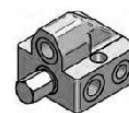
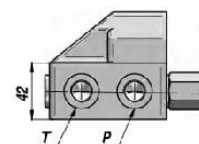
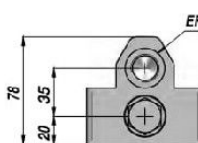
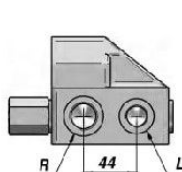
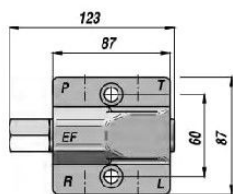
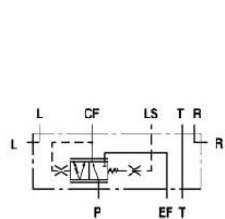


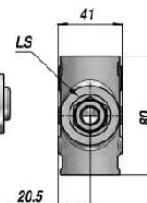
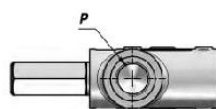
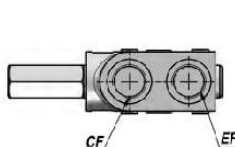
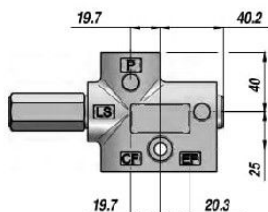
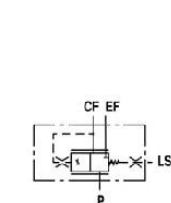
VALVE PRIORITAIRE POUR ORBITROL LOAD-SENSING
PRIORITY VALVE FOR LOAD-SENSING STEERING UNIT

VPRD

VPRTA



PRD - STATIC SIGNAL



PRTA - STATIC SIGNAL

Code Code	Type Type	Signal Signal	Q MAX l/min	Ressort Spring	P - EF BSP	T - R - L BSP	CF BSP	LS BSP	kg
VPRD0800 **	PRD 80/** (x HKUS.../5)	Static	80	4-7-10 bar	1/2"	3/8"			2,25
VPRDD080 **	PRD-D 80/** (x HKUS.../5)	Dynamic	80	4-7-10 bar	1/2"	3/8"			2,25
VPRTA080 **	PRTA 80/** (x HKUS.../5T)	Static	80	4-7-10 bar	1/2"		1/2"	1/4"	1,30
VPRTAD08 **	PRTA-D 80/** (x HKUS.../5T)	Dynamic	80	4-7-10 bar	1/2"		1/2"	1/4"	1,30

** = 04 - 07 - 10 bar

PRIORITY VALVES FOR HKUS.../5... TYPE PR...



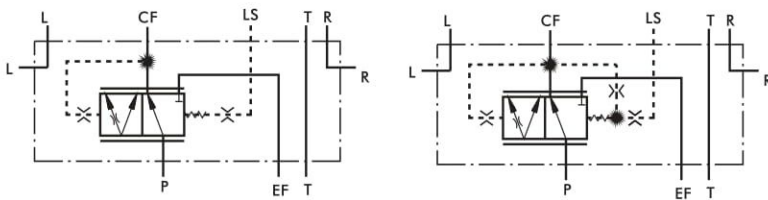
The Priority Valves distribute and trace the hydraulic flow from the supply pump of the hydraulic system to the hydraulic components which control and run the vehicle. The Priority Valves are used only with the HKUS.../5(D)(T) hydrostatic steering units. When connected, the steering unit and the priority 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 PRT, PRTA 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).

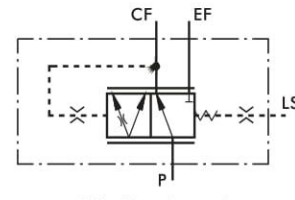
Modulary Mounting



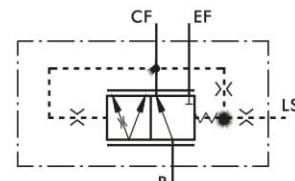
Static signal
PRD 40,80/...

Dynamic signal
PRDD 40,80/...

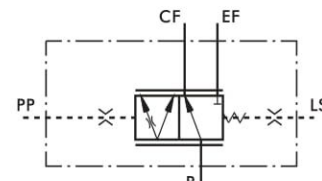
Pipe Mounting



Static signal
PRT 40,80,120/..., PRTA 40,80/...

