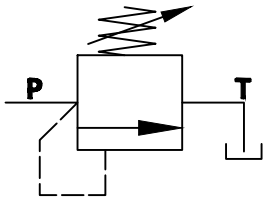
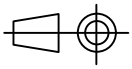
Description

Direct acting pressure relief valve, model DPR are guided poppet design, seat type valves. They are used for limiting a system pressure. The valve basicaly consist of sleeve, seat, poppet, spring and adjusting set screw or rotary hand knob.
The spring pushes the poppet onto the seat. P is connected to the system.The pressure existing in the system acts on the poppet surface area. If the pressure in chamber P exceeds the value set at the spring, the poppet opens against the spring.
Now hydraulic fluid flows from P to T.

Hydraulic Symbol



Dimensions in mm



Unit Dimension

Screw - in cartridge valve

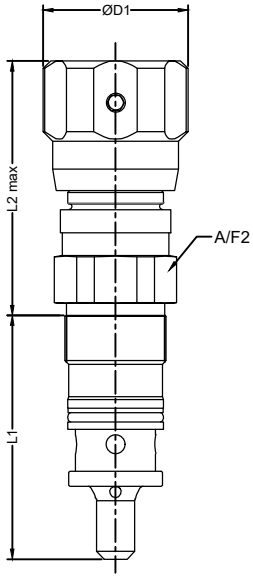


Figure 1

Screw - in cartridge valve with hand knob

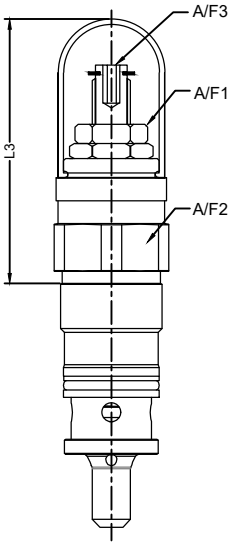


Figure 2

Screw - in cartridge valve with set screw

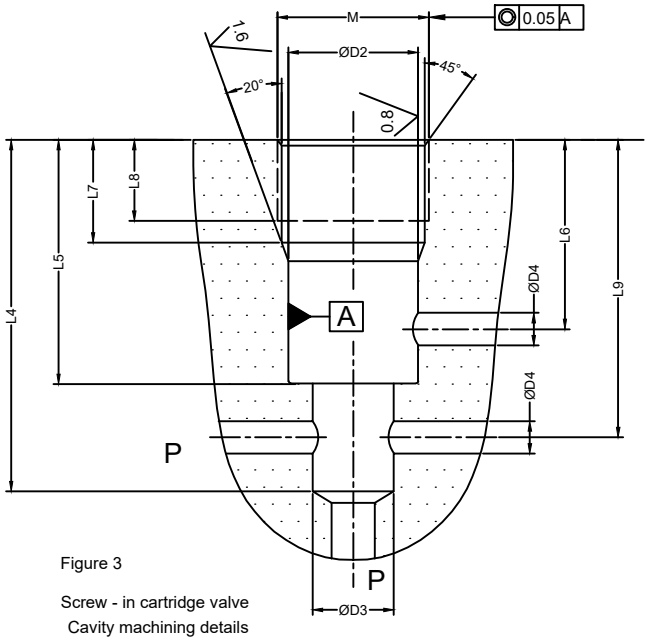


Figure 3

Screw - in cartridge valve Cavity machining details

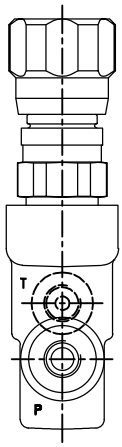
Table 1

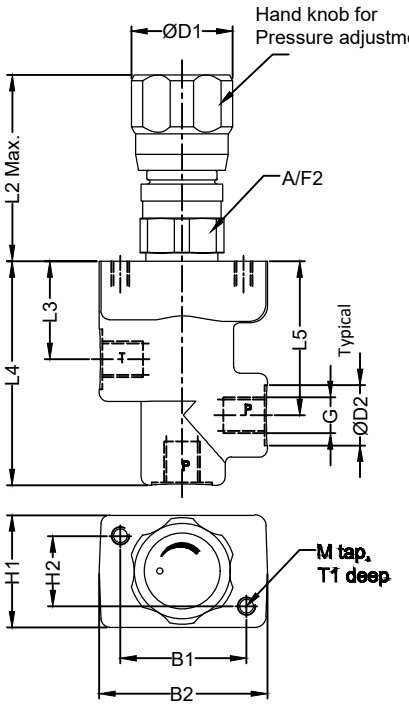
Size	A/F 1	A/F 2	A/F 3	M 6H	ØD1	ØD2 H9	ØD3	ØD4	L1	L2	L3	L4 ±0.5	L5 ±0.2	L6	L7 ±0.2	L8 ±0.2	L9	Mass	Tightening torque Nm
06	19	30	4	M28 x 1.5	43	25	15	6	64	64	65	65	45	35	19	15	55	0.4	120
10	19	36	5	M35 x 1.5	48	32	19	10	77	82	80	80	52	41	23	18	69	0.9	140
20	19	46	5	M45 x 1.5	60	40	24	20	103	85	79	110	70	54	27	21	92	1.6	170

