



## SAFETY VALVES

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# DURGO SAFETY VALVES

Durgo safety valves have a unique design and functionality. The safety valves we produce today are still based on our patented 1930s design of a compression spring in a dry spring housing. Strict requirements on material standards and manufacturing precision, assembly and testing are the key elements in producing a good reliable safety valve.

We use state-of-the-art machinery and testing equipment in combination with solid craftsmanship to make safety valves of the highest capacity and precision, safety valves that open at the set pressure to prevent injury and costly damage to property.

Durgo safety valves can be used on pressurised systems with cold and hot water, air, oils and other media, and as overflow valves in pressurised systems or pumping plants.

Durgo safety valves have a high blow-off capacity and precise opening and shutting pressure. All our safety valves have a dry spring housing and a Teflon<sup>®</sup>-coated cone to prevent adhesion and ensure a high level of reliability. The safety valve's opening pressure is set according to the customer's request adapted to existing installation and pressure level. After individual testing in calibrated test rig, the valve is sealed and marked with its set pressure and unique serial number.

Durgo's safety valves are CE labelled and classed as category 4 valves in compliance with AFS 2016:1; Pressure Equipment Directive (PED 2014/68/EU). A declaration of conformity is enclosed with all safety valves.



# Durgo Safety Valve 4155 / Overflow Valve 4156 in brass

Durgo safety valve 4155 and overflow valve 4156, in brass.

The valves operate progressively and can be used in installations with e.g. air, water or oil. The valve housing, nipple and cone are in dezincification resistant brass with seal material of fluorinated rubber (FPM/FKM) or EPDM.

- Connection (Inlet/Outlet) 15/20, 20/25, 25/32, 32/40, 40/50 and 50/65, male thread (ISO-G)
- Set pressure 0.05 – 2.0 MPa for DN15-25 and 0,05-1,6 MPa for DN32-50. Can be ordered with optional set pressure within the given interval.
- Temperature range -30°C to +125°C.



Blow-off capacity without discharge pipe. Litres of cold water per minute at a 10% pressure increase.

SET PRESSURE MPa*	CAPACITY (ART. NO.**)					
	DN15	DN20	DN25	DN32	DN40	DN50
0.10	20 (500 22 66)	47 (500 25 63)	68 (500 28 60)	133 (500 31 65)	210 (500 08 15)	250 (500 10 11)
0.20	28 (500 20 19)	67 (500 23 16)	92 (500 26 13)	150 (500 29 10)	250 (500 08 31)	290 (500 10 37)
0.30	33 (500 20 35)	83 (500 23 32)	113 (500 26 39)	180 (500 29 36)	300 (500 08 49)	456 (500 10 45)
0.40	35 (500 20 50)	95 (500 23 57)	131 (500 26 54)	215 (500 29 51)	480 (500 08 56)	600 (500 10 52)
0.50	40 (500 20 76)	107 (500 23 73)	147 (500 26 70)	260 (500 29 77)	610 (500 08 64)	750 (500 10 60)
0.60	43 (500 20 92)	117 (500 23 99)	161 (500 26 96)	280 (500 29 93)	650 (500 08 72)	800 (500 10 78)
0.70	47 (500 21 18)	126 (500 24 15)	174 (500 27 12)	295 (500 30 17)	690 (500 08 80)	865 (500 10 86)
0.80	50 (500 21 34)	135 (500 24 31)	186 (500 27 38)	320 (500 30 33)	710 (500 09 06)	(500 11 02)
0.90	55 (500 21 59)	144 (500 24 56)	196 (500 27 53)	360 (500 30 58)	(500 09 22)	(500 11 28)
1.00	60 (500 21 75)	152 (500 24 72)	208 (500 27 79)	(500 30 74)	(500 09 48)	(500 11 44)
1.20	62 (500 22 17)	166 (500 25 14)	229 (500 28 11)	(500 31 16)	(500 09 63)	(500 11 69)
1.40	66 (500 22 25)	180 (500 25 22)	247 (500 28 29)	(500 31 24)	(500 09 71)	(500 11 77)
1.60	70 (500 22 33)	190 (500 25 30)	260 (500 28 37)	(500 31 32)	(500 09 89)	(500 11 85)

\*Opening pressure 0.05–2.0 MPa. Can be ordered with optional opening pressure within the given intervals.

\*\*ART. NO. refers to valve with seal material of fluorinated rubber (FPM/FKM).

CONNECTION		PRESSURE RANGES	HEIGHT
Inlet DN [Male ISO G]	Outlet DN [Male ISO G]	[MPa]	(pressure range dependent) [mm]
15	20	0.05–2.00	145–190
20	25	0.05–2.00	145–190
25	32	0.00–2.00	150–195
32	40	0.05–2.00	180–225
40	50	0.05–1.60	255
50	65	0.05–1.60	255

# Durgo Safety Valve 4165 / Overflow Valve 4166 in stainless steel

Durgo safety valve 4165 and overflow valve 4166, in non-corrosive stainless steel. The valves operate progressively and can be used in installations with e.g. air, water, oil, and other aggressive media. The valve housing, nipple and cone are in non-corrosive steel with seal material in fluorinated rubber (FPM/FKM) or EPDM, alternatively perfluor rubber (ISOLAST®).