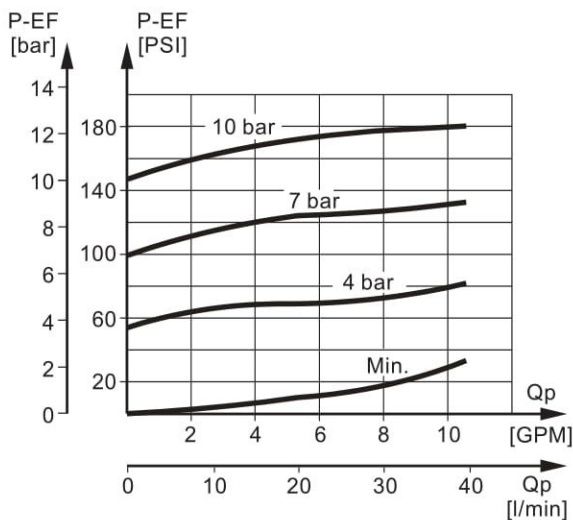


Dynamic signal
PRTD 40,80,120/..., PRTAD 40,80/...

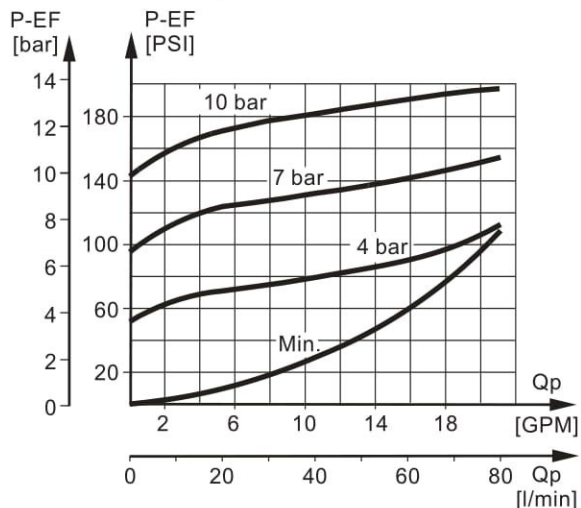


Static signal with External Port
PRTE120/...

