



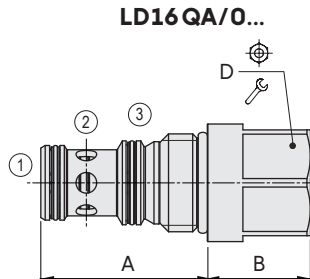
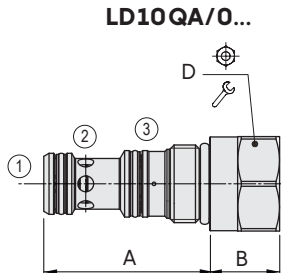
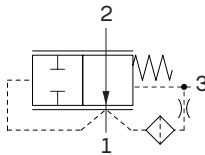
**LD..QA type
logic element – 3 way**

- Pilot to open configuration
- Fixed or adjustable stand-by
- Screw type adjustable configuration with lead sealing option
- SAE10 and SAE16 cavities

Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

	LD10QA	LD16QA
Nominal flow	80 l/min (21 US gpm)	190 l/min (50 US gpm)
Max. pressure	350 bar (5100 psi)	
Opening pressure	fixed setting: 1, 5, 10 bar (14.5, 72.5, 145 psi) adjustable setting: from 8 to 15 bar (116 to 218 psi)	
Oil leakage	at 210 bar (3050 psi) 80 cm³/min (4.88 in³/min)	230 cm³/min (14.03 in³/min)
Fluid	mineral based or synthetic hydraulic fluid with lubricating properties	
Viscosity	10-200 cSt	
Max level of contamination	20/18/14 ISO4406	
Fluid temperature	with NBR seals+Polyurethane with FPM seals	from -25°C (-13°F) to 90°C (194°F) from -20°C (-4°F) to 110°C (230°F)
Environmental temp. for working conditions	from -20°C (-4°F) to 60°C (140°F)	
Cavity	SAE 10/3Q	SAE 16/3Q
Weight	0.15 kg (0.33 lb)	0.45 kg (0.99 lb)

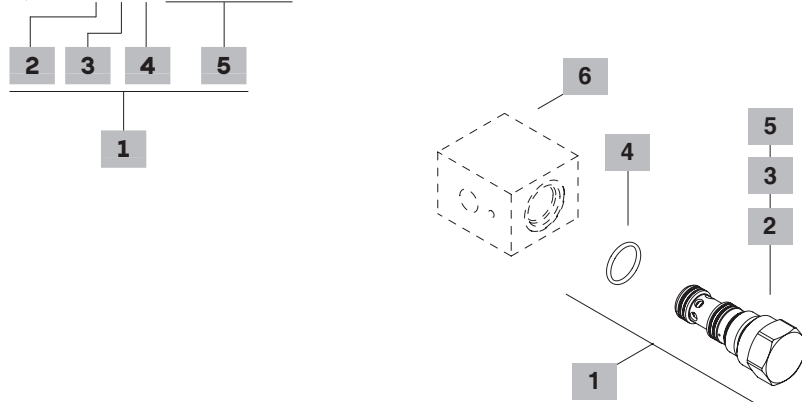
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Valve type	A		B		D	
	mm	in	mm	in	Nm	lbft
LD10QA	47.4	1.87	20	0.79	27	70
LD16QA	56.9	2.24	35.1	1.38	36	100

Ordering codes and description composition

LD10QA/0 B 0 B SB=12bar

**1 Cartridges**

TYPE	CODE	DESCRIPTION
SAE cavity 10/3Q		
LD10QA/0B0B	OLD10Q002000	Fixed setting, 5 bar (72.5 psi)
SAE cavity 16/3Q		
LD16QA/0B0B	OLD16Q002000	Fixed setting, 5 bar (72.5 psi)

2 Stand by

Setting is referred to 1 l/min (0.26 US gpm) flow

TYPE	DESCRIPTION
A	Fixed setting: 1 bar (14.5 psi)
B	Fixed setting: 5 bar (72.5 psi)
C	Fixed setting: 10 bar (145 psi);
R	Adjustable setting: from 8 to 15 bar (116 to 218 psi);

3 Load sensing

TYPE	DESCRIPTION
0	Without sealing
X	With sealing: for valves with adjustable stand-by only

4 Seals

TYPE	DESCRIPTION
B	NBR (Buna)+Polyurethane o-ring seals, std configuration
V	FPM (Viton) o-ring seals, contact Sales Dept

5 Stand-by setting

To be specified only with adjustable stand-by valve

6 Valve body

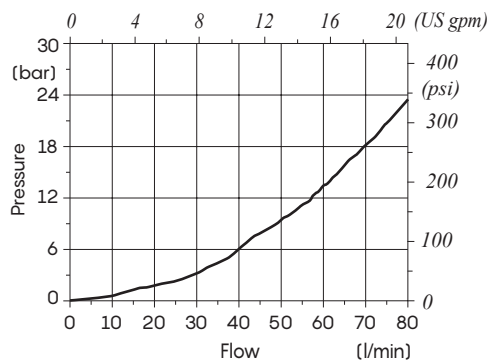
TYPE	CODE	DESCRIPTION
SAE10/3Q-G 1/2	3CC1032D21	Steel body for cavity 08 valve, G 1/2 std thread
SAE16/3Q-G 3/4	3CC1632E21	Steel body for cavity 16 valve, G 3/4 std thread

Note: aluminium body can stand up to 210 bar (3050 psi)

For aluminium bodies or different threading see from page 210

Rating diagrams

LD10QA pressure drop
(fully open)



LD16QA pressure drop
(fully open)