Dimensions

Threaded port type

Dimensions in mm





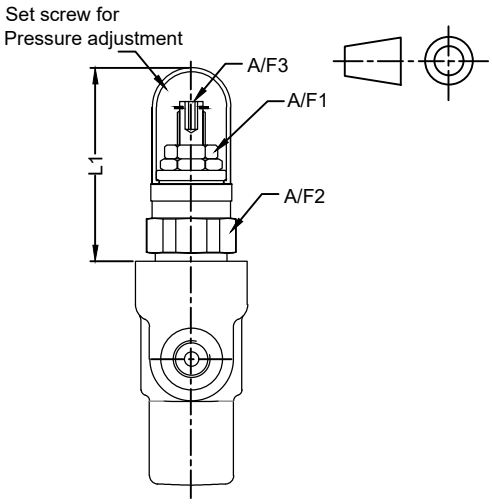
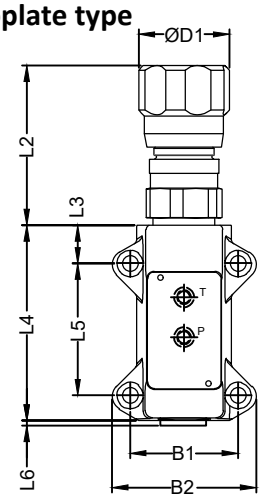
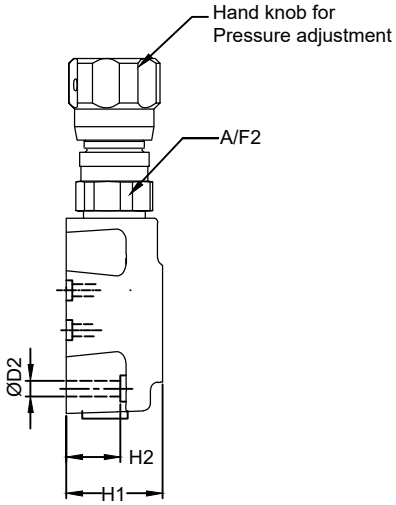


Table 1

Size	A/F 1	A/F 2	A/F 3	G	ØD1	ØD2 H9	M	L1	L2	L3	L4	L5	B1	B2	H1	H2	T1	Mass
06	19	30	4	G1/4	43	22	M6	65	64	35	80	55	45	60	40	25	11	1.2
10	19	36	5	G1/2	48	30	M8	80	82	42	100	45	60	80	60	40	15	2.8
20	19	46	5	G1	60	44	M8	78.5	85	54	135	45	70	95	70	50	15	6.2

Subplate type





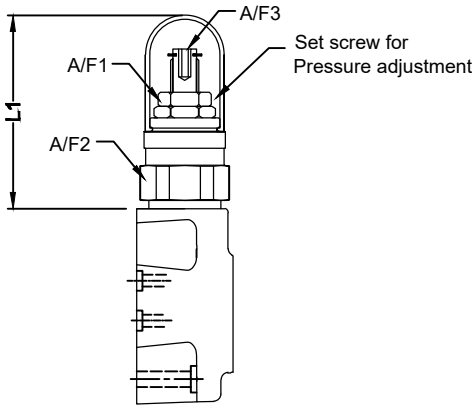


Table 1

Size	A/F 1	A/F 2	A/F 3	B1	B2	ØD1	ØD2	L1	L2	L3	L4	L5	L6	H1	H2	Mass
06	19	30	4	45	60	43	6.6	65	64	15	80	55	4	40	21	1.1
06	19	36	4	60	80	48	9	80	82	20	100	70	5	55	28	2.4
06	19	46	4	70	100	60	9	78.5	85	20	135	100	5	70	70	8

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Technical Specification

Design	:	Direct acting, Poppet type.
Mounting interface	:	Threaded Cartridge, Threaded body & Subplate body. Note : Subplate mounting valve interface as per ISO 6264-03-04 and 6264-06-09
Mounting position	:	Optional
Flow direction	:	From P to T
Opp Pressure for Port	:	Port P - 700 bar & Port T - 315 bar.
Pressure setting range	:	Upto 25,50,100,200,315,400 and 700 bar
Hydraulic medium	:	Mineral oil
Viscosity range	:	10 cSt to 100 cSt
Temperature range	:	-20°C to +80°C
Fluid cleanliness req.	:	ISO 4406 20/18/15 or better

Ordering Code