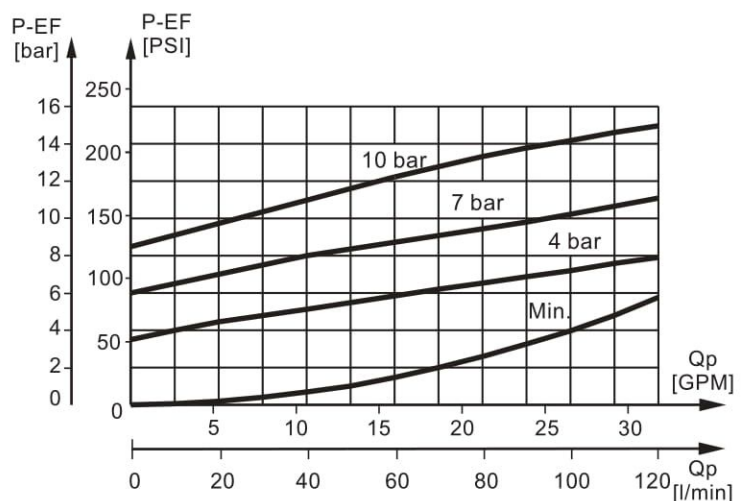
PR...40



PR...80



PRT...120

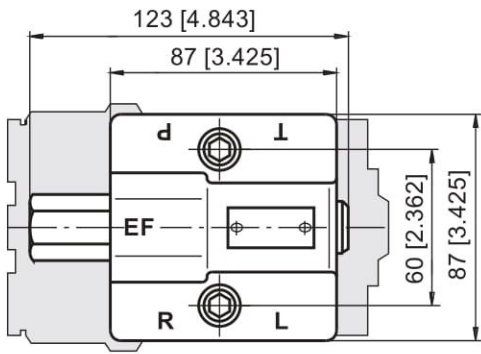
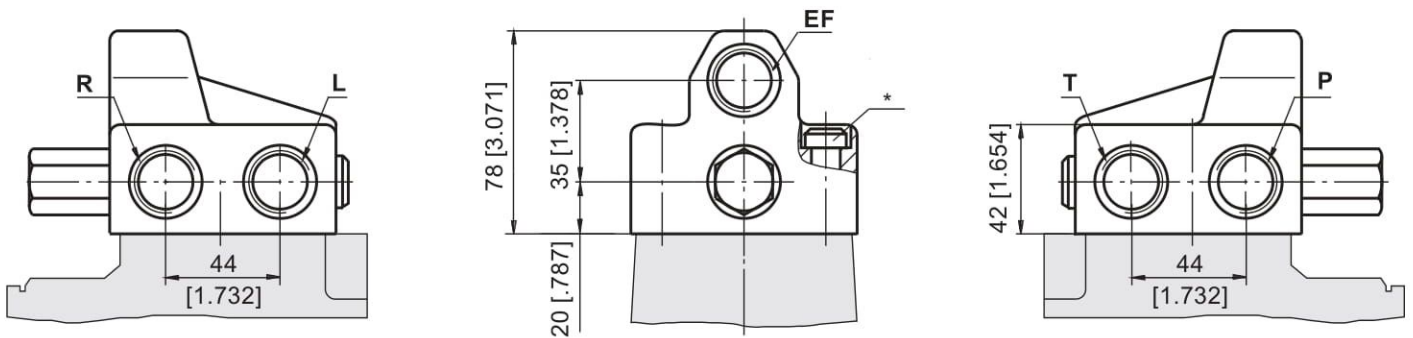


SPECIFICATION DATA

Parameters	Type									
	PRD(D), PRT(D)			PRTA(D)			PRT(D)(E)			
Rated Flow	lpm [GPM]	40 [10.6]			80 [21.1]			120 [31.7]		
Control Spring Pressure	bar [PSI]	4 [58]	7 [101.5]	10 [145]	4 [58]	7 [101.5]	10 [145]	4 [58]	7 [101.5]	10 [145]
Max. Pressures in Oil Ports:	P, EF	250 [3625]								
	CF	210 [3045]								
	R, L	280 [4061]			-					
	LS	210 [3045]								
	PP							210 [3045]		
	T	20 [290]								
Weight	kg [lb]	2,25 [4.96]			1,3 [2.87]			2,1 [4.6]		

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 - PRD(D) 40, 80/...

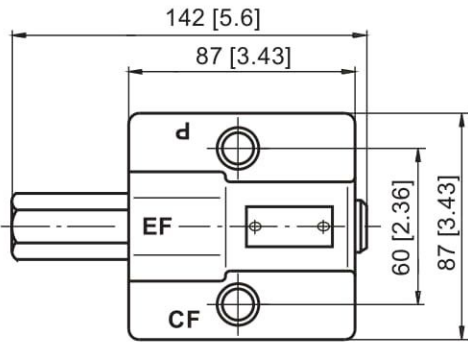
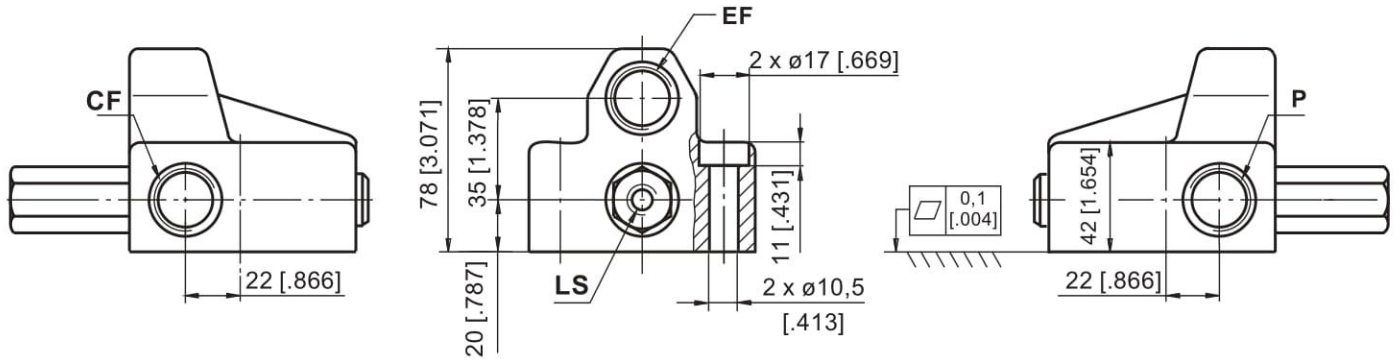


Code	Ports - P, EF Thread	Ports - T, R, L Thread
-	G1/2 18 [.71] depth	G3/8 18 [.71] depth
M	M22x1,5 18 [.71] depth	M18x1,5 18 [.71] depth
A	7/8 - 14 UNF O-ring 18 [.71] depth	3/4 - 16 UNF O-ring 18 [.71] depth

* 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].

