

## Priority Valve type PR5D(D)..., PR5TA(D)..., PR5T-series 3



The Priority Valves distribute and trace the hydraulic flow from the supply pump of the hydraulic system to the hydraulic components which control and run the vehicle.

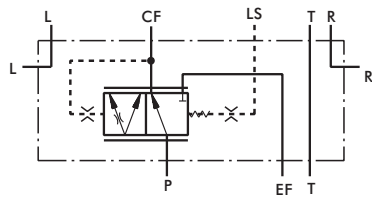
The Priority Valves are used only with the HKUS.../5(D)(T) hydrostatic steering units. When connected, the steering unit and the priority valve represent sophisticated hydraulic tracing system that controls the flow in both main pipelines of the hydraulic system (the working and control one) at any time of its operation.



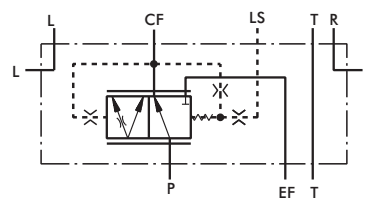
As a static signal, the "LS" signal must be used in systems with circuit stability. The connection between the PR5T, PR5TA priority valves and the HKUS.../5T steering units has to be as short as possible, but should not exceed 1,5 m [4.92 ft] (for iron pipe with 4 mm [.157 in.] internal diameter). When a rubber hose is used this length has to be even shorter.

Priority valves with dynamic signal work in a system with dynamic hydrostatic steering units type HKUS.../5D (5DT).

### Modulary Mounting

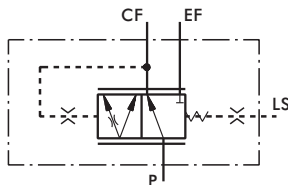


Static signal  
PR5D 40,80/...

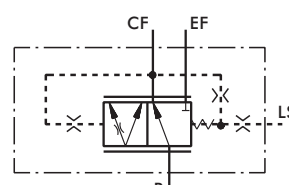


Dynamic signal  
PR5DD 40,80/...

### Pipe Mounting

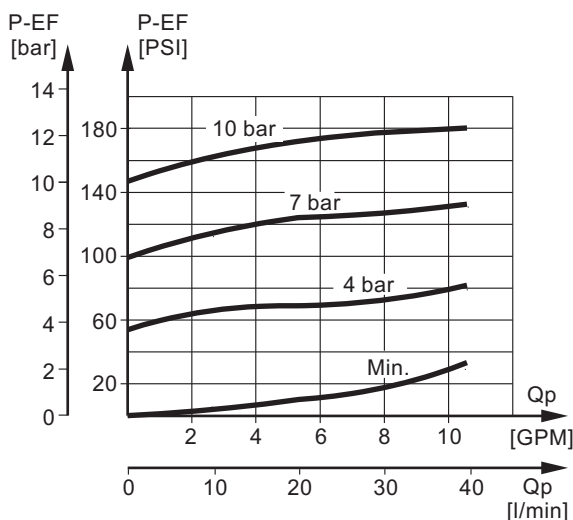


Static signal  
PR5T 40,80/... and PR5TA 40,80/...

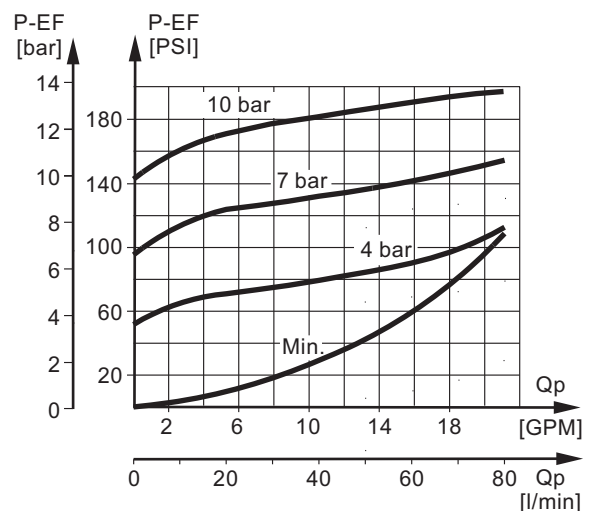


Dynamic signal  
PR5TD 40,80/... and PR5TAD40,80/...

