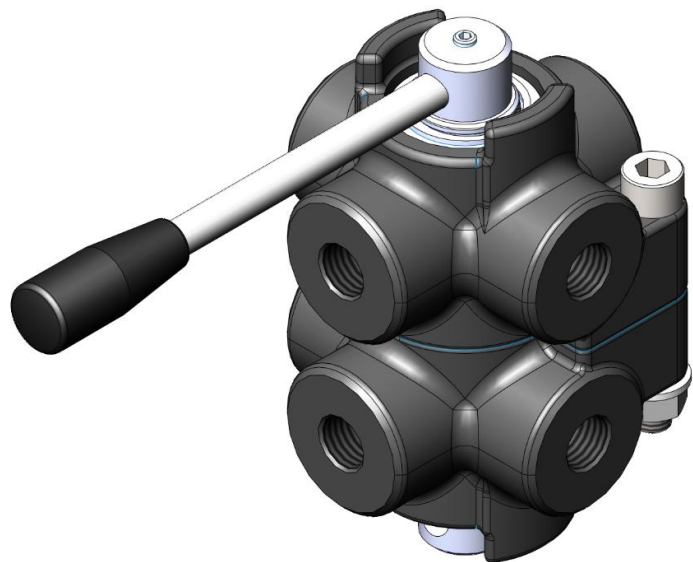
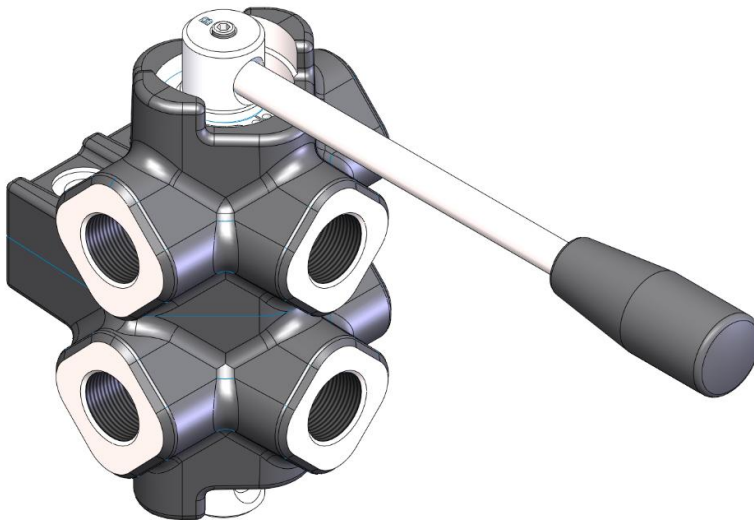


Rotary control diverter valves



Rotary control diverter valves:

- Simple compact and heavy duty designed with cast iron body and hard plated steel spool.
- Different spool types (30/31/40/42)
- Stackable to form 6-way/8-way.
- Different flows from 60 to 140 l/min

Additional information

This catalogue shows the product in the most standard configuration. For special requests please contact sales.

WARNING!

All specifications of this catalogue refer to the standard product at this date. Badestnost, oriented in continuous improvement, reserves the right to discontinue, modify or revise specifications, without notice.

**BADESTNOST IS NOT RESPONSIBLE FOR ANY DAMAGE CAUSED BY AN
INCORRECT USE OF THE PRODUCT**

First edition 02-2021

Working conditions

Valve name		357B/ 459B	303-7/ 662-7	358B/ 460B	303-8/ 662-8	359B/ 461B	303-9/ 662-9
N. of availabe ways		3/6	4/8	3/6	4/8	3/6	4/8
Max. flow rating		60 l/min		90 l/min		140 l/min	
		18.5 US gpm		23.7 US gpm		37 US gpm	
Max. pressure		315 bar		315 bar		315 bar	
		4600 psi		4600 psi		4600 psi	
Internal leakaga A(B) to T	$\Delta p = 100 \text{ bar (1450 psi) fluid}$ $\text{and valve at } 40 \text{ }^{\circ}\text{C (104 }^{\circ}\text{F)}$	4 cm ³ /min		4 cm ³ /min		4 cm ³ /min	
		0.24 in ³ /min		0.24 in ³ /min		0.24 in ³ /min	
Fluid		Mineral based oil					
Fluid temperature	with NBR seals	from -20 °C to 80 °C			from -4 °F to 176 °F		
	with FPM (Viton) seals	from -20 °C to 100 °C			from -4 °F to 212 °F		
Viscosity	operating range	from 15 to 75 mm ² /s			from 15 to 75 cSt		
	min.	12 mm ² /s			12 cSt		
	max.	400 mm ² /s			400 cSt		
Max. level of contamination		-/19/16 - ISO 4406			NAS 1683 - class 10		
Ambient temperature		from -40 °C to 60 °C			from -40 °F to 140 °F		
Note - for different working conditions contact sales dept.							