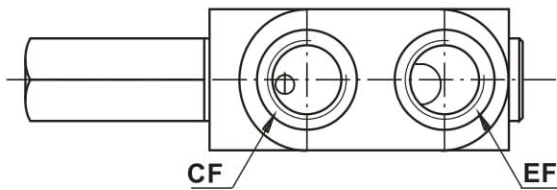
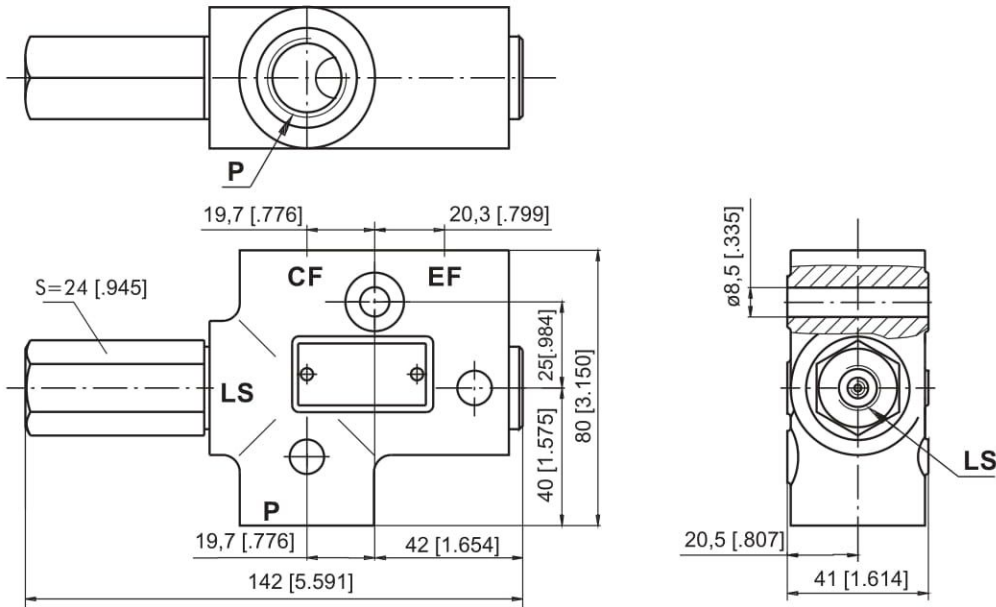


DIMENSIONS AND MOUNTING DATA - PRT(D) 40, 80/...



