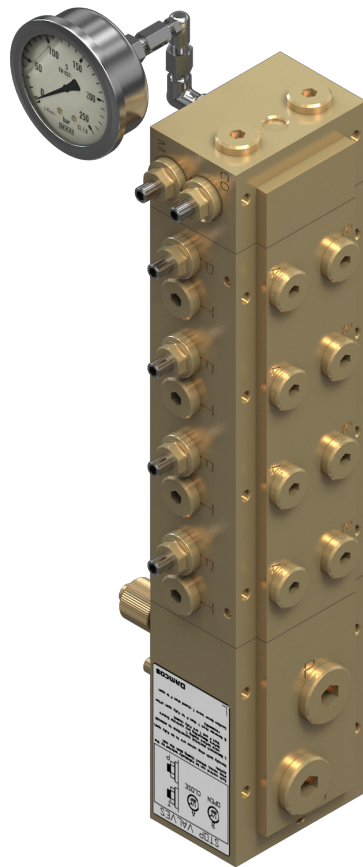


Damcos Deck Box Manifold

Manifold Brass and Stainless Steel Systems Straight and Angled



Description

The manifolds are the elements of complete systems in a stacking design. The manifolds are available with 3 and 4 Cetop R35H size 3 stations in the versions MS-3 50 mm and MS-3 80 mm.

Very compact hydraulic systems can be built on each station. All stations have common pressure (P) and tank (T) ports and each Cetop R35H control station has separate user ports A and B.

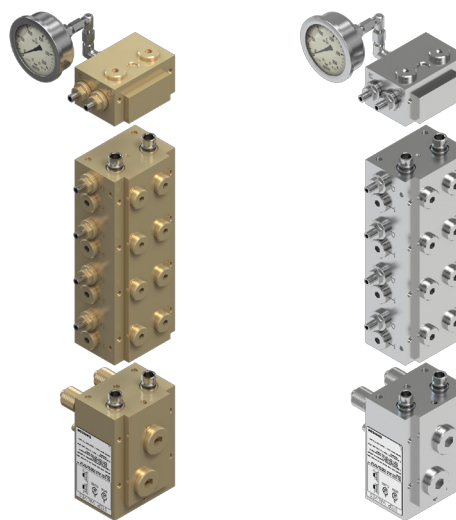
Just beside the A and B user port there are one throttle/stop valves on each station.

The throttle/stop valves on P port are regulating the flow. If some of the stacking elements are to be exchanged, the throttle/stop valves on P port should be closed.

It is then possible to take off each stacking element without losing the hydraulic system pressure. The manifolds are provided with screws and recess for cabinet mounting.

The manifold systems feature:

- Compactness and unique design
- Throttle/stop valves on each station
- System bleed valve on each manifold
- Hand pump connections for emergency operation
- Unlimited mounting possibilities and free combination of manifolds 3 and 4 stations



Brass Manifold (left) and Stainless Steel Manifold (right) with 4 stations straight including top part with pressure gauge and bottom part.

Materials

Manifold, bottom part and top part	Brass MS58, CW614N, CuZn39Pb3	Stainless Steel AISI316, 1.4401, X5CrNiMo17-12-2
Throttle/Stop valves	MS 58/Sandviken 1802	
Hand pump connection	MS 58	
Bushings	W. no. 1.0718	
O-rings	NBR	
Pins	Stainless	
Screws	DIM 267 Quality 8.8	

Technical Data

Maximum working pressure	135 bar		
Maximum test pressure	225 bar		
Pipe connection	1/4" BSP		
P & T connection	3/8" BSP		
Weight (kg)	Type	Brass MS58	Stainless Steel AISI316
	Manifold 3 stations straight 50 mm	4.7	4.4
	Manifold 4 stations straight 50 mm	6.2	5.9
	Manifold 3 stations straight 80 mm	7.6	7.1
	Manifold 3 stations angled 80 mm	6.6	6.2
	Manifold 4 stations straight 80 mm	10.1	9.5
	Manifold 4 stations angled 80 mm	8.8	8,3
	Bottom part - left for filter [1]	5.2	4.9
	Bottom part - right for filter [1]	5.2	4.9
	Bottom part - left [2]	3.6	3.4
	Bottom part - right [2]	3.6	3.4
	Top part - left with pressure gauge	1.7	1.6
	Top part - left without pressure gauge	1.3	1.2
	Top part - right with pressure gauge	1.7	1.6
Top part - right without pressure gauge	1.3	1.2	

Pressure Drop

Flow [l/min]	One Solenoid Valve [bar]	Two solenoid valves [bar]	Four solenoid valves [bar]	Six solenoid valves [bar]
3	7	5,4	4,5	4,4
6	14	7,7	4,9	5
12	42	16,3	6,9	6,5

Cover Plate C3

The cover plate is used for blanking off Cetop-3 connections not used on the manifold.