Reference standard

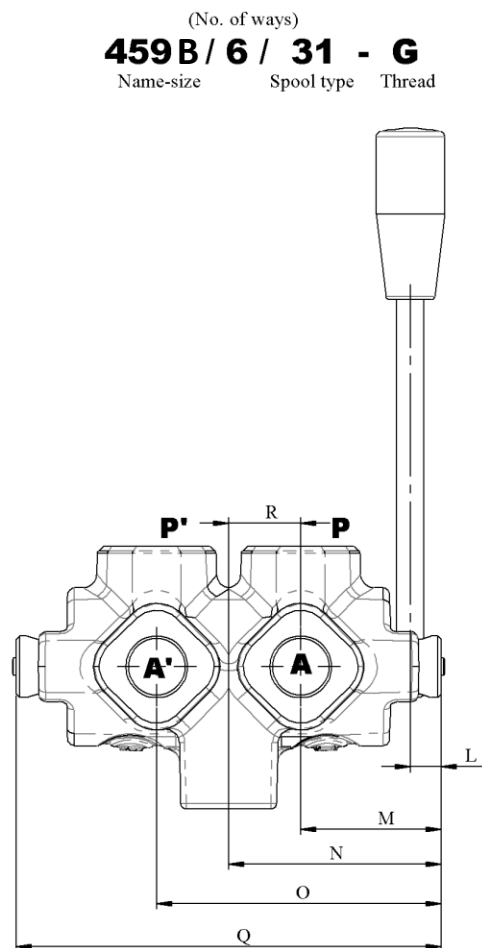
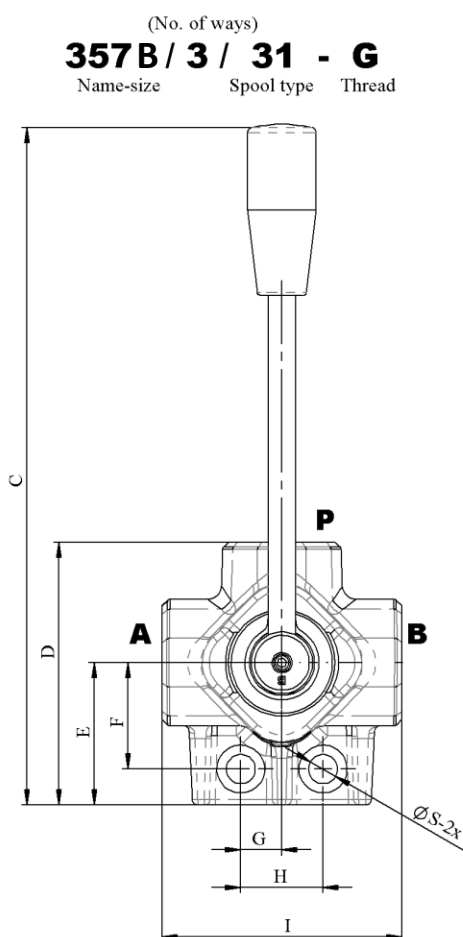
	BSP	UN-UNF	Metric	NPTF
Thread	ISO 228/1	ISO 263	ISO 262	Ansi B1.20.3
according to	BS 2779	ANSI B1.1 unified		
Cavity	ISO 1179	11926	9974-1	
dimension	SAE	J1926	J2244	J476a
according to	DIN 3852-2 (Shape X or Y)		3852-1 (Shape X or Y)	

Port threads

ALL Ports	BSP "G"	UN-UNF "S"
357B (303-7)	G3/8	3/4-16 (SAE8)
358B (303-8)	G1/2	7/8-14 (SAE10)
359B (303-9)	G3/4	1 1/16-12 (SAE12)

Dimensional data:

6-ways diverter valve is obtained by coupling two 3-ways bodies with assembling kit