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

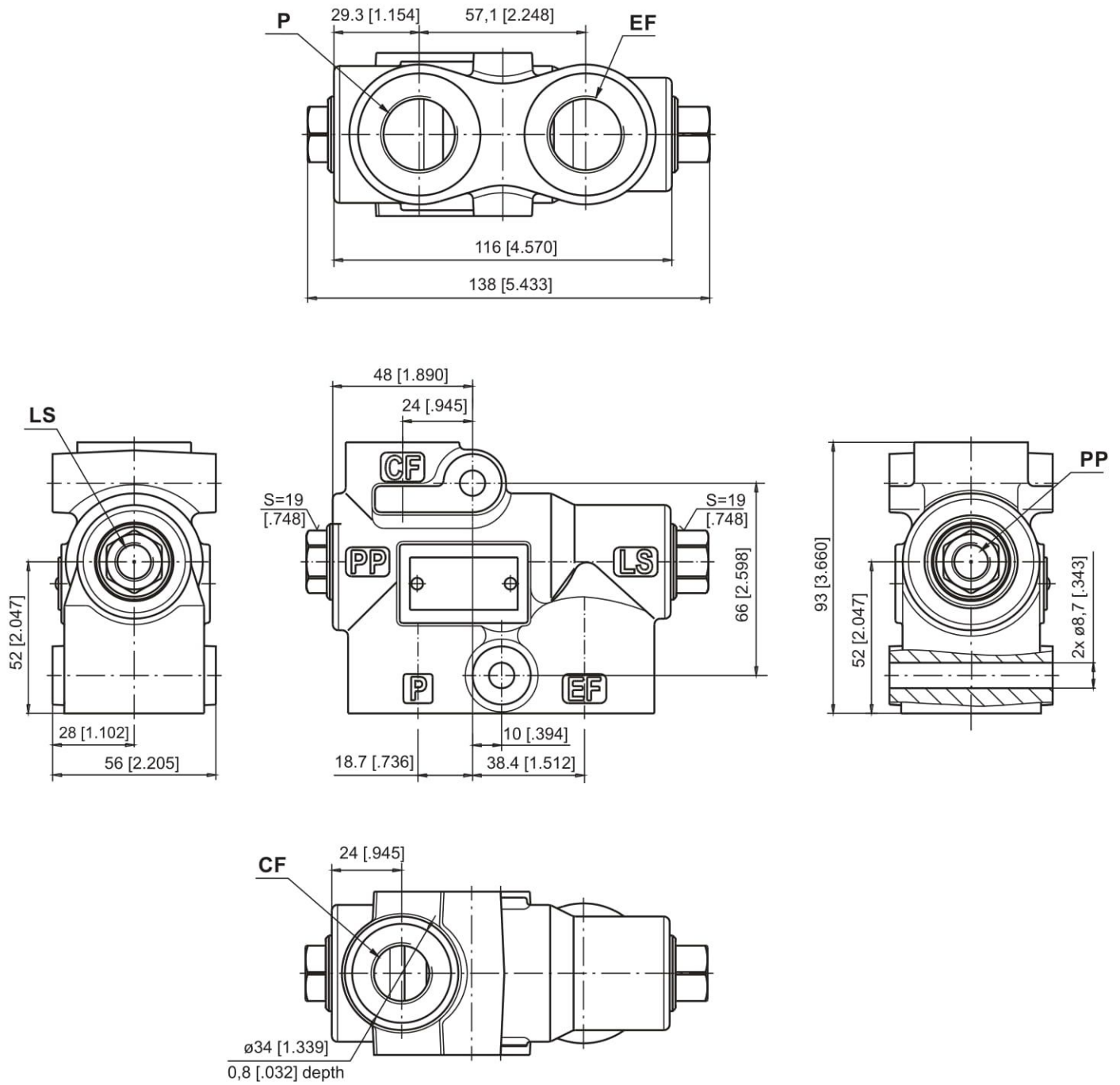
DIMENSIONS AND MOUNTING DATA - PRTA(D) 40, 80/...



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 - PRT...120/...



Code	Ports - P, EF Thread	Port - CF Thread	LS, PP - Ports
-	G3/4 20,5 [.81] depth	G1/2 18,5 [.73] depth	G1/4 12,5 [.49] depth
M	M27x2 20,5 [.81] depth	M18x1,5 18,5 [.73] depth	M12x1,5 12,5 [.49] depth
A	1 1/16 - 12 UN O-ring 20,5 [.81] depth	3/4 - 16 UNF O-ring 18,5 [.73] depth	7/16 - 20 UNF O-ring 12,5 [.49] depth



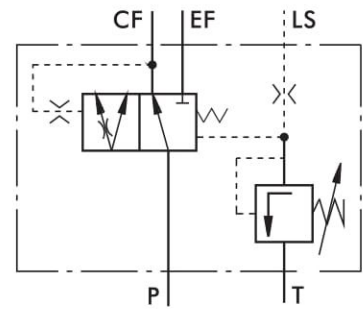
PRIORITY VALVES FOR HKU(S).../5T... TYPE PRT...160/... —



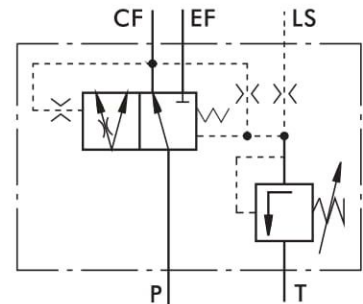
The Priority Valves PRT...160 have a built-in pilot pressure relief valve, which protects the steering unit against excessive pressure. The pilot pressure relief valve operates with the Shuttle of the Priority valve to limit the maximum steering pressure P-T measured across the ports of the steering unit.