- Connection (Inlet/Outlet) 15/25, 20/25, 25/32, 32/40, 40/50 and 50/65, male thread (ISO-G)
- Opening pressure 0.05–2.2 MPa. Can be ordered with optional opening pressure within the given intervals.
- Temperature range
  - EPDM: -30°C to +180°C
  - Fluorinated rubber: -30°C to +200°C, (water max. +125°C)
  - Perfluor rubber: -25°C to +220°C



Blow-off capacity without discharge pipe. Litres of cold water per minute at a 10% pressure increase.

SET PRESSURE MPa*	CAPACITY (ART. NO.**)					
	DN15	DN20	DN25	DN32	DN40	DN50
0.10	20 (5004011)	47 (5004029)	68 (5004047)	133 (5004065)	210 (5004083)	250 (5004101)
0.20	28 (5004012)	67 (5004030)	92 (5004048)	150 (5004066)	250 (5004084)	290 (5004102)
0.30	33 (5004013)	83 (5004031)	113 (5004049)	180 (5004067)	300 (5004085)	46 (5004103)
0.40	35 (5004014)	95 (5004032)	131 (5004050)	215 (5004068)	480 (5004086)	600 (5004104)
0.50	40 (5004015)	107 (5004033)	147 (5004051)	260 (5004069)	610 (5004087)	750 (5004105)
0.60	43 (5004016)	117 (5004034)	161 (5004052)	280 (5004070)	650 (5004088)	800 (5004106)
0.70	47 (5004017)	126 (5004035)	174 (5004053)	295 (5004071)	690 (5004089)	865 (5004107)
0.80	50 (5004019)	135 (5004037)	186 (5004055)	320 (5004073)	710 (5004091)	(5004109)
0.90	55 (5004021)	144 (5004039)	196 (5004057)	360 (5004075)	(5004093)	(5004111)
1.00	60 (5004023)	152 (5004041)	208 (5004059)	(5004071)	(5004095)	(5004113)
1.20	62 (5004025)	166 (5004043)	229 (5004061)	(5004079)	(5004097)	(5004115)
1.40	66 (5004026)	180 (5004044)	247 (5004062)	(5004080)	(5004098)	(5004116)
1.60	70 (5004027)	190 (5004045)	260 (5004063)	(5004081)	(5004099)	(5004117)

\*Opening pressure 0.05–2.2 MPa. Can be ordered with optional opening pressure within the given intervals.

\*\*ART. NO. refers to valve with seal material of fluorinated rubber (FPM/FKM).

CONNECTION		PRESSURE RANGES (MPa)	HEIGHT (pressure range dependent) (mm)
Inlet DN (Male ISO G)	Outlet DN (Male ISO G)		
15	25	0.05–2.20	145–190
20	25	0.05–2.20	145–190
25	32	0.00–2.20	150–195
32	40	0.05–2.20	170–220
40	50	0.05–1.20	255
50	65	0.05–1.20	255

# Durgo GT-77 – Safety Valve in brass

Durgo safety valve GT-77 in brass The valves are progressive and can be used in installations with e.g. water and oil. The valve housing, nipple and cone are in dezincification resistant brass with seal material of fluorinated rubber (FPM/FKM).

- Connection (Inlet/Outlet)
  - 15/22, 20/22, inlet male thread (ISO-G), outlet compression fitting.
  - 15/20, 20/20, inlet and outlet male thread (ISO-G).
- Opening pressure 0.1 – 1.0 MPa. Can be ordered with optional opening pressure within the given intervals.
- Temperature range -30°C to +125°C.



Blow-off capacity without discharge pipe. Litres of cold water per minute at a 10% pressure increase.

SET PRESSURE MPa*	CAPACITY (ART. NO.)	
	Connection 15/22	Connection 20/22
0.10	16 (5001219)	34 (5001342)
0.20	18 (5001235)	60 (5001367)
0.30	22 (5001243)	69 (5001375)
0.40	30 (5001805)	72 (5001383)
0.50	47 (5001813)	83 (5001391)
0.60	50 (5001821)	98 (5001979)
0.70	64 (5001862)	102 (5001904)
0.80	60 (5001839)	115 (5001920)
0.90	75 (5001847)	120 (5001946)
1.00	80 (5001854)	125 (5001953)

\*Opening pressure 0.1–1.0 MPa. Can be ordered with optional opening pressure within the given intervals.

CONNECTION		PRESSURE RANGES (MPa)	HEIGHT (mm)
Inlet DN (Male ISO-G)	Outlet Compress fitting.		
15	Dy22*	0.1 – 1.00	90
20	Dy22*	0.1 – 1.00	100

\*Also available with outlet DN20 male thread (ISO-G), add R after article number.



**DURGO**

THE TRUSTED LINK

SINCE 1921

## DURGO – TOP QUALITY RIGHT DOWN TO THE FINEST DETAIL

Because Durgo's products are vital parts of a larger system, we always strive to be the strongest link in the chain. As we have done since 1921. Our craftsmanship tradition is close to our hearts, but only in combination with modern technology can we guarantee compliance with the highest demands on safety and quality. That is the secret behind the renowned Durgo quality.

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