Type	C	D	E	F	G	H	I	L	M	N	O	Q	R	S
	mm* in*													
357B 3 way	197.5	7.8 76.5	3.0 41.5	1.6 31	1.2 12	0.5 24	0.9 70	2.8 9	0.4 41	1.6 62	2.4		21	0.8 8.5 0.3
459B 6 way	197.5	7.8 76.5	3.0 41.5	1.6 31	1.2 12	0.5 24	0.9 70	2.8 9	0.4 41	1.6 62	2.4 69	2.7 124	4.9 21	0.8 8.5 0.3
358B 3 way	205.5	8.1 95.0	3.7 52	2 40	1.6 16	0.6 32	1.3 86	3.4 9	0.4 44	1.7 69	2.7		25	1.0 10.5 0.4
460B 6 way	205.5	8.1 95.0	3.7 52	2 40	1.6 16	0.6 32	1.3 86	3.4 9	0.4 44	1.7 69	2.7 87	3.4 138	5.4 25	1.0 10.5 0.4
359B 3 way	213	8.4 105	4.1 60	2.4 45	1.8 16	0.6 32.0	1.3 90	3.5 14.5	0.6 53	2.1 83	3.3		30	1.2 10.5 0.4
461B 6 way	213.0	8.4 105	4.1 60	2.4 45	1.8 16	0.6 32	1.3 90	3.5 15	0.6 53	2.1 83	3.3 102.5	4.0 166	6.5 30	1.2 10.5 0.4

Dimensional data:

8-ways diverter valve is obtained by coupling two 4-ways bodies with assembling kit

(No. of ways)

(No. of ways)