SPECIFICATION DATA

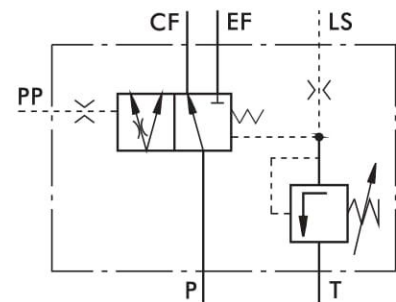
Parameters		Type		
		PRT(D), PRTE		
Rated Flow	lpm [GPM]	160 [42.3]		
Control Spring Pressure	bar [PSI]	4 [58]	7 [101.5]	10 [145]
Max. Pressures in Oil Ports:		350 [5076]		
	P, EF	210 [3045]		
bar [PSI]	CF	210 [3045]		
	LS	210 [3045]		
	PP	210 [3045]		
	T	15 [217]		
Standard Relief Valve Pressure Settings		175 [2540]		
	bar [PSI] *	175 [2540]		
Weight	kg [lb]	4,4 [9.70]		



Static signal
PRT 160/...



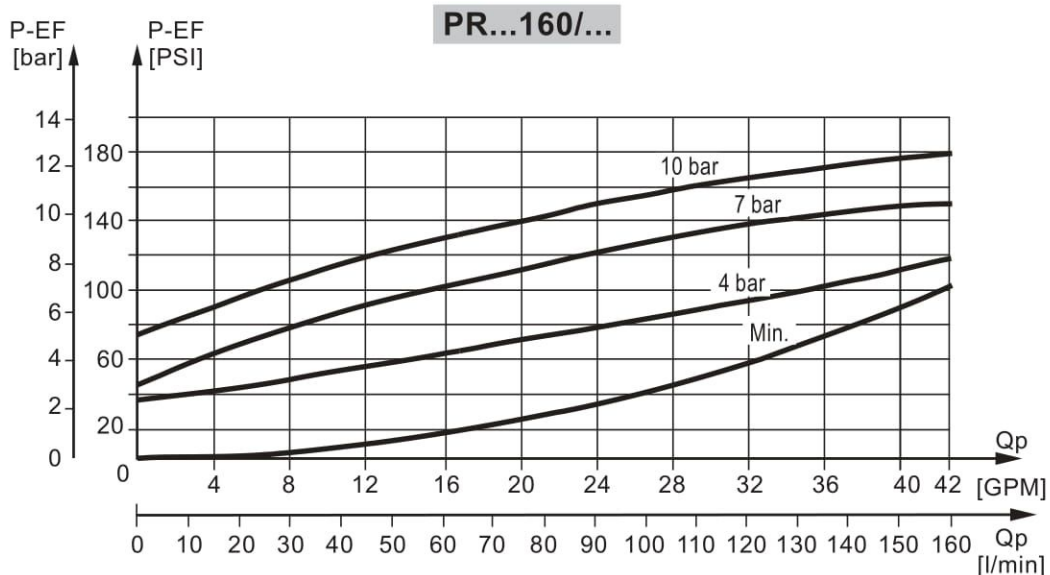
Dynamic signal
PRTD 160/...



