

DIRECTIONAL CONTROL VALVES 29ST (Cetop 3/NG 6: 23ST)

GENERAL DESCRIPTION

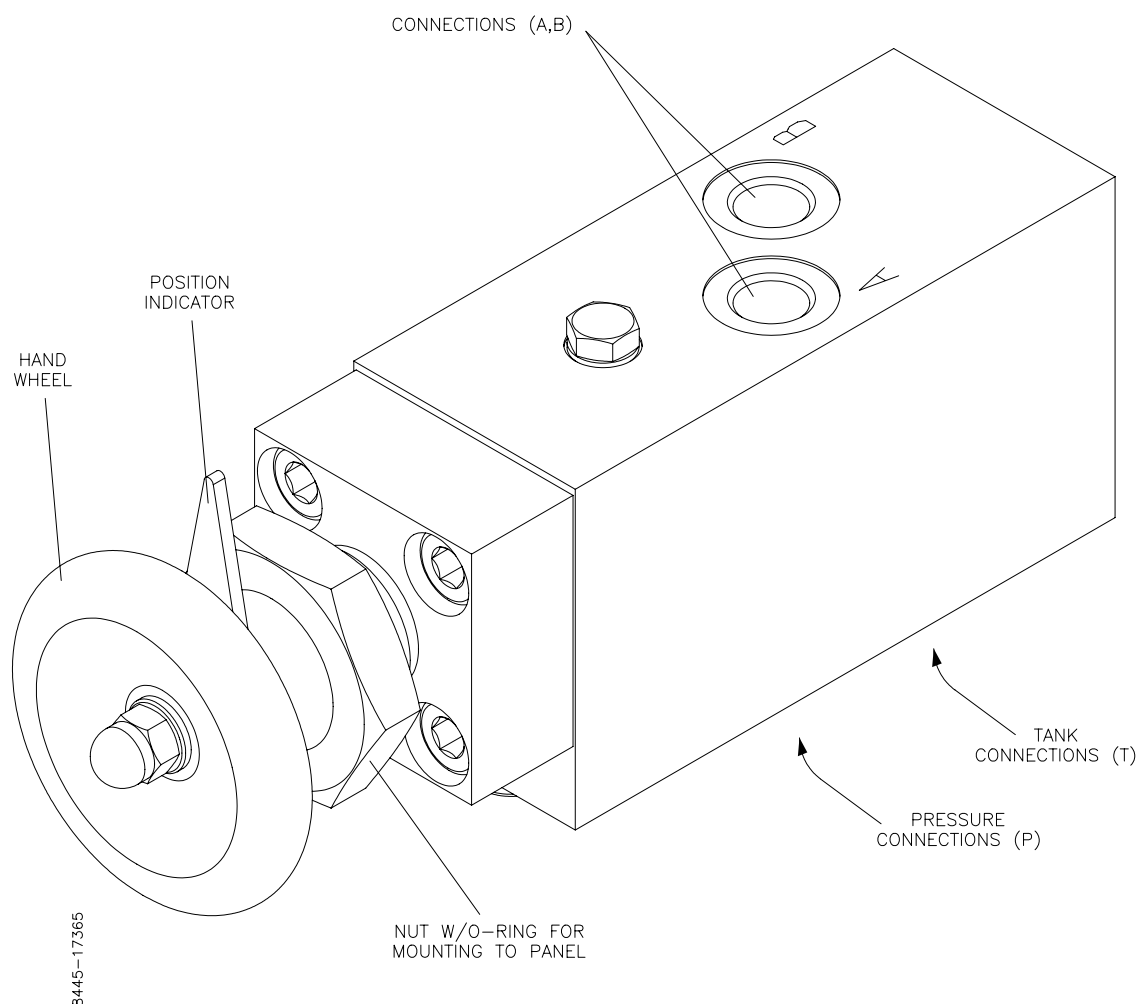


Figure 1 29ST General Arrangement

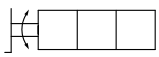
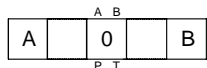
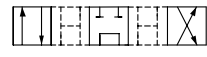

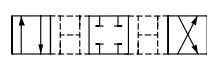



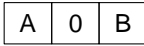
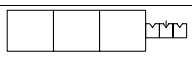

The Directional Control Valves 29ST are 4-ways seawater resistant valves for distribution and stopping of flow in hydraulic systems. The valves have the following characteristics:

- Delivered for mounting to a valve panel, and with threaded connections.
- Manually controlled by hand wheel.
- Delivered with a flow capacity of 25 l/min.
- Six standard spools are available.

For more details about types and options, please refer to section 'Modular Code'.