### PR5...40



### PR5...80

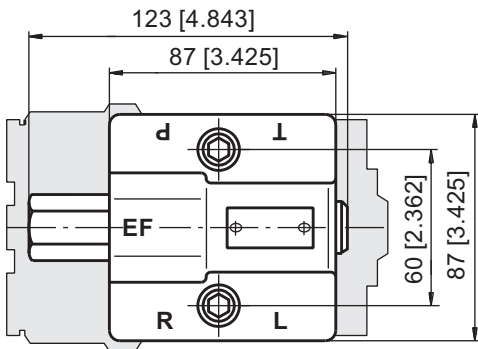
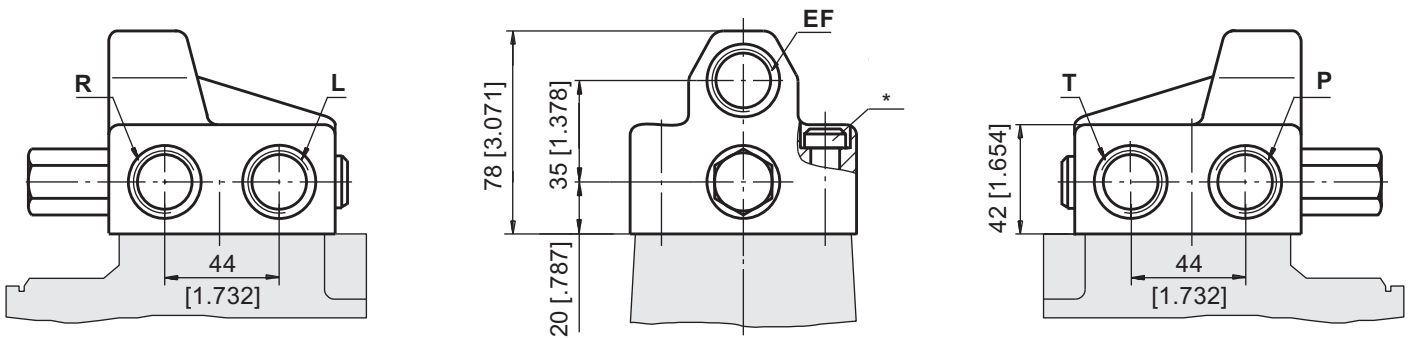


**SPECIFICATION DATA**

Parameters		Type					
		PR5D(D)			PR5TA(D), PR5T(D)		
Rated Flow	lpm [GPM]	40 [10.6]			80 [21.1]		
Control Spring Pressure	bar [PSI]	4 [58]	7 [101.5]	10 [145]	4 [58]	7 [101.5]	10 [145]
Max. Pressures in Oil Ports:		250 [3625]					
	P, EF	250 [3625]					
	CF	210 [3045]					
	R, L	280 [4061]					
	LS	210 [3045]					
	PP						
	T	20 [290]					
Weight	kg [lb]	2,25 [4.96]			1,3 [2.87]		

P - pump, EF - excess flow, CF - control flow (first priority oil flow),  
L - left, R - right, LS - load sensing, T - tank, PP - pilot pressure (L,R and T - for PRD(D) only).

**DIMENSIONS AND MOUNTING DATA - PR5D(D) 40, 80/...**

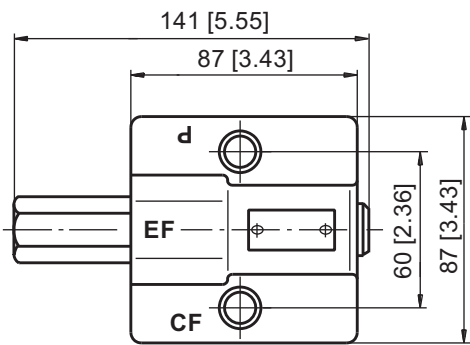
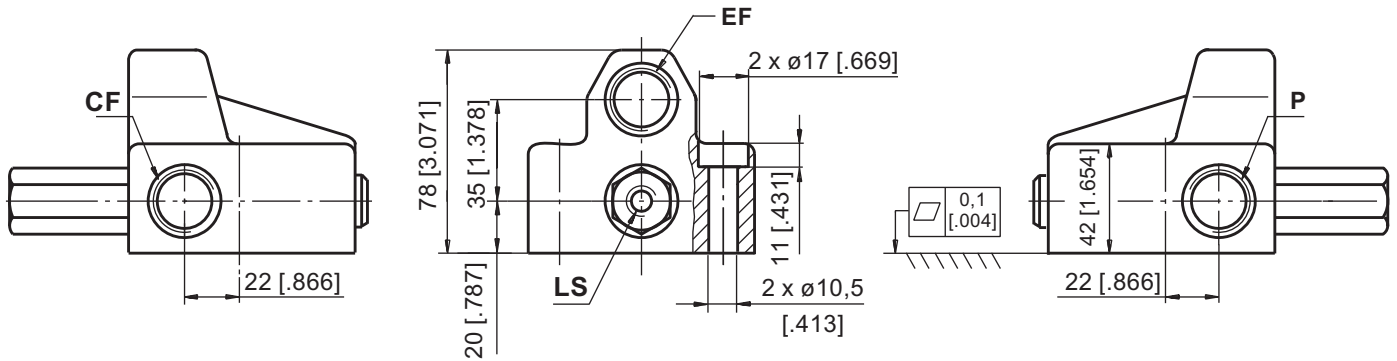


Code	Ports - P, EF Thread	Ports - T, R, L Thread
-	G1/2 18 [.71] depth	G3/8 18 [.71] depth
M	M22x1,5 18 [.71] depth	M18x1,5 18 [.71] depth
A	7/8 - 14 UNF O-ring 18 [.71] depth	3/4 - 16 UNF O-ring 18 [.71] depth

\* Connection to the HKUS.../5(D)... is done with 2 screws M10x1x45 -10.9 DIN 912 or with 2 screws 3/8-24 UNF ANSI B18.3-76, 1.75" long.  
Tightening torque: 4,5±0,5 daNm [360 ± 440 lb-in ].