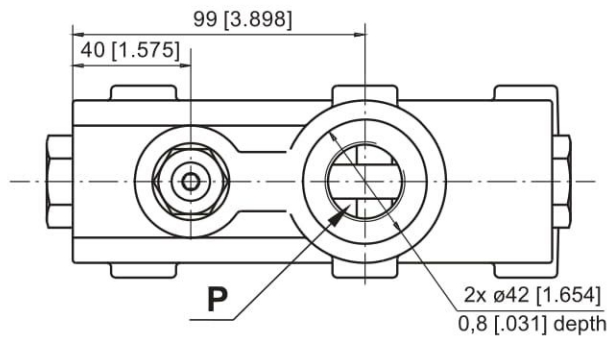
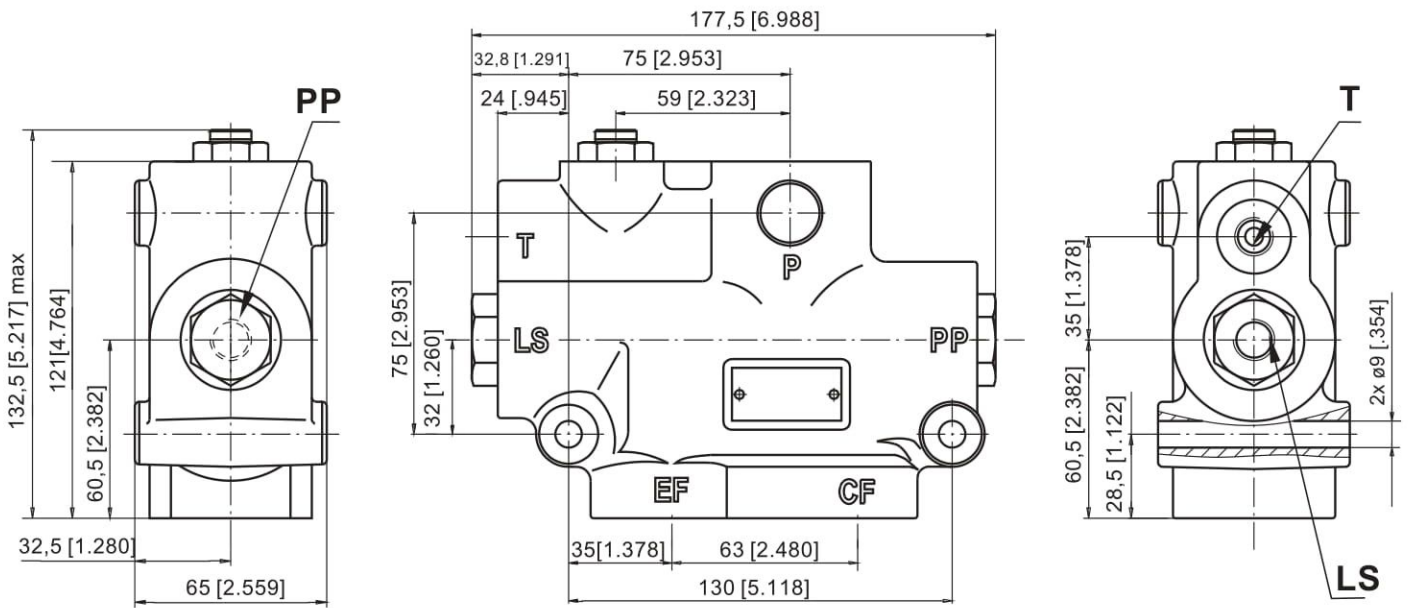
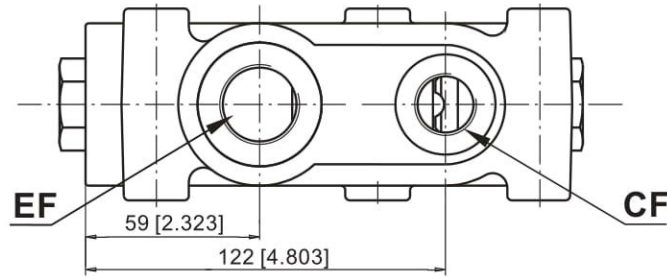
Static signal with External Pilot
PRTE 160/...

* - Adjusted valve pressure from 80 bar [1160 PSI] to 210 bar [3045 PSI] upon customer request.

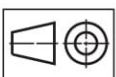
P - pump, **EF** - excess flow, **CF** - control flow (first priority oil flow), **LS** - load sensing, **T** - tank, **PP** - pilot pressure



DIMENSIONS AND MOUNTING DATA - PRT(D)(E)160/...



Code	Ports - P, EF Thread	Port - CF Thread	LS, PP, T - Ports
-	G3/4 20,5 [.81] depth	G1/2 18,5 [.73] depth	G1/4 12,5 [.49] depth
M	M27x2 20,5 [.81] depth	M18x1,5 18,5 [.73] depth	M12x1,5 12,5 [.49] depth
A	1 1/16 - 12 UN O-ring 20,5 [.81] depth	3/4 - 16 UNF O-ring 18,5 [.73] depth	7/16 - 20 UNF O-ring 12,5 [.49] depth



mm [in]