Directional Control Valves 29ST

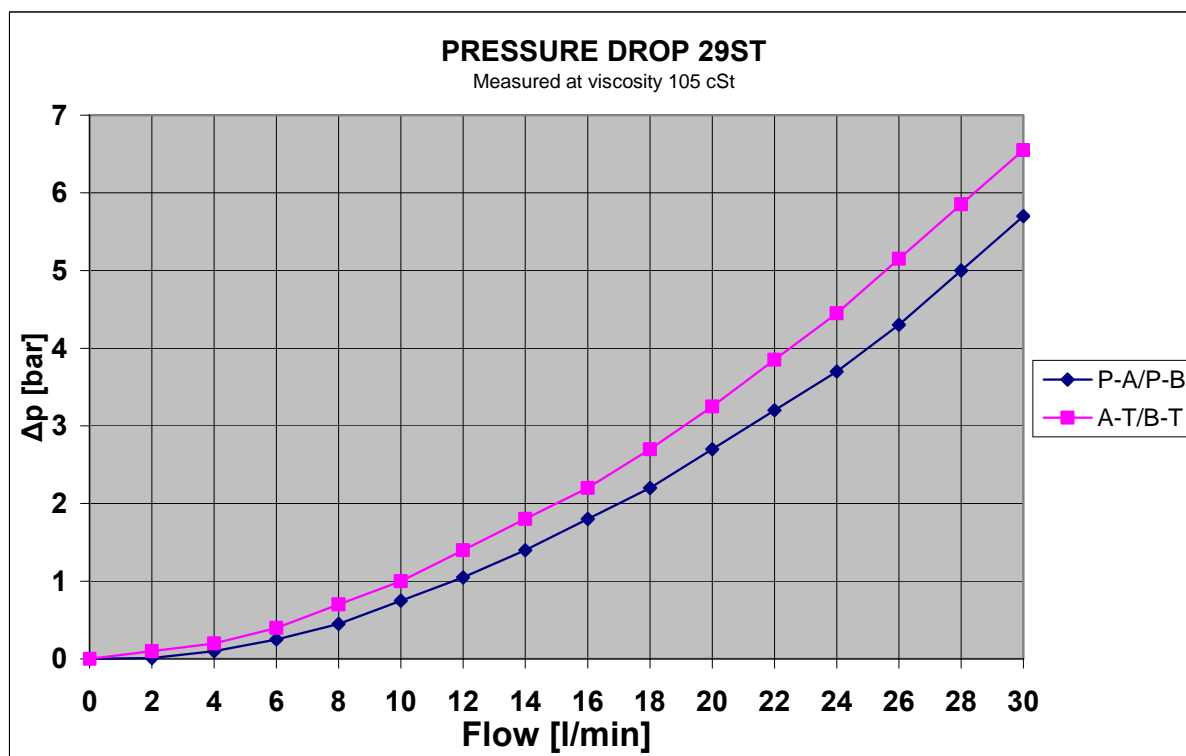
MODULAR CODE

Options	Remarks	Design Code	Fill in
Mounting			29ST
Threads	No options		
Type			
4-ways	No options	4	4
Pressure			
350 bar	No options	4	4
Operation			
Manual		1	1
Size			
6 mm	25 l/min	1	1
Spool Type			
		01	
		02	
		03	
		06	
		07	
		2C	
Spring / Detents Positions			
Detents in all positions		4	
Detents in positions A and 0, B blocked		B	

In example a 29ST valve; spool type 02 and detents in all positions will have modular code: **29ST4411024**.

Directional Control Valves 29ST

PRESSURE DROP



Directional Control Valves 29ST

TECHNICAL DATA

Description	Symbol	Data
Maximum flow		25 l/min
Weight		2.9 kg
Nominal size	D _n	6 mm
Max. operating pressure in port P, A, B	P _{max}	350 bar
Max. pressure in port T	T _{max}	100 bar
Max. pressure in port SA/SB	P	100 bar
Test Pressure		420 bar
Hydraulic fluid		Mineral oils for hydraulic system
Viscosity range:	v	10 to 350 mm ² /s (cST)
Viscosity index:	VI	> 120
Filtration, recommended filter with β 20 ≥ 100		Class 9 according to NAS 1638, 18/15 according to ISO 4406
Fluid temperature range:	T	-20°C to + 70°C
Ambient temperature range	T	-20°C to + 50°C
Standard Body Material		EN-GJS-400-15 (GGG 40)
Standard O-rings		Nitrile shore 70

Interfaces:

Description	Type
Threaded connections	¼" BSPP
Nut	NV 41

Directional Control Valves 29ST

INSTALLATION

The Directional Control Valves 29ST are installed to the pipeline with threaded connections and mounted to a valve panel with 1 off nut. For more details about connections and nut, please refer to section 'Interfaces'.

OPERATION

Manual

Manual control is performed by the control wheel. Due to the detents the spool will remain in the position set by the control wheel, see Figure 2.

MAINTENANCE

Check the valve for proper function. Visually check the valve and if required, paint unpainted (damaged) areas.

STORAGE

If storage longer than 6 months is expected, the valve must be kept in a dry room free from dust, and protected against sudden large temperature variations. For storage longer than 12 months, the valve must be filled with inhibition oil. Before use check all visible seals and flush with clean oil.