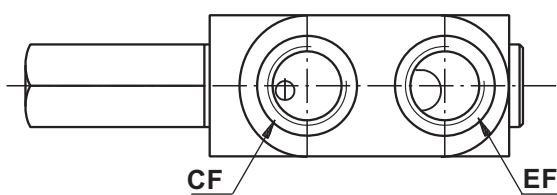
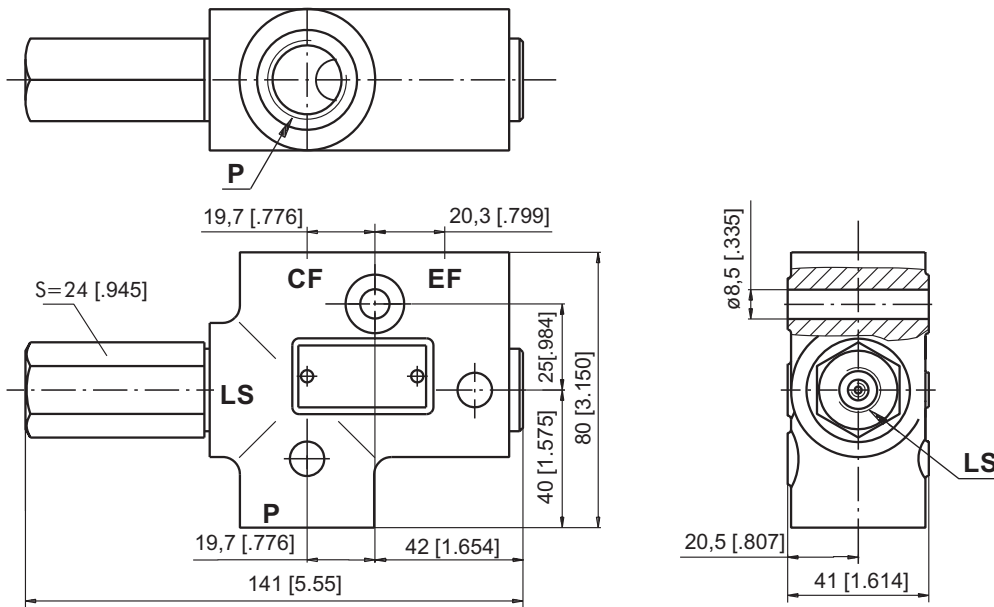


**DIMENSIONS AND MOUNTING DATA - PR5T(D) 40, 80/...**



code	Ports - P, EF Thread	Port - CF Thread	LS - Port
-	G1/2 18 mm [.71] depth	G1/2 18 mm [.71] depth	G1/4 14 mm [.55] depth
M	M 22x1,5 18 mm [.71] depth	M 22x1,5 18 mm [.71] depth	G1/4 14 mm [.55] depth
A	7/8 - 14 UNF O-ring 18 [.71] depth	3/4 - 16 UNF O-ring 18 [.71] depth	7/16 - 20 UNF O-ring 12,7 [.50] depth

**DIMENSIONS AND MOUNTING DATA - PR5TA(D) 40, 80/...**



code	Ports - P, EF Thread	Port - CF Thread	LS - Port
-	G1/2 18 mm [.71] depth	G1/2 18 mm [.71] depth	G1/4 14 mm [.55] depth
M	M 22x1,5 18 mm [.71] depth	M 22x1,5 18 mm [.71] depth	G1/4 14 mm [.55] depth
A	7/8 - 14 UNF O-ring 18 [.71] depth	3/4 - 16 UNF O-ring 18 [.71] depth	7/16 - 20 UNF O-ring 12,7 [.50] depth



## ORDER CODE

	1	2	3	4	5	6	7
PR5			/	-		/	

## Pos.1 - Mounting

- D** - Modularly Mounting
- T** - Pipe Mounting (Model 1)
- TA** - Pipe Mounting (Model 2)

## Pos.2 - Signal Type

- omit - with Static signal
- D** - with Dynamic signal

## Pos.3 - Rated Flow, l/min

- |    |    |
|----|----|
| 40 | 80 |
|----|----|

## Pos.4 - Control Spring Pressure , bar

- |   |   |    |
|---|---|----|
| 4 | 7 | 10 |
|---|---|----|

## Pos.5 - Ports

- omit - BSPP (ISO 228)
- M** - Metric (ISO 262)
- A** - SAE (ANSI B 1.1 - 1982)

## Pos.6 - Option [Paint]\*

- omit - No Paint
- P** - Painted Low Gloss Color
- PC** - Corrosion Protected Paint

## Pos.7 - Design Series

- omit - Factory specified

## Notes:

\* Colour at customer's request.

The priority valves are mangano-phosphatized as standard.



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