303-7/ 4 / 42 - G

Name-size

Spool type

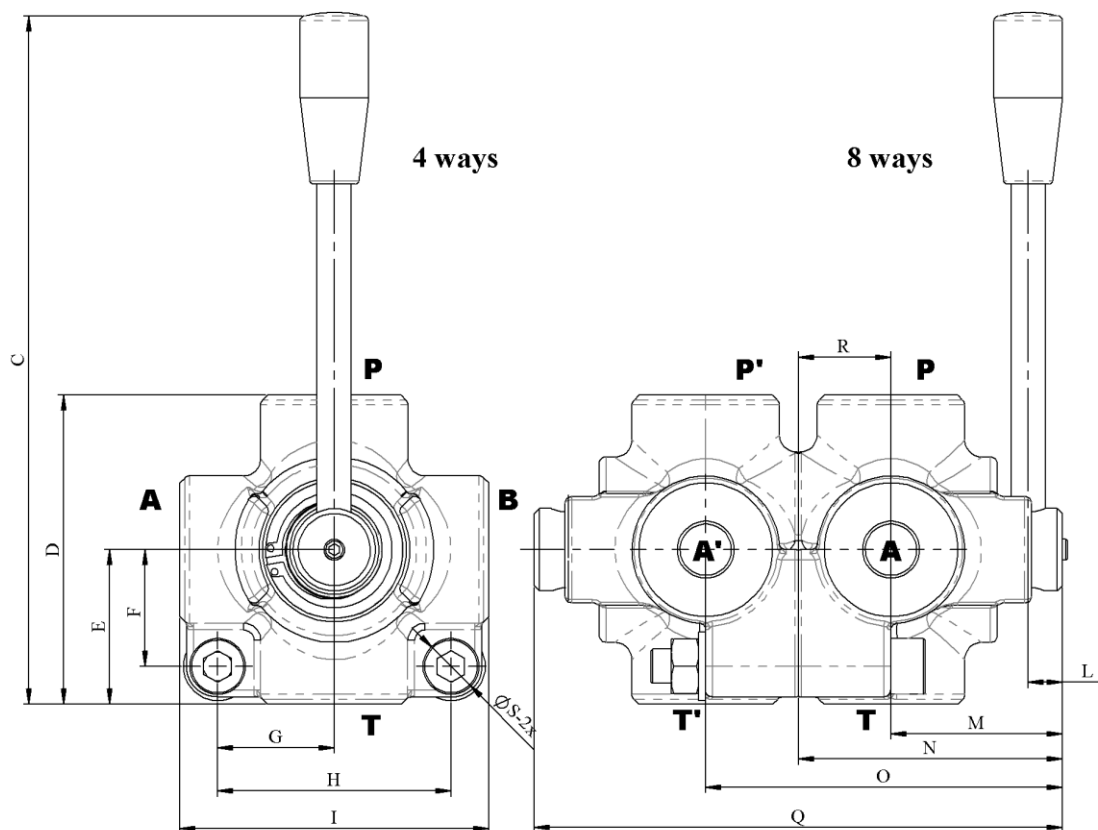
Thread

662-7/ 8 / 42 - G

Name-size

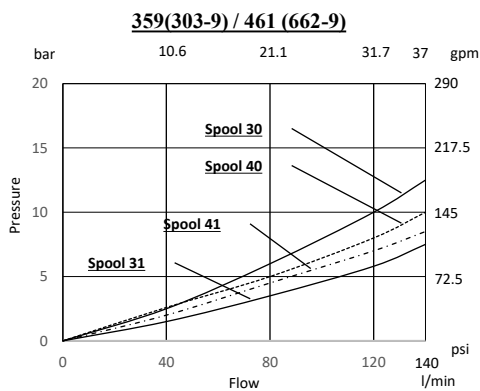
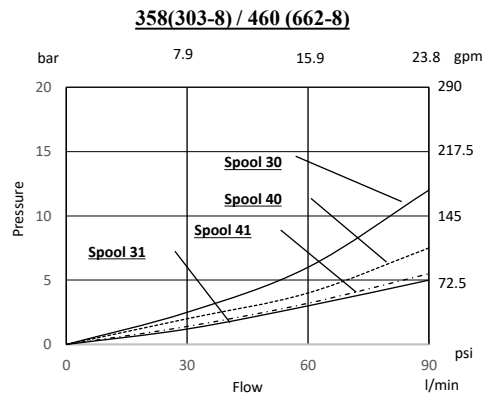
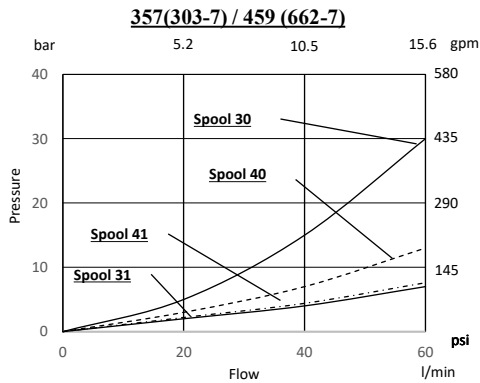
Spool type

Thread



Type	C		D		E		F		G		H		I		L		M		N		O		Q		R		S	
mm*in*																												
303-7 4 way	116	4.6	90	3.5	45	1.8	34	1.3	34	1.3	68	2.7	90	3.5	9	0.4	49	1.9	77	3					28	1.1	10.5	0.4
662-7 8 way	116	4.6	90	3.5	45	1.8	34	1.3	34	1.3	68	2.7	90	3.5	9	0.4	49	1.9	77	3	105	4.1	154	6.1	28	1.1	10.5	0.4
303-8 4 way	116	4.6	90	3.5	45	2	34	1.3	34	1.3	68	2.7	90	3.5	9	0.4	49	1.9	77	3					28	1.1	10.5	0.4
662-8 8 way	116	4.6	90	3.5	45	2	34	1.3	34	1.3	68	2.7	90	3.5	9	0.4	49	1.9	77	3	105	4.1	154	6.1	28	1.1	10.5	0.4
303-9 4 way	116	4.6	90	3.5	45	1.8	34	1.3	34	1.3	68	2.7	90	3.5	9	0.4	49	1.9	77	3					28	1.1	10.5	0.4
662-9 8 way	116	4.6	90	3.5	45	1.8	34	1.3	34	1.3	68	2.7	90	3.5	9	0.4	49	1.9	77	3.0	105.0	4.1	154	6.1	28	1.1	10.5	0.4

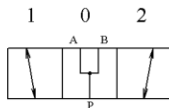
Pressure drop versus flow



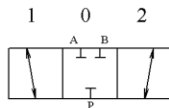
Spool circuits

3 ways

Type 31
3 position, ports connected in pos. 0

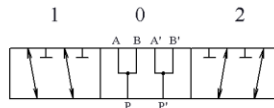


Type 30
3 position, ports closed in pos. 0

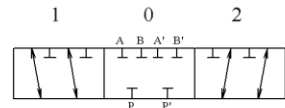


6 ways

Type 31
3 position, P and P' line flow on workports in pos. 0

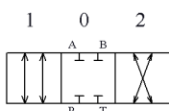


Type 30
3 position, ports closed in pos. 0



4 ways

Type 40
3 position, ports closed in pos. 0

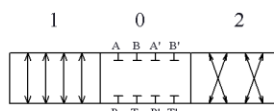


Type 42
3 position, P in T, ports closed in pos. 0



8 ways

Type 40
3 position, ports closed in pos. 0



Type 42
3 position, P in T, P' in T', ports closed in pos. 0