Non-Return Valve

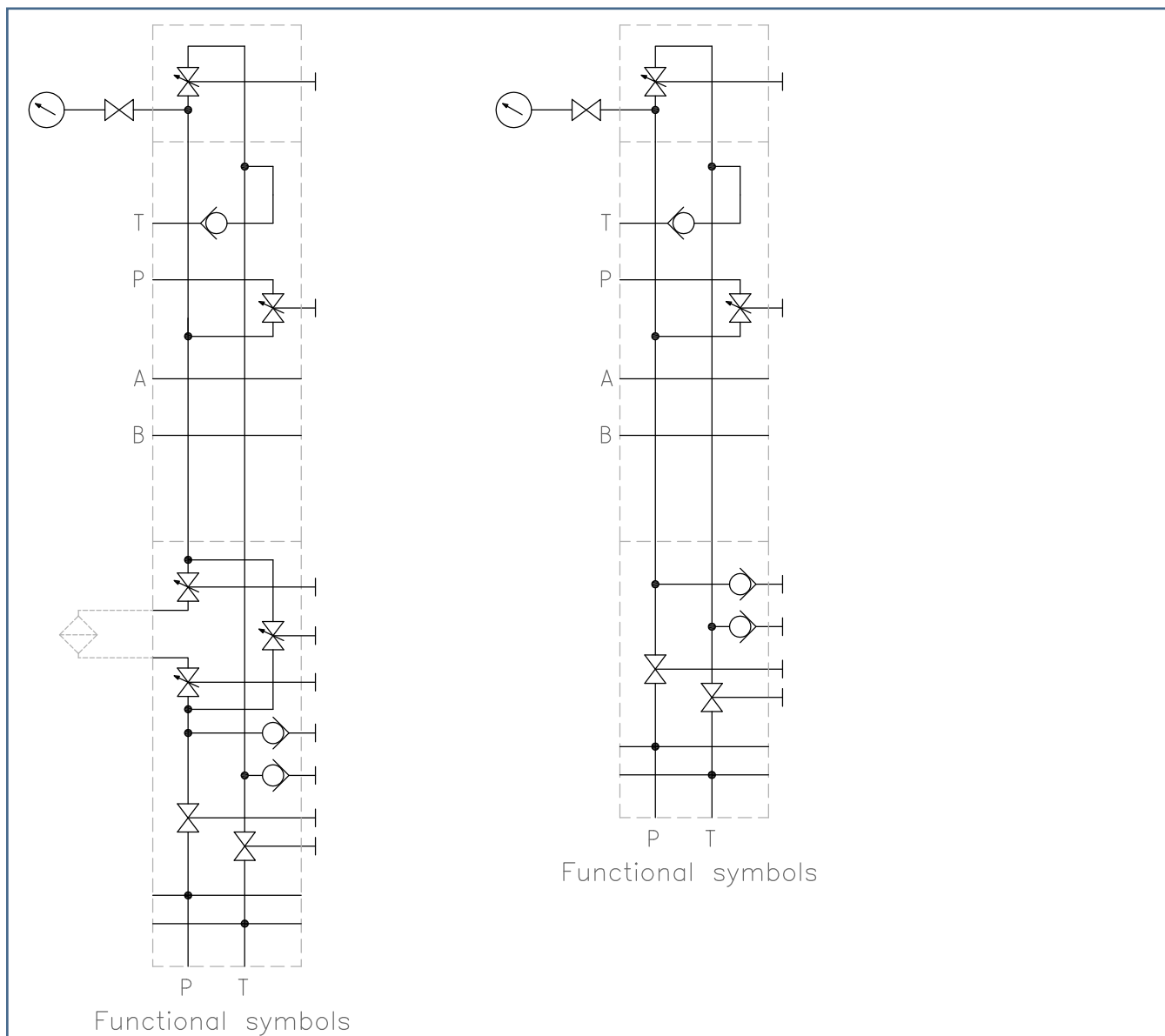
The non-return valve is used in the manifold (T-line) in order to prevent flow in one direction and allow free flow in the other.

When using a hydraulic position indicator VPI, there must always be a non-return valve.

The non-return valve is as standard mounted in all MS-3 manifolds.

Hydraulic Diagram [1]

Hydraulic Diagram [2]



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